VOLUME 02

A NEW FACILITY FOR

BWHS - Locker Room Building

1359 Gamble Road, Centerton, AR 72719

Issue Date: 04/06/2026

Project No.: 2421.2

CIVIL ENGINEER:

HALFF ENGINEERS
2407 SE COTTONWOOD ST. #1
BENTONVILLE, AR

STRUCTURAL ENGINEER:

TATUM-SMITH-WELCHER ENGINEERS
3100 S MARKET ST
SUITE 202
ROGERS, AR 72758

MECHANICAL / ELECTRICAL ENGINEER:

HSA ENGINEERING
7405 ELLIS ST
FORT SMITH, AR 72916

Hight Jackson ASSOCIATES

5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A QUALITY CONTROL CHECK, INCLUDING THE APPROPRIATE COORDINATION AMONG DISCIPLINES, HAS BEEN MADE ON THIS PROJECT'S DOCUMENTS, AND CORRECTIONS RELATED TO THIS CHECK HAVE BEEN MADE. THE UNDERSIGNED PRINCIPAL/OWNER STATES THAT THESE PLANS AND SPECIFICATIONS AS SUBMITTED FOR REVIEW ARE, TO THE BEST OF HIS OR HER KNOWLEDGE AND ABILITY, COMPLETE AND READY FOR REVIEW

REGISTERED ARCHITECT — GREG H. SHEPHERD — No. 3438 — ARKANSAS

REGISTERED ARCHITECT — TIMOTHY L. SCHMIDT — LICENSE NO. 9488 — STATE OF ARKANSAS

HIGHT JACKSON ASSOCIATES, P.A. — REGISTERED ARCHITECTS — Certificate C 349 — ARKANSAS

Drawing Index

CIVIL

G0.1	COVER SHEET
C1.0	PHASING PLAN
G0.2	NOTES & LEGEND
A0.0	COVER SHEET
C2.0	DEMOLITION PLAN
C3.0	EROSION CONTROL PLAN
C4.0	SITE PLAN
C4.1	UTILITY AND DRAINAGE PLAN
C4.2	STORM DRAIN LINE A PLAN AND PROFILE
C4.3	STORM DRAIN LINE B PLAN AND PROFILE
C6.0	GRADING PLAN
C7.0	MISCELLANEOUS DETAILS
C7.1	CITY DETAILS
C7.2	CITY DETAILS
L1.0	LANDSCAPE PLAN

TURF

TC0.0	COVER PAGE
TC1.1	EXISTING CONDITIONS
TC3.1	LAYOUT PLAN
TC4.1	GRADING PLAN
TC5.1	DRAINAGE PLAN
TC6.1	COLOR RENDERING
TD1.1	SECTIONS AND DETAILS

ARCHITECTURAL

A0.1	CODE FOOTPRINT
A1.10	ARCHITECTURAL SITE PLAN
A1.11	SITE DETAILS
A2.1	FIRST FLOOR PLAN
A2.3	SPECIALTY PLAN
A2.5	ENLARGED RESTROOM PLANS
A2.8	FIRST FLOOR REFLECTED CEILING PLAN
A2.9	ENLARGED CEILING PLAN/DETAILS
A2.10	ROOF PLAN & DETAILS
A3.1	DOOR SCHEDULE / DOOR / WINDOW / FRAME ELEVATIONS / DETAILS
A3.2	DOOR/WINDOWS DETAILS
A4.1	EXTERIOR ELEVATIONS
A5.1	BUILDING SECTIONS
A5.2	WALL SECTIONS
A5.3	ENLARGED DETAILS
A6.1	MILLWORK ELEVATIONS / DETAILS / INTERIOR ELEVATIONS

STRUCTURAL

S1.0	REQUIRED IBC SPECIAL INSPECTIONS
S1.1	FOUNDATION GENERAL NOTES & TYP. DETAILS
S1.2	FRAMING GENERAL NOTES & TYP. DETAILS
S2.1	FOUNDATION PLAN
S3.0	LINTEL & MASONRY PLAN & TYP. LINTEL & MASONRY DTLS.
S3.1	ROOF FRAMING PLAN
S4.1	FOUNDATION DETAILS
S5.1	FRAMING DETAILS

PLUMBING

U2.1	SITE UTILITY PLAN
P1.1	PLUMBING NOTES & LEGEND
P2.1	PLUMBING PLAN
P3.1	PLUMBING DETAILS
P3.2	PLUMBING DETAILS
P4.2	PLUMBING RISER
P4.3	GAS RISER
P5.1	PLUMBING SCHEDULES

MECHANICAL

M1.1	HVAC NOTES, LEGEND & SCHEDULES
M2.1	HVAC PLAN
M3.1	HVAC DETAILS
M4.1	HVAC CONTROLS

ELECTRICAL

ES1.0	ELECTRICAL SITE PLAN
ES1.1	ELECTRICAL SITE PHOTOMETRIC PLAN
ES1.0A	FIELD LIGHTING PLAN ALTERNATE
ES1.1A	MUSCO LIGHTING DETAILS
ES1.2A	MUSCO LIGHTING DETAILS
ES1.3A	MUSCO LIGHTING DETAILS
ES1.4A	MUSCO LIGHTING DETAILS
ES1.5A	MUSCO LIGHTING DETAILS
ES1.6A	MUSCO LIGHTING DETAILS
E1.1	ELECTRICAL LEGEND, NOTES & DETAILS
E2.1	LIGHTING PLAN
E2.2	POWER PLAN
E2.3	MECHANICAL POWER PLAN
E2.4	SPECIAL SYSTEMS PLAN
E3.1	ELECTRICAL DETAILS
E4.1	ELECTRICAL RISER DIAGRAMS
E5.1	ELECTRICAL SCHEDULES

AUDIOVISUAL

T0.0	TECHNOLOGY SYMBOLS AND ABBREVIATIONS
T0.1	TECHNOLOGY SYMBOLS AND ABBREVIATIONS
T0.2	TECHNOLOGY SCHEDULES
T1.1	FIRST FLOOR PLAN - LOCKER ROOM TECHNOLOGY
T2.1	FIRST FLOOR REFLECTED CEILING PLAN - LOCKER ROOM - TECHNOLOGY
T7.0	AUDIOVISUAL SCHEMATICS, RACK ELEVATIONS, PLATES AND PANELS

ISSUE DATE: 04/06/2026

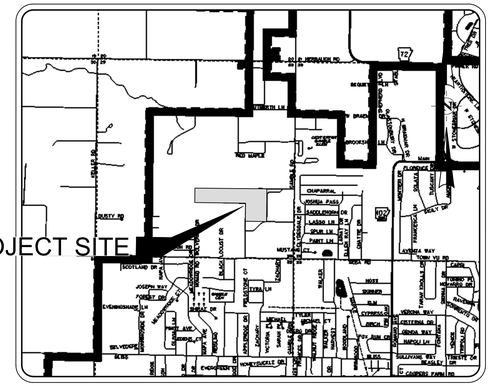
PROJECT NO.: 2421.2

LARGE SCALE DEVELOPMENT PLANS
FOR

BENTONVILLE WEST HIGH SCHOOL

LOCKER ROOM
CITY REVIEW

1359 GAMBLE ROAD
CENTERTON AR
APRIL 2026



LOCATION MAP

NOT TO SCALE

ENGINEER

HALFF
2407 SE COTTONWOOD ST STE 1
BENTONVILLE, AR 72712
CONTACT: TOM BURRY
EMAIL: TBURRY@HALFF.COM
TEL: 479-273-2209
FIRM/ BUSINESS NO.: 1470 STATE: AR

SURVEYOR

HALFF
2407 SE COTTONWOOD ST. STE. 1
BENTONVILLE, AR 72712
CONTACT: JOSHUA BEMBENEK
EMAIL: JBEMBENEK@HALFF.COM
TEL: (479) 273-2209

LANDSCAPE ARCHITECT

HALFF
2407 SE COTTONWOOD ST. STE. 1
BENTONVILLE, AR 72712
CONTACT: DREW DINGLER
EMAIL: DDINGLER@HALFF.COM
TEL: (479) 273-2209

ARCHITECT

HIGHT-JACKSON ASSOCIATES, P.A.
5201 VILLAGE PARKWAY, STE. 300
ROGERS, AR 72757
CONTACT: MICHELLE MCCLAFLIN
EMAIL: mmcclaflin@hjarch.com

SITE UTILITY CONTACTS

NATURAL GAS
BLACK HILLS ENERGY
CONTACT: JOSHUA KNIGHT
1301 FEDERAL WAY , P.O. BOX 2129
LOWELL, ARKANSAS 72745-2129
TELEPHONE: (479) 320-5091 (OFFICE)
TELEPHONE: (479) 721-4543 (CELL)
joshua.knight@blackhillscorp.com

CABLE TELEVISION
COX COMMUNICATIONS
CONTACT: LARRY ALEXANDER
4901 S. 48TH STREET
SPRINGDALE, ARKANSAS
TELEPHONE: (479) 871-7606
larry.alexander@cox.com

TELEPHONE
AT&T
CONTACT: BRENT BALDWIN
1133 HAROLD STREET
FAYETTEVILLE, ARKANSAS 72703
TELEPHONE: (479) 571-6609 (OFFICE)
bb6858@att.com

WATER & SEWER
CENTERTON UTILITIES
CONTACT: MALCOLM ATTWOOD, PE, DIRECTOR
517 N. MAIN ST.
CENTERTON, AR 72719
TELEPHONE: (479) 795-0222
MALCOLM@CUAR.US

ELECTRIC
AEP-SWEPCO
415 W STRIBLING DR.
ROGERS, AR 72764
CONTACT: CHRIS ANDREOLLI (<50 LOTS)
TELEPHONE: (479) 986-1004
CONTACT: RON R BERTRAM (>50 LOTS)
TELEPHONE: (479) 973-2333

DEPARTMENT OF HEALTH
ARKANSAS DEPARTMENT OF HEALTH
DIVISION OF ENGINEERING, SLOT 37
4815 W. MARKHAM
LITTLE ROCK, AR 72205
TELEPHONE: (501) 661-2623

GOVERNING AGENCIES

CITY OF CENTERTON

PLANNING & DEVELOPMENT
CONTACT: LORENE BURNS
200 MUNICIPAL DRIVE
CENTERTON, ARKANSAS 72719
TELEPHONE: (479) 795-2750 EXT. 302
planning@centertonar.gov
PUBLIC WORKS DEPARTMENT
CONTACT: ANTHONY MARTINEZ
11509 HWY 72 WEST
CENTERTON, ARKANSAS 72719
TELEPHONE: (479) 224-6028
amartinez@centertonar.gov
CITY ENGINEER
CONTACT: ALAN CRAIGHEAD
200 MUNICIPAL DRIVE
CENTERTON, ARKANSAS 72719
TELEPHONE: (479) 795-2750
ACraighead@centertonar.gov

BUILDING DEPARTMENT
CONTACT: ROBERT COFFELT
200 MUNICIPAL DRIVE
CENTERTON, ARKANSAS 72719
TELEPHONE: (479) 795-2750 EXT. 25
rcoffelt@centertonar.gov

CENTERTON FIRE DEPARTMENT
CONTACT: PAUL HIGGINBOTHAM
755 W. CENTERTON BLVD.
CENTERTON, ARKANSAS 72719
TELEPHONE: (479) 795-2550
phigginbotham@centertonfire.com

Sheet List Table

Sheet Number	Sheet Title
G0.1	COVER SHEET
G0.2	NOTES AND LEGEND
V1.0	TOPO EXHIBIT
C1.0	PHASING PLAN
C2.0	DEMOLITION PLAN
C3.0	EROSION CONTROL PLAN
C3.1	EROSION CONTROL DETAILS
C4.0	SITE PLAN
C5.0	UTILITY AND DRAINAGE PLAN
C5.1	STORM DRAIN LINE A PLAN AND PROFILE
C5.2	STORM DRAIN LINE B PLAN AND PROFILE
C6.0	GRADING PLAN
C7.0	MISCELLANEOUS DETAILS
C7.1	MISCELLANEOUS DETAILS
C7.2	CITY DETAILS
C7.3	CITY DETAILS
L1.0	LANDSCAPE PLAN

OWNER/CLIENT:

BENTONVILLE SCHOOL DISTRICT
JANET SCHWANHAUSSER
DEPUTY SUPERINTENDENT AND CFO
500 TIGER BLVD
BENTONVILLE, AR 72712
TEL. 479-254-5019 MOBILE (479) 466-9526
jschwanhausser@bentonvillek12.org

PREPARED BY:

halff
2407 SE COTTONWOOD ST STE 1
BENTONVILLE, AR 72712
TEL. 479-273-2209 FAX --
www.halff.com

NOTE:
1. THERE ARE NO KNOWN WETLANDS ON SITE

PROPOSED USE: EDUCATION FACILITIES		
ZONING - AGRICULTURAL (A-1)		
BUILDING SETBACKS		
FRONT YARD	SIDE YARD	REAR YARD
35'	15'	25'

City of Centerton Approval: Planning Commission Approval Date: _____ Review of these plans and associated reports is limited to general compliance with jurisdictional Codes and Regulations and does not serve to warrant the Engineer's design or relieve the developers of any requirements, even if errors, omissions, or inadequacies are discovered after plan approval. The jurisdictional requirements shall govern over any conflicts with the plans or specifications and any conditions determined in the field which require changes shall be subject to further review and corrective action.

_____ _____ _____
City Engineer Date

_____ _____ _____
Planning Department Director Date

_____ _____ _____
Street Department Date

_____ _____ _____
Water & Sewer Department Date

_____ _____ _____
Fire Department Date

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS A. BURRY
04/06/2026

CERTIFICATE OF AUTHORIZATION
HALFF ASSOCIATES, INC.
No. 1470
ARKANSAS

THE SEAL OPPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:
TOM BURRY 14691
NAME PE LICENSE NO.
04-06-2026
DATE
THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF:
HALFF
1470 AR
FIRM / BUSINESS NO. STATE

FEMA CERTIFICATION

BASED UPON REVIEW OF FEMA FIRM: BENTON COUNTY, ARKANSAS AND INCORPORATED AREAS, AND BY GRAPHIC PLOTTING ONLY, A PORTION OF THIS PROPERTY LIES WITHIN ZONE AE - AREAS DETERMINED TO BE INSIDE OF THE 1% ANNUAL CHANCE FLOODPLAIN, WITH BASE FLOOD ELEVATIONS DETERMINED. SURVEYOR ASSUMES NO LIABILITY FOR THE CORRECTNESS OF CITED MAP.

MAP: 05007C0070J

EFFECTIVE DATE: SEPTEMBER 28, 2007

811 Know what's below. Call before you dig.

THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING SIZE, TYPE AND LOCATION OF UNDERGROUND, SURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT THE "ARKANSAS 811" SYSTEM AT 1-800-482-8998 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR SHALL ALSO BE FULLY RESPONSIBLE FOR FIELD VERIFYING LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AFFECTED BY CONSTRUCTION FOR THIS PROJECT IN ORDER TO AVOID DAMAGING THOSE UTILITIES, AND SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF CONTRACTOR-DAMAGED UTILITIES TO THE UTILITY COMPANY'S APPROVAL AT THE EXPENSE OF THE CONTRACTOR.

AVO: 63371.001 DATE: APRIL 2026

LEGEND

	PROPOSED CONCRETE PAVING
	PROPOSED CONCRETE SIDEWALK
	PROPOSED RUBBER TURF
	PROPOSED GRAVEL
	PROPOSED LOT LINE
	PROPOSED CENTERLINE ALIGNMENT
	BUILDING SETBACK LINE
	PROPOSED EASEMENT LINE
	PROPOSED RIGHT-OF-WAY
RCP	PROPOSED STORM DRAIN W/SIZE AND TYPE
	PROPOSED CURB INLET OR JUNCTION BOX
	PROPOSED FLARED END SECTION
1360 / 1359	PROPOSED FINISHED GRADE CONTOUR
	PROPOSED SITE LIGHT
FFE 1357.84	FINISHED FLOOR ELEVATION
FG 1357.84	FINISHED GRADE
TS 1357.84	TOP SIDEWALK
EG 1353.9± MATCH EX	MATCH EXISTING GRADE
X	PROPOSED FENCE

	EX. BOUNDARY LINE
	EX. ADJACENT BOUNDARY LINE
	EX. RIGHT OF WAY LINE
	EX. EASEMENT LINE
	EX. ASPHALT
	EX. GRAVEL
G	EX. GAS LINE
OHE	EX. OVERHEAD ELECTRIC LINE
24"RCP	EX. STORM DRAIN PIPE
X	EX. FENCE LINE
	EX. DITCH LINE
	EX. TREE EDGE LINE
1360 / 1359	EX. CONTOURS
	SET 1/2" REBAR W/ PS# 1507 CAP
	SET MAG NAIL W/ PS# 1507 WASHER
	EX. REBAR
	EX. MONUMENT
T	EX. TELEPHONE PEDESTAL
FO	EX. FIBER OPTIC PEDESTAL
	EX. POWER POLE
	EX. POWER POLE W/ GUY WIRE
	EX. SIGN
V	EX. VAULT BOX
	EX. SATELLITE DISH
MB	EX. MAILBOX
(N87°47'01"W 1705.06')	RECORD BEARING & DISTANCE

PROPOSED WATER & SEWER		EXISTING WATER & SEWER	
8"W	PROPOSED PVC WATER LINE W/SIZE (AWWA C900, DR-18)	8"W	EX. WATER LINE
		8"SS>	EX. SANITARY SEWER LINE
w	PROPOSED 1" SERVICE LINE		EX. WATER METER
	PROPOSED DOUBLE 5/8" WATER METER SETTER		EX. FIRE HYDRANT
	PROPOSED GATE VALVE		EX. WATER VALVE
	PROPOSED WATER LINE TEE		EX. WATER SPIGOT
	PROPOSED WATER LINE BEND		
	PROPOSED SEWER MANHOLE		
s	PROPOSED 4" SAN. SEWER WYE & 4" PVC SERVICE LINE (SDR-26)		
G	PROPOSED GAS LINE		
FO	PROPOSED FIBER OPTIC LINE		
UG ELEC	PROPOSED UNDERGROUND ELECTRIC		

NOTE:

ALL CONSTRUCTION MATERIALS AND METHODS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE CITY OF CENTERTON'S SUBDIVISION REGULATIONS AND SPECIFICATIONS, LATEST EDITION, AND CENTERTON UTILITIES SPECIFICATIONS DATED 11/5/19.

GENERAL NOTES:

1. STORM SEWER DISTANCES AND INVERTS ARE MEASURED FROM CENTER OF INLETS AND END OF FLARED END SECTIONS.
2. CONTRACTOR SHALL PROVIDE ACCESS TO ALL EXISTING DRIVEWAYS, STREETS AND MAILBOXES DURING CONSTRUCTION.
3. WHERE APPLICABLE, UTILITY EASEMENTS TAKE PRECEDENCE OVER BUILDING SETBACKS.
4. THE CONTRACTOR SHALL BE SOLEY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING ALL PHASES OF CONSTRUCTION OF THIS SITE. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO CONSTRUCTION WORKING HOURS.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION PHASES OF THIS PROJECT.
6. THE CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES INVOLVED IN THE PROJECT AND PAY ALL REQUIRED FEES AND COSTS.
7. UNLESS OTHERWISE NOTED, ALL CURB SHALL BE 6" TYPE "A" CONCRETE CURB & GUTTER. REFER TO DETAIL SHEETS.
8. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF CENTERTON'S DEVELOPMENT REGULATIONS.
9. ALL SIGNS, PAVEMENT MARKINGS AND STRIPING SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND REGULATIONS.
10. ANY FENCES LOCATED INSIDE TEMPORARY CONSTRUCTION EASEMENTS THAT ARE DISTURBED DURING CONSTURCTION SHALL BE REPLACE.
11. THERE ARE NO KNOWN WETLANDS ON THIS SITE.

SITE UTILITY GENERAL NOTES:

1. EXISTING UTILITIES ACROSS OR ALONG THE LINE OF THE PROPOSED WORK ARE SHOWN ONLY IN AN APPROXIMATE LOCATION ON THESE PLANS. THE CONTRACTOR SHALL CALL THE STATE ONE-CALL SYSTEM PRIOR TO CONSTRUCTION @ 1-800-482-8998. THE CONTRACTOR SHALL, ON HIS OWN INITIATIVE AND AT NO ADDITIONAL COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. THE CONTRACTOR SHALL VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM MORRISON-SHIPLEY ENGINEERS, INC. AND/OR THE OWNER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLANS. MORRISON-SHIPLEY ENGINEERS, INC. SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
2. ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS AND REQUIREMENTS. ALL UTILITY COMPANY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANY. CONTRACTOR SHALL FURTHER COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICE WITH ADJACENT PROPERTY OWNERS.
3. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO SPECIFICALLY INDICATE WORK WHICH IS REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH.
4. ALL METER CANS AND OTHER APPURTENANCES MUST BE LEVEL WITH FINISHED GRADE.
5. ALL CONNECTIONS TO EXISTING WATER AND SANITARY SEWER MAINS SHALL BE OBSERVED BY CENTERTON UTILITIES.
6. CENTERTON UTILITIES SHALL INSPECT AND VERIFY ALL UTILITY TAPS.
7. ALL SANITARY SEWER AND WATER SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CENTERTON UTILITIES STANDARD SPECIFICATIONS, DATED NOVEMBER 5, 2019. WATER LINES SHALL HAVE A MINIMUM COVER OF 3'.

SITE GRADING AND DRAINAGE GENERAL NOTES:

1. NO LAND CLEARING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES AND TREE PROTECTION FENCING HAVE BEEN INSTALLED. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE. ALL EROSION CONTROL MEASURES AND TREE PROTECTION FENCING SHALL BE MAINTAINED UNTIL ALL CONTRIBUTING AREAS ARE GRADED AND STABILIZED.
2. ALL DISTURBED AREAS AND SLOPES SHALL BE GRADED SMOOTH, RECEIVE 4" TOPSOIL AND BE SEEDED OR SODDED.
3. ALL EXISTING UTILITY VAULTS, VALVES, METERS, AND BOXES TO BE ADJUSTED TO FINISHED GRADES IN ACCORDANCE WITH CITY OF CENTERTON REGULATIONS AND TO THE CORRESPONDING UTILITY COMPANY'S REQUIREMENTS.
4. NO FINISHED GRADE SLOPES SHALL EXCEED 4:1 EXCEPT IN POND AND DITCHES.
5. ALL PROPOSED SIDEWALKS, ACCESSIBLE RAMPS, AND DRAINAGE STRUCTURES IN THE STREET RIGHT-OF-WAY SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%.
6. ALL DISTURBED AREAS OUTSIDE THE BUILDING LOT AREA SHALL BE STABILIZED PRIOR TO FINAL INSPECTION AND ACCEPTANCE BY CITY.
7. ALL FIELD TEST REQUIRED FOR A PROJECT SHALL BE WITNESSED BY THE CITY.
8. ALL LOTS THAT RECEIVE FILL SHALL BE PLACED IN LIFTS AND COMPACTED. A GEOTECHNICAL ENGINEER WILL BE REQUIRED TO TEST THE DENSITY OF SAID FILL. THE CITY WILL REQUIRE A COPY OF THE REPORT PRIOR TO ISSUING THE PERMIT.
9. ALL SITE GRADING AND EARTHWORK SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY MTA ENGINEERS, INC.
10. CONTRACTOR SHALL REFER TO THE GRADING SECTION OF THE GEOTECHNICAL REPORT, REFERENCED ABOVE, WHEN PLACING STRUCTURAL FILL. IN PARTICULAR WHERE THERE IS CONSIDERABLE FILL WITHIN THE STREET RIGHT OF WAY AND WHERE AN EXISTING DRAINAGE DITCH CROSSES THE RIGHT OF WAY.
11. RETENTION POND SHALL BE SODDED FROM NORMAL WATER LEVEL TO FUTURE SIDEWALK.

NOTES AND LEGEND

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS A. BURRY
04/06/2026

ISSUED FOR REVIEW

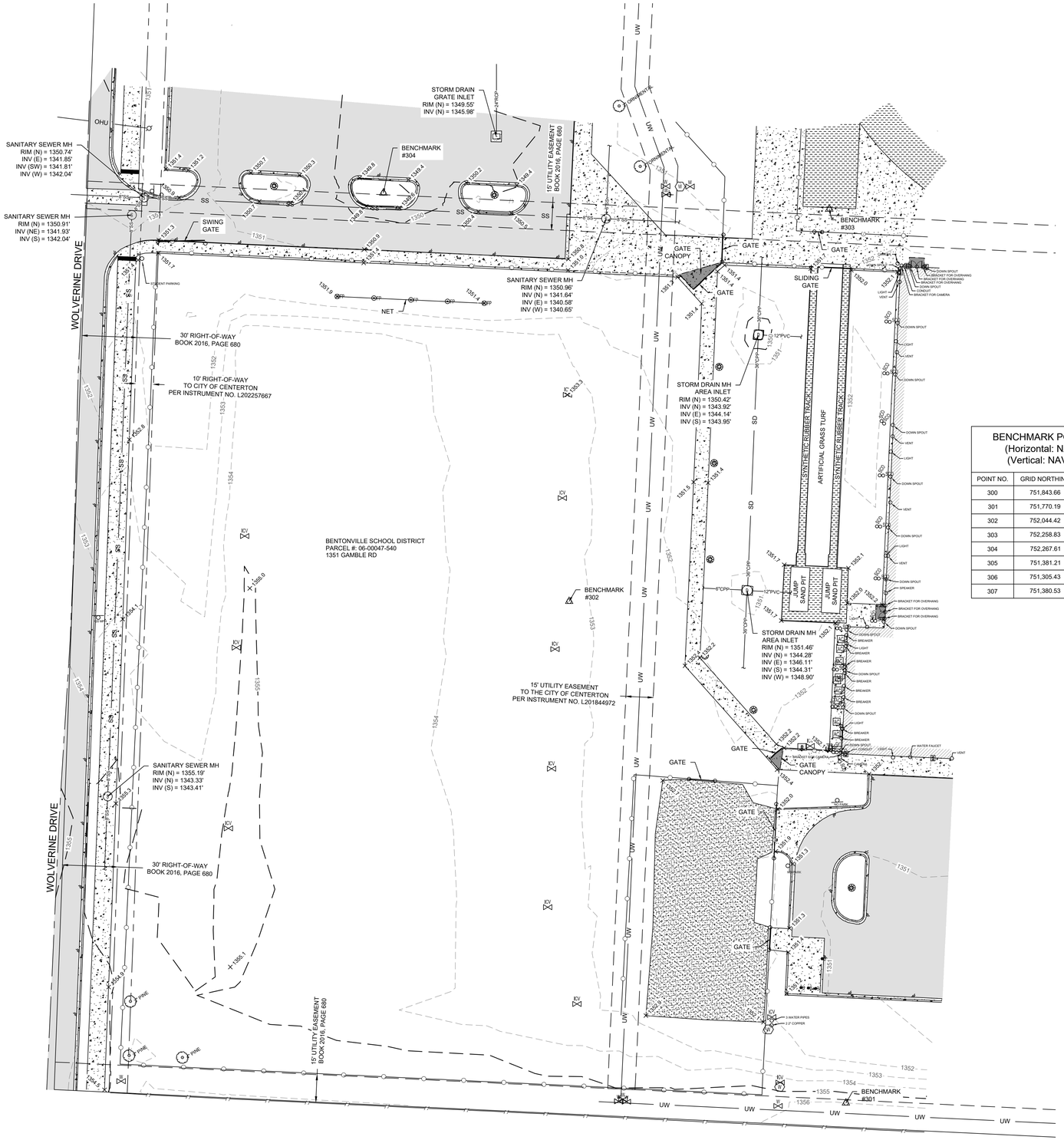
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

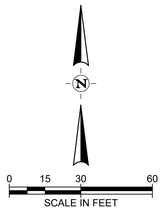
A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL
Bentonville Public Schools
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

SHEET G0.2

EXHIBIT "A"





BENCHMARK POINT TABLE (GRID COORDINATES)
(Horizontal: NAD83 based on GPS observations)
(Vertical: NAVD88 based on GPS observations)

POINT NO.	GRID NORTHING	GRID EASTING	ELEVATION	DESCRIPTION
300	751,843.66	635,392.02	1,353.44	5/8" SIR W/TP CAP
301	751,770.19	634,983.34	1,356.10	5/8" SIR W/TP CAP
302	752,044.42	634,832.13	1,353.09	5/8" SIR W/TP CAP
303	752,258.83	634,974.30	1,351.37	SET MAG NAIL TP
304	752,267.61	634,730.60	1,350.44	5/8" SIR W/TP CAP
305	751,381.21	636,397.86	1,355.30	5/8" SIR W/TP CAP
306	751,305.43	636,263.86	1,355.99	5/8" SIR W/TP CAP
307	751,380.53	636,163.86	1,356.53	5/8" SIR W/TP CAP

LEGEND:

- SECTION LINE
- QUARTER SECTION LINE
- SUBJECT BOUNDARY
- ADJACENT BOUNDARY LINE
- RIGHT-OF-WAY LINE
- ROAD CENTERLINE
- EASEMENT LINE
- MINOR CONTOUR LINE
- MAJOR CONTOUR LINE
- TREE LINE
- BASE FLOOD ELEVATION LINE
- OHU — OVERHEAD UTILITY LINE
- UE — UNDERGROUND ELECTRIC LINE
- UT — UNDERGROUND TELEPHONE LINE
- UC — UNDERGROUND COMMUNICATION LINE
- UFO — UNDERGROUND FIBER OPTIC LINE
- UCTV — UNDERGROUND CABLE TV LINE
- ROOF OVERHANG
- BARBED WIRE FENCE
- CHAINLINK FENCE
- HOGWIRE FENCE
- WOOD FENCE
- METAL FENCE
- UG — UNDERGROUND GAS LINE
- SS — UNDERGROUND SEWER LINE
- SD — UNDERGROUND STORM LINE
- FLOWLINE — FLOWLINE
- UW — UNDERGROUND WATER LINE
- EW — EDGE OF WATER
- DEDICATED BOUNDARY LINE
- DEDICATED RIGHT-OF-WAY LINE
- DEDICATED EASEMENT LINE

- BENCHMARK, AS NOTED
- (E) ELECTRIC RISER
- [E] ELECTRIC BOX
- (E) ELECTRIC METER
- TRANSFORMER
- LIGHT POLE
- POWER POLE
- GUY WIRE
- ELECTRIC OUTLET
- (TV) TELEVISION PEDESTAL
- [T] TELEPHONE UTILITY SIGN
- (T) TELEPHONE PEDESTAL
- (FO) FIBER OPTIC UTILITY SIGN
- (FO) FIBER OPTIC PEDESTAL
- [T] TELEPHONE VAULT
- [FO] FIBER OPTIC VAULT
- [C] COMMUNICATION VAULT
- (P) PROPANE TANK
- (G) NATURAL GAS SIGN
- (G) GAS METER
- GAS VALVE
- CONTROL POINT
- TREE
- (S) SANITARY SEWER MANHOLE
- SCO SANITARY SEWER CLEAN OUT
- (D) STORM DRAIN MANHOLE
- FLARED END SECTION

- (W) WATER SIGN
- WATER VALVE
- IRV IRRIGATION CONTROL VALVE
- (W) WATER METER
- FIRE HYDRANT
- WCO WATER CLEAN OUT
- WATER SPIGOT
- (FP) FLAG POLE
- ANTENNA TOWER
- BOLLARD
- SIGN
- [MB] MAILBOX
- [AC] AIR CONDITIONER
- [KP] KEY PAD
- 1351.4 SPOT ELEVATION
- FOUND RAILROAD SPIKE, AS NOTED
- FOUND REBAR, AS NOTED
- FOUND NAIL, AS NOTED
- FOUND MONUMENT, AS NOTED
- SET 5/8" REBAR W/ PS 1913 CAP
- SET MAG NAIL W/ PS 1913 WASHER
- FCP FENCE CORNER POST

PVC POLYVINYL CHLORIDE PIPE
RCP REINFORCED CONCRETE PIPE
CMP CORRUGATED METAL PIPE
CPP CORRUGATED PLASTIC PIPE
POC POINT OF COMMENCEMENT
POB POINT OF BEGINNING
FF FINISHED FLOOR

ASPHALT | CONCRETE | GRAVEL / DIRT | LANDSCAPE | BUILDING

RIP-RAP

BENTONVILLE WEST HIGH SCHOOL

1351 GAMBLE ROAD
SITUATED IN
SOUTHEAST QUARTER OF
SECTION 29, T-20-N, R-31-W
CENTERTON, BENTON COUNTY, ARKANSAS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS K. BURRY
04/06/2026

halff
2407 SE COTTONWOOD ST.
SUITE 1
BENTONVILLE, AR 72712
TEL: (479) 273-2209

REVISION NO.	DATE	DESCRIPTION

PRELIMINARY
FOR INTERIM REVIEW ONLY

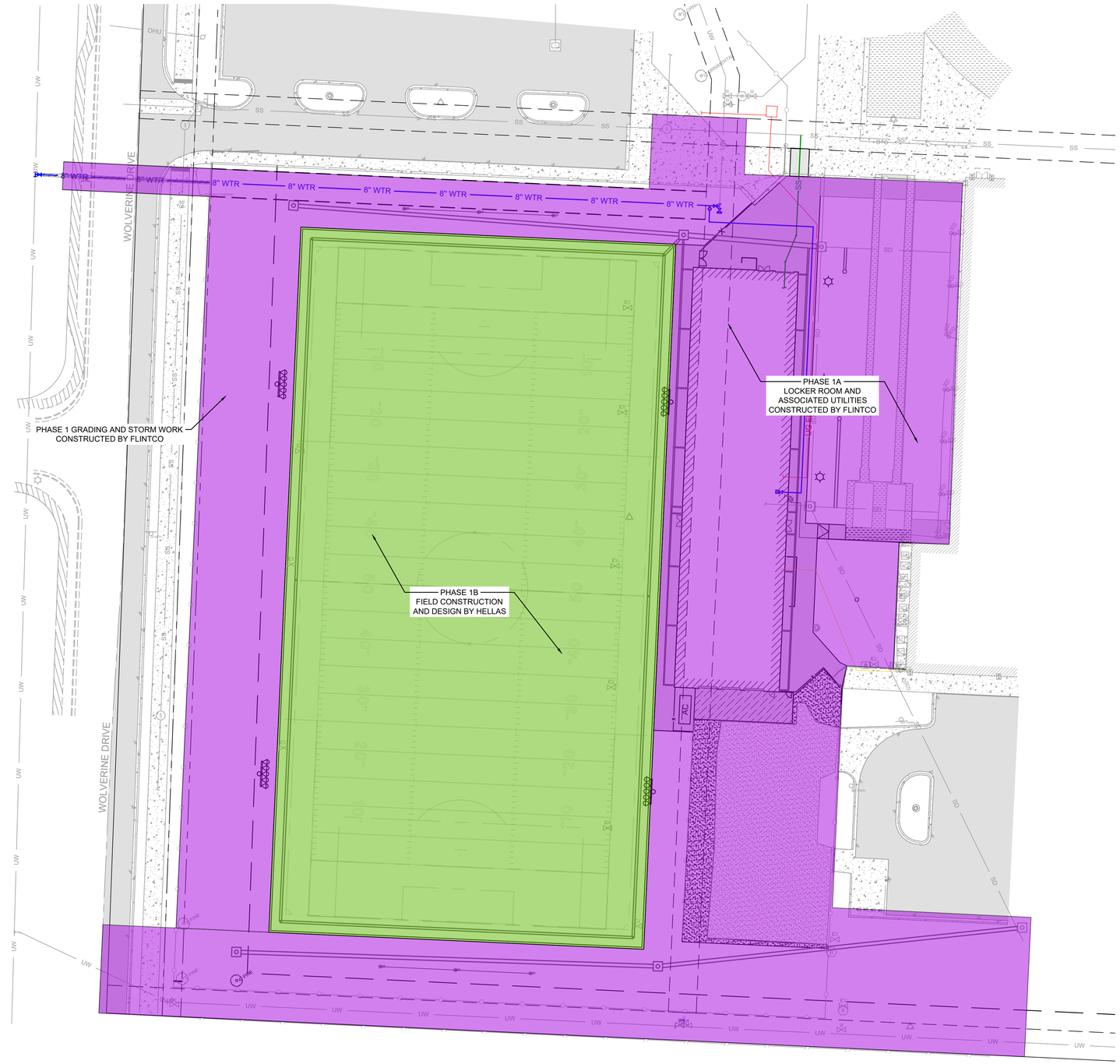
THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

NAME — LICENSE No.
NAME — XX LICENSE NO.
1/12/2026
DATE
XX — XX
FIRM / BUSINESS NO. — STATE

PROJECT NO.:	63371.001
ISSUED:	1/9/2026
DRAWN BY:	JDS
CHECKED BY:	JBB
SCALE:	1" = 30'

SHEET TITLE:
EXHIBIT

FILE NAME: A:\63000s\63371001\SURV\CADD\Sheets\V-EXHIBIT-63371.001.dwg DATE: January 12, 2026, TIME: 8:10 AM, USER: ahs174



0 15 30 60
SCALE IN FEET

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS K. BURRY

04/06/2026

ISSUED FOR REVIEW

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

Bentonville Public Schools

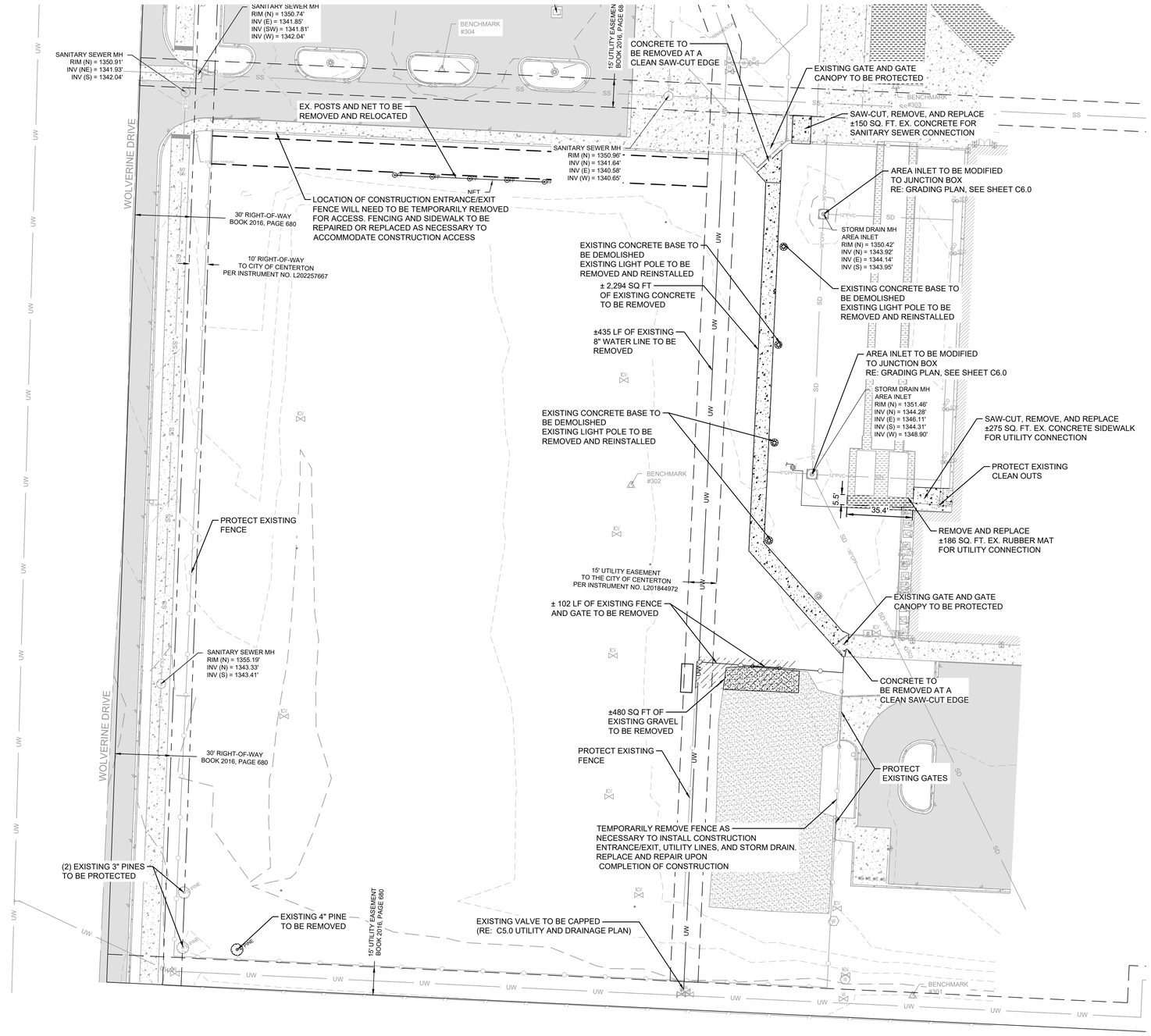
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

PHASING PLAN

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

SHEET C1.0



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS A. BURRY

04/06/2026

ISSUED FOR REVIEW

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 I Rogers, Arkansas 72758 I (479) 464-4965 I www.hjarch.com

A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

Bentonville Public Schools

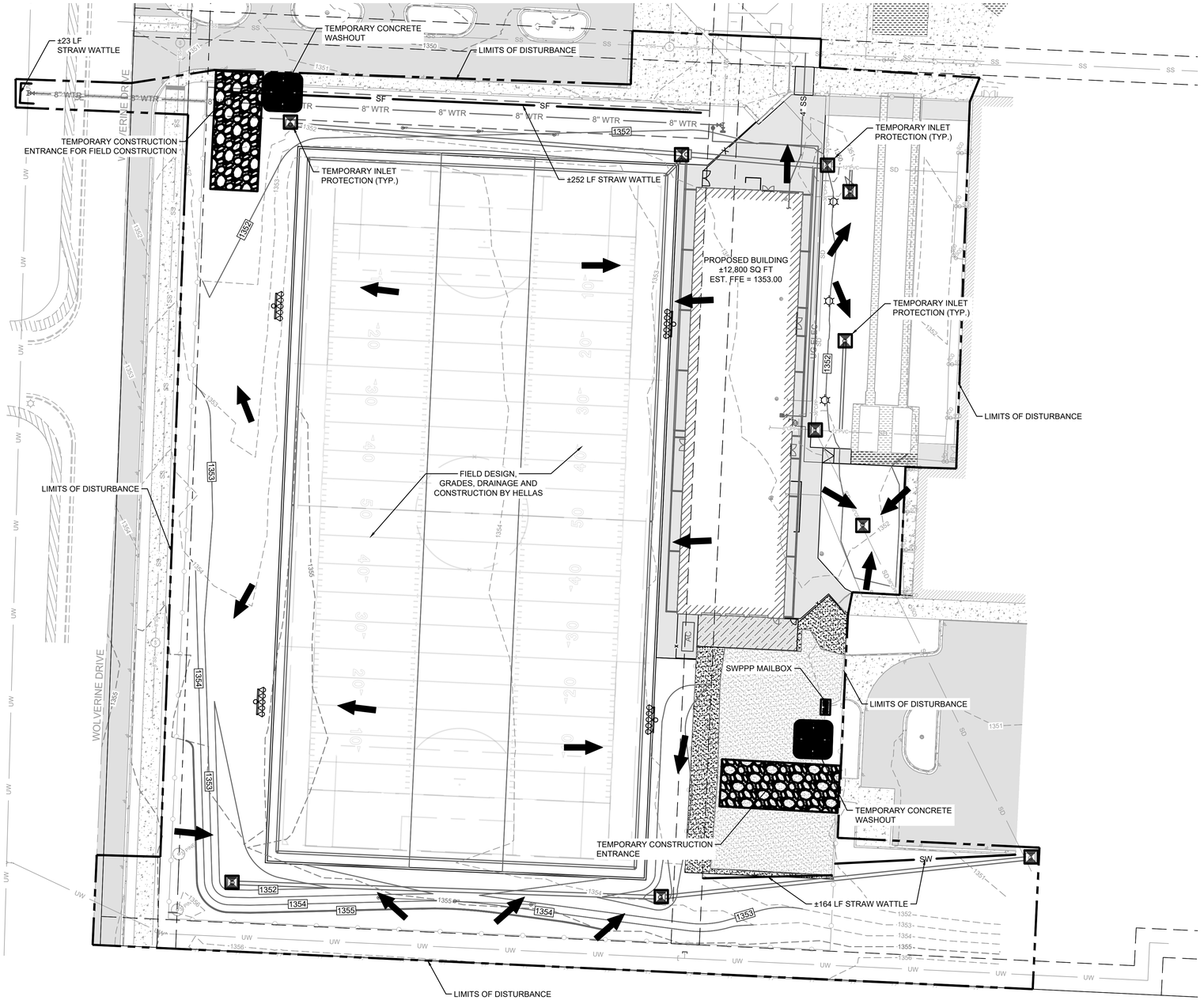
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

DEMOLITION PLAN

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

SHEET C2.0



NOTE:
1. REMOVE FENCE DURING CONSTRUCTION FOR ENTRANCE AND REPLACE WHEN CONSTRUCTION IS COMPLETE.

LIMITS OF DISTURBANCE: 4.5 ACRES

0 15 30 60
SCALE IN FEET

LEGEND

- SW — PROPOSED STRAW WATTLE
- LIMITS OF DISTURBANCE
- TEMPORARY CONSTRUCTION ENTRANCE
- INLET PROTECTION
- SMB — SWPPP MAILBOX
- FLOW ARROW
- CONCRETE WASHOUT

SITE EROSION CONTROL GENERAL NOTES:

1. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN TWENTY-ONE (21) DAYS. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS FOR THE SURFACE OF ALL PERIMETER SLOPES

2. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR EVERY 14 DAYS AND AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-QUARTER (0.25) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY.

3. PROVIDE TIRE WASH, SILT FENCE, INLET PROTECTION, AND/OR OTHER EROSION CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING ALL PHASES OF CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED OF DEBRIS, FINISH GRADED, AND STABILIZED WITH PERMANENT VEGETATION IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION.

4. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED UNTIL THE COMPLETION OF ALL PHASES OF CONSTRUCTION AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF-SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE PERMANENT VEGETATION IS ESTABLISHED.

5. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPE BEDS SHALL BE SODDED.

6. ANY TOPSOIL STOCKPILE SHALL BE GRADED TO DRAIN AND SEEDED WITH A TEMPORARY SEED MIX.

7. DUST CONTROL ON-SITE SHALL BE MINIMIZED BY SPRAYING WATER ON DRY AREAS OF THE SITE. THE USE OF OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.

8. IF THE MAJORITY OF MUD OR DIRT IS NOT REMOVED FROM TRAFFIC EXITS, CONTRACTOR SHALL ESTABLISH ADDITIONAL VEHICLE WASH AREAS AT CONSTRUCTION TRAFFIC EXIT POINTS. RINSE-OFF WILL NOT BE ALLOWED OUTSIDE THE PROJECT CONSTRUCTION LIMITS. ANY DIRT OR MUD TRACKED ONTO ADJACENT ROADWAY SHALL BE PICKED/SWEPT UP IMMEDIATELY.

9. ALL EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH GOVERNING AUTHORITIES AND MAINTAINED AS PART OF THIS CONTRACT. CONTRACTOR TO INSTALL EROSION CONTROL IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN AS A MINIMUM. OTHER MEASURES MAY BE REQUIRED TO ASSURE THAT SILT IS CONTROLLED ON-SITE.

SITE SODDING NOTE:

ALL DISTURBED AREAS TO BE SODDED SHALL BE TOPSOILED TO A MINIMUM DEPTH OF 4", FERTILIZED AT A RATE OF 250 POUNDS PER ACRE, AND SODDED WITH TURF-TYPE BERMUDA GRASS. IF LOCATED ON SLOPES 3:1 OR GREATER, THE CORNERS OF THE SOD MUST BE PINNED. THE CONTRACTOR SHALL WATER AND MAINTAIN THE GRASS UNTIL A HEALTHY PERMANENT STAND IS ESTABLISHED.

EROSION CONTROL PLAN

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS A. BURRY
04/06/2026

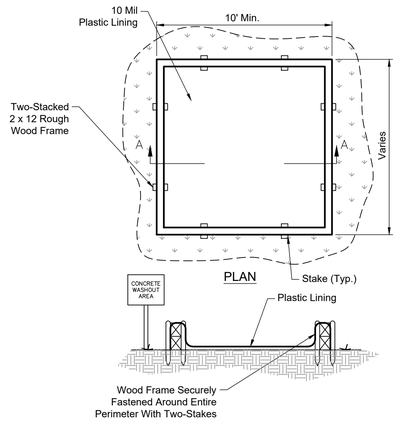
ISSUED FOR REVIEW

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL
Bentonville Public Schools
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

SHEET C3.0



SECTION "A-A"

NOTES:

1. Concrete Washout Area Shall be Installed Prior to Any Concrete Placement on Site.
2. Vehicle Tracking Control is Required at Concrete Washout Entrance if Access to Concrete Washout Area is Off Pavement.
3. The Concrete Washout Area Shall Be Repaired and/or Enlarged as Necessary to Maintain Capacity for Waste Concrete.
4. Waste Material From Concrete Washout Operations Must Be Removed and Legally Disposed of When it has Accumulated Two-Thirds of the Wet Storage Capacity of the Structure.
5. At the End of Construction, All Concrete Shall Be Removed From the Site and Legally Disposed of at an Approved Waste Site.
6. When the Concrete Washout Area is Removed, the Disturbed Area Shall Be Seeded and Mulched or Otherwise Stabilized.

CONCRETE WASHOUT AREA

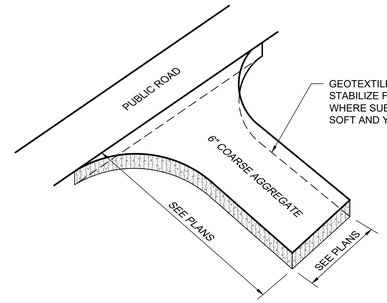
Not to Scale 4-21-10

SITE EROSION CONTROL GENERAL NOTES:

1. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN TWENTY-ONE (21) DAYS. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS FOR THE SURFACE OF ALL PERIMETER SLOPES
2. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR EVERY 14 DAYS AND AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-QUARTER (0.25) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY.
3. PROVIDE TIRE WASH, SILT FENCE, INLET PROTECTION, AND/OR OTHER EROSION CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING ALL PHASES OF CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED OF DEBRIS, FINISH GRADED, AND STABILIZED WITH PERMANENT VEGETATION IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION.
4. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED UNTIL THE COMPLETION OF ALL PHASES OF CONSTRUCTION AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/0R OFF-SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE PERMANENT VEGETATION IS ESTABLISHED.
5. ALL DISTURBED AREAS NOT TO BE PAVED OR LANDSCAPE BEDS SHALL BE SODDED.
6. ANY TOPSOIL STOCKPILE SHALL BE GRADED TO DRAIN AND SEEDED WITH A TEMPORARY SEED MIX.
7. DUST CONTROL ON-SITE SHALL BE MINIMIZED BY SPRAYING WATER ON DRY AREAS OF THE SITE. THE USE OF OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.
8. IF THE MAJORITY OF MUD OR DIRT IS NOT REMOVED FROM TRAFFIC EXITS, CONTRACTOR SHALL ESTABLISH ADDITIONAL VEHICLE WASH AREAS AT CONSTRUCTION TRAFFIC EXIT POINTS. RINSE-OFF WILL NOT BE ALLOWED OUTSIDE THE PROJECT CONSTRUCTION LIMITS. ANY DIRT OR MUD TRACKED ONTO ADJACENT ROADWAY SHALL BE PICKED/SWEPT UP IMMEDIATELY.
9. ALL EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH GOVERNING AUTHORITIES AND MAINTAINED AS PART OF THIS CONTRACT. CONTRACTOR TO INSTALL EROSION CONTROL IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN AS A MINIMUM. OTHER MEASURES MAY BE REQUIRED TO ASSURE THAT SILT IS CONTROLLED ON-SITE.

SITE SODDING NOTE:

ALL DISTURBED AREAS TO BE SODDED SHALL BE TOPSOILED TO A MINIMUM DEPTH OF 4", FERTILIZED AT A RATE OF 250 POUNDS PER ACRE, AND SODDED WITH TURF-TYPE BERMUDA GRASS. IF LOCATED ON SLOPES 3:1 OR GREATER, THE CORNERS OF THE SOD MUST BE PINNED. THE CONTRACTOR SHALL WATER AND MAINTAIN THE GRASS UNTIL A HEALTHY PERMANENT STAND IS ESTABLISHED.

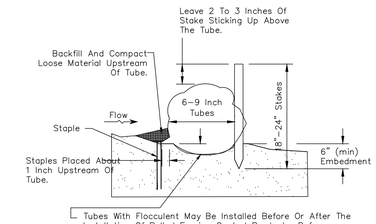


NOTES:

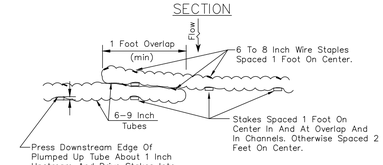
1. COARSE AGGREGATE SHALL BE 3" TO 6" CRUSHED STONE.
2. CLEAR THE ENTRANCE OR EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND EXCAVATE TO GRADE.
3. PLACE THE AGGREGATE TO THE GRADE AND DIMENSIONS SHOWN ON THE PLANS.
4. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

EC-30: TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE 4-3-2024



SECTION



PLAN

General Guidelines For Spacing Of Tube Trenches For Slope Installations	
Slope Gradient	Tube Interval
1H: 1V	15 Feet
2H: 1V	25 Feet
3H: 1V	35 Feet
4H: 1V	50 Feet

General Guidelines For Spacing Of Tube Trenches For Channel Installations	
Slope	Tube Interval
2%	25 Feet

Replace Tubes With Flocculent Per Manufacturer's Specifications.

FIBER WATTLE

N.T.S.

EROSION CONTROL DETAILS

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS K. BURRY
04/06/2026

ISSUED FOR REVIEW

HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

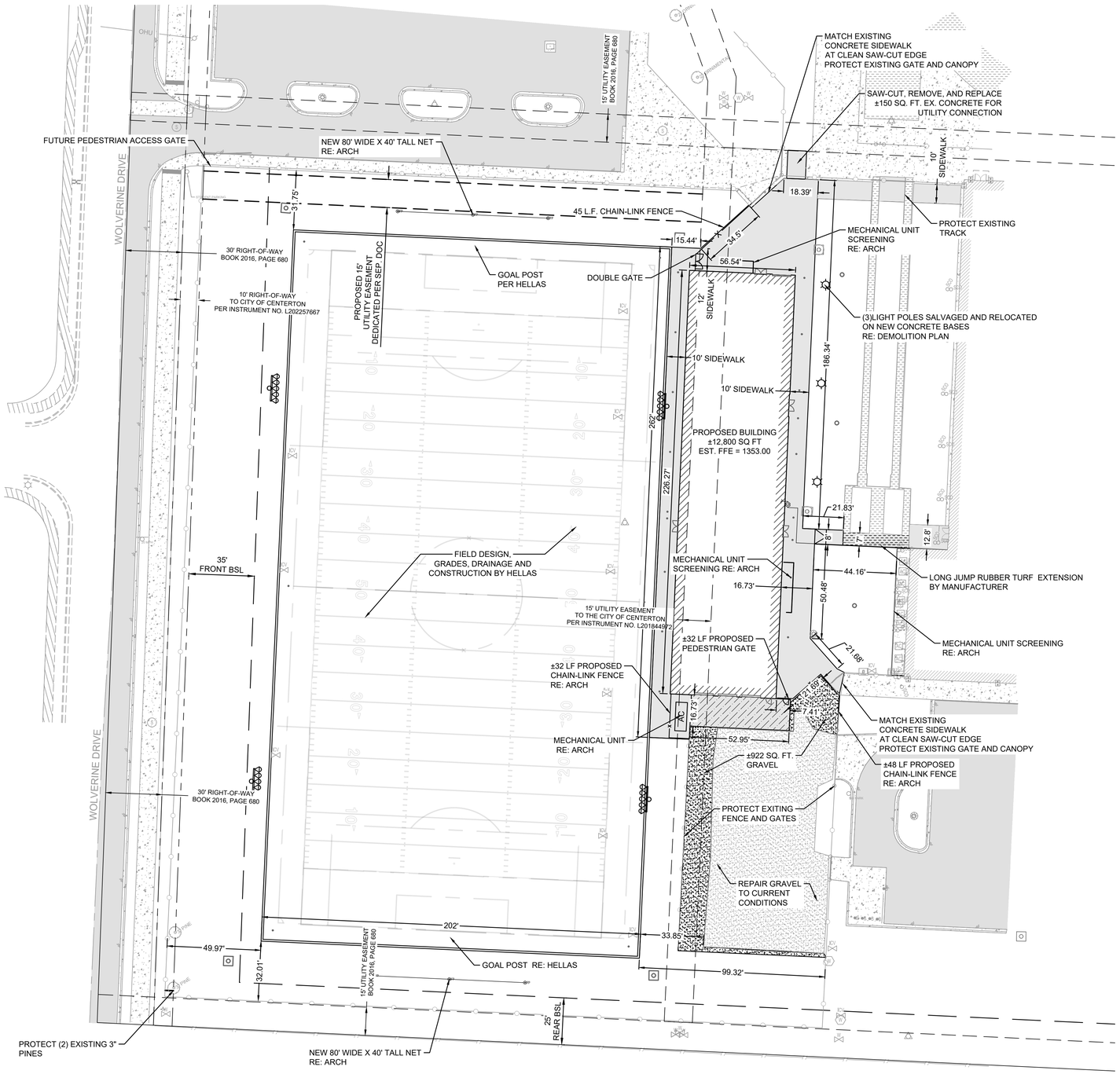
A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

Bentonville Public Schools

1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

SHEET C3.1



0 15 30 60
SCALE IN FEET

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS A. BURRY
04/06/2026

ISSUED FOR REVIEW

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

Bentonville Public Schools

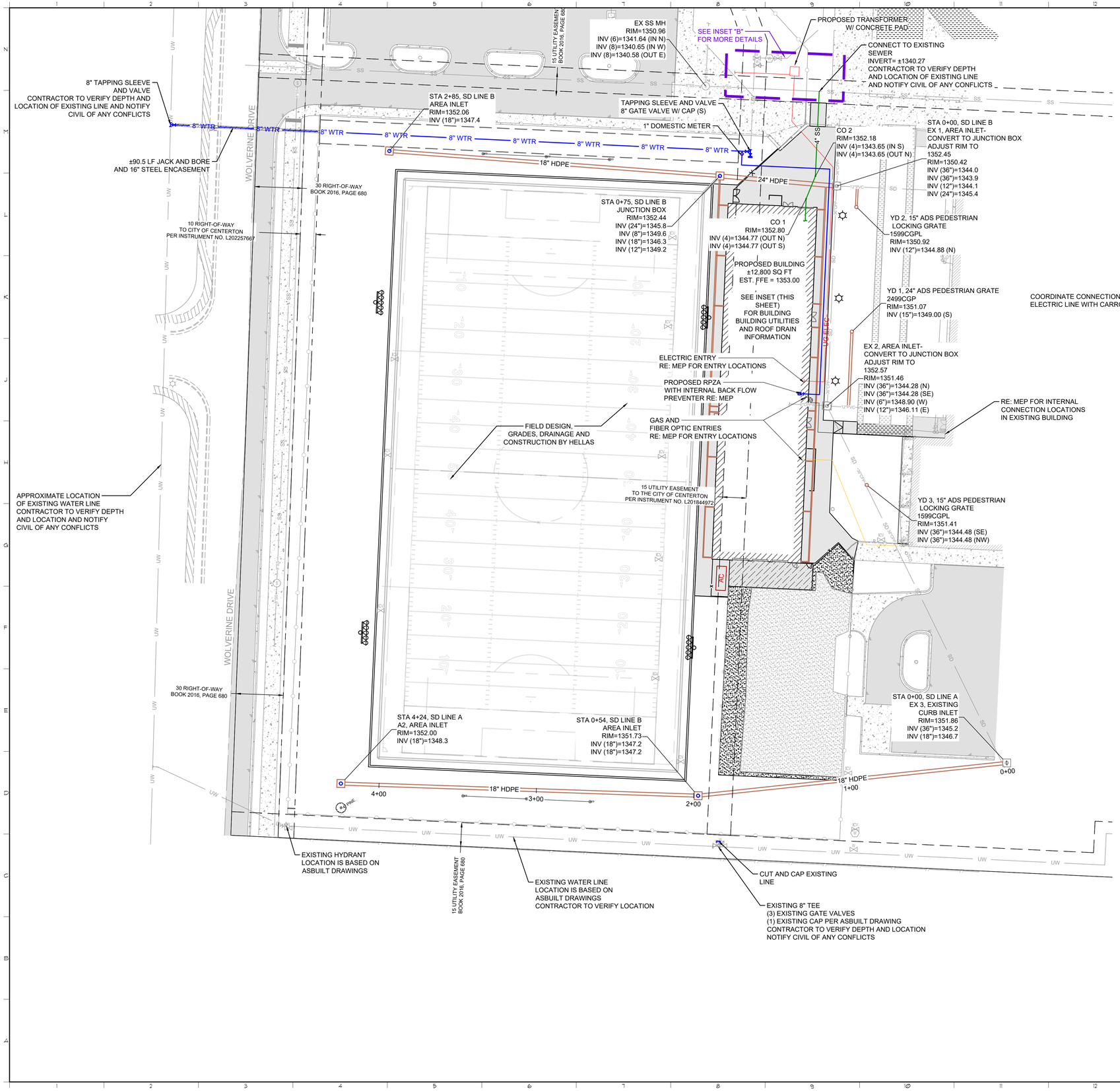
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

SITE PLAN

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

SHEET C4.0



UTILITY AND DRAINAGE PLAN

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS K. BURRY
04/06/2026

ISSUED FOR REVIEW

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 I Rogers, Arkansas 72758 I (479) 464-4965 I www.hjarch.com

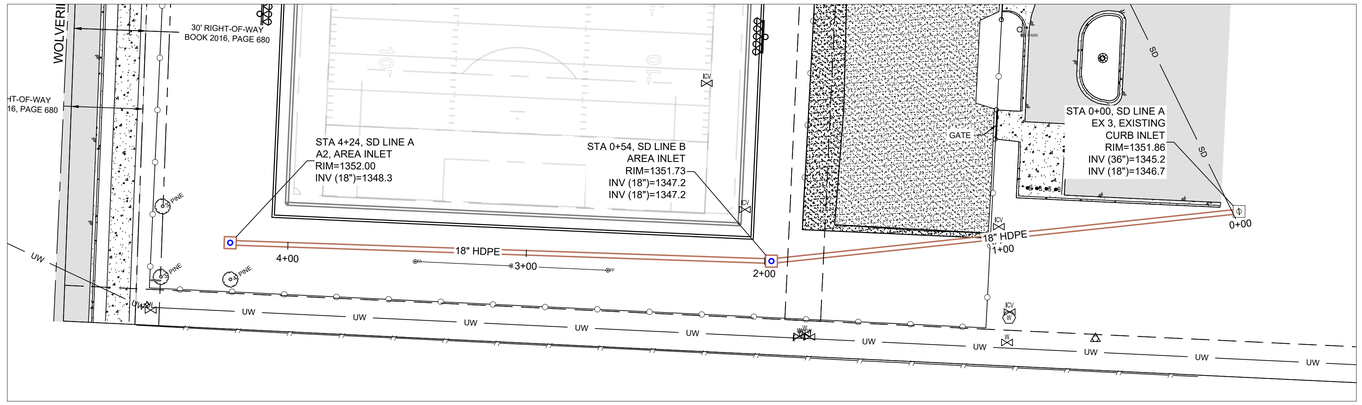
A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

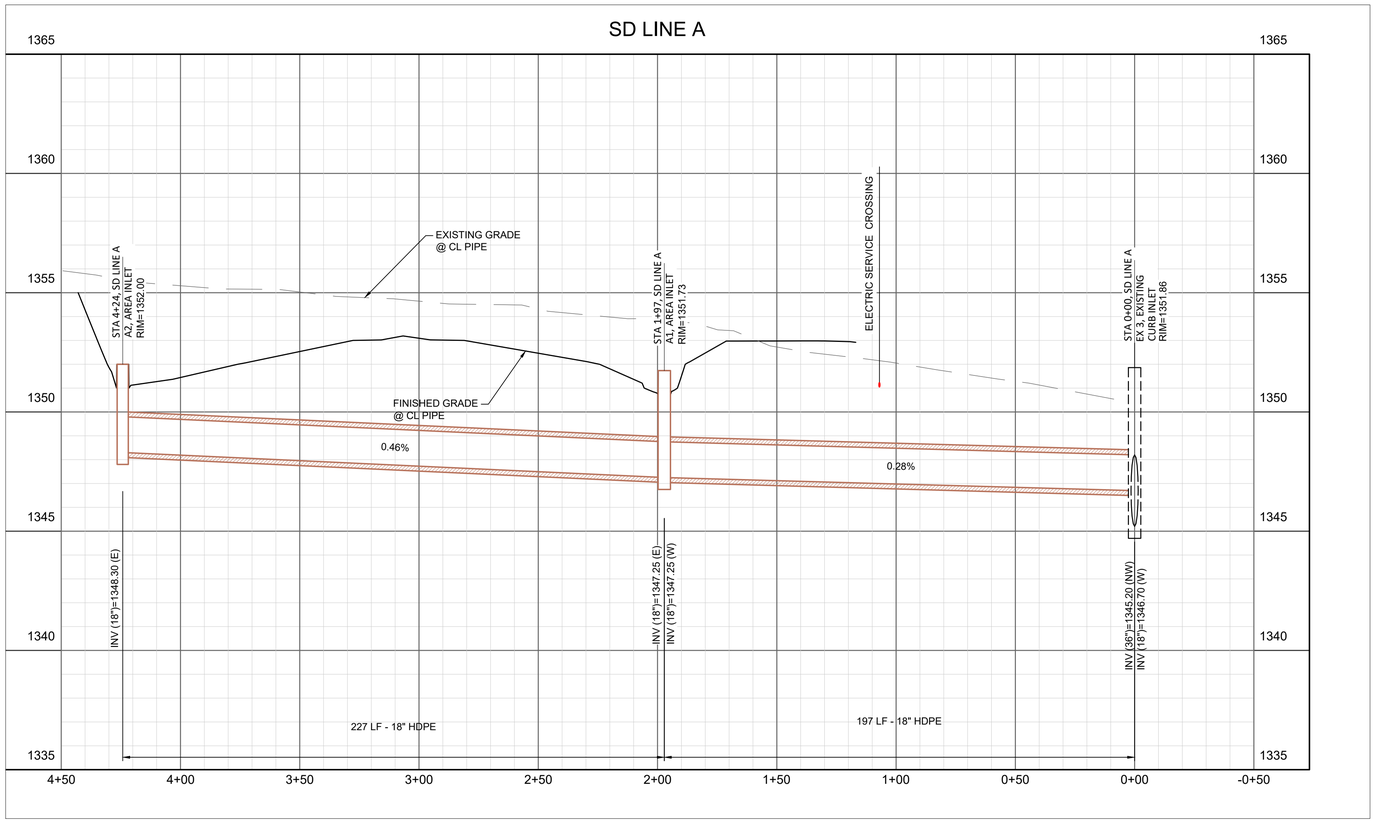
Bentonville Public Schools

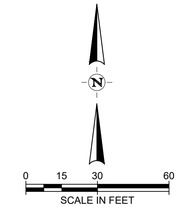
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

SHEET C5.0







STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS A. BURRY

04/06/2026

ISSUED FOR REVIEW

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

Bentonville Public Schools

1359 Gamble Road, Centerton, AR 72719

DRAWN BY:
KES

CHECK BY:
TAB

ISSUE DATE
04/06/2026

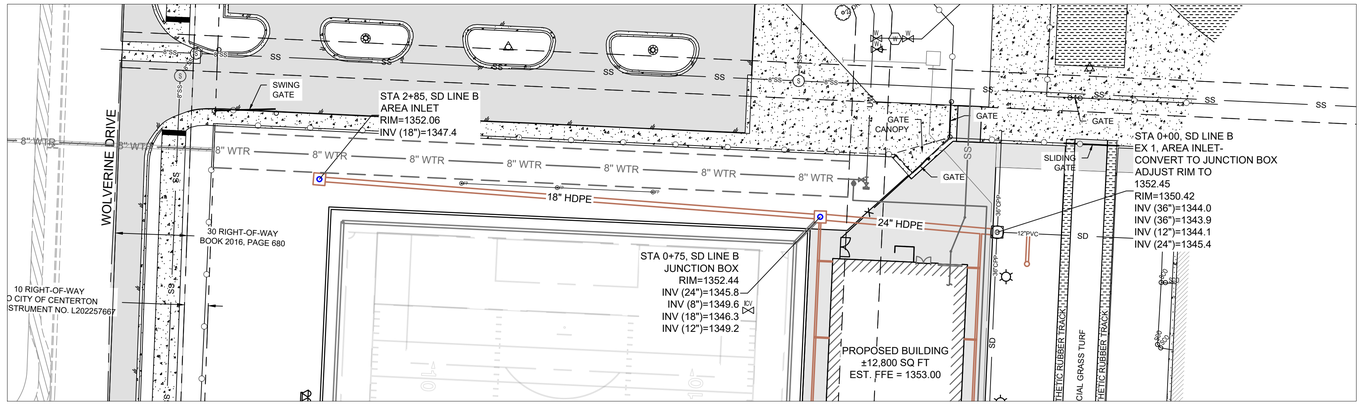
PROJECT NO.
0000

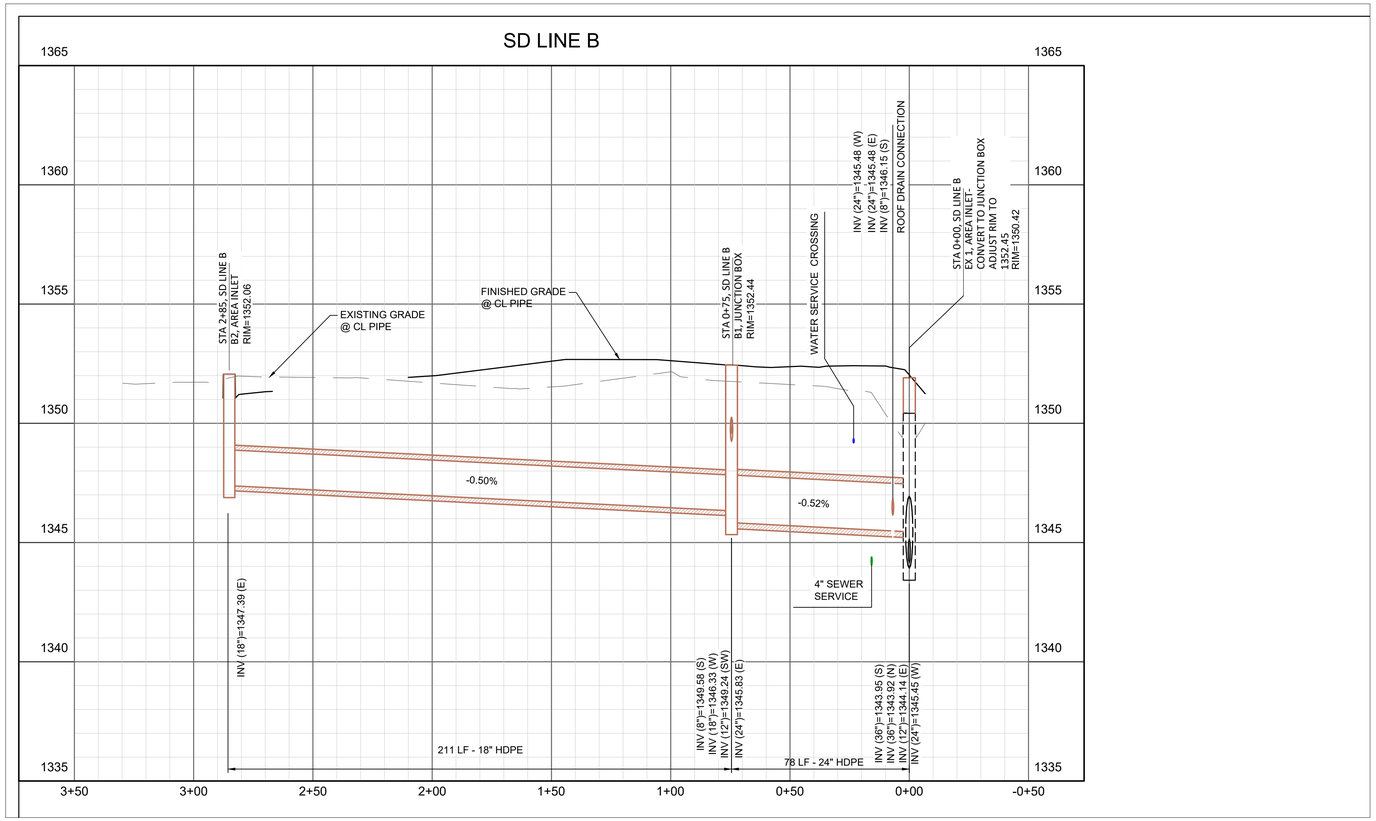
REVISION DATES

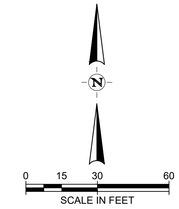
STORM DRAIN LINE A PLAN AND PROFILE

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

SHEET
C5.1







STORM DRAIN LINE B PLAN AND PROFILE

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS K. BURRY

04/06/2026

ISSUED FOR REVIEW

HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 I Rogers, Arkansas 72758 I (479) 464-4965 I www.hjarch.com

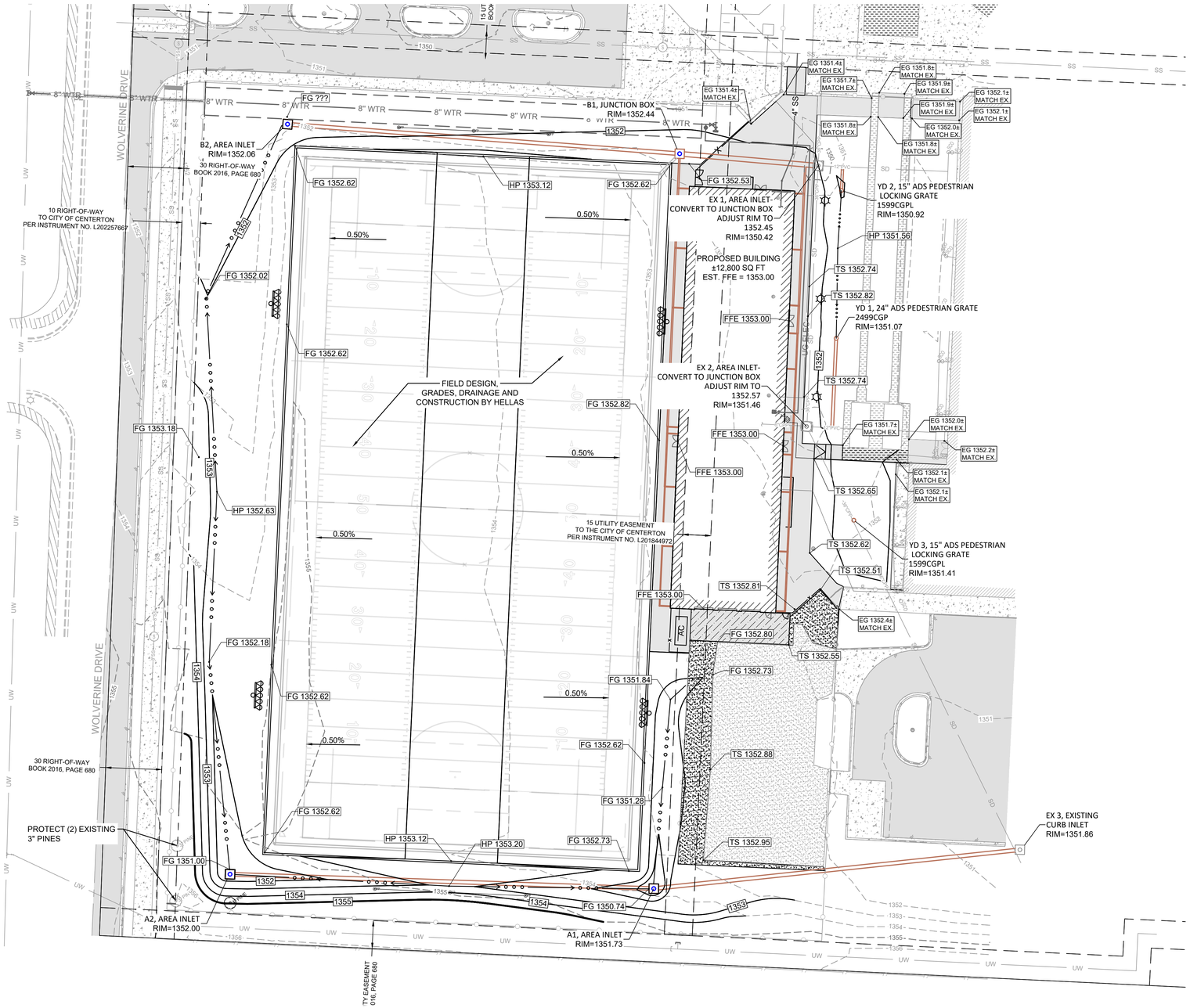
A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

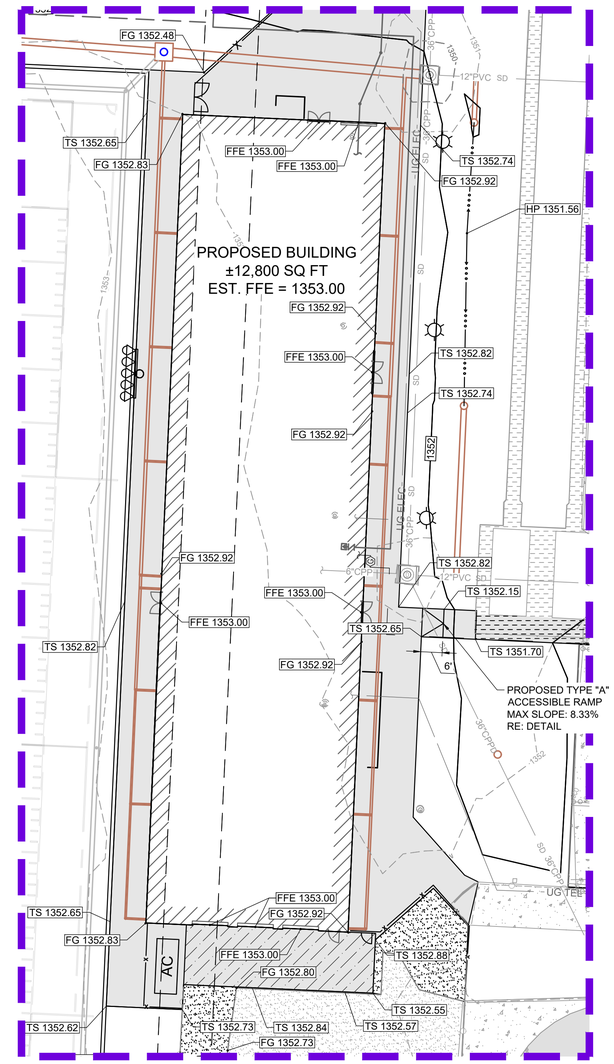
Bentonville Public Schools

1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

SHEET C5.2





INSET "C"
SCALE: 1"=20'

FIELDWORK BY HELLAS

0 15 30 60
SCALE IN FEET

GRADING PLAN

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS K. BURRY
04/06/2026

ISSUED FOR REVIEW

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

Bentonville Public Schools

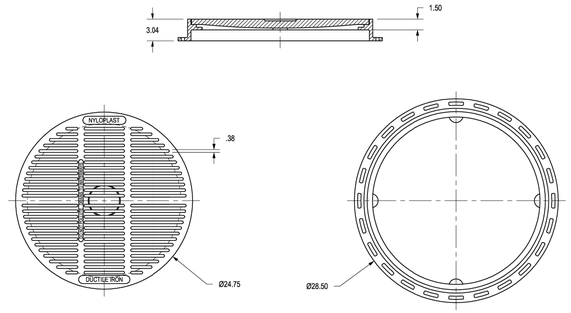
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

SHEET C6.0

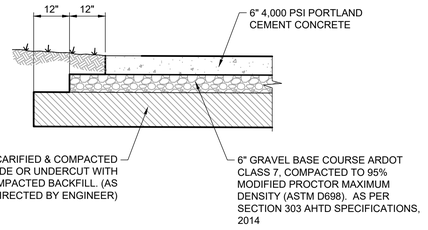
2499CGP

APPROX. DRAIN AREA = 164.10 SQ IN
APPROX. WEIGHT WITH FRAME = 99.50 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-10 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36.
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-023

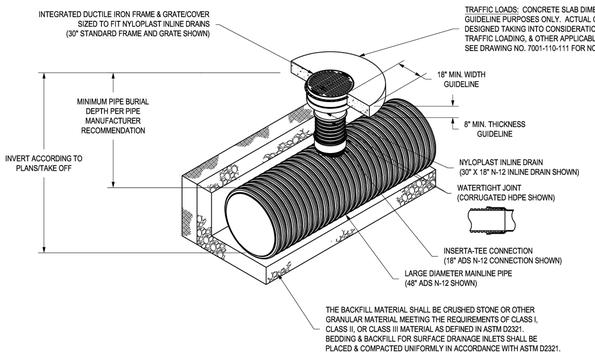
DRAWN BY EBC	MATERIAL	ADS Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 03-08-06	DUCTILE IRON		
REVISED BY CCA	PROJECT NO./NAME	TITLE	24 IN PEDESTRIAN GRATE ASSEMBLY - TYPE B
DATE 08-30-13			
DWG SIZE A	SCALE 1:10 SHEET 1 OF 1	DWG NO. 7001-110-216	REV D



PS-20: CONCRETE PARKING PAVEMENT SECTION

NOT TO SCALE 4-25-2024

NYLOPLAST INLINE DRAIN USING INSERTA-TEE TO CONNECT TO LARGE DIAMETER MAINLINE QUICK SPEC INSTALLATION DETAIL



1 - GRATES/COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO INLINE DRAINS SEE DRAWING NO. 7003-110-000 & 7003-110-001.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
4 - 12" - 30" STANDARD GRATES AND SOLID COVERS SHALL MEET H-20 LOAD RATING.
5 - 8" & 10" STANDARD GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

DRAWN BY NMH	MATERIAL	ADS Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 10-4-17			
APPD BY NMH	PROJECT NO./NAME	TITLE	INLINE DRAIN USING INSERTA-TEE TO CONNECT TO LARGE DIAMETER MAINLINE QUICK SPEC INSTALLATION DETAIL
DATE 10-4-17			
DWG SIZE A	SCALE 1:50 SHEET 1 OF 1	DWG NO. 7003-110-124	REV A

PLAN

NOTES:

1. CONCRETE REINFORCEMENT SHALL BE 6x6, W1.4xW1.4 WWF OR NO. 3 REBAR AT 24" O.C. EACH WAY PLACED AT MID-SLAB OR FIBER REINFORCEMENT.
2. TRANSVERSE CONTRACTION JOINTS SHALL BE 1/4" RADIUS TOOLED JOINTS ½" DEEP OR SAWED CONTRACTION JOINTS.
3. FULL DEPTH EXPANSION JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 25'-0" O.C., AND AT THE SIDEWALK INTERFACE WITH FIXED OBJECTS.

SECTION "A-A" SECTION "B-B"

PS 30: CONCRETE SIDEWALK

NOT TO SCALE 4-25-2024

ST-110: EXPANSION JOINT

8-14-2024

ST-60: CONTRACTION JOINT - PLAIN

NOT TO SCALE 8-9-2024

ST-120: CONCRETE JOINT SEALING

NOT TO SCALE 8-14-2024

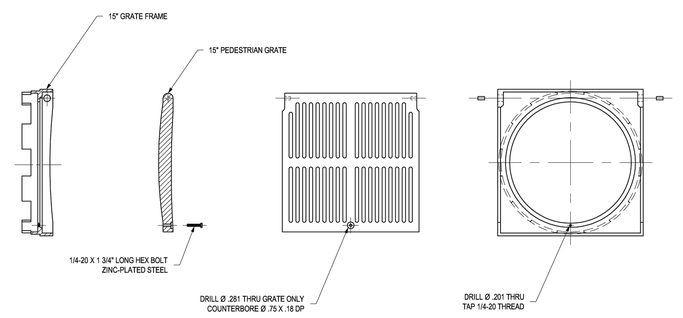
SECTION "B-B" SECTION "A-A"

PLAN @ ACCESSIBLE RAMP

TYPE "A" ACCESSIBLE SIDEWALK RAMP

NOT TO SCALE 4-25-2024

1599CGPL



NOTE: LOCATION OF LOCKING DEVICE MAY VARY

DRAWN BY AWA	MATERIAL	ADS Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 7-5-00			
REVISED BY EBC	PROJECT NO./NAME	TITLE	15 IN PEDESTRIAN LOCKING GRATE ASSEMBLY
DATE 2-20-10			
DWG SIZE A	SCALE 1:8 SHEET 1 OF 1	DWG NO. 7001-110-031	REV C

MISCELLANEOUS DETAILS

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS K. BURRY
04/06/2026

ISSUED FOR REVIEW

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 I Rogers, Arkansas 72758 I (479) 464-4965 I www.hjarch.com

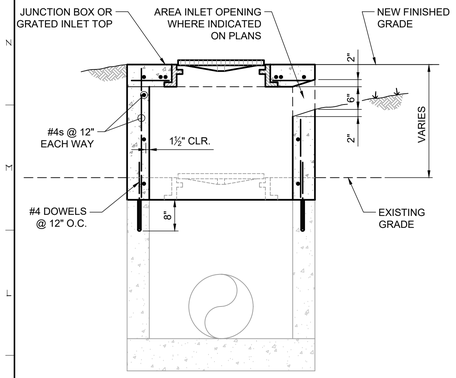
A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

Bentonville Public Schools

1359 Gamble Road, Centerton, AR 72719

DRAWN BY, KES
CHECK BY, TAB
ISSUE DATE 04/06/2026
PROJECT NO. 0000
REVISION DATES

SHEET C7.0

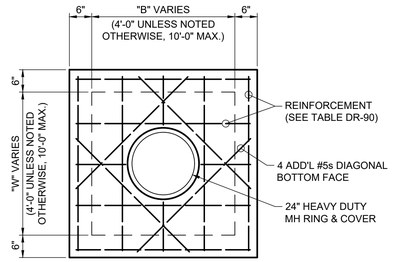


NOTES:

1. REMOVE EXISTING INLET OR BOX TOP BY CUTTING EXISTING WALLS AT THE BASE OF THE TOP.
2. TIE INTO EXISTING WALLS BY USING #4x18" DOWEL BARS @ 12" O.C.
3. REUSE EXISTING LID OR GRATE AND CAST INTO NEW TOP MATCHING NEW FINISHED GRADE ELEVATION.

DR-65: JUNCTION BOX OR GRATED INLET GRADE ADJUSTMENT - NOT IN PAVEMENT

NOT TO SCALE 3-11-2024

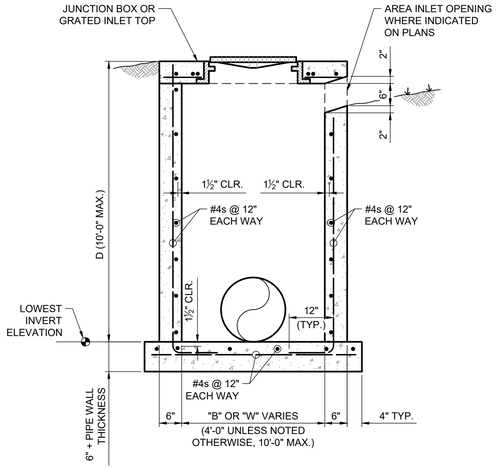


NOTES:

1. SEE PLANS FOR DIMENSIONS "B" AND "W" (NOTED B x W).
2. SEE TABLE FOR TOP THICKNESS AND REINFORCING.
3. EXPOSED EDGES SHALL HAVE $\frac{3}{4}$" CHAMFER.

DR-70: JUNCTION BOX TOP

NOT TO SCALE 3-11-2024

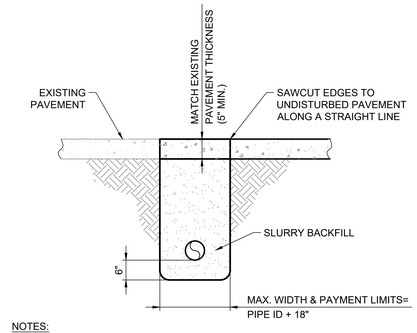


NOTES:

1. SEE PLANS FOR DIMENSIONS "B" AND "W" (NOTED B x W).
2. SEE DETAIL FOR WALL CORNER REINFORCEMENT.

DR-60: JUNCTION BOX or GRATED INLET NOT IN PAVEMENT

NOT TO SCALE 3-8-2024

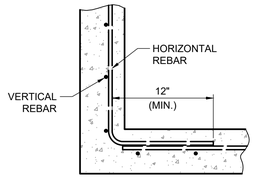


NOTES:

1. CONCRETE SURFACE REPAIR SHALL BE 3500 PSI, MEETING THE MATERIAL REQUIREMENTS OF THE SPECIFICATIONS FOR PORTLAND CEMENT CONCRETE PAVEMENT.
2. STREET CUTS SHALL BE COVERED WITH PROPERLY ANCHORED STEEL BRIDGE PLATES UNTIL THE FINAL SURFACE REPAIR IS MADE.
3. EXCAVATED TRENCH MATERIAL MAY NOT BE REUSED FOR EXCAVATION BACKFILL AND MUST BE REMOVED AND DISPOSED OFF SITE.
4. CONCRETE SHALL BE FINISHED TO CONFORM WITH THE SURROUNDING SURFACE.

ST-140(A): CONCRETE PAVEMENT REPAIR

NOT TO SCALE 8-14-2024

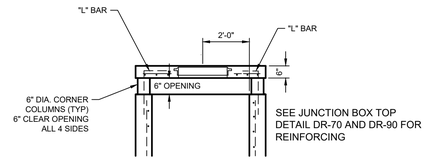


NOTE:

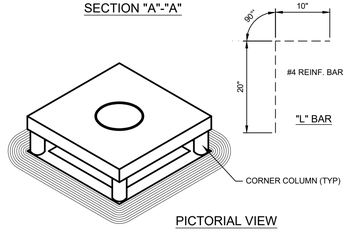
1. HORIZONTAL REBAR SHALL BE CONTINUOUS AROUND CORNERS OR LAPPED AS SHOWN

DR-100: PLAN - JUNCTION BOX, GRATED INLET OR CURB INLET WALL CORNER REINFORCING

NOT TO SCALE 3-11-2024



SECTION "A"-"A"



PICTORIAL VIEW

AREA INLET TOP DETAIL

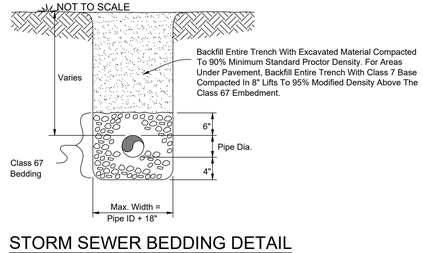
N.T.S

TOP REINFORCING FOR INLETS & JUNCTION BOXES FOR LOCATIONS SUBJECT TO TRAFFIC LOADING (HS-20)			
"B" or "W"	THICKNESS	SHORT SPAN REINFORCING	LONG SPAN REINFORCING
UP to 4'-0"	10"	#6 @ 5"	#4 @ 12"
4'-1" to 5'-0"	10"	#7 @ 5"	#4 @ 12"
5'-1" to 7'-0"	12"	#7 @ 5"	#4 @ 12"
7'-1" to 9'-0"	12"	#8 @ 5"	#4 @ 12"
9'1" to 10'-0"	13"	#8 @ 5"	#4 @ 12"

TOP REINFORCING FOR INLETS & JUNCTION BOXES FOR LOCATIONS NOT SUBJECT TO TRAFFIC LOADING			
MAX. SPAN "B" or "W"	THICKNESS	SHORT SPAN REINFORCING	LONG SPAN REINFORCING
UP to 7'-0"	6"	#4 @ 12"	#4 @ 12"
7'-1" to 8'-0"	6"	#4 @ 10"	#4 @ 12"
8'-1" to 9'-0"	6"	#4 @ 8"	#4 @ 12"
9'-1" to 10'-0"	6"	#4 @ 6"	#4 @ 12"

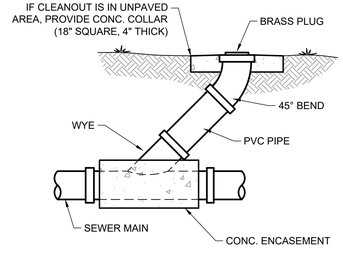
DR-90: JUNCTION BOX OR GRATED INLET TOP REINFORCING

NOT TO SCALE 3-11-2024



STORM SEWER BEDDING DETAIL

N.T.S



SS-60: SANITARY SEWER CLEANOUT

NOT TO SCALE 9-10-2024

MISCELLANEOUS DETAILS

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14691
THOMAS K. BURRY
04/06/2026

ISSUED FOR REVIEW

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

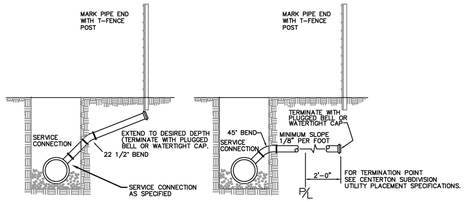
A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

Bentonville Public Schools

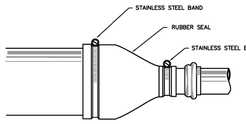
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES

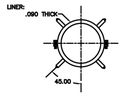
SHEET C7.1



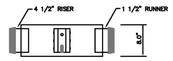
SERVICE CONNECTIONS



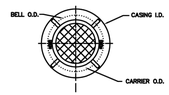
SLIP-ON END SEAL



TOP VIEW



CASING SPACER



ASSEMBLED VIEW

ENCASEMENT/ CARRIER PIPE SIZING DETAIL

SEWER MAIN
SDR 26

STEEL ENCASEMENT			STEEL ENCASEMENT		
NO.	O.D.	BELL O.D.	NO.	I.D.	O.D.
4	4.215	5.0	8	8.250	8.625
6	6.275	7.2	10	10.374	10.75
8	8.400	9.5	12	12.250	12.75
10	10.500	11.8	14	13.438	14.00
12	12.500	14.2	16	17.376	18.00
15	15.300	17.3	20	19.312	20.00

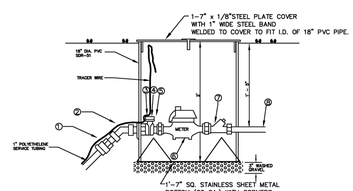
DUCTILE IRON			STEEL ENCASEMENT		
NO.	O.D.	BELL O.D.	NO.	I.D.	O.D.
4"	4.80	7.00	10	10.374	10.75
6	6.90	9.13	12	12.250	12.75
8	9.05	11.50	16	15.438	16.00
10	11.10	13.63	18	17.376	18.00
12	13.20	15.75	20	19.312	20.00
14	15.30	18.63	24	23.188	24.00
16	17.40	20.75	26	25.124	26.00
18	19.50	23.00	28	27.062	28.00
20	21.60	25.25	30	29.062	30.00
24	25.80	29.63	34	32.876	34.00

STANDARD DETAILS
CENTERTON UTILITIES
CENTERTON, ARKANSAS

REVISION	DATE	DESCRIPTION

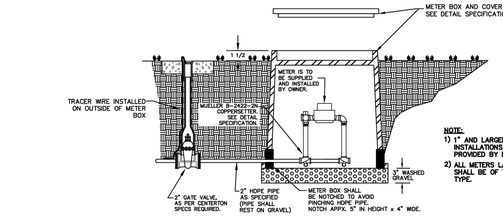
SCALE: NTS
DATE: SEPT. 2019
DRAWN: KES
CHECK: TAB
W.O. #

102



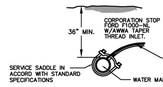
TYPICAL SINGLE & DOUBLE METER SERVICE 5/8" x 3/4"

NO.	COMPONENT	SINGLE SERVICE	DOUBLE SERVICE
1	COUPLING	FORD C86-34-NL	FORD C86-44-NL
2	BRASS FIP 45° BEND	3/4"	1"
3	ANGLE U-BRANCH		FORD UA41-43-65-NL
4	METER VALVE	FORD B43-333W-NL	
5	ANGLE METER VALVE		FORD BA13-333W-NL (2 REQUIRED)
6	METER	SUPPLIED BY OWSD	SUPPLIED BY OWSD (2 REQUIRED)
7	CHECK VALVE	FORD HS31-333-NL	FORD HS31-333-NL (2 REQUIRED)
8	BRASS NIPPLE	3/4" x 6"	3/4" x 6" (2 REQUIRED)

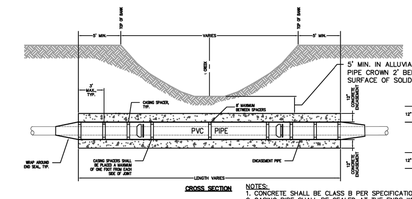


NOTE:
1) 1" AND LARGER METER SERVICE INSTALLATIONS SHALL BE PROVIDED BY DEVELOPER.
2) ALL METERS LARGER THAN 1" SHALL BE OF THE COMPOUND TYPE.

TYPICAL 2" SERVICE INSTALLATION
(FOR DESIGNATED AGRICULTURAL OR COMMERCIAL METER INSTALLATION)



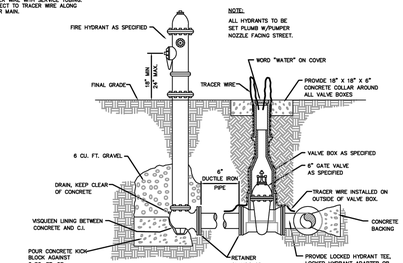
SERVICE TAP DETAIL



NOTE: WHEN CLASS 250 PVC CASING ALLOWED CASING PIPE DIAMETER TO BE SAME AS STEEL CASING FOR DIP CARRIER.

NOTES:
1. CONCRETE SHALL BE CLASS B PER SPECIFICATIONS.
2. CASING PIPE SHALL BE SEALED AT THE ENDS WITH A WRAP AROUND END SEAL (ADVANCED PRODUCT SYSTEM OR APPROVED EQUAL.)
3. CASING SPACERS AS SPECIFIED (MINIMUM OF 3 CASING SPACERS PER JOINT OF PIPE)
4. RESTRAINED JOINT PIPE REQUIRED INSIDE OF CASING PIPE FOR WATER MAINS AND SEWAGE FORCE MAINS.
5. ALL NON-METALLIC PRESSURE PIPE SHALL BE INSTALLED WITH 10-GAUGE TRACE WIRE.

STANDARD CONCRETE ENCASEMENT FOR STREAM CROSSING



3-WAY FIRE HYDRANT & GATE VALVE DETAILS

STANDARD DETAILS
CENTERTON UTILITIES
CENTERTON, ARKANSAS

REVISION	DATE	DESCRIPTION

SCALE: NTS
DATE: SEPT. 2019
DRAWN: KES
CHECK: TAB
W.O. #

103

ISSUED FOR REVIEW

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

Bentonville Public Schools

1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

CITY DETAILS

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

SHEET C7.2

ENCASEMENT/ CARRIER PIPE SIZING DETAIL

WATER MAIN

SDR 21 (CLASS 200) STEEL ENCASEMENT

NO.	O.D.	BELL O.D.	NO.	I.D.	O.D.
2	2.375	3.224	6	6.249	6.625
3	3.500	4.655	8	8.250	8.625
4	4.500	5.820	8	8.250	8.625
6	6.625	8.185	12	12.250	12.750
8	8.625	10.335	14	13.438	14.00
10	10.750	12.782	16	15.438	16.00
12	12.750	15.014	20	19.312	20.00

DUCTILE IRON STEEL ENCASEMENT

NO.	O.D.	BELL O.D.	NO.	I.D.	O.D.
4"	4.80	7.00	10	10.374	10.75
6	6.90	9.13	12	12.350	12.75
8	9.05	11.50	16	15.438	16.00
10	11.10	13.63	18	17.376	18.00
12	13.20	15.75	20	19.312	20.00
14	15.30	18.63	24	23.188	24.00
16	17.40	20.75	26	25.124	26.00
18	19.50	23.00	28	27.062	28.00
20	21.60	25.25	30	29.062	30.00
24	25.80	29.63	34	32.876	34.00

SDR 17 (CLASS 250) STEEL ENCASEMENT

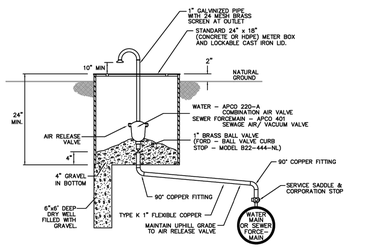
NO.	O.D.	BELL O.D.	NO.	I.D.	O.D.
2	2.375	3.278	6	6.249	6.625
3	3.500	4.733	8	8.250	8.625
4	4.500	5.922	10	10.374	10.750
6	6.625	8.291	12	12.350	13.750
8	8.625	10.479	14	13.438	14.00

C900 DR 14 (CLASS 305) STEEL ENCASEMENT

NO.	O.D.	BELL O.D.	NO.	O.D	WALL
4	4.80	6.46	10.374	10.750	.188
6	6.90	9.02	12.350	12.750	.250
8	9.05	11.04	15.438	16.00	.281
10	11.10	14.18	17.376	18.00	.312
12	13.20	16.81	19.312	20.00	.344

BELL O.D. PIPE I.D. PIPE O.D.

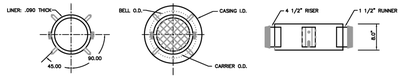
NOTE: WHEN CLASS 250 PVC CASING ALLOWED CASING PIPE DIAMETER TO BE SAME AS STEEL CASING FOR DIP CARRIER.



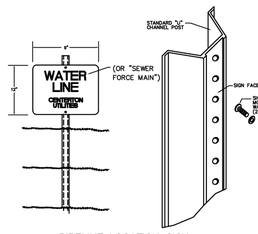
AIR RELEASE VALVE DETAIL

PLACE AIR RELEASE VALVES AT HIGH POINT NEAREST FENCES AND OUT OF YARDS AND OPEN FIELDS.

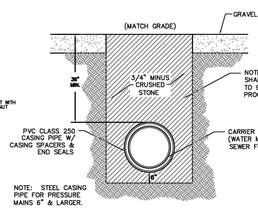
NOTE: ALL NON METALLIC PRESSURE PIPE SHALL BE INSTALLED WITH 10–GAUGE TRACE WIRE.



TOP VIEW ASSEMBLED VIEW CASING SPACER

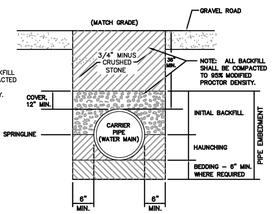


PIPELINE LOCATION SIGN



GRAVEL ROAD CROSSING DETAIL

(FOR PRESSURE PIPE)



GRAVEL DRIVEWAY CROSSING

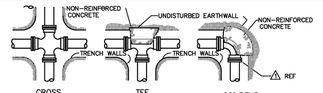
(FOR NON–PAVED DRIVEWAYS)

STANDARD DETAILS
CENTERTON UTILITIES
CENTERTON, ARKANSAS

REVISION	DATE	DESCRIPTION

SCALE: NTS
DATE: SEPT. 2019
DRWN:
CHKD:
W.O. #

104

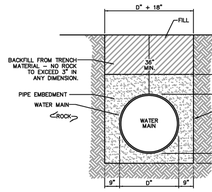


BLOCKING DETAILS

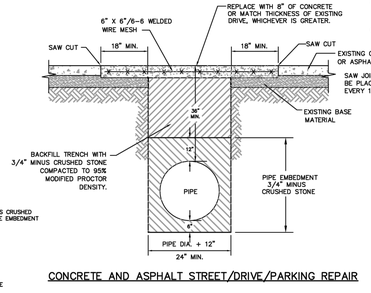
NOTES:

1. ALL FITTINGS SHALL BE MECHANICAL JOINTS.
2. DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
3. WRAP ALL FITTINGS WITH VISQUEEN.
4. BACK ALL TEES ACORDING TO SIZE OF BRANCH.
5. BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
6. ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL, SHALL BE BACKED.
7. REACTION BACKING TABLE IS BASED ON 150 PSI AND SOIL BEARING PRESSURE OF 2,500 LB./SQ. FT. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED BY THE ENGINEER.
8. ALL FITTINGS SHALL BE INSTALLED USING MEGA–LUGS OR A RESTRAINED FITTING.

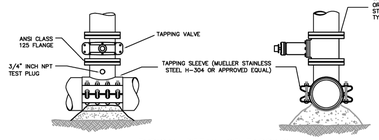
REACTION BACKING TABLE				
SIZE	REQUIRED SQ. FT. OF UNDISTURBED EARTHWALL FOR REACTION BACKING			
	TYPE OF FITTINGS			
	TEE	90°	45°	22 1/2°
2"	1	1	1	1
3"	1	1	1	1
4"	1	2	1	1
6"	3	3	2	1
8"	4	4	3	2
10"	7	7	4	2
12"	10	10	5	3
14"	13	13	7	4
16"	17	17	9	5
18"	21	21	11	6
20"	26	26	14	7
24"	38	38	20	10
30"	59	59	32	16
36"	85	85	46	23



TYPICAL ROCK EXCAVATION AND BEDDING FOR WATER MAIN



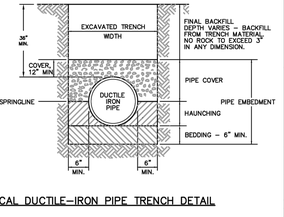
CONCRETE AND ASPHALT STREET/DRIVE/PARKING REPAIR



TYPICAL DETAIL OF TAPPING VALVE AND SLEEVE

BEDDING NOTES:

1) PIPE EMBEDMENT SHALL HAVE NO PARTICLE SIZE IN EXCESS OF 3/4 IN ANY DIMENSION.
2) FINAL BACKFILL SHALL HAVE NO PARTICLE SIZE IN EXCESS OF 3" IN ANY DIMENSION.
3) MINIMUM TRENCH WIDTH SHALL BE PIPE DIAMETER PLUS 12" MEASURED AT THE SPRINGLINE TO ENABLE BACKFILL MATERIAL TO BE INSTALLED IN THE HAUNCHING AREA. IN NO CASE SHALL THE TRENCH WIDTH BE LESS THAN 18" WIDE.
4) PIPING SHALL HAVE A MINIMUM COVER OF 36 INCHES OVER THE TOP OF THE PIPE.
5) MATERIAL EXCAVATED FROM TRENCH CAN BE USED FOR PIPE EMBEDMENT IF MECHANICAL SCREENING PROCESSING YIELDS ACCEPTABLE GRADATION. MUST BE APPROVED BY OWNER/OWNERS REPRESENTATIVE.
6) ALL NON–METALLIC PRESSURE PIPE SHALL BE INSTALLED WITH 10–GAUGE TRACE WIRE.



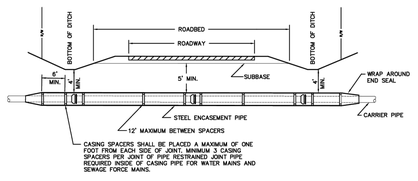
TYPICAL DUCTILE–IRON PIPE TRENCH DETAIL

STANDARD DETAILS
CENTERTON UTILITIES
CENTERTON, ARKANSAS

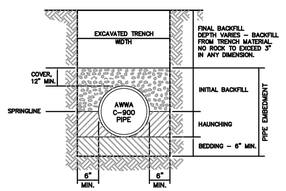
REVISION	DATE	DESCRIPTION

SCALE: NTS
DATE: SEPT. 2019
DRWN:
CHKD:
W.O. #

105



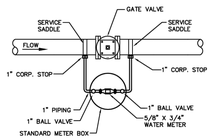
TYPICAL ENCASED HIGHWAY/PAVED ROAD CROSSING



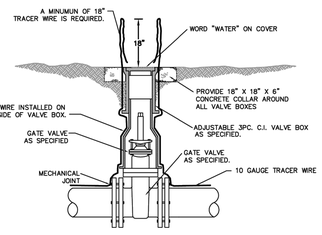
TYPICAL PVC BEDDING DETAIL

NOTES:

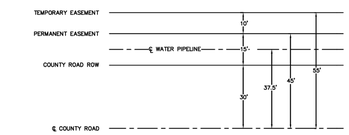
1) PIPE EMBEDMENT SHALL BE 3/4" MINUS CRUSHED STONE.
2) FINAL BACKFILL SHALL HAVE NO PARTICLE SIZE IN EXCESS OF 3" IN ANY DIMENSION.
3) HAULED IN BEDDING MATERIAL MAY BE REQUIRED TO MEET THE REQUIREMENT FOR EMBEDMENT AS DESCRIBED ABOVE. THE CONTRACTOR SHALL FURNISH AND INSTALL SUITABLE MATERIAL.
4) MINIMUM TRENCH WIDTH SHALL BE PIPE DIAMETER PLUS 12" MEASURED AT THE SPRINGLINE TO ENABLE BACKFILL MATERIAL TO BE INSTALLED IN THE HAUNCHING AREA. IN NO CASE SHALL THE TRENCH WIDTH BE LESS THAN 18" WIDE.
5) MATERIAL EXCAVATED FROM TRENCH CAN BE USED FOR PIPE EMBEDMENT IF MECHANICAL SCREENING PROCESSING YIELDS ACCEPTABLE GRADATION. MUST BE APPROVED BY OWNER/OWNERS REPRESENTATIVE.
6) ALL NON–METALLIC PRESSURE PIPE SHALL BE INSTALLED WITH 10–GAUGE TRACE WIRE.



LEAK DETECTION METER DETAIL PLAN VIEW



TYPICAL GATE VALVE AND VALVE BOX INSTALLATION DETAIL



TYPICAL EASEMENT AND PIPELINE LOCATION DETAIL FOR COUNTY ROADS (NOT SUBDIVISION)

STANDARD DETAILS
CENTERTON UTILITIES
CENTERTON, ARKANSAS

REVISION	DATE	DESCRIPTION

SCALE: NTS
DATE: SEPT. 2019
DRWN:
CHKD:
W.O. #

106

ISSUED FOR REVIEW

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 Rogers, Arkansas 72758 t (479) 464-4965 t www.hjarch.com

A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

Bentonville Public Schools

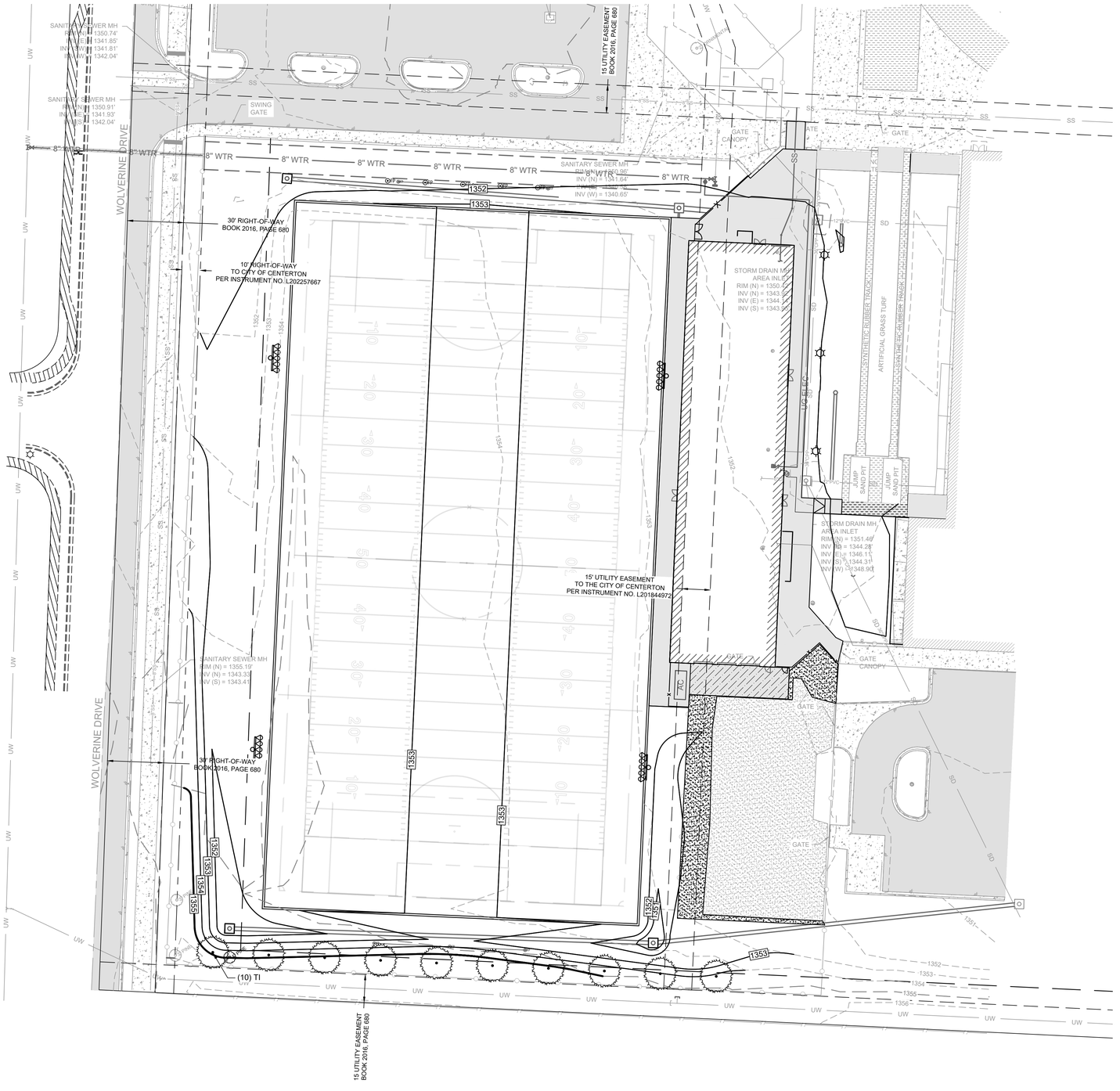
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

CITY DETAILS

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

SHEET C7.3



LANDSCAPE REQUIREMENT CALCULATIONS

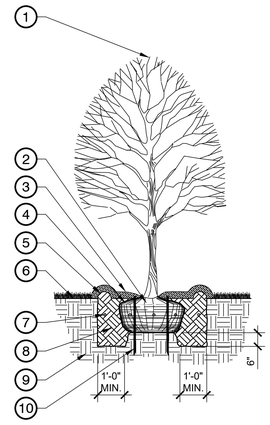
1. LANDSCAPE SCREENING:
   TYPE C SCREENING: 20' MINIMUM HEIGHT
   10 TREES PROVIDED

0 15 30 60
SCALE IN FEET

PLANT SCHEDULE					
SYMBOL	QTY	COMMON / BOTANICAL NAME	CAL	INSTALL HT	MATURE HT
TREES					
	10	GREEN GIANT ARBORVITAE / THUJA X 'GREEN GIANT'	B&B	8'	30'-50'

LANDSCAPE PLAN GENERAL NOTES:

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND RELATED ITEMS REQUIRED FOR THE COMPLETE INSTALLATION OF LANDSCAPE.
2. ALL PLANT MATERIAL SHALL BE NURSERY GROWN. PLANT MATERIAL GRADING SHALL COMPLY WITH THE LATEST EDITION OF AMERICAN STANDARDS FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
3. ALL PLANT MATERIAL SHALL BE HEALTHY AND FREE FROM ALL VISIBLE SIGNS OF DISEASE OR PEST INFESTATION.
4. CONTRACTOR SHALL ASCERTAIN LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. PRIOR TO COMMENCING WITH ANY WORK, CONTACT THE STATE ONE-CALL.
5. THE CONTRACTOR SHALL PROVIDE A ONE YEAR MINIMUM WARRANTY OR A LETTER OF CREDIT POSTED FOR ALL PROPOSED PLANT MATERIALS AND INSTALLATION FROM THE DATE OF ACCEPTANCE.
6. THE CONTRACTOR SHALL SPOIL ANY EXCESS TOPSOIL LOCATED ON THE SITE THAT IS NOT REQUIRED TO PERFORM LANDSCAPE OPERATIONS. IF SUFFICIENT TOPSOIL IS NOT PRESENT ON SITE, THE CONTRACTOR SHALL IMPORT TOPSOIL TO THE SITE IN ORDER TO COMPLETE THE LANDSCAPE OPERATIONS. THE CONTRACTOR SHALL PERFORM A SOIL TEST ON THE EXISTING AND IMPORTED TOPSOIL AND APPLY LIME AND FERTILIZER AS RECOMMENDED BY THE TESTING AGENCY.
7. IRRIGATION SYSTEM SHALL BE DESIGNED BY CONTRACTOR.
8. THE IRRIGATION SYSTEMS SHALL BE PROTECTED BY AN RP TYPE BACKFLOW PREVENTOR.
9. BACKFLOW PREVENTION ASSEMBLIES INSTALLED OUTDOOR SHALL BE PROTECTED BY AN ENCLOSURE WHICH COMPLIES WITH THE STANDARDS AND SPECIFICATIONS SET FORTH BY THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) CODE 1060.
10. ALL LANDSCAPED AREAS SHALL BE IRRIGATED.
11. IRRIGATION HEADS SHALL NOT BE INSTALLED ALONG BACK OF CURB ON THE TURNING RADIUS OF ENTRANCES. HEADS SHOULD BE INSTALLED INTERIOR AND SPRAY TOWARD THE CURB, ADJUSTED TO THE PROPER SPRAY DISTANCE FOR FULL COVERAGE.
12. ALL HEADS SHALL HAVE A 2' SWING PIPE OR FLEX PIPE CONNECTION.
13. GENERAL CONTRACTOR SHALL BE SUPPLIED AN IRRIGATION AS-BUILT SHOWING LOCATION OF MAIN LINES, HEADS ND ZONE IDENTIFICATION. GENERAL CONTRACTOR SHALL PROVIDE TO CLIENT WITH AS-BUILT/CLOSEOUT DOCUMENTS.
14. SUPPLY AND INSTALL A WIRED RAIN SENSOR AND PROGRAM TO AUTOMATICALLY DELAY FOR RAIN EVENTS.



KEY:

1. NEVER CUT CENTRAL LEADER OF TREE.
2. SET TOP OF ROOT BALL 2" ABOVE FINISH GRADE.
3. PROVIDE 3" MIN. SHREDDED HARDWOOD MULCH FOR ENTIRE BASIN. PULL MULCH BACK MIN. 2" FROM BASE OF TRUNK.
4. FOR BALL & BURLAP, REMOVE WIRE / TWINE FROM AROUND BURLAP, FOLD TOP THIRD OF BURLAP DOWN OR CUT / REMOVE PRIOR TO BACKFILL.
5. BUILD 3" HT. SAUCER RING AROUND PLANTING PIT WITH TOPSOIL.
6. FINISHED GRADE.
7. AGRIFORM TABLETS AS PER MANUFACTURER'S INSTRUCTIONS.
8. PREPARED SOIL MIX - HOMOGENOUS MIXTURE OF 3:1:1 RATIO TOPSOIL TO PEATMOSS AND/OR OTHER APPROVED SOIL AMENDMENTS. WATER AND TAMP TO REMOVE SIDE AND BOTTOM AIR POCKETS 6" MIN.
9. UNCOMPACTED NATIVE SOIL / UNDISTURBED SUBGRADE.
10. MIN. (3) ARBOR STAKES. INSTALL PER MANUFACTURE'S SPECIFICATIONS.

NOTES:

1. FOR BALL & BURLAP, REMOVE WIRE / TWINE FROM AROUND BURLAP, FOLD TOP THIRD DOWN OR CUT / REMOVE PRIOR TO BACKFILL.
2. 1'-0" CLEARANCE ALL SIDES FROM ROOTBALL FOR PLANTING MEDIUM
3. PROVIDE FERTILOME ROOT STIMULATOR IN EACH TREE PIT.
4. MINIMUM STAKE QUANTITY IS (3) - THEN ADD (1) STAKE PER CALIPER INCH GREATER THAN 3".
5. STAKES SHALL BE DRIVEN THROUGH THE ROOT BALL AS SHOWN.
6. ENSURE TRUNK BASE (ROOT FLARE) IS FREE FROM STAKING AND OTHER MATERIALS.
7. ABOVE GROUND GUYING AND/OR METALLIC STAKING SYSTEMS NOT ALLOWED AND SHALL BE REJECTED.
8. INSTALL STAKING SYSTEM AS PER MANUFACTURER'S INSTRUCTIONS.

1 TYPICAL TREE PLANTING WITH ARBOR STAKES DETAIL
3/8" = 1'-0"

LANDSCAPE PLAN

halff
2407 SE COTTONWOOD ST., SUITE 1
BENTONVILLE, ARKANSAS 72712
TEL. (479) 273-2209

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 I Rogers, Arkansas 72758 I (479) 464-4965 I www.hjarch.com

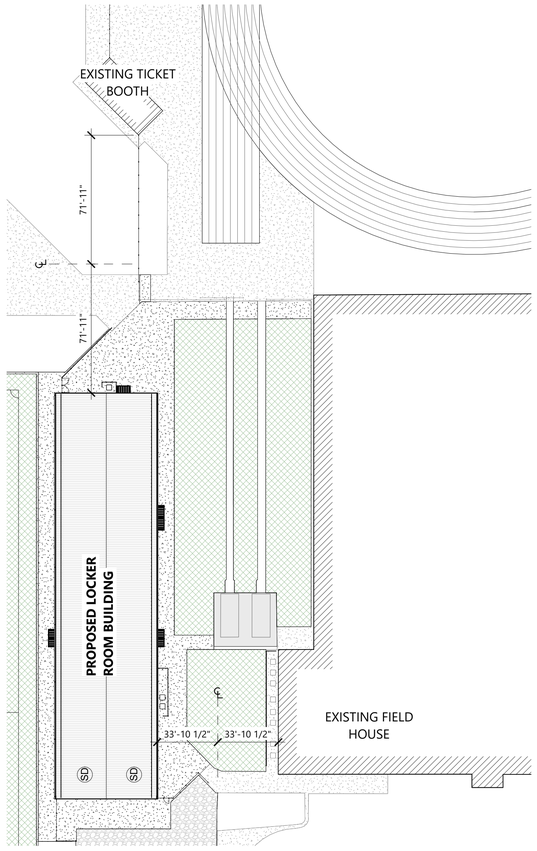
A NEW ADDITION FOR BENTONVILLE WEST HIGH SCHOOL

Bentonville Public Schools

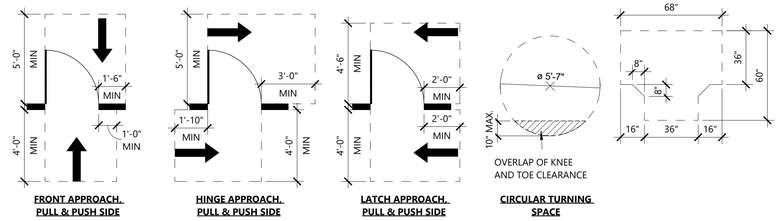
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: KES
CHECK BY: TAB
ISSUE DATE: 04/06/2026
PROJECT NO.: 0000
REVISION DATES:

SHEET L1.0



F1 Site Plan
1" = 40'-0"



NOTE: REFER TO SHEET **A2.5** FOR ADA MOUNTING HEIGHTS DIAGRAM

NOTE: CLEARANCES PROVIDED FOR REFERENCE. REFER TO ANSI A117.1 (CURRENT VERSION)

L6 General ADA Clearances
1/4" = 1'-0"

SYMBOL LEGEND

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- DESIGNATED EXIT
- # OCCUPANTS EGRESSING
  X" EXIT WIDTH REQ'D
  X" EXIT WIDTH PROV'D
- X — NOT AN EXIT
- EXIT SIGN
- FEC — FIRE EXTINGUISHER CABINET (SEMI-RECESSED)
- 1HR RATED GYPSUM CEILING UL-P524
- ROOM NAME / __ SF / __ OCC — ROOM USE, RE-- LEGEND / SQUARE FEET / OCCUPANCY

ROOM LEGEND

CU	CUSTODIAN
DT	DATA/COMMUNICATION
EL	ELECTRICAL
ER	EXERCISE ROOM
LR	LOCKER ROOM
ME	MECHANICAL
OF	OFFICE
ST	STORAGE
RR	RESTROOM

DUCT PENETRATIONS

REFER TO MECHANICAL DRAWINGS FOR LOCATION OF FIRE DAMPERS AT ALL FIRE WALLS AND FIRE BARRIERS.

RATED ASSEMBLIES - AFPC 107.2.9 STRUCTURAL AND FIRE-RESISTANCE INTEGRITY. PLANS FOR ALL BUILDINGS SHALL INDICATE HOW REQUIRED STRUCTURAL AND FIRE-RESISTANCE INTEGRITY WILL BE MAINTAINED WHERE A PENETRATION OF A REQUIRED FIRE-RESISTANT WALL, FLOOR, OR PARTITION WILL BE MADE FOR ELECTRICAL, GAS, MECHANICAL, PLUMBING, AND COMMUNICATION CONDUITS, PIPES, AND SYSTEMS. SUCH PLANS SHALL ALSO INDICATE IN SUFFICIENT DETAIL HOW THE FIRE INTEGRITY WILL BE MAINTAINED WHERE REQUIRED FIRE-RESISTANT FLOORS INTERSECT THE EXTERIOR WALLS AND WHERE JOINTS OCCUR IN REQUIRED FIRE-RESISTANT CONSTRUCTION ASSEMBLIES.

SPECIAL INSPECTIONS

REFER TO TABLE OF REQUIRED SPECIAL INSPECTIONS ON SHEET S1.0

CONTRACTOR SHALL PROVIDE AND COORDINATE FOR THIRD PARTY TESTING OF ALL LISTED ITEMS IN THIS TABLE.

TYPE OF CONSTRUCTION: IIB, NOT SPRINKELERED

FACILITY NAME: BWHS LOCKER ROOM BUILDING

FACILITY LOCATION:
1359 GAMBLE ROAD
CENTERTON, AR 72719

COUNTY:BENTON COUNTY

LOCAL FIRE DEPARTMENT:
CENTERTON FIRE DEPARTMENT

WATER SUPPLY:
CENTERTON UTILITIES

LOCAL BUILDING INSPECTION DEPARTMENT:
CITY OF CENTERTON BUILDING SAFETY DIVISION

APPLICABLE CODES AND REGULATIONS:
2021 ARKANSAS FIRE PREVENTION CODE
2021 INTERNATIONAL BUILDING CODE
(VOL. 2 WITH ARKANSAS STATE AMENDMENTS)
2018 ARKANSAS PLUMBING CODE
2021 INTERNATIONAL MECHANICAL CODE
2020 NATIONAL ELECTRIC CODE
2014 ARKANSAS ENERGY CODE SUPPLEMENT TO 2009 ENGERY CONSERVATION CODE
2018 ARKANSAS FUEL GAS CODE

ARCHITECT CONTACT

HIGHT JACKSON ASSOCIATES
TIM SCHMIDT
5201 WEST VILLAGE PARKWAY, SUITE 300
ROGERS, AR 72758
PHONE- (479)-464-4965
FAX- (479) 464-8324

OWNER CONTACT:

MICHAEL VELIQUETTE
BENTONVILLE SCHOOL DISTRICT
8579 WEST FORD SPRINGS ROAD
BENTONVILLE, AR 72712
PHONE- (479)-254-5085

NEW CONSTRUCTION:
OCCUPANCY TYPE- A3, S1
OCCUPANT LOAD- 291
CONSTRUCTION TYPE- IIB, NOT SPRINKLERED
BASIC ALLOWABLE AREA PER STORY- 9,500 SF
SPRINKLER INCREASE - N/A
FRONTAGE INCREASE PER BUILDING - 7,125 SF (9,500 X .75)
9,500 SF X .75 = 7,125 SF

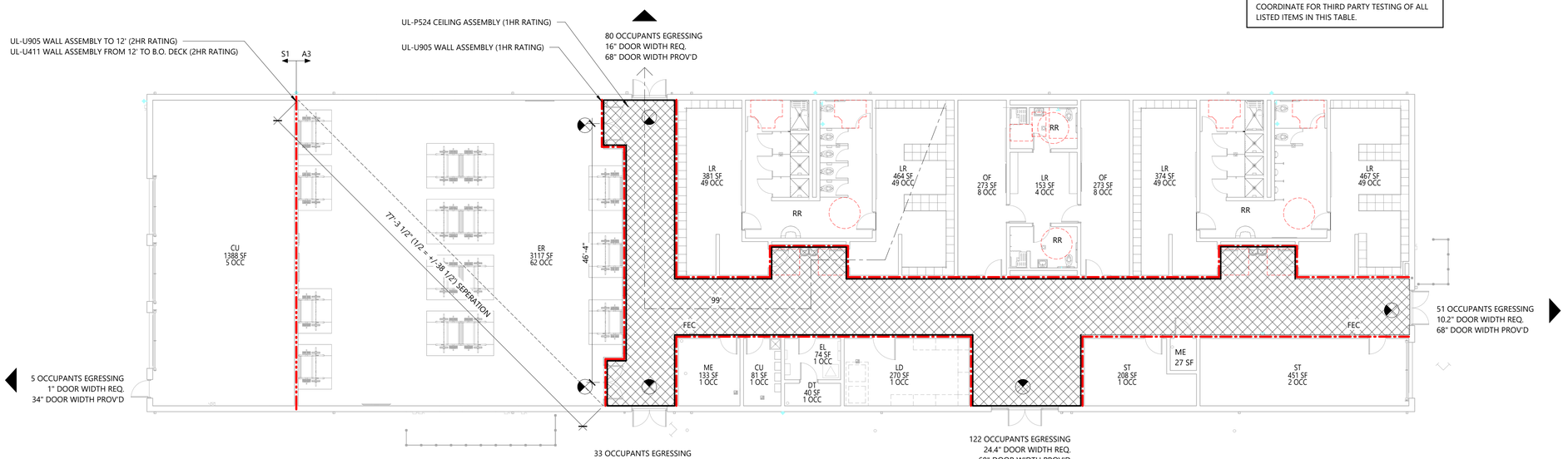
TOTAL ALLOWABLE AREA PER BUILDING: 16,625 SF
TOTAL SQUARE FOOTAGE: 12,922 SF
ALLOWABLE HEIGHT- 55 FT
ACTUAL HEIGHT- 14'-2
ALLOWABLE STORIES- 2
ACTUAL STORIES- 1

HORIZONTAL SEPARATION TO PROPERTY LINE- +/-33' 10 1/2" TO EAST PL, +/- 157'-7 1/2" TO SOUTH PL, +/- 266'-10" TO WEST PL, AND +/- 71' 11" TO NORTH PL.

STRUCTURAL FIRE PROTECTION
STRUCTURAL FRAME- 0 HR.
EXTERIOR BEARING WALLS- 0 HR.
INTERIOR BEARING WALLS- 0 HR.
EXTERIOR NON-BEARING WALLS- 0 HR.
INTERIOR NON-BEARING WALLS- 0 HR.
FLOORS- 0 HR.
ROOF- 0 HR.

ACTIVE FIRE SAFETY FEATURES:

NO FIRE SPRINKLER SYSTEM
FIRE ALARM SYSTEM- BATTERY BACK UP
SMOKE DETECTION THROUGHOUT-BATTERY BACKUP
AUTOMATIC AIR HANDLING EQUIPMENT SHUTDOWN
EXIT LIGHTS- BATTERY BACK UP
EMERGENCY LIGHTING- BATTERY BACK UP



A2 First Floor Life Code Plan
3/32" = 1'-0"

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9458
STATE OF ARKANSAS

HIGHT JACKSON ASSOCIATES PA
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS

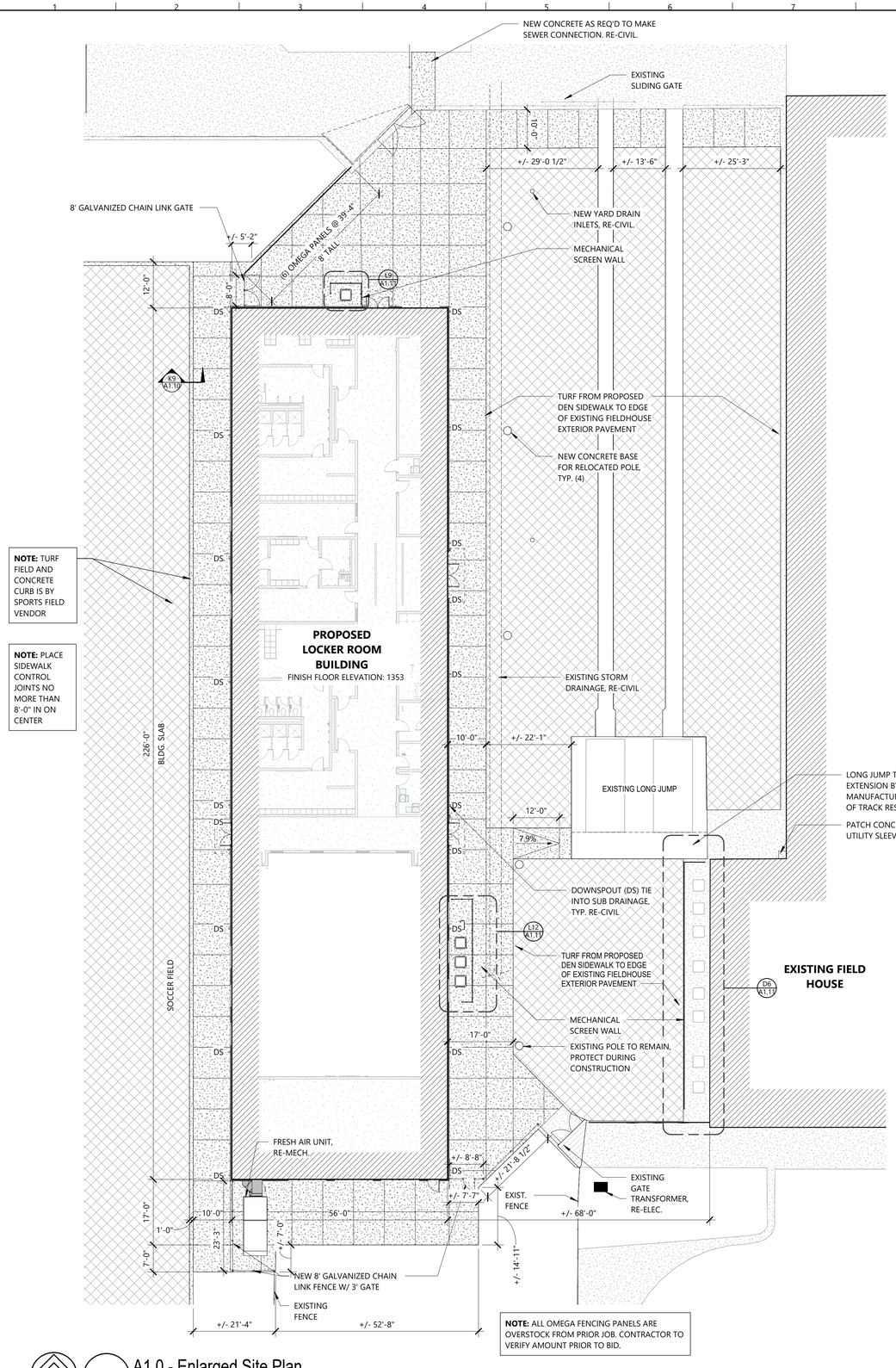
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

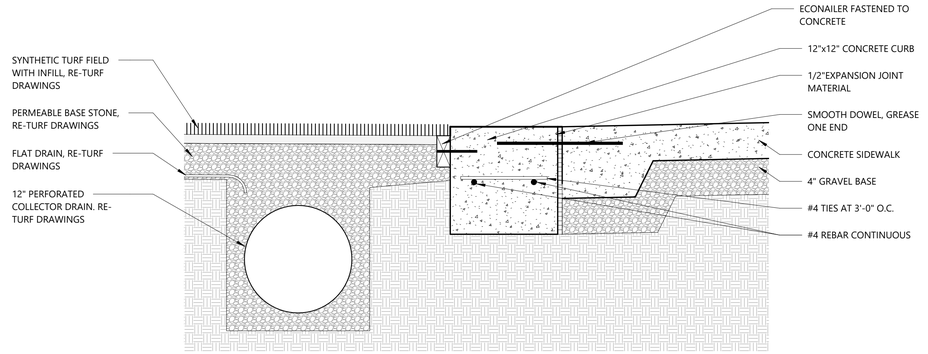
DRAWN BY: BS
CHECK BY: TS
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

CODE FOOTPRINT

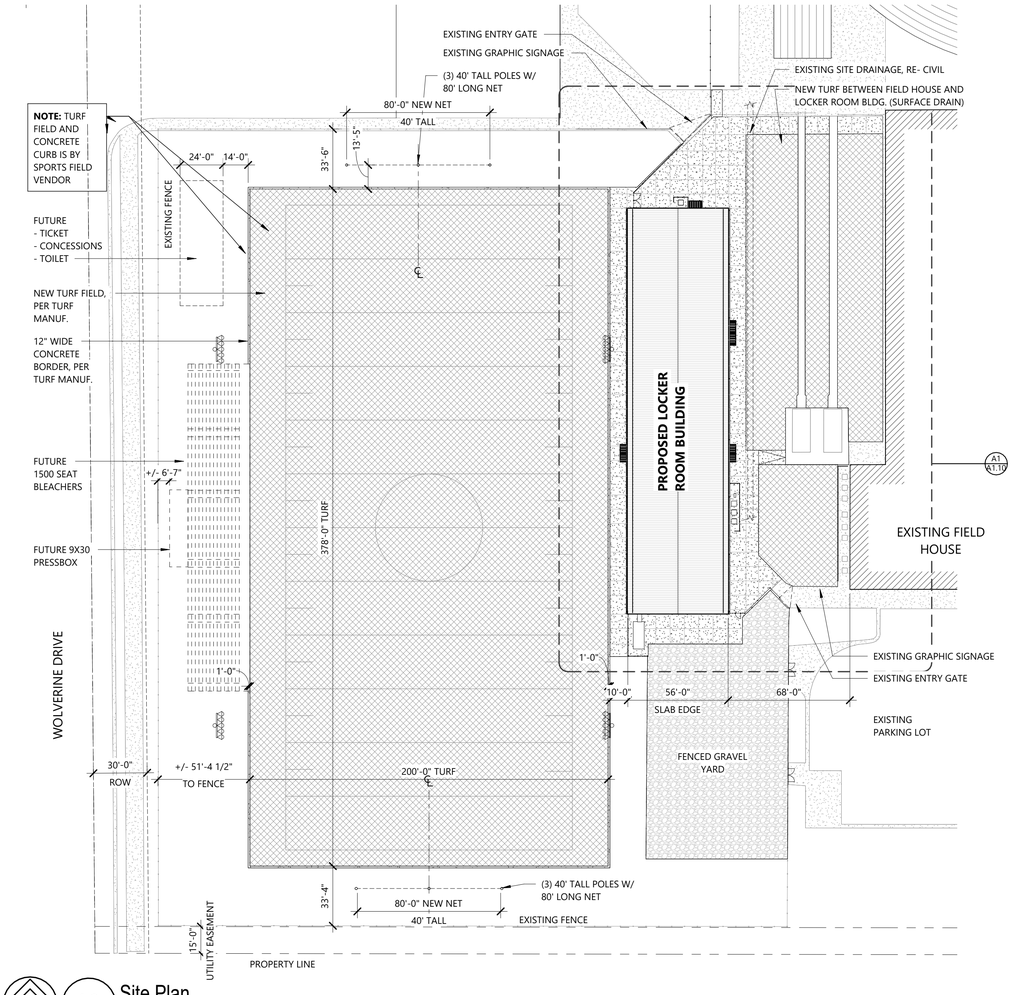
SHEET
A0.1



A1 A1.0 - Enlarged Site Plan
1/16" = 1'-0"



K9 Enlarged Section Detail
1 1/2" = 1'-0"
Ref: A1/ A1.10



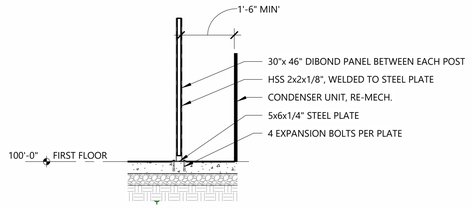
A9 Site Plan
1" = 40'-0"

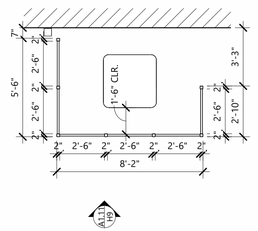
REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 8458
STATE OF ARKANSAS
HIGHT JACKSON ASSOCIATES P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 I Rogers, Arkansas 72758 I (479) 464-4965 I www.hjarch.com

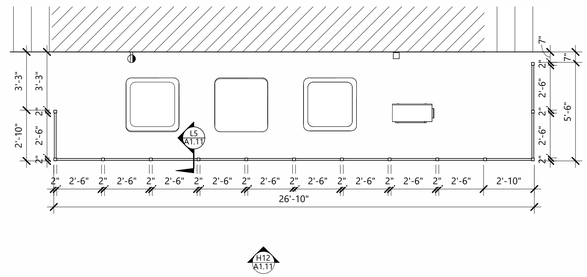
A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

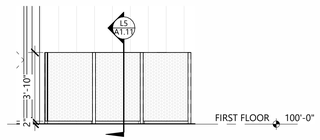
DRAWN BY: TS/BS
CHECK BY: TS
ISSUE DATE: 04/06/2026
PROJECT NO: 2421.2
REVISION DATES:

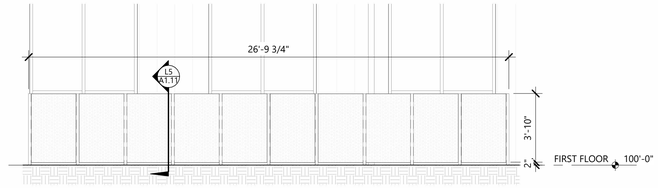
ARCHITECTURAL SITE PLAN
SHEET
A1.10

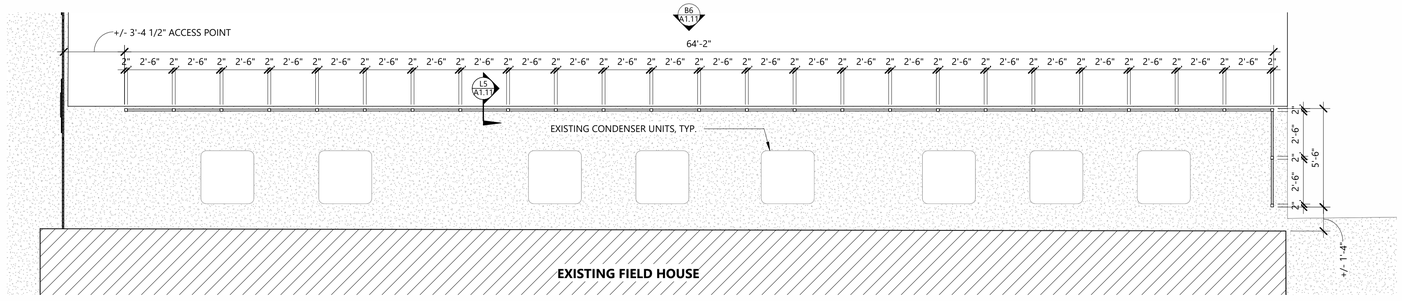












L5 Condenser Screen Section
1/2" = 1'-0"
Ref: B6/ A1.11

L9 Condenser Screen Plan
1/4" = 1'-0"
Ref: A1/ A1.10

L12 Condenser Screen Plan
1/4" = 1'-0"
Ref: A1/ A1.10

H9 Condenser Screen Elevation
1/4" = 1'-0"
Ref: L9/ A1.11

H12 Condenser Screen Elevation
1/4" = 1'-0"
Ref: L12/ A1.11

D6 Condenser Screen Plan
1/4" = 1'-0"
Ref: A1/ A1.10

B6 Condenser Screen Elevation
1/4" = 1'-0"
Ref: D6/ A1.11

NOTE: ALL GRAPHICS TO BE DETERMINED AT A LATER DATE

NOTE: CONDENSER HVAC SCREENS TO BE PROVIDED AND INSTALLED VIA CASH ALLOWANCE BY OWNER VENDOR CONTRACTOR

TIMOTHY L. SCHMIDT
LICENSE NO. 9488
4/06/2026

HIGHT. JACKSON. ASSOCIATES. P.A.
REGISTERED ARCHITECTS
Certificate
C 349

HightJackson
ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

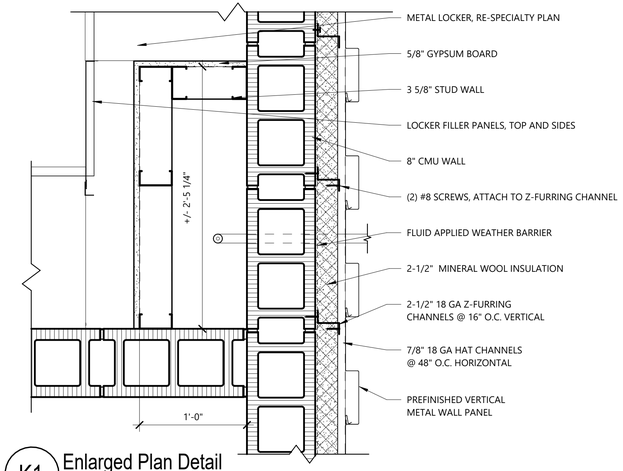
DRAWN BY.
BS
CHECK BY.
TS
ISSUE DATE
04/06/2026

PROJECT NO.
2421.2

REVISION DATES

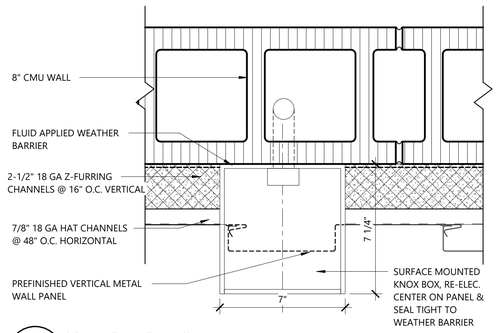
SITE DETAILS

SHEET
A1.11



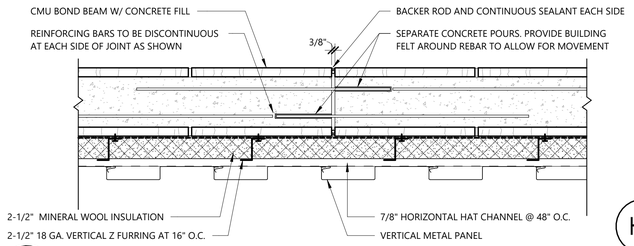
K1 Enlarged Plan Detail

1 1/2" = 1'-0" Ref: A2/ A2.1



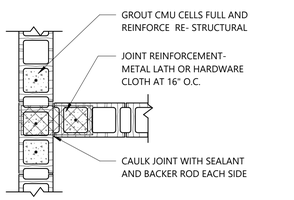
K5 Knox Box Detail

3" = 1'-0"



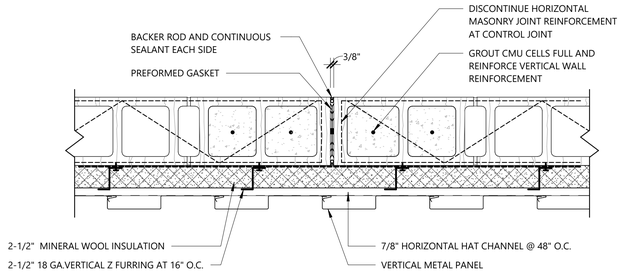
G1 Typ. Control Joint Detail at CMU Bond Beam

1 1/2" = 1'-0"



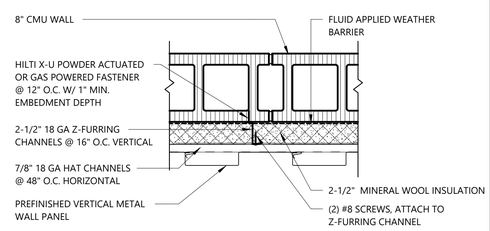
H5 Typ. Control Joint at CMU Intersection

3/4" = 1'-0"



G9 Typ. Control Joint Detail at CMU Wall

1 1/2" = 1'-0"



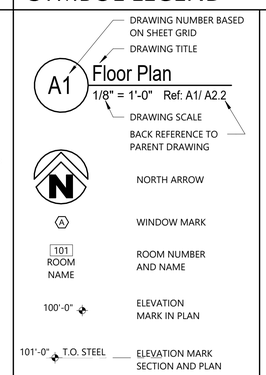
G13 Typ. Metal Panel Detail at CMU Wall

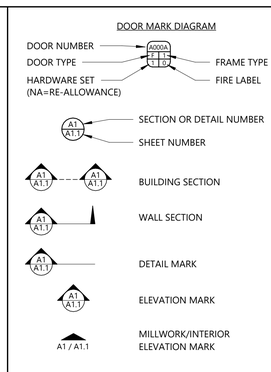
1 1/2" = 1'-0"

GENERAL NOTES:

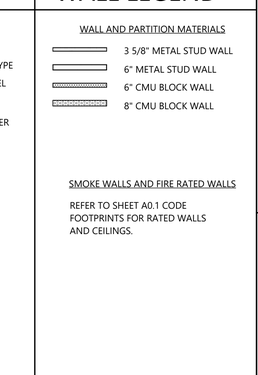
1. ALL DIMENSIONS ARE TO BE FROM FACE OF STUD OR BLOCK UNLESS NOTED OTHERWISE.
2. FURNITURE AND EQUIPMENT SHOWN DASHED ON PLANS ARE N.I.C. (NOT IN CONTRACT) U.N.O. (UNLESS NOTED OTHERWISE)
3. PROVIDE CONTROL JOINTS IN ALL MASONRY VENEER AS SHOWN ON BUILDING ELEVATIONS, PLANS AND SPECIFIED. CONTROL JOINTS SHALL NOT EXCEED 24'-0" O.C., RE-SPECS
4. PROVIDE DEFLECTION TRACK AT ALL NON-LOAD BEARING WALLS THAT EXTEND TIGHT TO STRUCTURE OR ROOF DECK.
5. COMPLY WITH THE US DEPARTMENT OF JUSTICE ADOPTED 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE STATE OF ARKANSAS ADOPTED 2017 ANSI A117.1 STANDARD FOR ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES THROUGH THE 2021 ARKANSAS FIRE PREVENTION CODE BY THE ARKANSAS STATE FIRE MARSHALL IN REGARDS TO ACCESSIBILITY OR HANDICAPPED FEATURES.
6. 2 HOUR FIRE RATED WALLS TO EXTEND TIGHT TO DECK, FIRE CAULKED. INSTALL FIRE SAFING TO FILL ALL VOIDS, AND CAULK ALL PENETRATIONS, TYP.
7. ALL RATED WALLS TO BE IDENTIFIED AT TOP OF WALL (ABOVE CEILING) WITH PAINTED STENCILED TEXT TO READ "X HR RATED WALL" PROVIDE CORRECT HOUR RATING IN PLACE OF "X". TEXT HEIGHT TO BE MINIMUM 2" AT INTERVALS OF EVERY 10' LINEAR.

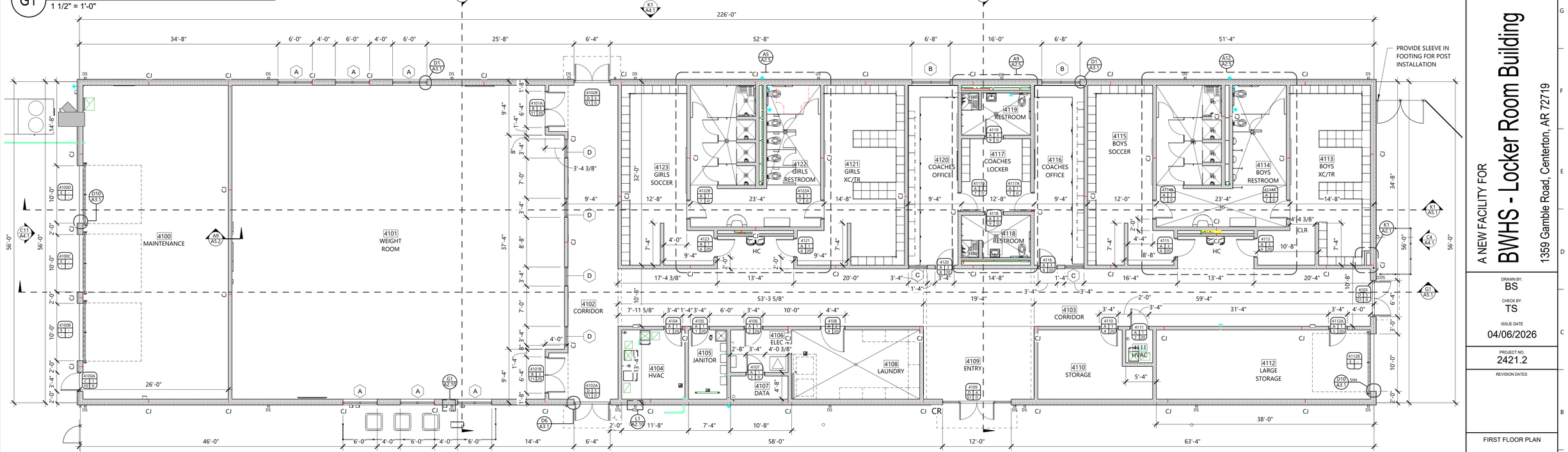
SYMBOL LEGEND





WALL LEGEND





A2 First Floor Plan

1/8" = 1'-0"

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9488
STATE OF ARKANSAS
HIGHT JACKSON ASSOCIATES, P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 I Rogers, Arkansas 72758 I (479) 464-4965 I www.hjarch.com

A NEW FACILITY FOR

BWHS - Locker Room Building

1359 Gamble Road, Centerton, AR 72719

DRAWN BY: BS

CHECK BY: TS

ISSUE DATE: 04/06/2026

PROJECT NO: 2421.2

REVISION DATES

FIRST FLOOR PLAN

SHEET

A2.1

General Finish Notes

1. REFER TO DRAWINGS FOR LOCATIONS OF ACOUSTICAL TREATMENTS (REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS)
2. PROVIDE ZINC TERMINATION STRIP WHERE EPOXY FLOOR FINISH TRANSITIONS TO ANOTHER FLOOR MATERIAL.
3. REFER TO REFLECTED CEILING PLANS FOR ALL CEILING HEIGHTS & WALLS THAT MUST EXTEND TO BOTTOM OF TRUSSES.
4. UNLESS NOTED OTHERWISE, PAINT WALLS WITHOUT CEILINGS FULL HEIGHT TO UNDERSIDE OF DECK.
5. PROVIDE 6" THICK UNFACED BATT INSULATION IN ALL CEILINGS ABOVE TOILET AND RESTROOM LOCATIONS.
6. REFER TO CODE FOOTPRINT FOR FIRE SEPARATION WALLS.
7. UNLESS NOTED OR SHOWN ON DRAWINGS OTHERWISE, TERMINATE ALL NON-BEARING, NON-RATED PARTITIONS A MINIMUM 6" TO 8" ABOVE HIGHEST ADJACENT CEILINGS.
8. UNLESS SHOWN OTHERWISE PROVIDE 4" RUBBER BASE AT ALL MILLWORK TOE SPACES, COVES AND CONCRETE LOCKER BASES.
9. PROVIDE 6" UNFACED INSULATION AT EXTERIOR STUDS AT TRUSS INFILL, STRAP TO SECURE IN PLACE.
10. REFER TO ELECTRICAL DRAWINGS FOR ALL ELECTRICAL OUTLETS AND SWITCH LOCATIONS. COORDINATE ALL ELECTRICAL OUTLETS AND SWITCHES WITH MILLWORK.
11. ACCENT PAINT MARKER INDICATES SURFACE TO BE PAINTED THE ACCENT COLOR. STOP ACCENT PAINT COLOR AT THE END OF WALL OR INTERSECTION OF ADJACENT WALL.
12. FLOOR MATERIAL TRANSITIONS AT DOOR WAYS SHALL HAPPEN BELOW DOOR LEAF IN CLOSED POSITION. FLOOR PATTERN PLANS ARE TO SHOW MATERIAL COLOR AND LAYOUT ONLY.
13. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED PT-3, INTERIOR AND EXTERIOR.
14. REFER TO SPECIALTY PLANS FOR DETAILED FINISH INFORMATION, COLORS, & ACCENT WALLS NOT FOUND IN FINISH SCHEDULE.
15. PROVIDE CLEAR CONCRETE SEALER AT ALL EXPOSED CONCRETE FLOORS.
16. AT FIRE RATED WALLS WHERE FIRE CAULK WILL BE EXPOSED, BACKSET FIRE CAULK AND CAULK OVER WITH COLOR MATCH CAULK.
17. FASCIA OF WINDOW SHADES TO BE MOUNTED FLUSH WITH INTERIOR CMU WALL SURFACE.

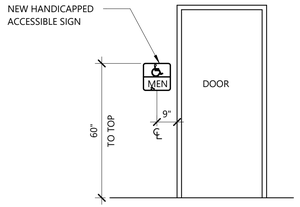
Room Signage Legend

#	ROOM NAME	DESIGN	#	ROOM NAME	DESIGN
A1	EXIT	TYPE 5	A9	WOMEN'S RESTROOM	TYPE 1
A2	WEIGHT ROOM	TYPE 3	A10	COACHES OFFICE	TYPE 3
A3	MECHANICAL	TYPE 3	A11	LOCKER ROOM	TYPE 3
A4	JANITOR	TYPE 3	A12	RESTROOM	TYPE 2
A5	ELECTRICAL	TYPE 3	A13	STORAGE	TYPE 3
A6	DATA	TYPE 3	A14	STORAGE	TYPE 4
A7	LAUNDRY	TYPE 3	A15	MEN'S LOCKER ROOM	TYPE 7
A8	WOMEN'S LOCKER ROOM	TYPE 6	A16	MEN'S RESTROOM	TYPE 1

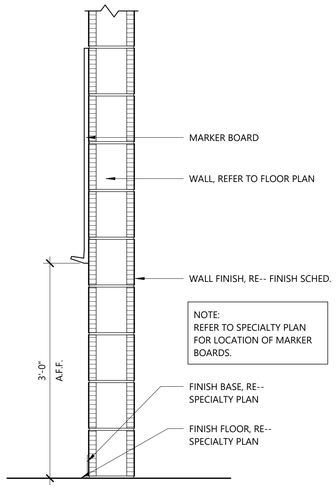
Specialty Plan Legend

TV	TV MOUNTING BRACKET; RE-ELEC
S	WINDOW ROLLER SHADE
FEC	FIRE EXTINGUISHER CABINET, ALL FEC LOCATIONS TO BE NEW U.N.O
1	SIGN TYPE, RE- ROOM SIGNAGE SCHEDULE
4MB	4' MARKER BOARD, BOTTOM AT 3'-0" AFF
6MB	6' MARKER BOARD, BOTTOM AT 3'-0" AFF
PT-1	ACCENT PAINT, RE- FINISH LEGEND AND GENERAL FINISH NOTE #13
SS-1@C PL-1@A	MILLWORK FINISH CALLOUT; REFER TO FINISH LEGEND SUFFIX INDICATES LOCATION OF FINISH
	SWC, SPECIAL WALL COATING. RE-FINISH LEGEND
TS	TRANSITION STRIP, RE-SPECS.
XX	LOCKER COUNT

SIGN SHALL BE MOUNTED ON THE WALL ADJACENT TO LATCH SIDE OF DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" A.F.F. TO THE TOP OF SIGN. MOUNTING LOCATION FOR SIGN SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.



G6 Room Signage Detail
3/8" = 1'-0"

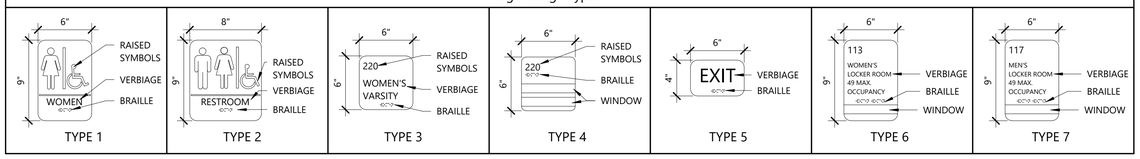


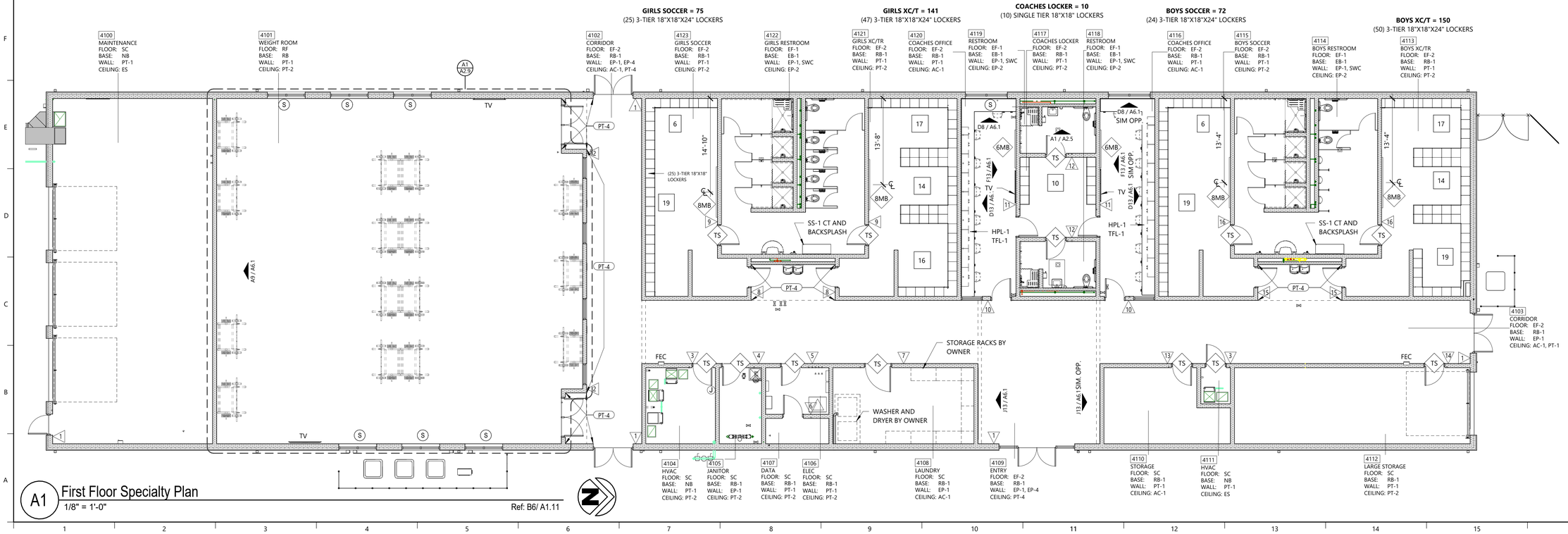
G9 Markerboard Detail
1" = 1'-0"

Finish Legend

BASE			
BASE	EB-1	4" EPOXY BASE	DESCO QUARTZ CREMONA TG414
BASE	NB	NO BASE	--
BASE	RB-1	RUBBER BASE	Johnsonite #20 Charcoal
CEILING			
CEILING	AC-1	2' X 4' ACOUSTICAL CEILING TILE	WHITE SUSPENDED ACOUSTICAL CEILING
CEILING	ES	EXPOSED STRUCTURE	NO PAINT
CEILING	ESP-X	EXPOSED STRUCTURE PAINTED	"X" REPRESENTS PAINT NUMBER FROM WALL COLOR LISTED BELOW, DRY FALL
CEILING	PT-X	PAINTED GYPSUM BOARD	"X" REPRESENTS PAINT NUMBER FROM WALL COLOR LISTED BELOW, DRY FALL
FLOORS			
FLOORS	EF-1	EPOXY FLOORING(RESTROOMS)	DESCO QUARTZ CREMONA TG414
FLOORS	EF-2	EPOXY FLOORING	DESCO GRANITE SERIES GS208
FLOORS	RF	RUBBER FLOORING TILES	ECORE PERFORMANCE ULTRATILE:
FLOORS	SC	SEALED CONCRETE	--
MILLWORK			
MILLWORK	HPL-1	PLASTIC LAMINATE COUNTERTOP	PIONITE:GOLD PANNIN AT710-SD
MILLWORK	SS-1	SOLID SURFACE COUNTERTOP	WILSONART: PEARL MIRAGE 9199MG
MILLWORK	TFL-1	THERMALLY FUSED LAMINATE (MELAMINE) CABINET BODY	WILSONART: FLORENCE WALNUT 7993
OTHER			
OTHER	AWP-1	ACOUSTIC WALL PANEL	GUILFORD OF MAINE FR701 2100 WHEAT 130
OTHER	DOORS	WOOD DOORS	NATURAL BIRCH
OTHER	LOCKRS	METAL LOCKERS	LYON LOCKERS - TRUE NAVY
OTHER	TP	TOILET PARTITIONS	HADRIAN - GRAY 239
WALLS			
WALLS	EP-X	EPOXY PAINT	"X" REPRESENTS PAINT NUMBER FROM THE PT WALL COLOR LISTED BELOW
WALLS	FRP	FIBERGLASS REINFORCED PANEL	STANDARD COLOR
WALLS	PT-1	PAINT, BASIC WALL COLOR	SHERWIN WILLIAMS: ANALYTICAL GRAY SW7051
WALLS	PT-2	PAINT, CEILING COLOR	SHERWIN WILLIAMS: NUANCE SW7049
WALLS	PT-3	PAINT, TYP DOOR FRAME COLOR	BENJAMIN MOORE: IRON MOUNTAIN 2134-30
WALLS	PT-4	PAINT, ACCENT WALL COLOR	SHERWIN WILLIAMS: GAUNTLET GREY SW7019
WALLS	SWC	SPECIAL WALL COATING (INTERIOR)	DESCO COLORITE TO MATCH PT-1

Sign Design Types





A1 First Floor Specialty Plan
1/8" = 1'-0"
Ref: B6/ A1.11

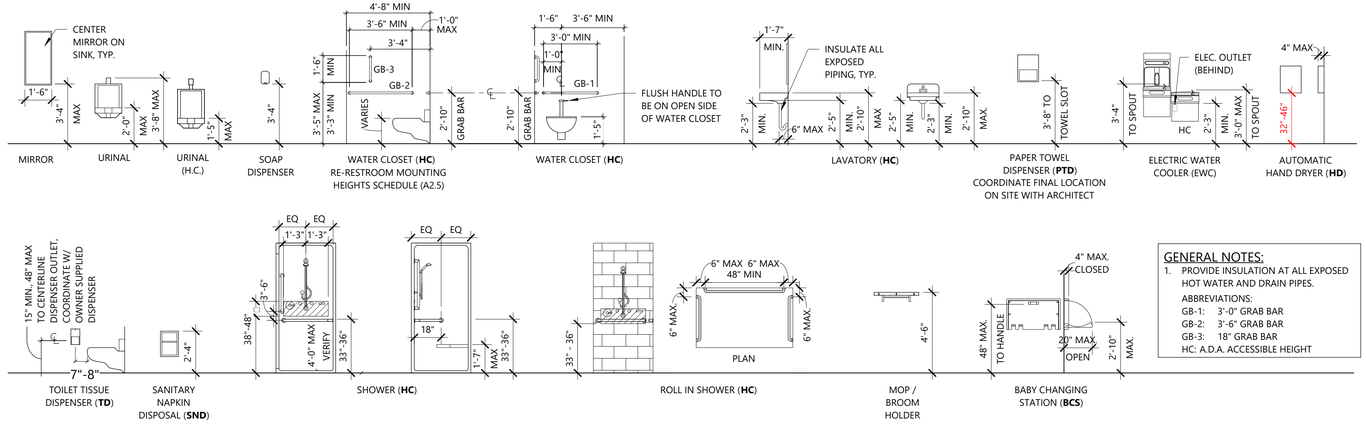
REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9488
STATE OF ARKANSAS
HIGHT JACKSON ASSOCIATES PA
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS
HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 I Rogers, Arkansas 72758 I (479) 464-4965 I www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: BS
CHECK BY: TS
ISSUE DATE: 04/06/2026
PROJECT NO: 2421.2
REVISION DATES:

SPECIALTY PLAN
SHEET
A2.3

Typical A.D.A. Reference Diagram



GENERAL NOTES:

1. PROVIDE INSULATION AT ALL EXPOSED HOT WATER AND DRAIN PIPES.

ABBREVIATIONS:
GB-1: 3'-0" GRAB BAR
GB-2: 3'-6" GRAB BAR
GB-3: 18" GRAB BAR
HC: A.D.A. ACCESSIBLE HEIGHT

Schedule of Special Mounting Heights / Location

		WATER CLOSET (CENTERLINE FROM WALL)	TOILET SEAT HEIGHT	GRAB BAR HEIGHT	TISSUE DISPENSER HEIGHT	LAVATORY/ WASH FOUNTAIN (TO RIM)	LAVATORY KNEE CLEARANCE	URINAL TO RIM	MIRROR (BOT. EDGE)
ADULT	(HC) HANDICAP ACCESSIBLE	18"	17"	34"	19"	34"	27"	17"	40"

Schedule of Mounting Heights

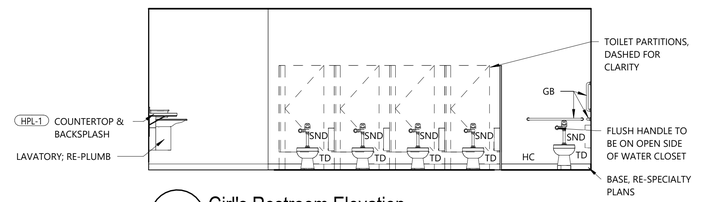
FIXTURE or ACCESSORY	DIM	REMARKS
ADULT STANDARD AND HANDICAP		
GRAB BARS	34"	TO CENTERLINE
MIRRORS (STANDARD)	40"	TO BOTTOM OF REFLECTIVE SURFACE
MIRRORS (ACCESSIBLE)	40"	TO BOTTOM OF REFLECTIVE SURFACE
PAPER TOWEL DISPENSER (PTD)	44"	TOWEL SLOT
SANITARY NAPKIN DISPOSAL (SND)	28"	TO TOP
SOAP DISPENSERS (SD)	40"	TO BOTTOM/AT 6" BACKSPLASH
TOILET TISSUE DISPENSERS (TD)	19"	TO CENTERLINE
TOWEL HOOK	48"	TO CENTERLINE
ELECTRIC WATER COOLER (EWC)	36" & 40"	TO SPOUT, 27" KNEE CLEAR, 9" TOE CLEAR, RE-PLUMB
SHOWER CURTAIN ROD	80"	TO CENTERLINE
FIRE SAFETY		
FIRE EXTINGUISHER	48"	TO HANDLE
SIGNAGE		
SIGNAGE (UNO)	60"	TO TOP
ELECTRICAL CONTROLS		
ELECTRICAL RECEPTACLE (UNO)	18"	TO CENTERLINE
ELECT RECEPTACLE ABOVE COUNTER	44"	TO CENTERLINE
LIGHT SWITCH (UNO)	48"	TO CENTERLINE (COORDINATE W/ OWNER)
THERMOSTAT (UNO)	48"	TO CENTERLINE
OTHER CONTROL DEVICES (UNO)	48"	TO CENTERLINE
UNO - "UNLESS NOTED OTHERWISE"		

Legend

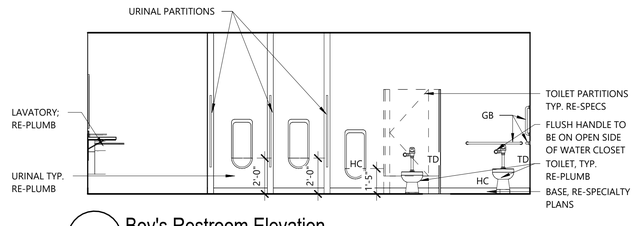
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
GB	GRAB BAR
HC	HANDICAP
HD	HAND DRYER
HHD	HAND/HAIR DRYER, RE--SPECS
PTD	PAPER TOWEL DISPENSER
SD	SOAP DISPENSER
SGB	SHOWER GRAB BAR
SH	SHOWER SOAP HOLDER
SND	SANITARY NAPKIN DISPOSAL
TD	TISSUE DISPENSER
TH	TOWEL HOOK
MI	MIRROR
SC	SHOWER CURTAIN ROD AND SHOWER CURTAIN

Toilet Accessory Notes

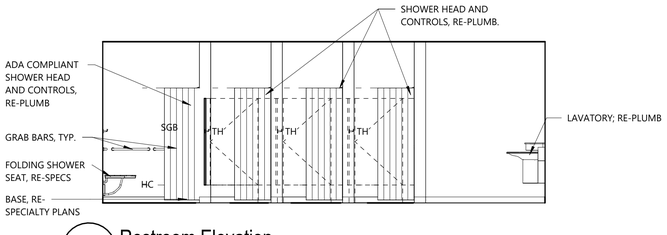
1. REFER TO SPECIFICATION SECTION 10 28 13 FOR TOILET ACCESSORIES FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
2. ALL PLUMBING FIXTURE MOUNTING HEIGHTS AND CLEARANCES NOTED TO BE ACCESSIBLE SHALL CONFORM WITH ALL AMERICANS WITH DISABILITIES ACT REGULATIONS. ALL CONFLICTS BETWEEN DRAWINGS AND INSTALLATION SHALL BE REPORTED TO ARCHITECT PRIOR TO INSTALLATION



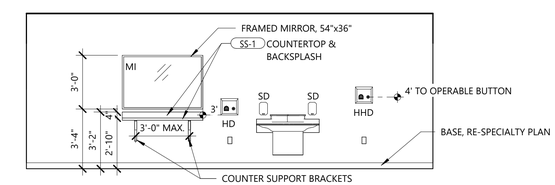
G3 Girl's Restroom Elevation
1/4" = 1'-0" Ref: A5/ A2.5



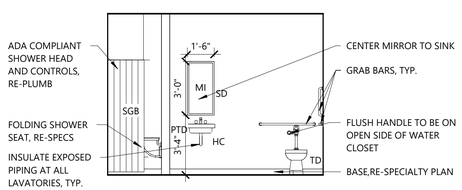
G8 Boy's Restroom Elevation
1/4" = 1'-0" Ref: A12/ A2.5



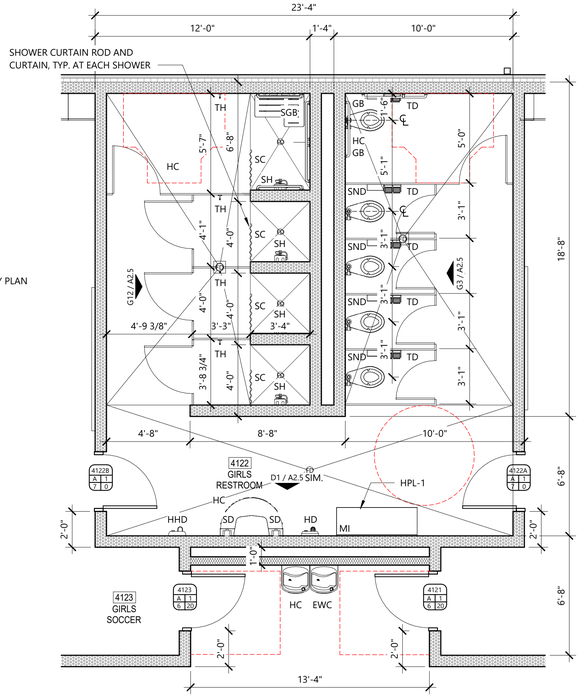
G12 Restroom Elevation
1/4" = 1'-0" Ref: A5/ A2.5



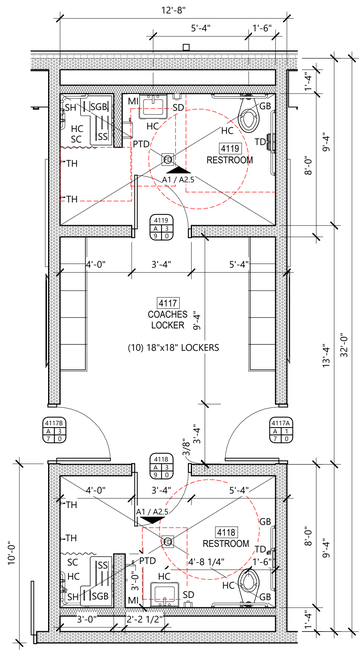
D1 Restroom Elevation
1/4" = 1'-0" Ref: A5/ A2.5



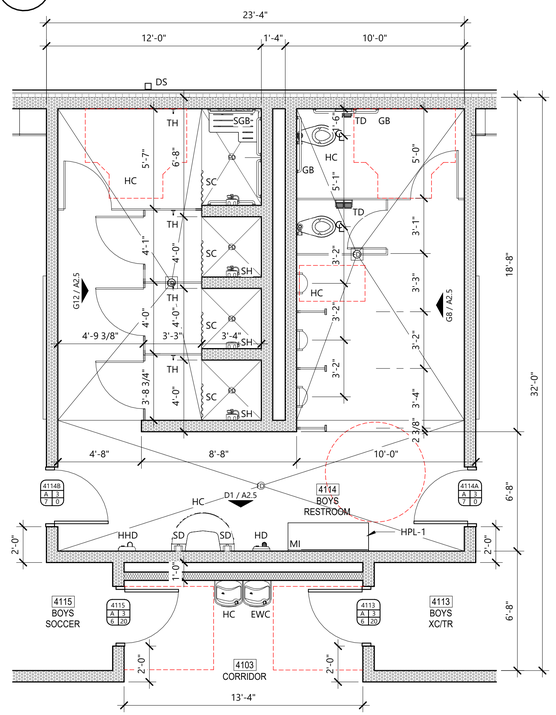
A1 Coaches Restroom Elevation
1/4" = 1'-0" Ref: A1/ A2.3



A5 Enlarged Restroom Plan
1/4" = 1'-0" Ref: A2/ A2.1



A9 Enlarged Restroom Plan
1/4" = 1'-0" Ref: A2/ A2.1



A12 Enlarged Restroom Plan
1/4" = 1'-0" Ref: A2/ A2.1

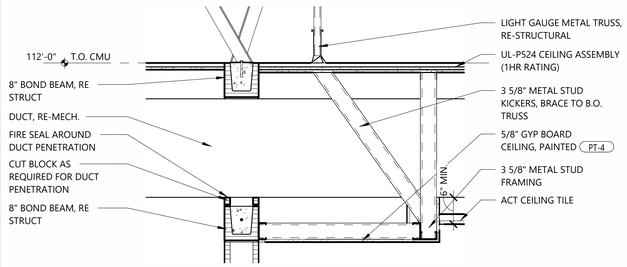
REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 8488
STATE OF ARKANSAS
HIGHT JACKSON ASSOCIATES, P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

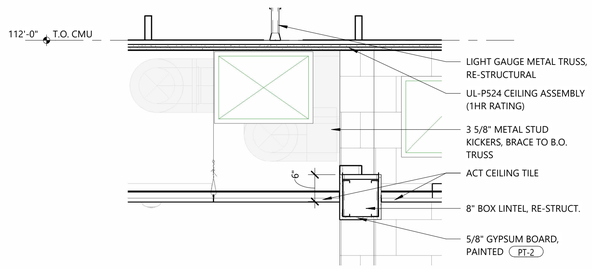
DRAWN BY: VG
CHECK BY: TS
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES:

ENLARGED RESTROOM PLANS

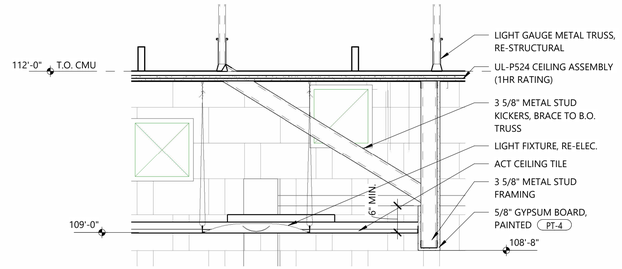
SHEET
A2.5



L1 Ceiling Section
3/4" = 1'-0" Ref: A1/ A5.2



L5 Ceiling Section
3/4" = 1'-0" Ref: A1/ A2.8



L9 Ceiling Section
3/4" = 1'-0" Ref: A1/ A2.8

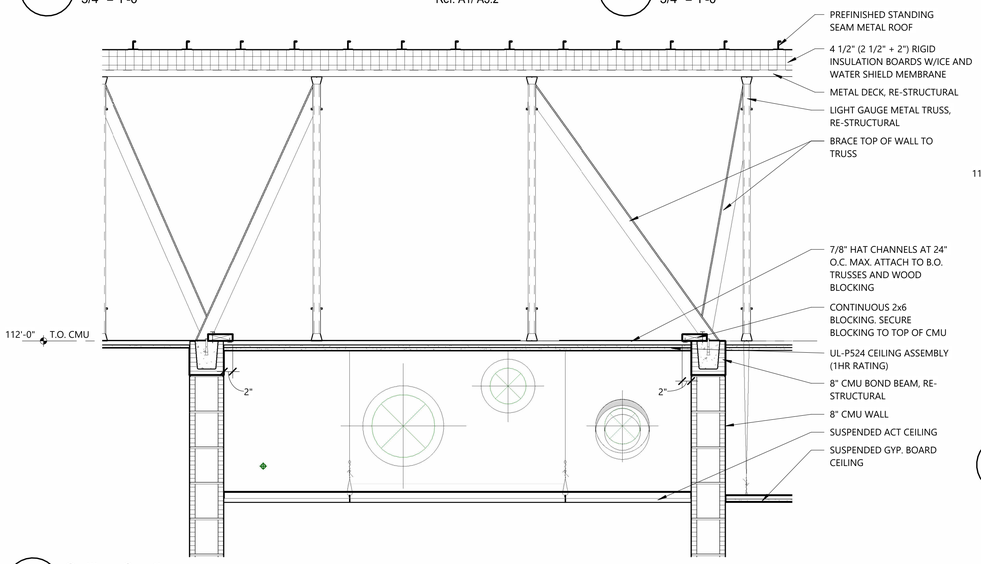
Reflected Ceiling Plan Legend

- 0'-0" — CEILING HEIGHT FROM FINISHED FLOOR
- ES — EXPOSED STRUCTURE
- GYPSUM BOARD CEILING, PAINTED
- 2'x4' ACOUSTICAL CEILING
- 2'x2' ACOUSTICAL CEILING
- CJ, CONTROL JOINT
- WALLS TO EXTEND TIGHT TO DECK.

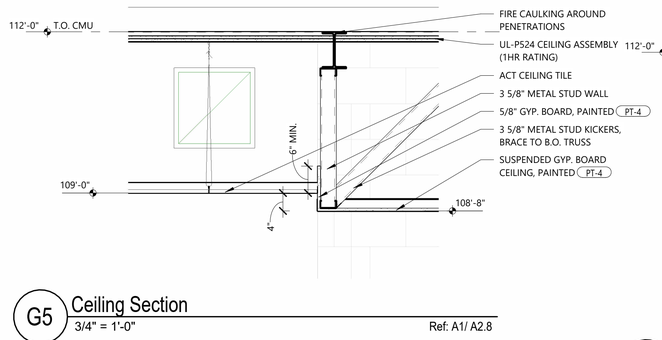
NOTE: REFER TO ENLARGED REFLECTED CEILING PLANS FOR ADDITIONAL FINISHES

Reflected Ceiling Plan General Notes:

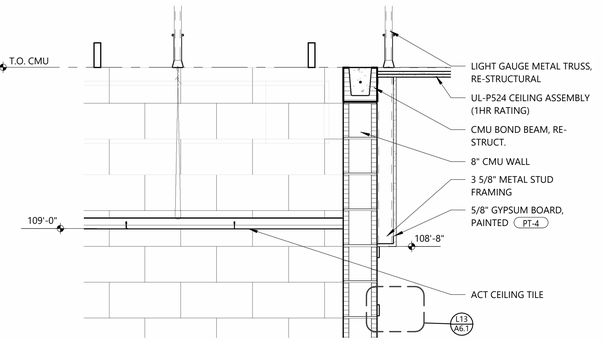
1. PROVIDE 24"X24" MIN. ACCESS PANELS AS NEEDED TO ACCESS TO PIPING, FILTERS, EQUIPMENT, VALVES, ETC. AT GYPSUM BOARD CEILINGS. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL, TYP.
2. PROVIDE GYPSUM BOARD CONTROL JOINTS AT SPACING NOT TO EXCEED 30'-0" O.C., RE--SPEC. WHERE CONTROL JOINTS ARE NOT SHOWN, COORDINATE W/ ARCHITECT IN THE FIELD.
3. REFER TO CODE FOOTPRINT FOR FIRE-WALL LOCATIONS AND UL-DESIGNATIONS.



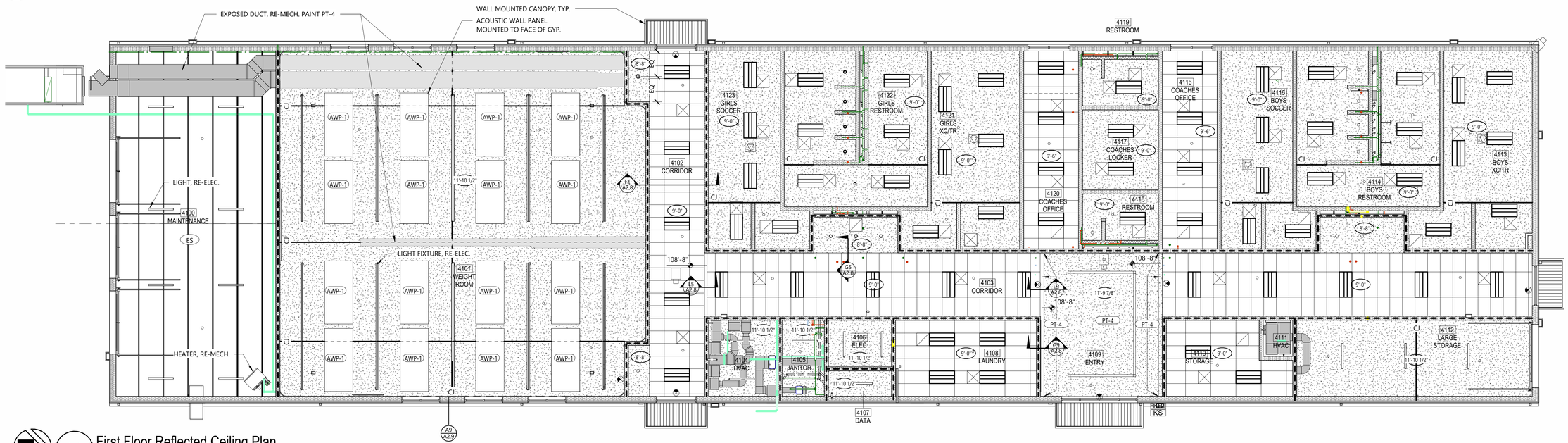
F1 Ceiling Section
3/4" = 1'-0" Ref: A1/ A2.8



G5 Ceiling Section
3/4" = 1'-0" Ref: A1/ A2.8



G9 Ceiling Section
3/4" = 1'-0" Ref: A1/ A2.8



A1 First Floor Reflected Ceiling Plan
1/8" = 1'-0" Ref: B6/ A1.11

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9488
STATE OF ARKANSAS

HIGHT JACKSON ASSOCIATES, P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

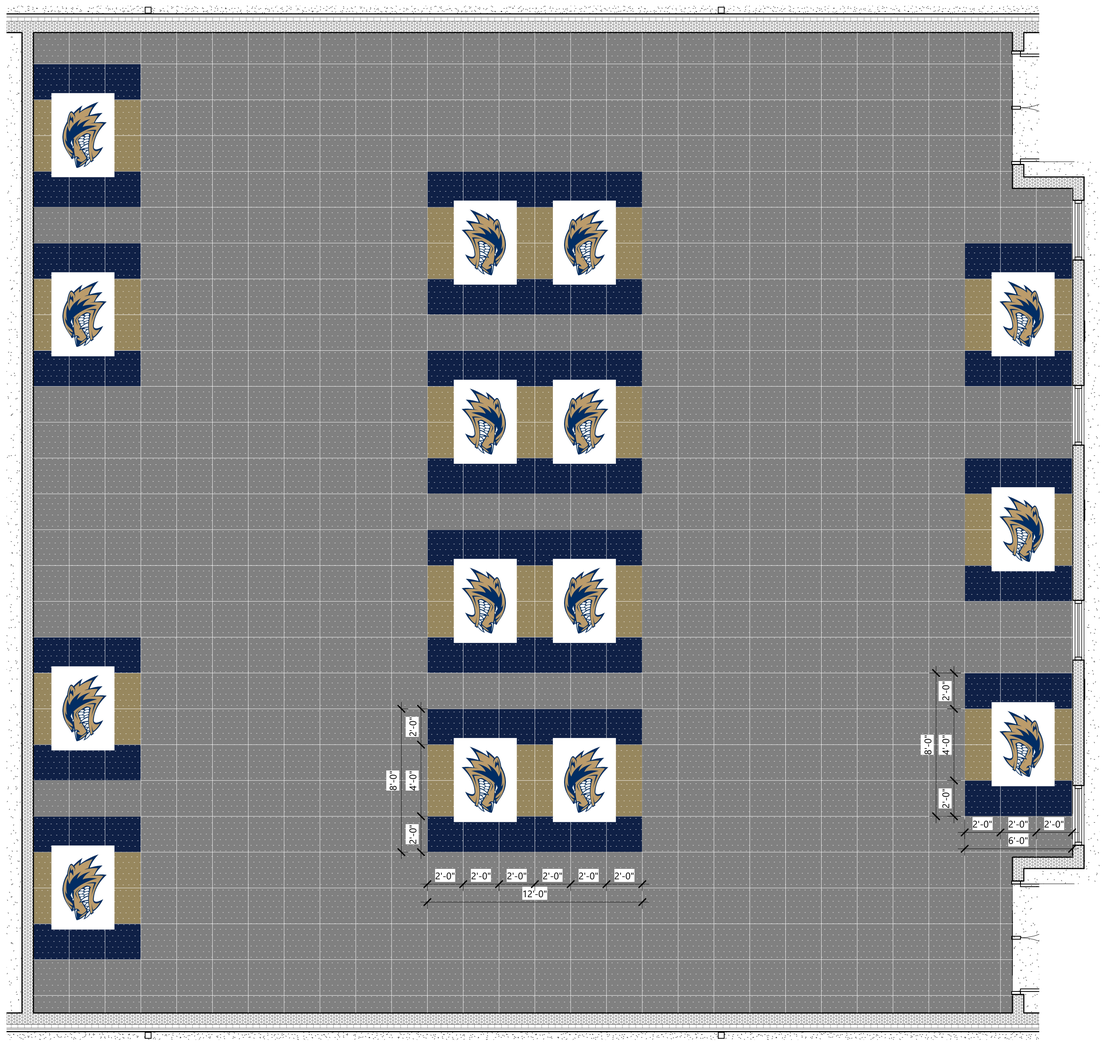
DRAWN BY: BS
CHECK BY: TS
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES:

FIRST FLOOR REFLECTED CEILING PLAN

SHEET
A2.8

FLOOR PATTERN PLAN LEGEND

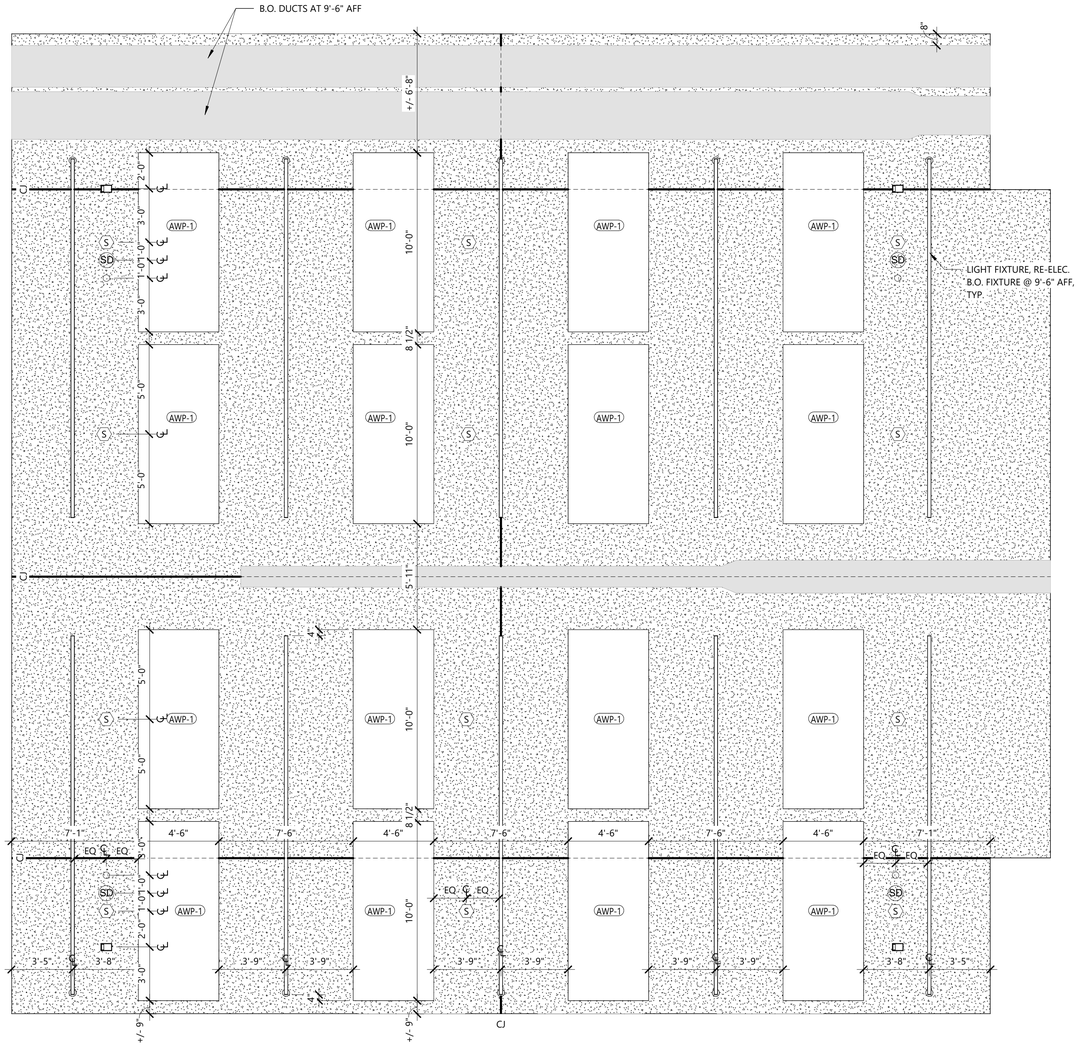
- ECORE PERFORMANCE ULTRATILE - GRIPPIN GRAY 20 - EL46
- ECORE PERFORMANCE ULTRATILE - NAVY - ES508
- ECORE PERFORMANCE ULTRATILE -MOCHA LATTE 2 - EL43A
- INLAID RUBBER SCHOOL LOGO



A1 Floor Pattern Plan
1/4" = 1'-0"
Ref: A1/ A2.3

REFLECTED CEILING PLAN LEGEND

- S — SPEAKER, RE-AV
- SD — SMOKE DETECTOR, RE-MEP
- FIRE STROBE, RE-MEP
- AWP-1 — ACOUSTIC WALL PANEL, RE-SPECIALTY LEGEND
- CJ, CONTROL JOINT



A9 Enlarged Reflected Ceiling Plan
1/4" = 1'-0"
Ref: A1/ A2.8

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9458
STATE OF ARKANSAS

HIGHT JACKSON ASSOCIATES P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS

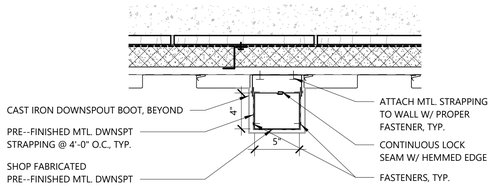
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: BS
CHECK BY: TS
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES:

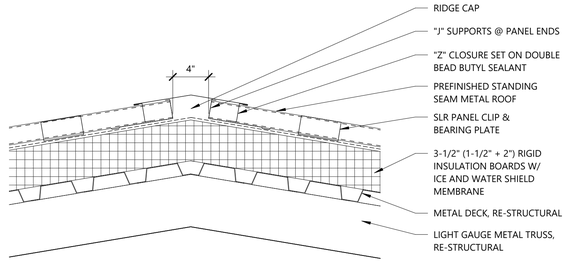
ENLARGED CEILING PLAN/DETAILS

SHEET
A2.9



L1 Downspout - Plan Detail

1 1/2" = 1'-0" Ref: A2/ A2.1

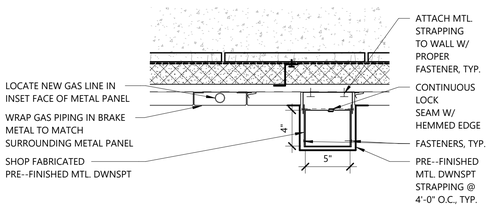


L6 Ridge Cap Section

1 1/2" = 1'-0" Ref: A1/ A2.10

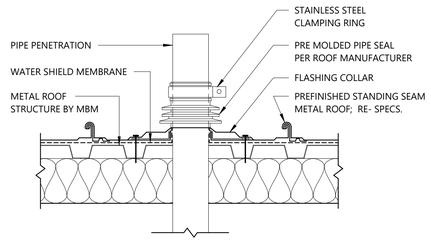
ROOF PLAN GENERAL NOTES

1. PROTECT NEW STANDING SEAM ROOFING FROM DAMAGE / SCRATCHING DURING AND AFTER INSTALLATION
2. ALL ROOFING, FLASHING, PENETRATIONS, ETC. TO BE BUILT TO A WEATHERTITE WARRANTED INSTALLATION
3. CONTRACTOR IS TO ENSURE ALL WORK IS IN FULL COMPLIANCE WITH FEDERAL, STATE, AND LOCAL CODES HAVING JURISDICTION.
4. PROVIDE SNOW GUARD 2' FROM ALL ROOF PENETRATIONS SUCH AS HVAC FLUES AND PLUMBING VENT PIPES



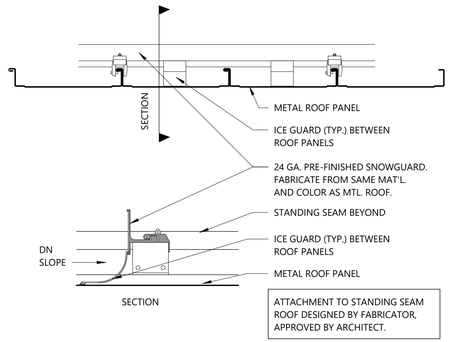
G1 Downspout and Gas Piping - Plan Detail

1 1/2" = 1'-0" Ref: A2/ A2.1



G5 Typ. Pipe Penetration Detail

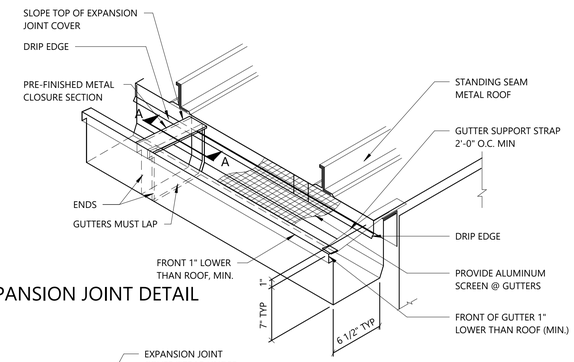
1 1/2" = 1'-0"



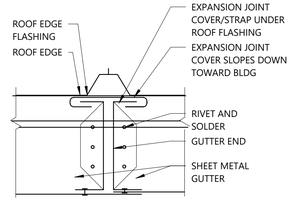
ATTACHMENT TO STANDING SEAM ROOF DESIGNED BY FABRICATOR, APPROVED BY ARCHITECT.

G9 Snow Guard Detail

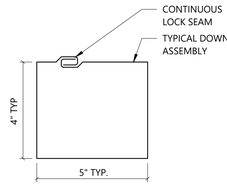
1 1/2" = 1'-0"



EXPANSION JOINT DETAIL



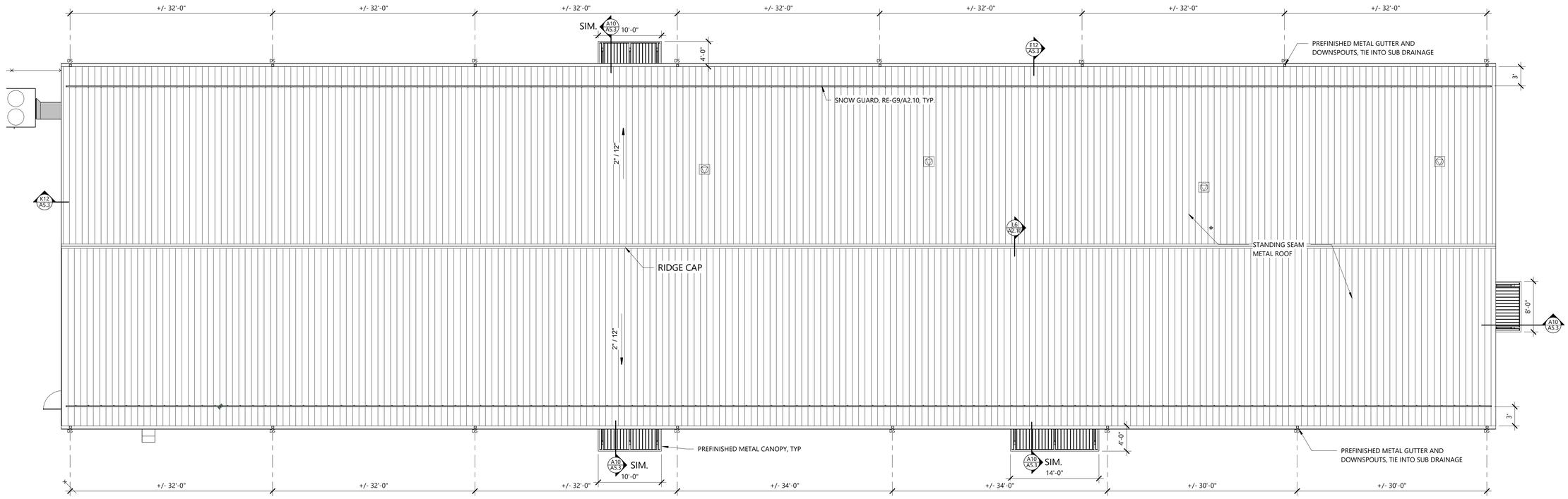
SECTION A-A



DOWNSPOUT PLAN

G12 Gutter Expansion Joint Detail

1 1/2" = 1'-0"



A1 Roof Plan

1/8" = 1'-0" Ref: B6/ A1.11

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9458
STATE OF ARKANSAS
HIGHT JACKSON ASSOCIATES, P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR

BWHS - Locker Room Building

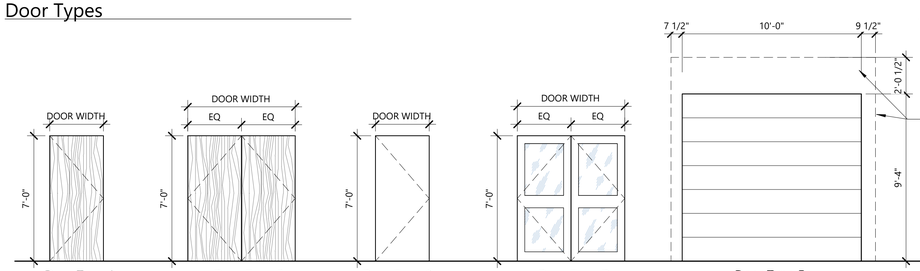
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: BS
CHECK BY: TS
ISSUE DATE: 04/06/2026
PROJECT NO: 2421.2
REVISION DATES

ROOF PLAN & DETAILS

SHEET A2.10

Door Types



Door Type A
FLUSH WOOD DOOR, SOLID CORE, STAINED

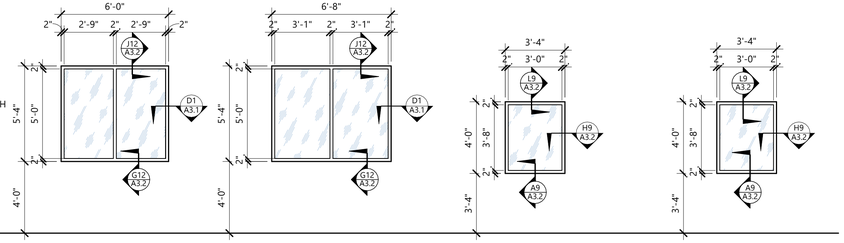
Door Type B
FLUSH WOOD DOOR, SOLID CORE, STAINED

Door Type C
HOLLOW METAL DOOR, PAINTED; EXT. LOCATIONS INSULATED AND GALVANIZED RE--SPECS.

Door Type D
ALUMINUM STOREFRONT DOOR - AT EXTERIOR--1" INSULATING TEMPERED TINTED GLASS

Door Type E
OVERHEAD SECTIONAL DOOR, SIZE DOOR PER MANUFACTURER'S REQUIREMENT FOR ROUGH OPENING.

Window Frame Types



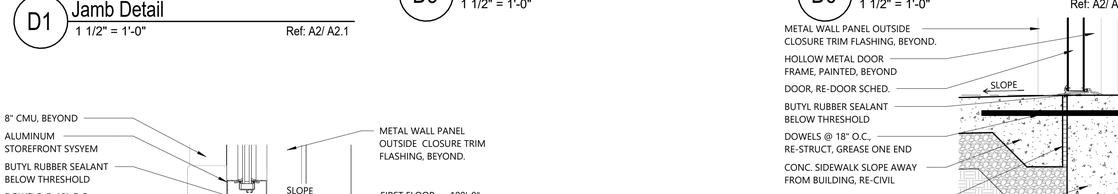
Ⓐ
ALUMINUM STOREFRONT WINDOWS WITH 1" INSULATED GLASS

Ⓑ
ALUMINUM STOREFRONT WINDOWS WITH 1" INSULATED GLASS

Ⓒ
3/4 HR RATED ALUMINUM FRAME, CLEAR ANODIZED FINISH WITH 3/4" FIRE RATED CLEAR GLAZING

Ⓓ
3/4 HR RATED ALUMINUM FRAME, CLEAR ANODIZED FINISH WITH 3/4" FIRE RATED CLEAR GLAZING

Door Frame Types



Frame Type 1
HOLLOW METAL FRAME PAINTED

Frame Type 2
HOLLOW METAL FRAME PAINTED

Frame Type 3
HOLLOW METAL FRAME PAINTED

Frame Type 4
ALUMINUM STOREFRONT WITH 1" INSULATED GLASS, TEMPERED WHERE REQ'D BY CODE.

Frame Type 5
ALUMINUM STOREFRONT WINDOWS WITH 1" INSULATED GLASS. TEMPERED WHERE REQ'D BY CODE.

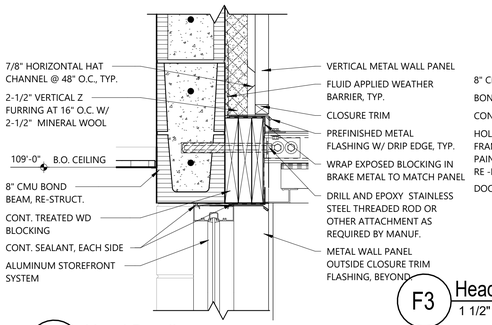
Door Frame & Window Frame General Notes

1 REFER TO DOOR TAG AND SPECIFCATION SECTION 08 71 00 FOR HARDWARE SETS AT HOLLOW METAL DOOR FRAMES

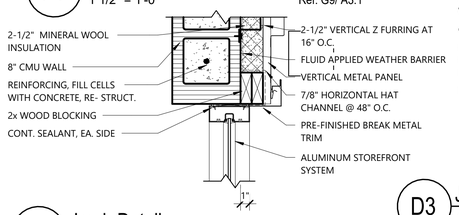
2 REFER TO DOOR TAGS AND SPEC. SECTION 08 43 13 FOR HARDWARE SETS AT ALUMINUM STOREFRONT FRAMES

Door Schedule

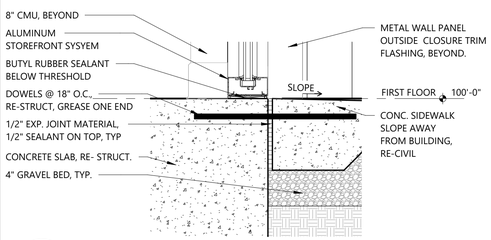
MARK	DETAILS HEAD	JAMB	SILL	NOTES
4100A	F6/A3.1	D6/A3.1	A6/A3.1	
4100B	F10/A3.1	D10/A3.1	A10/A3.1	
4100C	F10/A3.1	D10/A3.1	A10/A3.1	
4100D	F10/A3.1	D10/A3.1	A10/A3.1	
4101A	F3/A3.1	D3/A3.1		
4101B	F3/A3.1	D3/A3.1		
4102A	F1/A3.1	D1/A3.1	A1/A3.1, C12/A3,2	
4102B	F1/A3.1	D1/A3.1	A1/A3.1, C12/A3,2	
4103	F1/A3.1	D1/A3.1	A1/A3.1, C12/A3,2	
4104	F3/A3.1	D3/A3.1		
4105	F3/A3.1	D3/A3.		
4106	F3/A3.1	D3/A3.1		
4107	F3/A3.1	D3/A3.1		
4108	F3/A3.1	D3/A3.1		
4109	F1/A3.1	D1/A3.1	A1/A3.1, C12/A3,2	
4110	F3/A3.1	D3/A3.1		
4111	F3/A3.1	D3/A3.1		
4112A	F3/A3.1	D3/A3.1		
4112B	F10/A3.1	D10/A3.1	A10/A3.1	
4113	F3/A3.1	D3/A3.1, A13/A3.2		
4114A	F3/A3.1	D3/A3.1		
4114B	F3/A3.1	D3/A3.1		
4115	F3/A3.1	D3/A3.1, A13/A3.2		
4116	F3/A3.1	D3/A3.1, D13/A3.2		
4117A	F3/A3.1	D3/A3.1		
4117B	F3/A3.1	D3/A3.1		
4118	F3/A3.1	D3/A3.1		
4119	F3/A3.1	D3/A3.1		
4120	F3/A3.1	D3/A3.1, D13/A3.2		
4121	F3/A3.1	D3/A3.1, A13/A3.2		
4122A	F3/A3.1	D3/A3.1		
4122B	F3/A3.1	D3/A3.1		
4123	F3/A3.1	D3/A3.1, A13/A3.2		



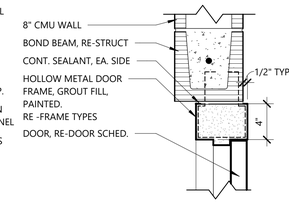
F1 Head Detail
1 1/2" = 1'-0" Ref: G9/ A3.1



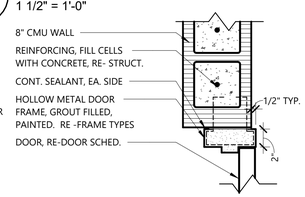
D1 Jamb Detail
1 1/2" = 1'-0" Ref: A2/ A2.1



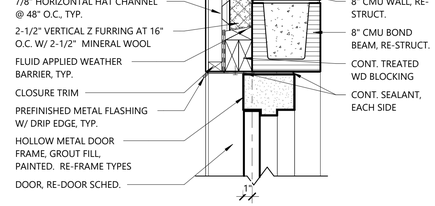
A1 Sill Detail
1 1/2" = 1'-0" Ref: G9/ A3.1



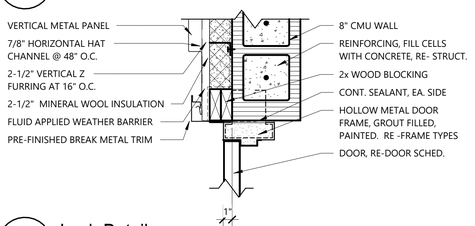
F3 Head Detail
1 1/2" = 1'-0"



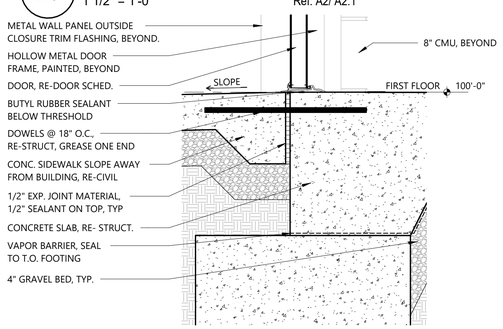
D3 Jamb Detail
1 1/2" = 1'-0"



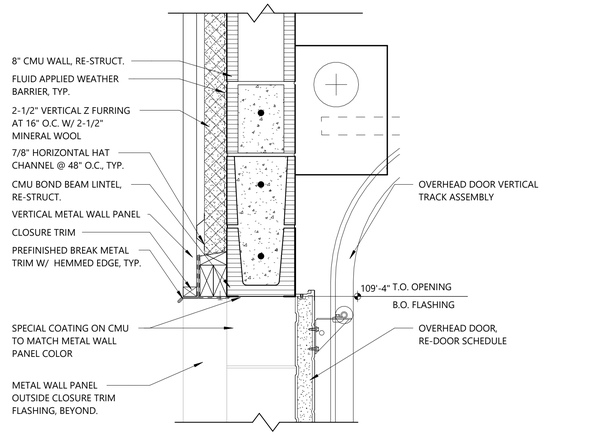
F6 Head Detail
1 1/2" = 1'-0"



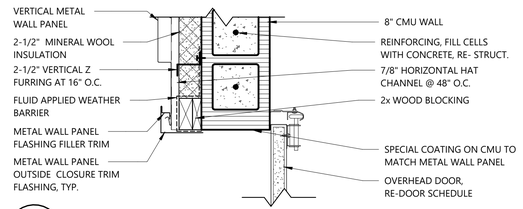
D6 Jamb Detail
1 1/2" = 1'-0" Ref: A2/ A2.1



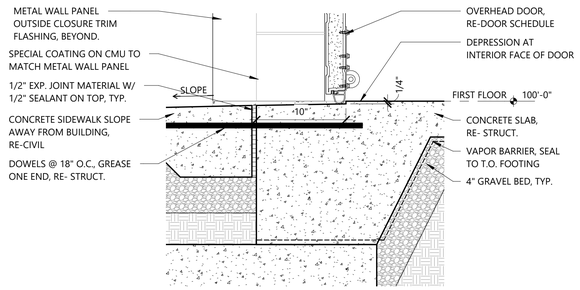
A6 Sill Detail
1 1/2" = 1'-0" Ref: G9/ A3.1



F10 Head Detail
1 1/2" = 1'-0"



D10 Jamb Detail
1 1/2" = 1'-0" Ref: A2/ A2.1



A10 Sill Detail
1 1/2" = 1'-0"

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9458
STATE OF ARKANSAS

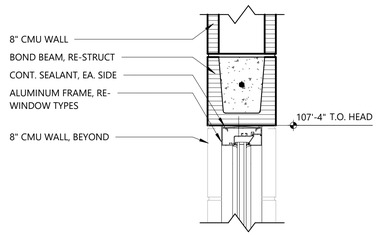
HIGHT JACKSON ASSOCIATES, P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 I Rogers, Arkansas 72758 I (479) 464-4965 I www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

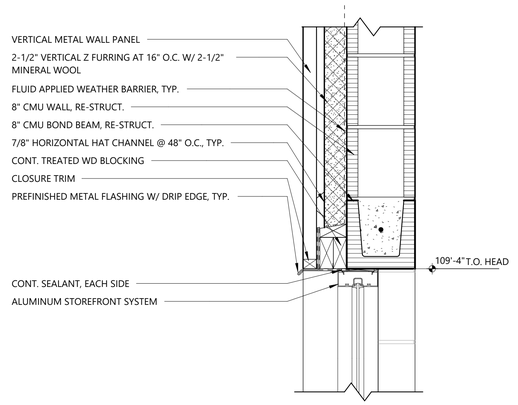
DRAWN BY: BS
CHECK BY: TS
ISSUE DATE: 04/06/2026
PROJECT NO: 2421.2
REVISION DATES

DOOR SCHEDULE / DOOR / WINDOW / FRAME ELEVATIONS / DETAILS
SHEET
A3.1



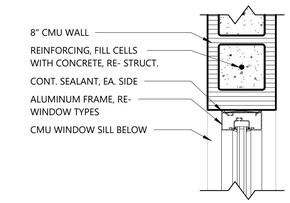
L9 Head Detail

1 1/2" = 1'-0" Ref: K9/ A3.1



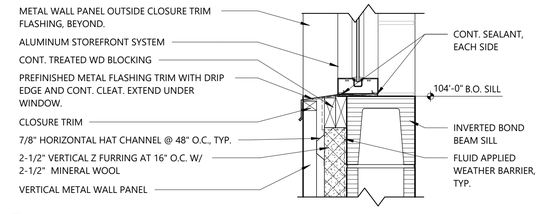
J12 Head Detail

1 1/2" = 1'-0" Ref: K9/ A3.1



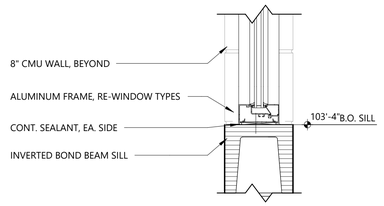
H9 Jamb Detail

1 1/2" = 1'-0"



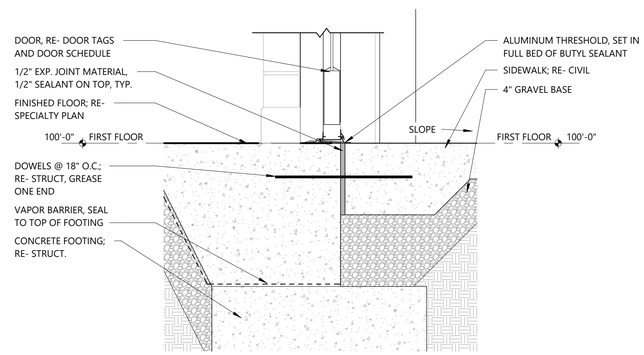
G12 Sill Detail

1 1/2" = 1'-0" Ref: K9/ A3.1



A9 Sill Detail

1 1/2" = 1'-0" Ref: K9/ A3.1



C12 Sill Detail

1 1/2" = 1'-0" Ref: G9/ A3.1

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9458
STATE OF ARKANSAS

HIGHT JACKSON ASSOCIATES P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR

BWHS - Locker Room Building

1359 Gamble Road, Centerton, AR 72719

DRAWN BY: BS

CHECK BY: TS

ISSUE DATE: 04/06/2026

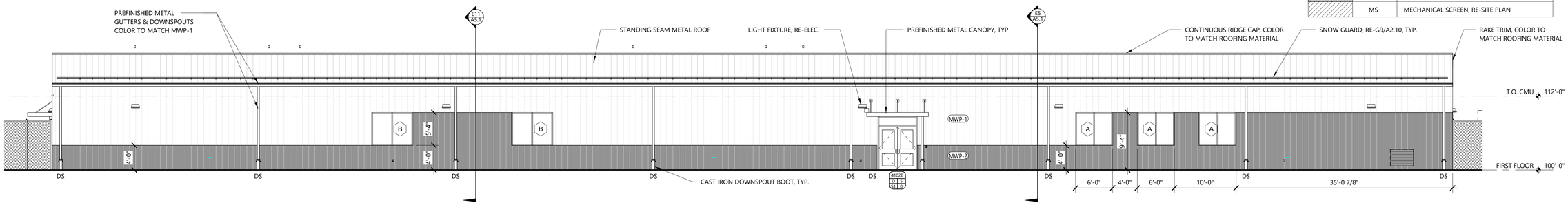
PROJECT NO.: 2421.2

REVISION DATES

DOOR/WINDOWS DETAILS

SHEET A3.2

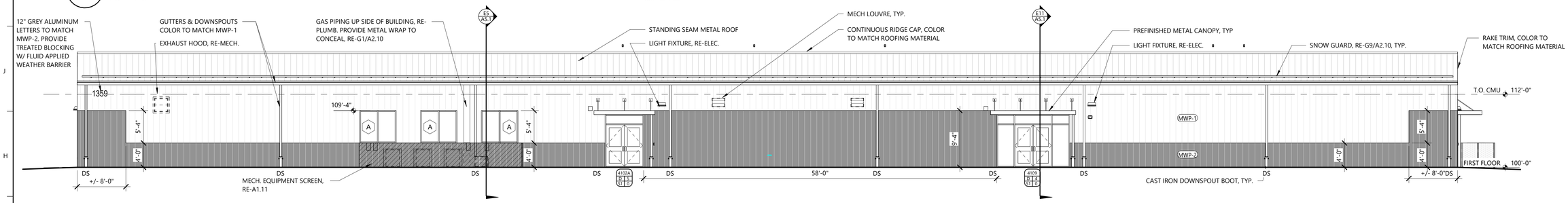
EXTERIOR MATERIALS SCHEDULE/LEGEND		
	MWP-1	METAL WALL PANELS - MORIN MX10 - WHITE
	MWP-2	METAL WALL PANELS - MORIN MX10 -ZINC GREY
	MS	MECHANICAL SCREEN, RE-SITE PLAN



K1 Building Elevation - West

1/8" = 1'-0"

Ref: A2/ A2.1

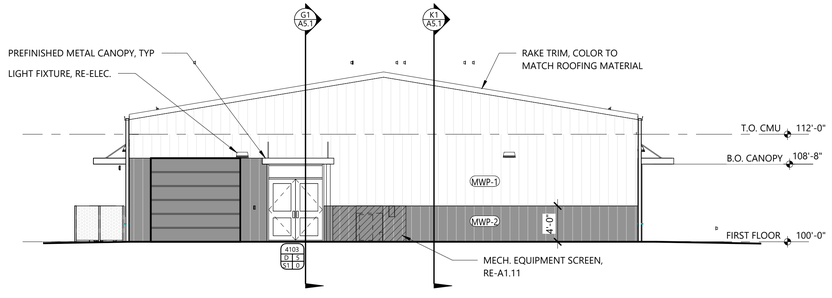


G1 Building Elevation - East

1/8" = 1'-0"

Ref: L12/ A1.11

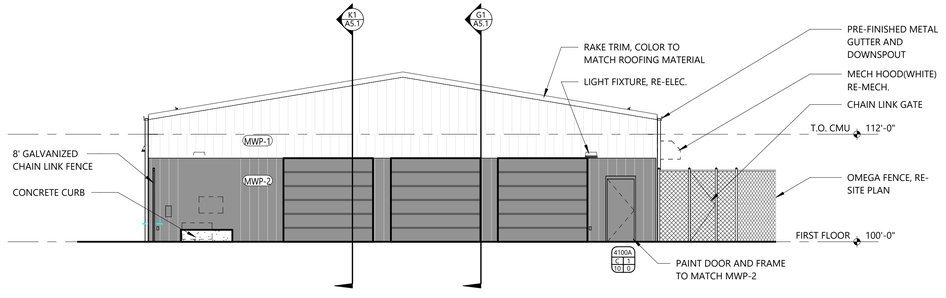
NOTE: REFERENCE SITE PLAN FOR MECHANICAL SCREENS



C4 Building Elevation - North

1/8" = 1'-0"

Ref: A2/ A2.1



C11 Building Elevation - South

1/8" = 1'-0"

Ref: A2/ A2.1

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9458
STATE OF ARKANSAS

HIGHT JACKSON ASSOCIATES P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR

BWHS - Locker Room Building

1359 Gamble Road, Centerton, AR 72719

DRAWN BY: BS

CHECK BY: TS

ISSUE DATE: 04/06/2026

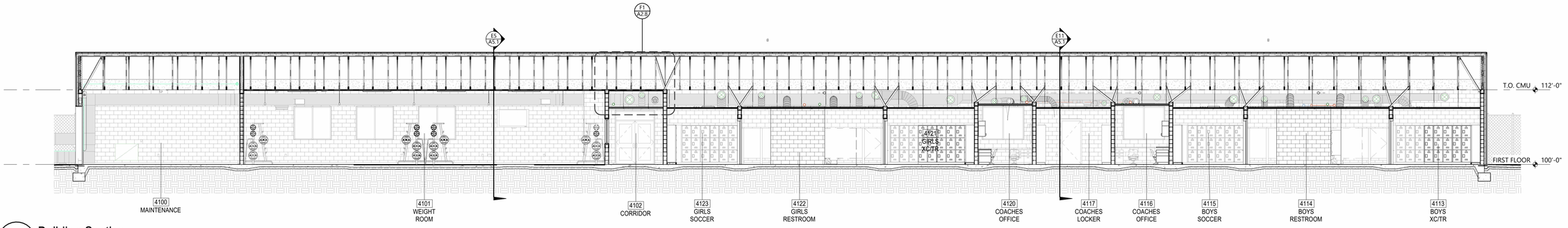
PROJECT NO: 2421.2

REVISION DATES

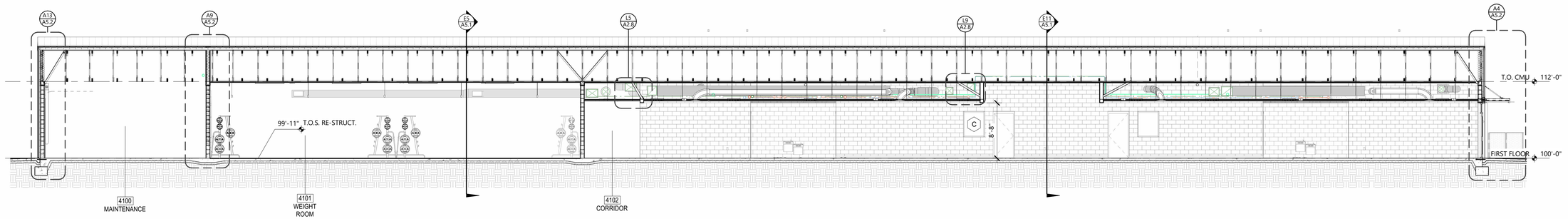
EXTERIOR ELEVATIONS

SHEET

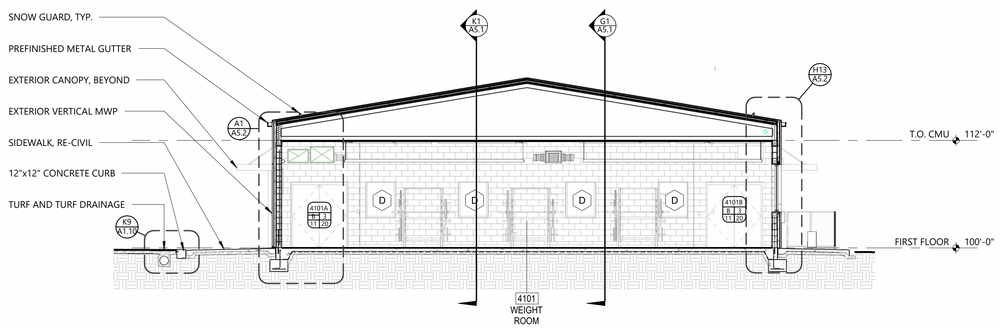
A4.1



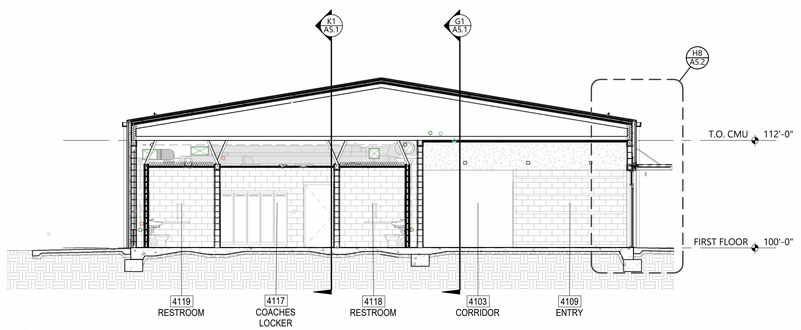
K1 **Building Section**
1/8" = 1'-0" Ref: A2/ A2.1



G1 **Building Section**
1/8" = 1'-0" Ref: A2/ A2.1



E5 **Building Section**
1/8" = 1'-0" Ref: A2/ A2.1



E11 **Building Section**
1/8" = 1'-0" Ref: A2/ A2.1

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9458
STATE OF ARKANSAS

HIGHT JACKSON ASSOCIATES, P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS

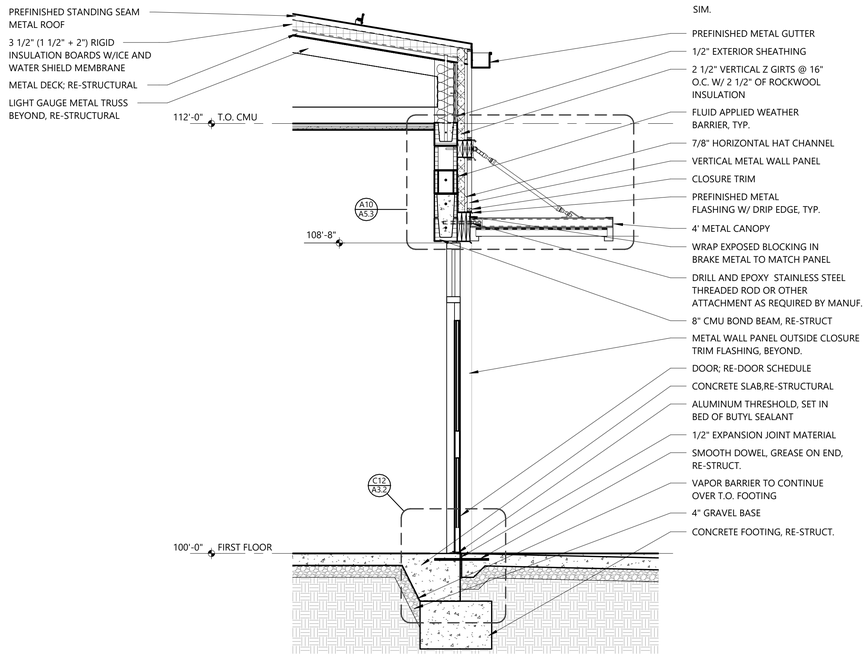
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

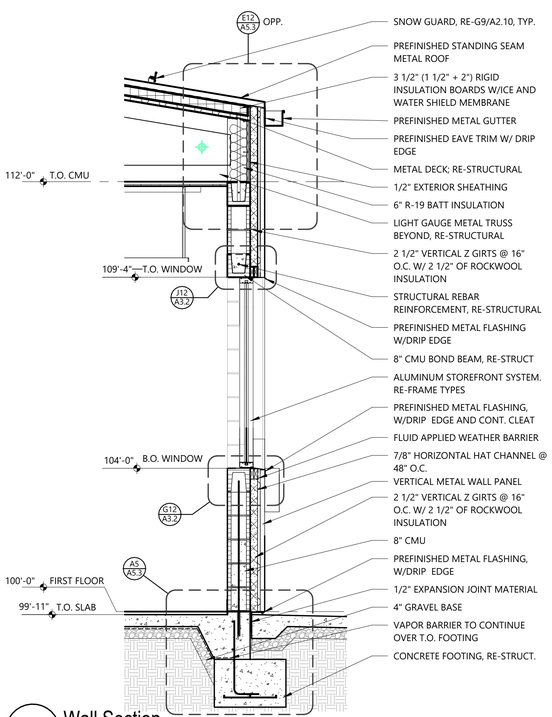
DRAWN BY: BS
CHECK BY: TS
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

BUILDING SECTIONS

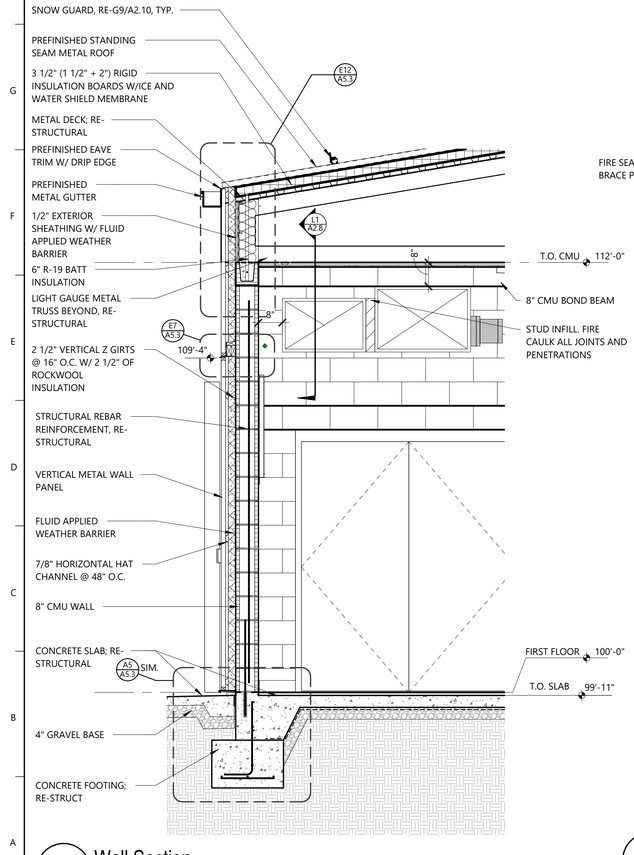
SHEET
A5.1



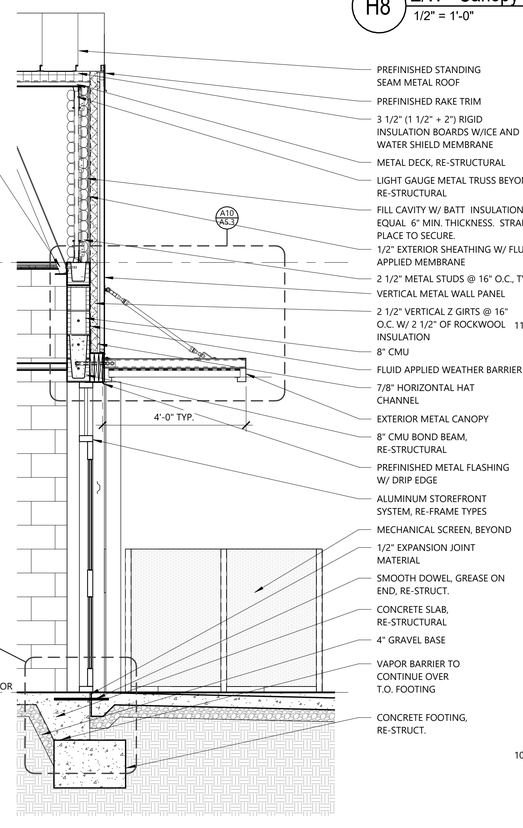
H8 E/W - Canopy
1/2" = 1'-0" Ref: E11/ A5.1



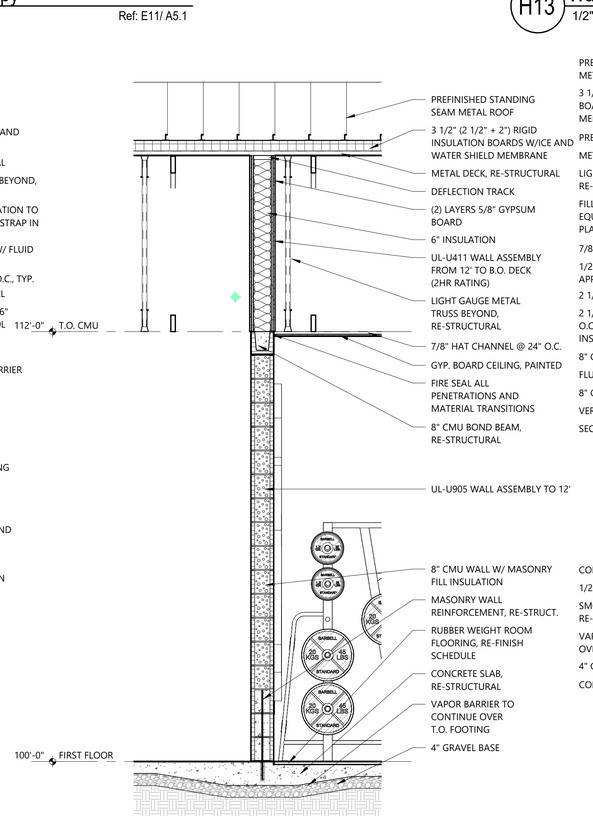
H13 Wall Section
1/2" = 1'-0" Ref: E5/ A5.1



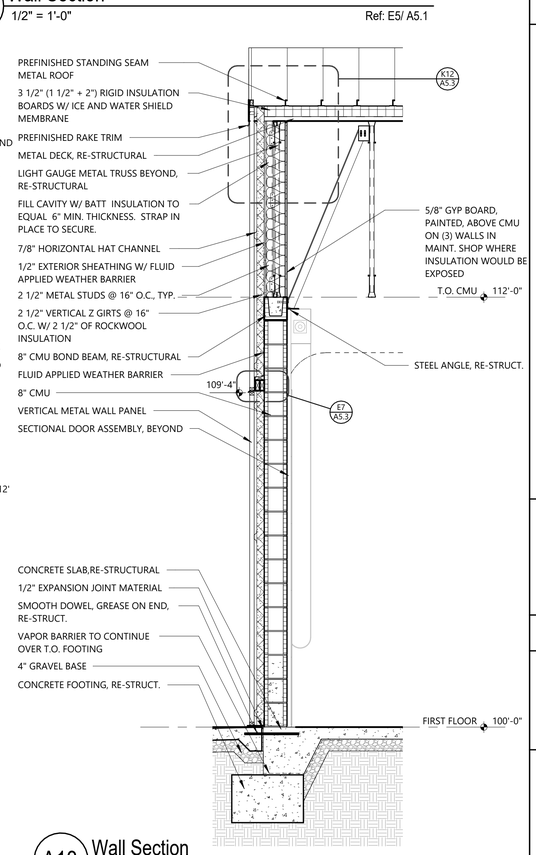
A1 Wall Section
1/2" = 1'-0" Ref: E5/ A5.1



A4 Wall Section
1/2" = 1'-0" Ref: G1/ A5.1



A9 Wall Section
1/2" = 1'-0" Ref: A2/ A2.1



A13 Wall Section
1/2" = 1'-0" Ref: G1/ A5.1

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 8488
STATE OF ARKANSAS

HIGHT JACKSON ASSOCIATES, P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS

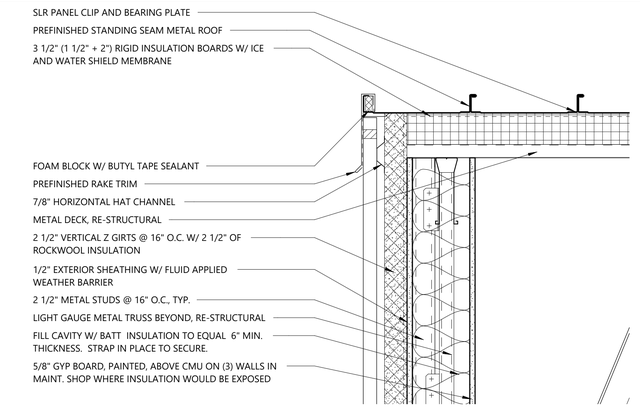
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 I Rogers, Arkansas 72758 I (479) 464-4965 I www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

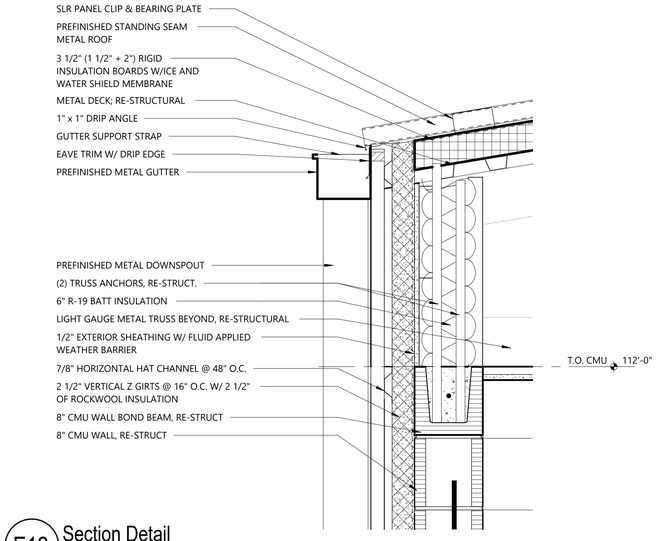
DRAWN BY: BS
CHECK BY: TS
ISSUE DATE: 04/06/2026
PROJECT NO: 2421.2
REVISION DATES

WALL SECTIONS

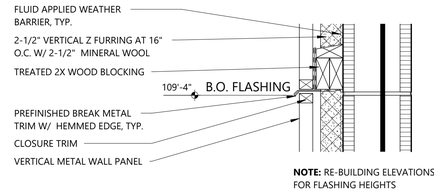
SHEET
A5.2



K12 **Section Detail**
1 1/2" = 1'-0" Ref: A1/ A2.10

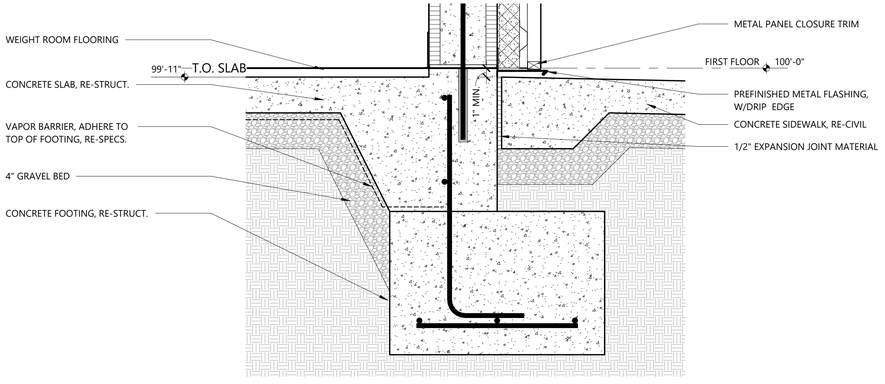


E12 **Section Detail**
1 1/2" = 1'-0" Ref: A1/ A2.10

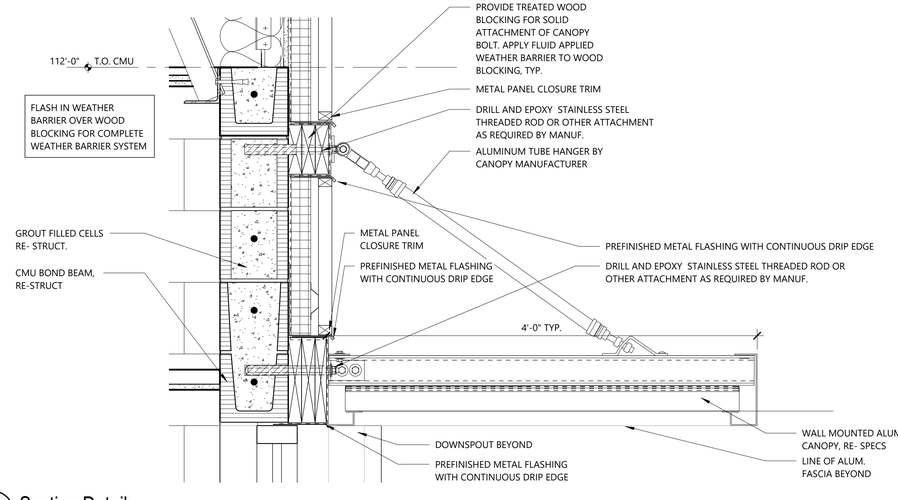


NOTE: RE-BUILDING ELEVATIONS FOR FLASHING HEIGHTS

E7 **MWP Transition - Section Detail**
1 1/2" = 1'-0" Ref: A1/ A5.2



A5 **Enlarged Detail**
1 1/2" = 1'-0" Ref: A1/ A5.2



A10 **Section Detail**
1 1/2" = 1'-0" Ref: A1/ A2.10

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9458
STATE OF ARKANSAS

HIGHT JACKSON ASSOCIATES P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS

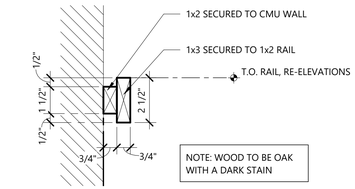
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: BS
CHECK BY: TS
ISSUE DATE: 04/06/2026
PROJECT NO: 2421.2
REVISION DATES:

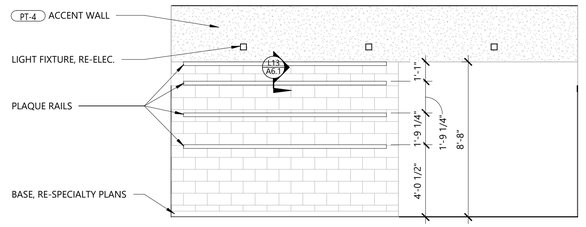
ENLARGED DETAILS

SHEET
A5.3



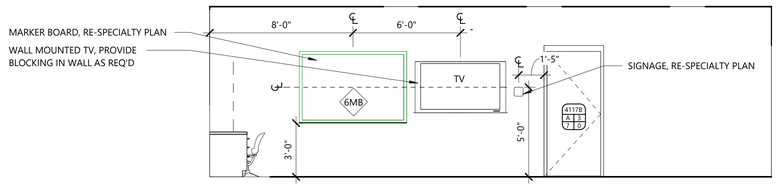
L13 Plaque Rail Section

3" = 1'-0" Ref: G9/ A2.8



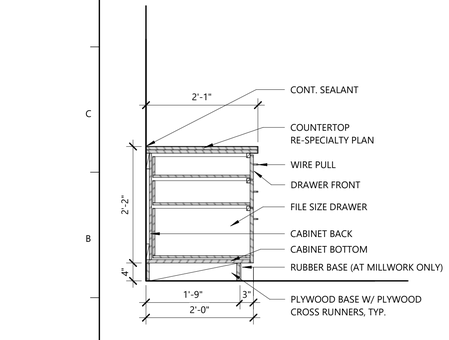
J13 Plaque Wall

1/4" = 1'-0" Ref: A1/ A2.3



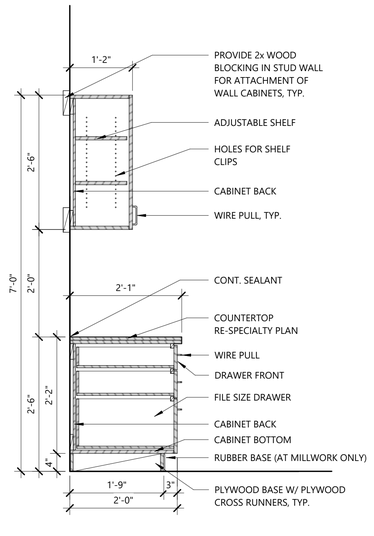
F13 Coaches Office - TV Wall

1/4" = 1'-0" Ref: A1/ A2.3



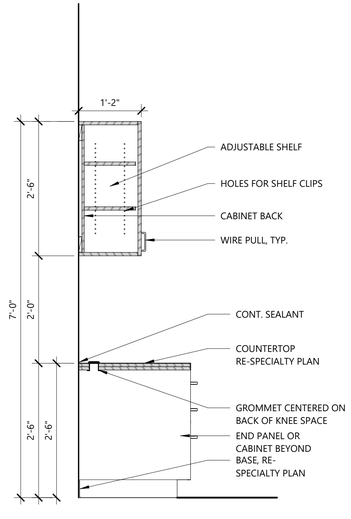
A1 Millwork Section

3/4" = 1'-0" Ref: D8/ A6.1



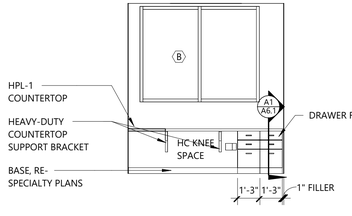
A3 Millwork Section

3/4" = 1'-0" Ref: D13/ A6.1



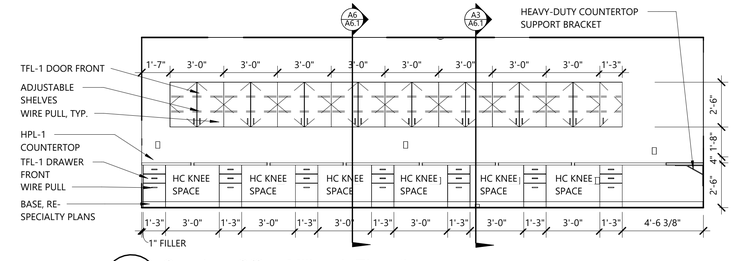
A6 Millwork Section

3/4" = 1'-0" Ref: D13/ A6.1



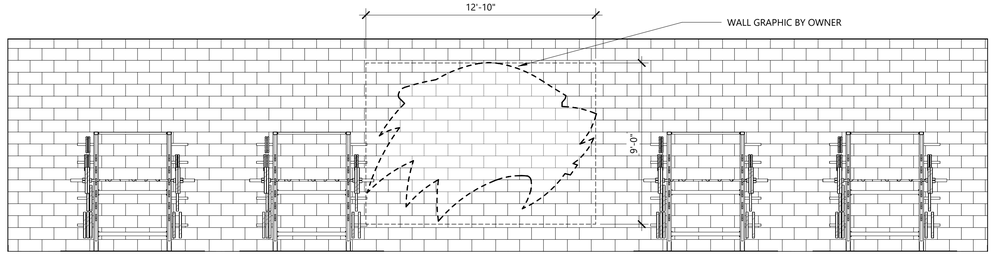
D8 Coaches Office Millwork Elevation

1/4" = 1'-0" Ref: A1/ A2.3



D13 Coaches Office Millwork Elevation

1/4" = 1'-0" Ref: A1/ A2.3



A9 Weight Room - South Wall

1/4" = 1'-0" Ref: A1/ A2.3

REGISTERED ARCHITECT
TIMOTHY L. SCHMIDT
LICENSE NO. 9458
STATE OF ARKANSAS
HIGHT JACKSON ASSOCIATES, P.A.
REGISTERED ARCHITECTS
Certificate C-349
ARKANSAS
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR

BWHS - Locker Room Building

1359 Gamble Road, Centerton, AR 72719

DRAWN BY: BS

CHECK BY: TS

ISSUE DATE: 04/06/2026

PROJECT NO: 2421.2

REVISION DATES

MILLWORK ELEVATIONS / DETAILS / INTERIOR ELEVATIONS

SHEET

A6.1

SPECIAL INSPECTIONS

1. Special Inspections shall be performed in accordance with Section 1705 of 2021 IBC. An independent testing agency shall be employed to provide Special Inspections during construction on the types of work listed under Section 1705. The following areas of work require Special Inspections in accordance with 2021 IBC.
2. Refer to project specification for additional quality control/quality assurance requirements.
3. Construction Manager/Contractor shall coordinate any additional Special Inspection requirements with the Owner and applicable building authorities.
4. **Special Inspections are not the responsibility of the Structural Engineer of Record.**
5. **Special Inspections shall be paid for directly by the Construction Manager.**
6. **Copies of all Special Inspections Reports shall be emailed to the SEOR Andrew Deschenes, P.E., (asd@tswstructural.com) or their designate within seven (7) calendar days of completing the individual inspection(s).**

STRUCTURAL STEEL

(IBC 1705.2.1, 1705.13.1 & 1705.14.1)

PRIOR TO WELDING (TABLE N5.4-1, AISC 360-16; TABLE J6-1, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verify welding procedures (WPS) and manufacturer certifications for welding consumable available	X	-----	-----
Verify type and grade of material.	-----	X	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Welder identification	-----	X	A system shall be maintained by which a welder who has welded a joint or member can be identified. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fit-up groove welds	-----	X	Verify joint preparation, dimensions, cleanliness, tacking, and backing. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Access holes	-----	X	Verify configuration and finish. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fit-up of fillet welds	-----	X	Verify dimensions, cleanliness, and tacking. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Check welding equipment	-----	X	-----
Welder qualification records and continuity records	-----	X	-----

DURING WELDING (TABLE N5.4-2, AISC 360-16; TABLE J6-2, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Use of qualified welders	-----	X	Verify that welders are appropriately qualified. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Control and handling of welding consumables	-----	X	Verify packaging and exposure control. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Cracked tack welds	-----	X	Verify welding does not occur over cracked tack welds. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Environmental conditions	-----	X	Verify wind speed within limits, precipitation and temperature. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
WPS followed	-----	X	Verify settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Welding techniques	-----	X	Verify interpass and final cleaning, each pass within profile limitations, and quality of each pass. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Steel headed stud anchors	-----	X	Verify placement and installation.

AFTER WELDING (TABLE N5.4-3, AISC 360-16; TABLE J6-3, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Welds cleaned	-----	X	Verify welds properly cleaned. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Size, length, and location of welds	X	-----	-----
Welds meet visual acceptance criteria	X	-----	Verify crack prohibition, weld/base metal fusion, crater cross section, weld profiles, weld size, undercut, and porosity meet visual acceptance criteria.
Arc strikes	X	-----	-----
k-area	X	-----	-----
Backing & weld tabs removed and finished, and fillet welds added (if required)	X	-----	-----
Repair activities	X	-----	-----
Document acceptance or rejection of welded joint/member	X	-----	-----
Placement of reinforcing or contouring fillet welds	X	-----	Only required in components of seismic force resisting system.
Weld access holes	-----	X	After rolled heavy shapes are welded, visually inspect the weld access hole for cracks.
Prohibited welds	X	-----	Verify no prohibited welds have been added without approval of the EOR.

OTHER STEEL INSPECTIONS (SECTION N5.7 & N5.8, AISC 360-16; TABLES J8-1 & J10-1, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Structural steel details (fabricated steel or steel frames)	N/A	N/A	Verify compliance with the details in construction documents in items including: braces, stiffeners, member locations, and proper application of joint details at each connection. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Anchor rods and other embedments supporting structural steel	N/A	N/A	Verify compliance with construction documents. Verify diameter, grade, type, length of anchor rod or embedded item, and extent or depth of embedment prior to placement of concrete. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Reduced beam sections (RBS)	N/A	N/A	For seismic force resisting system components: Verify contour and finish as well as dimensional tolerances.
Protected zones	N/A	N/A	For seismic force resisting system components: Verify that no holes or unapproved attachments are made within the protected zone.
H-piles	N/A	N/A	For seismic force resisting system components: Verify that no holes or unapproved attachments occur within the protected zones of piling.
Galvanized structural steel	-----	X	Verify exposed cut surfaces of galvanized structural steel main members and exposed corners of rectangular HSS have no cracks subsequent to galvanizing.

STRUCTURAL STEEL (CONT.)

(IBC 1705.2.1, 1705.13.1, & 1705.14.1)

PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-16; TABLE J7-1, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Manufacturer's certifications	X	-----	Verify certifications available for fastener materials.
Fasteners marked	-----	X	Verify marked in accordance with ASTM requirements. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fastener selection	-----	X	Verify proper selection for joint detail including grade, type, and bolt length if threads excluded from shear plane. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Bolting procedure	-----	X	Verify proper bolting procedure selected for joint detail. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Connecting surfaces	-----	X	Verify connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Pre-installation verification testing by installation personnel	X	-----	Observe and document for fastener assemblies and methods used.
Fastener storage	-----	X	Verify proper storage provided for bolts, nuts, washers, and other fastener components. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.

DURING BOLTING (TABLE N5.6-2, AISC 360-16; TABLE J7-2, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Position of fasteners	-----	X	Verify fastener assemblies, of suitable condition, are placed in all holes and washers, if required, are positioned as required. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Joint brought into snug-tight condition prior to the pretensioning operation	-----	X	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fastener components not turned by the wrench are prevented from rotating	-----	X	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Pretensioning of fasteners	-----	X	Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.

AFTER BOLTING (TABLE N5.6-3, AISC 360-16; TABLE J7-3, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Document acceptance or rejection of bolted connections	X	-----	-----

STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

(IBC 1705.2)

STEEL ROOF AND FLOOR DECKS (IBC TABLE 1705.2.2/SDI QA/QC 6.1)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Material verification of cold-formed steel deck	-----	X	Verify deck materials are represented by appropriate mill certifications.
Floor and roof deck welding	-----	X	Verify weld meets acceptance criteria of AWS D.3. Verify welder qualifications.
Floor and deck mechanical fasteners	-----	X	Verify fastener installation in accordance with SDI.
Deck installation	-----	X	Verify deck installation in accordance with applicable drawings and documents.

COLD-FORMED STEEL CONSTRUCTION (IBC 1705.2.2, 1705.2.4, 1705.12.2, & 1705.13.3)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Trusses spanning > 60-feet	N/A	N/A	Verify temporary and permanent truss bracing is installed in accordance with approved truss package.
Welding in wind-force-resisting systems or seismic-force-resisting systems	-----	X	Verify proper screw attachment, bolting, anchoring and other fastening of shear walls, diaphragms, drag struts, braces, shear panels and holdowns. See IBC 1705.12.2 for exceptions.
Floor and roof deck welds	-----	X	Verify weld meets acceptance criteria of SDI QA/QC. Verify welder qualifications.

CONCRETE CONSTRUCTION

(IBC 1705.3; TABLES J9-2 & J9-3, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Reinforcing steel, including prestressing tendons	-----	X	Verify, prior to placing concrete, reinforcing is of specified type, grade and size; free of oil, dirt and rust; located and spaced properly; hooks, bends, ties, stirrups and supplemental reinforcement placed correctly; lap lengths, stagger and offsets provided; and all mechanical connections installed per the manufacturer's instructions and/or evaluation report.
Cast-in anchors	-----	X	Verify anchor installation complies with ACI 318: 17.8.2.
Post-installed anchors	-----	X	All post-installed anchors shall be specially inspected as required by the approved ICC-ES report. Anchors installed horizontally or in upwardly inclined orientations to resist tension loads require continuous inspection per ACI 318:17.8.2.4. Verify all other mechanical and adhesive anchors comply with ACI 318: 17.8.2.
Use of required mix design	-----	X	Verify mixes comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3, 26.4.4 and IBC 1904.1, 1904.2.
Concrete sampling for strength tests, slump, air content, and temperature	X	-----	Verify sampling in accordance with ASTM C172 and ASTM C31. See ACI 318: 26.12 for evaluation and acceptance of concrete. See ACI 318: 26.5 for mixing requirements of concrete.
Concrete & shotcrete placement	X	-----	Verify proper application techniques. See ACI 318: 26.5.
Curing temperature and techniques	-----	X	Verify concrete surface temperature (other than high-early-strength) is kept >50°F in moist condition for at least 7 days after placement unless accelerated curing is used. High-early-strength concrete shall be kept >50°F in moist condition for at least 3 days unless accelerated curing is used. Verify compliance with cold weather requirements in ACI 318: 26.5.4 or hot weather requirements in ACI 318: 26.5.5, whichever is applicable.
Pre-stressed concrete	N/A	N/A	Verify application of prestressing force and grouting of bonded prestressing tendons in accordance with ACI 318: 26.10.
Erection of precast concrete	N/A	N/A	Verify all precast elements are lifted, assembled and braced in accordance with the approved construction documents. See ACI 318: 26.9.
Strength verification	-----	X	Verify adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons. See ACI 318: 26.11.2.
Formwork	-----	X	Verify forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents. See ACI 318: 26.11.1.2.
Limits on water added at the truck or pump	-----	X	Verify during concrete placement. Applicable to composite construction in seismic force resisting system components. Perform on a random daily basis per AISC 341-16 Section J5.1. See Table J9-2, AISC 341-16.
Proper placement techniques to limit segregation	-----	X	Verify during concrete placement. Applicable to composite construction in seismic force resisting system components. Perform on a random daily basis per AISC 341-16 Section J5.1. See Table J9-2, AISC 341-16.
Verify installation of the embedded parts, completion of the continuity of reinforcement across joints, and completion of connections in the field	X	-----	For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to seismic design category C, D, E, or F. See ACI 318:26.13.1.3 and ACI 550.5.
Verify installation tolerances of precast concrete diaphragm connections	N/A	N/A	See ACI 550.5 for compliance.

INSPECTION OF FABRICATORS

(IBC 1704.2)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verify fabricator maintains detailed fabrication and quality control procedures	-----	X	See IBC 1704.2.5.1.
Submittal of certificate of compliance	-----	X	Where work is done on premises of "Approved" fabricator. Fabricator shall submit a Certificate of Compliance to the building official stating work was performed in accordance with the approved construction documents. See IBC 1704.2.5.1.

SOILS CONSTRUCTION

(IBC 1705.6)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verify subgrade is adequate to achieve design bearing capacity	-----	X	Prior to placement of concrete; per Geotechnical Report.
Verify excavations extend to proper depth and material	-----	X	Prior to placement of compacted fill or concrete; per Geotechnical Report
Verify subgrade has been appropriately prepared prior to placing compacted fill	-----	X	Prior to placement of compacted fill; per Geotechnical Report
Perform classification and testing of compacted fill materials	-----	X	All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000 sq ft. of surface area unless otherwise noted; per Geotechnical Report
Verify proper materials, densities and lift thicknesses	X	-----	During placement and compaction on compacted fill; per Geotechnical Report

MASONRY CONSTRUCTION

(IBC 1705.4)

PRIOR TO CONSTRUCTION (ARTICLE 1.5, TMS 602-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Review material certificates, mix designs, test results and construction procedures	-----	X	Verify materials conform to requirements of approved construction documents. Mix design, test results, material certificates, and construction procedures submitted for review. Mortar mix designs conform to ASTM C 270; grout conforms to ASTM C 476. Material certificates provided for: reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction reviewed. Qualification of field testing personnel, and special inspector reviewed.

AS CONSTRUCTION BEGINS (TABLE 4, TMS 602-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Proportions of site-prepared mortar	-----	X	Verify mortar is type and color specified on construction documents, conforms to ASTM C 270, and is mixed in accordance with Article 2.6 A and Article 2.6 C of TMS 602-16.
Grade, type, and size of reinforcement, connectors, anchor bolts, and prestressing tendons and anchorages	-----	X	Verify reinforcement is placed in accordance with Article 3.4 of TMS-602-16. Prestressing tendons placed per Article 3.6 A.
Sample panel construction	-----	X	Verify sample panel complies with Article 1.6 D of TMS-602-16.

DURING MASONRY CONSTRUCTION (TABLE 4, TMS 602-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Size and location of structural elements	-----	X	Verify locations of structural elements comply with approved plans. Confirm tolerances meet the requirements of Article 3.3 F of TMS 602-16.
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	-----	X	Verify anchorages and connections are provided per approved plans, Section 1.2.1(e), 6.1.4.3, and 6.2.1 of TMS 402-16. Continuous inspection required for Risk Category IV buildings.
Welding of reinforcement	N/A	N/A	Verify welded splice has bars butted and welded to develop at least 125% of yield strength of bar in tension or compression. See Section 6.1.6.1.2 of TMS 402-16.
Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F).	-----	X	Verify cold-weather construction performed in accordance with Article 1.8 C of TMS 602-16 and hot weather construction per Article 1.8 D of TMS 602-16.
Observation of preparation of grout specimens, mortar specimens, and/or prisms	-----	X	Confirm specimen/prism preparation performed as required by Article 1.4 of TMS 602-16. Continuous inspection is required for Risk Category IV buildings.
Placement of masonry unit and construction of mortar joints	-----	X	Verify placement in accordance with Article 3.3 B of TMS 602-16.
Materials and procedures with the approved submittals	-----	X	Verify materials and procedures conform to approved submittals. See Article 1.5 of TMS 602-16.

PRIOR TO GROUTING (TABLE 4, TMS 602-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Grout space	-----	X	Verify grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and cleanouts are provided per Article 3.2 D and 3.2 F of TMS-602-16. Continuous inspection is required for Risk Category IV buildings.
Placement of reinforcement, connectors, and anchor bolts	-----	X	Verify reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors are installed in accordance with the approved construction documents, Section 6.1, 6.3.1, 6.3.6, and 6.3.7 of TMS 402-16, and Articles 3.2 E, and 3.4 of TMS 602-16. Continuous inspection is required for Risk Category IV buildings.
Proportions of site-prepared grout.	-----	X	Verify grout is proportioned per ASTM C 476 and has a slump between 8-11 inches. Self-consolidated grout shall not be proportioned onsite. See Article 2.6 B of TMS 602-16.

MINIMUM TESTING (TABLE 3, TMS 602-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verification of slump flow and Visual Stability Index (VSI) for self-consolidating grout	-----	X	Compressive strength tests should be performed in accordance with ASTM C 1019; slump flow and VSI performed in accordance with ASTM C 1611.
Verification of f'm and f'AAC	-----	X	Determine compressive strength for each wythe by "unit strength method" or by the "prism test method" as specified in Article 1.4 B of TMS 602-16 prior to construction. For Risk Category IV buildings this should be verified at every 5,000 sq. ft. of construction.
Verification of proportions of materials in grout and premixed or preblended mortar	-----	X	Verify that proportions for mortar meet ASTM C 270 and proportions for grout meet ASTM C 476. This applies to Risk Category IV buildings only.

STATE OF ARKANSAS
PROFESSIONAL ENGINEER
ANDREW S. DESCHENES
No. 22080
04.06.2026

CERTIFICATE OF AUTHORIZATION
Tatum Smith Welcher Engineers, Inc
No. 218

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: TMW
CHECK BY: ASD
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES:

REQUIRED IBC SPECIAL INSPECTIONS
SHEET
S1.0

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 26004 PM: ASD DE: BWA

CONSTRUCTION SAFETY GENERAL NOTE

THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TEMPORARY SHORING/BRACING, OR FOR SAFETY PRECAUTIONS AND PROGRAMS, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

Concrete General Notes 3100:

1. All detailing, fabrication and placing of reinforcing steel shall conform to the ACI Standard "Details and Detailing of Concrete Reinforcement" (ACI 315).
2. Concrete at slab-on-grade shall develop a 28-day minimum compressive strength of 3,500 psi. Follow normal mixing time and speed as recommended by ASTM C94.
3. All concrete at footings shall typically develop a 28-day minimum compressive strength of 3,000 psi.
4. All concrete for footings and slab-on-grade shall have a 5" maximum slump.
5. All reinforcing steel shall be deformed bars conforming to ASTM A615, Grade 60.
6. All reinforcing bar splices shall be 44 bar diameters for #6 and smaller diameter bars. Reinforcing bar splices shall be 48 bar diameters for #7 and larger bar diameters.
7. All reinforcing bar hooks shall be ACI standard 90 degree hook, unless noted otherwise.
8. Provide two #4 x 4'-0" long diagonal bars centered in slab, at all re-entrant corners and any other locations designated on the plans.
9. Provide corner bars in footings and turn-down slab same size and spacing as longitudinal reinforcing.
10. Provide (1) #4 hoop with 8" lap in slab-on-grade around floor drains, columns and all slab penetrations 3" in diameter or greater. Also install around electrical conduit groupings 3" in diameter or greater.
11. Limit the width of conduit groups to 3'-0" as they pass under wall footings. As much as possible, align the conduit perpendicular to the footing as it passes under the footing. Provide a minimum spacing of 2'-0" between conduit groups as the conduit passes under a footing. **Do not extend conduits under column footings or spread footings.**
12. Plate dowel system shall be Diamond Dowel System by PNA Construction Technologies, the Speed Plate System by SIKA Corp. or approved equal. Install plate dowels at slab construction joints at 18" o.c.
13. Welded wire fabric shall conform to ASTM A1064. Provide mesh in flat sheets.
14. Wire fabric reinforcing shall lap 6" and be securely wired at each side and end.
15. Smooth dowels shall be steel conforming to ASTM A36.
16. All slots, sleeves and other embedded items shall be set before concrete is placed. See Architectural, Electrical, Mechanical, and Vendor's drawings for size and locations.
17. Bar supports at footings and slab-on-grade shall be factory made wire bar supports, type "SBU" linear supports.
18. Epoxy for doweling reinforcement shall be HY-200 by Hilti, AT 3G by Simpson Strong-Tie or AC200+ by Dewalt, unless noted otherwise.
19. Maximum net allowable bearing pressure = 2,000 psf for continuous footings and 2,500 psf for isolated spread footings. Footings shall bear on natural, stiff to very stiff, sandy clean clay and sandy clay soils as described in the Soils Report No. A25186.00135.000 dated January 26th, 2026.
20. Use of compacted, free-draining pea gravel, crushed stone, or coarse sand underneath the building slab is recommended by TSW, Inc. Consult Geotechnical Engineer regarding potential substitution of free-draining coarse materials with approved subgrade. Slabs-On-Grade have been designed for a modulus of subgrade reaction (k-value) of 100 psi/in.

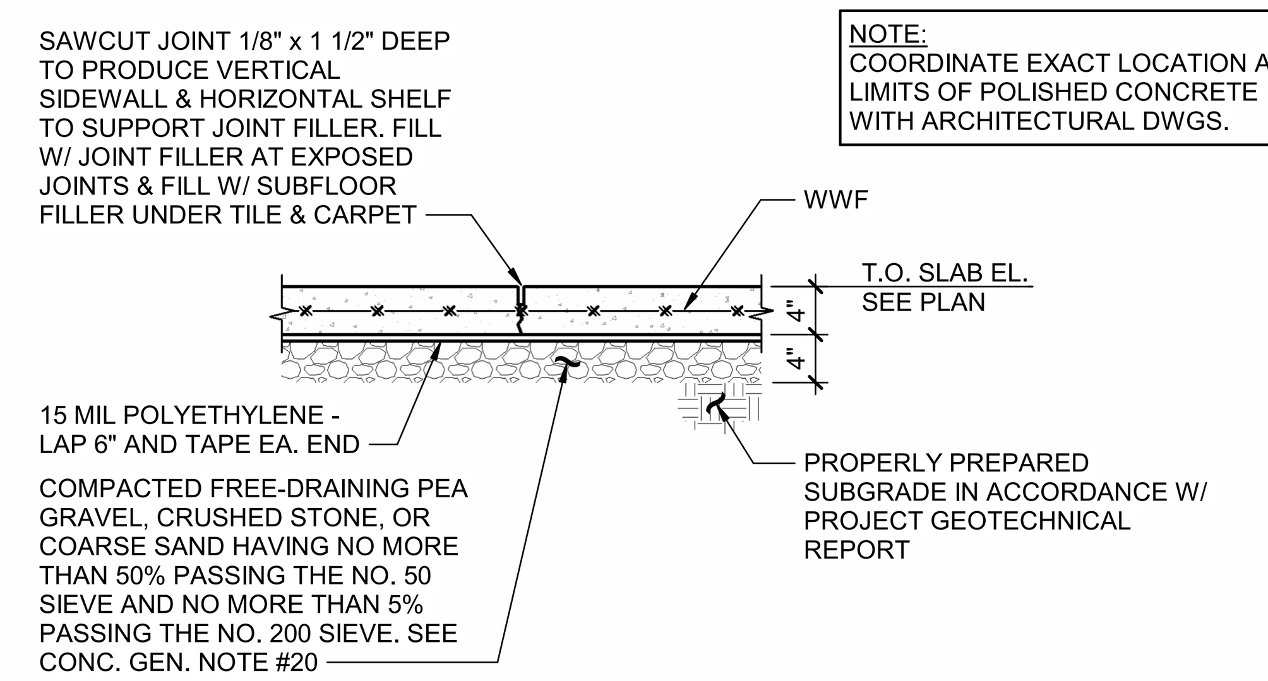
NOTE:
EXPANSIVE CLAYS, LOW-STRENGTH SOILS, SOFT SOILS AND SOILS WITH ORGANIC MATERIAL ARE NOT SUITABLE IN SUPPORTING THE SLAB AND FOUNDATIONS. IF CONTRACTOR DISCOVERS UNSTABLE MATERIAL DURING EARTHWORK, A GEOTECHNICAL ENGINEER SHALL BE CONSULTED IN ORDER TO ARRIVE AT A SOLUTION THAT WILL NOT COMPROMISE THE STRUCTURAL INTEGRITY OF THE SLAB AND FOUNDATIONS.

Concrete Masonry General Notes 4100:

1. All concrete masonry units shall be lightweight above finished floor and normal weight below grade. All hollow concrete masonry units shall conform to ASTM C90, Grade N, Type 1 with a minimum ultimate compressive prism strength (f'm) of 2,000 psi for the masonry assemblage. All concrete masonry shall be laid in Running (Common) Bond.
2. Mortar at exterior walls, all load-bearing walls, walls below grade and non-load-bearing walls higher than 20'-0" shall be Type S mortar and have a minimum compressive strength of 1,800 psi. Mortar at interior non-load-bearing walls not higher than 20'-0" and mortar at masonry veneer shall be Type N mortar and have a minimum compressive strength of 750 psi. All mortar shall conform to ASTM C270. **Masonry cement shall not be used for mortar.**
3. All grout shall be ready-mix concrete, with 3/8" diameter max. aggregate, have a minimum 28-day compressive strength of 2,000 psi and a design slump between 8" to 10" or preblended product (Core Fill Grout, Coarse CF-02, by Spec Mix) with a minimum 28-day compressive strength of 2,000 psi and a design slump between 8" to 10".
4. All 8" CMU bond beam units shall be reinforced with one bar. See Masonry Wall Reinforcement Schedule on Drawing S3.0 for size of bars for vertical wall reinforcement and bond beam requirements. Provide corner bars and lap bond beam reinforcing 48 bar diameters.
5. All reinforcing steel shall be deformed bars conforming to ASTM A615, Grade 60.
6. All bolts, anchors, reinforcement and embedded items shall be grouted in place.
7. All reinforcing bar splices shall be 48 bar diameters, U.N.O.
8. At all 8" CMU walls except at interior non-load bearing walls, provide (1) vertical bar each cell for the first (2) cells adjacent to control joints in walls, at ends of walls, wall corners and on each side of wall openings, unless noted otherwise. Vertical bars shall match reinforcement for remainder of wall. See Masonry Wall Reinforcement Schedule on Drawing S3.0 for size of reinforcement.
9. Provide control joints in CMU walls where shown on Drawing S3.0 Place joints for CMU walls max. 24'-0" o.c.
10. Provide horizontal joint reinforcement at 16" o.c. Reinforcement shall be ladder design, min. 9 gage welded steel wire, hot dipped galvanized to 1.5 oz. width shall be 1 1/2" less than wall thickness.

NOTE:
ARCHITECT MUST APPROVE USE OF CONTROL AND CONSTRUCTION JOINTS BEFORE SLAB CONSTRUCTION BEGINS. TYPICAL SLAB CJ SHALL BE CONSTRUCTION JOINT DETAIL.

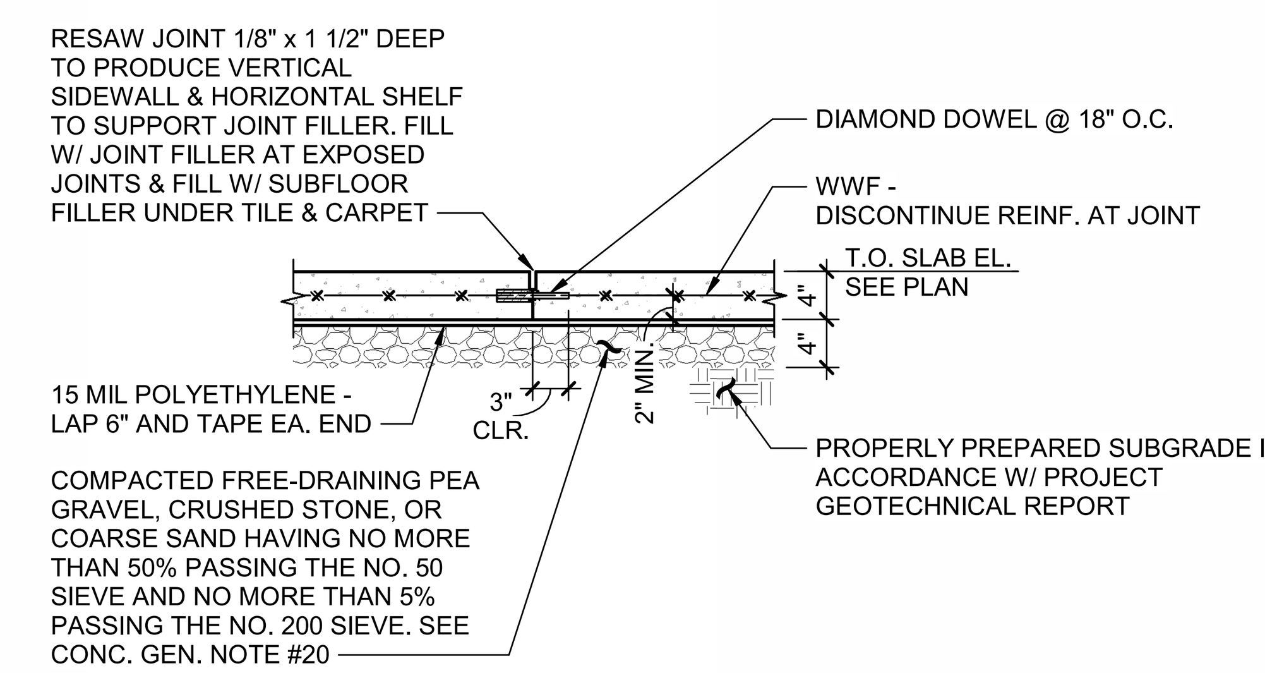
NOTE:
COORDINATE EXACT LOCATION AND LIMITS OF POLISHED CONCRETE WITH ARCHITECTURAL DWGS.



1 TYP. SLAB-ON-GRADE CONTROL JT. DTL. (CJ)

NOT TO SCALE

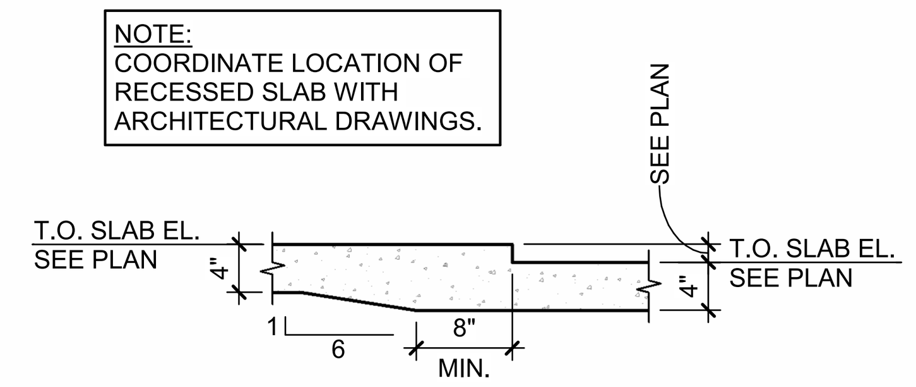
NOTE:
PROVIDE DIAMOND DOWEL SYSTEM AS MANUFACTURED BY PNA CONSTRUCTION TECHNOLOGIES OR THE SPEED SYSTEM BY SIKA CORPORATION AT CONSTRUCTION JOINTS IN ALL FLOOR AREAS. COORDINATE WITH ARCHITECT FOR CONSTRUCTION JOINT LOCATIONS.



2 TYP. SLAB-ON-GRADE CONSTRUCTION JT. DTL. (CJ)

NOT TO SCALE

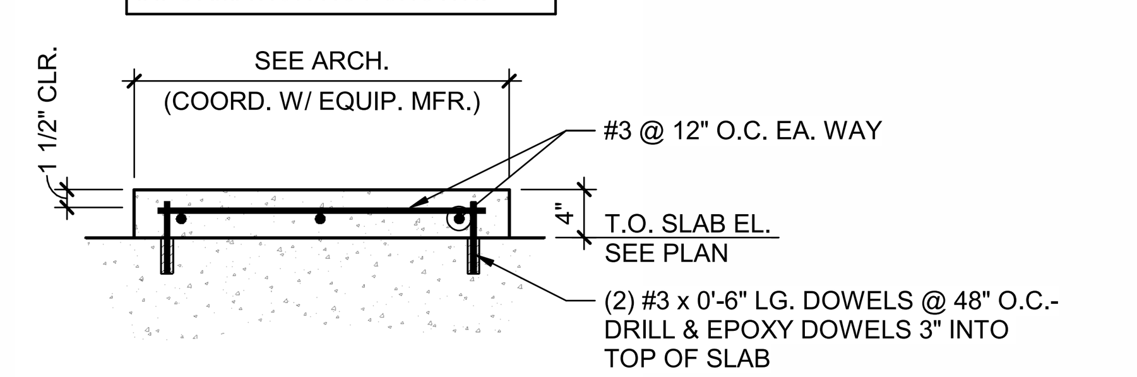
NOTE:
COORDINATE LOCATION OF RECESSED SLAB WITH ARCHITECTURAL DRAWINGS.



3 TYP. RECESSED SLAB

NOT TO SCALE

NOTE:
SEE FOUNDATION DETAILS FOR INFORMATION NOT SHOWN.



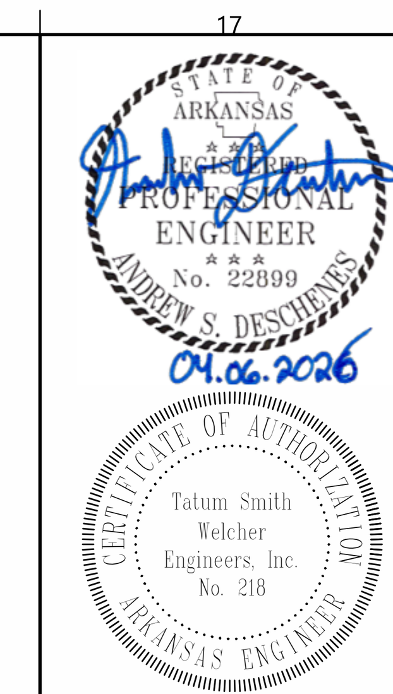
4 TYP. LOCKER PAD FOUNDATION

3/4" = 1'-0"

TYPICAL STRUCTURAL ABBREVIATIONS

A.R.	ANCHOR ROD	FDN	FOUNDATION	PED	PEDESTAL
ACI	AMERICAN CONCRETE INSTITUTE	FIN	FINISH	PL	PLATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FLR	FLOOR	PLF	POUNDS PER FOOT
ARCH	ARCHITECT	FTG	FOOTING	PROJ	PROJECTION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GA	GAUGE	PSF	POUNDS PER SQUARE FOOT
BLDG	BUILDING	GALV	GALVANIZED	PSI	POUNDS PER SQUARE INCH
BM	BEAM	H.S.A.	HEADED STUD ANCHOR	R	RADIUS
BOTT	BOTTOM	HK	HOOK	REINF	REINFORCEMENT
BRG	BEARING	HORIZ	HORIZONTAL	REQ'D	REQUIRED
BTWN	BETWEEN	J.B.E.	JOIST BEARING ELEVATION	RTU	ROOF TOP UNIT
CFS	COLD-FORMED STEEL	JST	JOIST	S.O.G.	SLAB ON GRADE
CL	CENTER LINE	JT	JOINT	SCHED	SCHEDULE
CLR	CLEAR	L	ANGLE	SECT	SECTION
COL.	COLUMN	LDH	LONG DIMENSION HORIZONTAL	SEOR	STRUCTURAL ENGINEER OF RECORD
CONC	CONCRETE	LDV	LONG DIMENSION VERTICAL	SIM	SIMILAR
CONN	CONNECTION	LG	LONG	SJI	STEEL JOIST INSTITUTE
CONT	CONTINUOUS	LLH	LONG LENGTH HORIZONTAL	SPA	SPACING
DEFL.	DEFLECTION	LLV	LONG LENGTH VERTICAL	SPECS	SPECIFICATIONS
DIA, or Ø	DIAMETER	LONG	LONGITUDINAL	STD	STANDARD
DIM	DIMENSION	MAX	MAXIMUM	STIFF	STIFFENER
DN	DOWN	MBM	METAL BUILDING MANUFACTURER	STL	STEEL
do	DITTO	MECH	MECHANICAL	TOC	TOP OF CONCRETE
DTL	DETAIL	MFR	MANUFACTURER	TOF	TOP OF FOOTING
DWG	DRAWING	MIN	MINIMUM	TOS	TOP OF STEEL
E.F.	EACH FACE	MISC	MISCELLANEOUS	TOTB	TOP OF TIE BEAM
E.W.	EACH WAY	MTL	METAL	TOW	TOP OF WALL
EA	EACH	N.S.	NEAR SIDE	TRANS	TRANSVERSE
EL	ELEVATION	O.C.	ON CENTER	TYP	TYPICAL
EQ	EQUAL	O.F.	OUTSIDE FACE	U.N.O.	UNLESS NOTED OTHERWISE
EXIST	EXISTING	OPNG	OPENING	VERT	VERTICAL
EXP	EXPANSION	P.A.F.	POWDERED ACTUATED FASTENER	W/	WITH
F.S.	FAR SIDE			WP	WORK POINT
F.V.	FIELD VERIFY			WWF	WELDED WIRE FABRIC

4/6/2026 8:53:37 AM
C:\Users\asd\Documents\26004 - BWHS Arts & Athletics Addition - Locker - Bentonville, AR_STRUCT_R25_ASDMTXR7.rvt



HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY.
TMW

CHECK BY.
ASD

ISSUE DATE
04/06/2026

PROJECT NO.
2421.2

REVISION DATES

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 26004 PM: ASD DE: BWA

FOUNDATION GENERAL NOTES & TYP. DETAILS

SHEET

S1.1

Structural Steel General Notes 5100:

1. All detailing, fabrication and erection of structural steel shall conform to the requirements of the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings.
2. Wide flanges and WT tees shall conform to ASTM A992 with a yield strength of 50 ksi.
3. Headed stud anchors (H.S.A.'s) shall conform to ASTM A108.
4. All other structural steel shall conform to the requirements of ASTM A36. Angle, plate and beam lintels at exterior wall openings shall be hot-dipped galvanized.
5. All welding shall conform to the Specifications of the American Welding Society. Welding electrodes shall be E-70 low hydrogen series. Welding shall be done by a certified welder.
6. High strength bolts shall typically be 3/4" diameter bolts conforming to ASTM A325. Connections shall be designed as bearing type with threads in shear plane. Holes shall be 1/16" larger than bolt size. See details for connections with 1" diameter bolts.
7. All bolts shall be tightened to a snug-tight condition. A snug tight condition is defined as the tightness attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench. All connected elements must be brought into snug contact.
8. No openings shall be cut in structural members unless shown on the drawings.
9. Steel frame is non-self-supporting and is designed for a completed condition only. Metal roof deck and masonry shear walls are required to provide lateral stability for the frame and resistance to wind and seismic forces. Contractor shall provide all temporary bracing required to maintain stability of structural system.
10. All exposed edges of plates, beams, etc., shall be shop ground smooth and uniform.
11. 1/2"Ø sleeve anchors shall be 1/2"Ø x 4" long HLC-H Sleeve Anchor by Hilti. HLC-H Sleeve Anchor shall be carbon steel with zinc plating & have a 3" embedment depth.
12. 1/2"Ø expansion bolts shall be 1/2"Ø x 5 1/2" long Kwik Bolt 3 by Hilti. Expansion Anchor shall be carbon steel with zinc plating & have a 3 1/2" embedment depth.
13. 3/4"Ø expansion bolts shall be 3/4"Ø x 5 1/2" long Kwik Bolt 3 by Hilti. Expansion Anchor shall be carbon steel with zinc plating & have a 4 3/4" embedment depth.

GENERAL CONTRACTOR SHALL INCLUDE 1 TON AT A MINIMUM COST OF $10,000/ TON OF MISCELLANEOUS STEEL BEAMS, CHANNELS AND ANGLES IN ADDITION TO THE FRAMING SHOWN ON THE PLANS AND DETAILS. GENERAL CONTRACTOR SHALL INCLUDE ERECTION, FABRICATION, DESIGN AND DETAILING COSTS FOR THIS ADDITIONAL FRAMING WITH THE BASE BID. THE USE OF MISCELLANEOUS STEEL IS TO BE RECORDED BY THE GENERAL CONTRACTOR AND ANY UNUSED AMOUNT IS TO BE CREDITED TO THE OWNER.

Steel Deck General Notes 5300:

1. Typical roof deck shall be 1 1/2" deep, 22 gauge, wide rib type and shall have nested side laps (Vulcraft 1.5B22, New Millennium 1.5B22 or approved equal). See Roof Framing Plans for limits of roof deck.
2. Roof deck shall be welded to the steel framing per the Roof Deck Fastening Pattern Detail 1/S1.2.
3. Roof deck fastening pattern has been designed for a net wind uplift of 23.7 psf at corner zones, 18.9 psf at side zones and 6.8 psf at interior zones for roofs.
4. All deck shall be fastened per Steel Deck Institute (SDI) requirements.
5. Deck specified has been determined on basis of 3 span condition; deck supplier shall use heavier gauge if required for one and two span conditions.

Light Gauge Steel General Notes 5400:

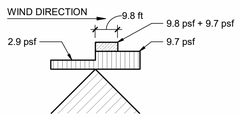
1. All structural studs and headers shall be of the type, size, gauge and spacing as shown on the drawings.
2. All framing members shall be formed from steel, corresponding to the requirements of ASTM C955.
3. Steel for framing members shall have a minimum yield strength of 33 ksi for 43 mil. thickness or less and 50 ksi for 54 mil. or greater.
4. Exterior studs shall be constructed with the following, unless noted otherwise.
   - 6" studs: 600S162-43
   - 6" track: 600T125-43
5. See Architectural Drawings for summary of non-structural stud sizes; runner track gauge to match stud gauge.
6. At interior stud walls extending to the underside of roof structures, provide a deflection track at the top of the wall.
7. Provide bracing to structure for all stud walls and furr-downs.

Prefabricated Light Gauge Steel Truss General Notes 5410:

1. The material and fabrication criteria of trusses shall meet the requirements of "Specifications for the Design of Cold Formed Steel Structural Members" by AISI.
2. Truss members shall be fabricated of structural quality steel sheet with a protective G60 zinc coating per ASTM A653. Steel shall have a minimum yield strength of 40,000 psi.
3. Truss members shall have a 18 gauge minimum thickness.
4. Fasteners at truss connections shall be self-drilling, self-tapping screws with corrosion-resistant plated finish per the truss manufacturer's recommendations.
5. During erection, care shall be exercised to keep horizontal bending of trusses to a minimum. Proper erection bridging and bracing shall be installed to hold the trusses true and plumb and in a safe condition until permanent truss bridging and decking are installed.
6. Install continuous bridging and permanent bracing per the truss manufacturer's requirements.
7. Repair damaged galvanized coatings on truss members with galvanizing repair paint according to ASTM A780 and the truss manufacturer's instructions.
8. Truss manufacturer shall design trusses for a 20 psf dead load (10 psf top chord and 10 psf bottom chord dead load).
9. Trusses shall be designed for a 27.9 psf gross wind uplift.
10. Trusses shall be designed for a live load deflection of L/240 and a total deflection of L/360 for areas with ceiling attached directly to bottom chord.
11. The truss manufacturer shall prepare complete fabrication and erection drawings, fully engineered and sealed by a registered structural engineer in the state of Arkansas.
12. At gabled end trusses and where shown on drawings, trusses shall be sheathed with 1/2" gypsum sheathing. Attach using #10 screws @ 7" o.c. around perimeter and 12" o.c. in the field. Truss manufacturer to provide truss web members at spacing to accommodate sheathing attachment.

Design Loads

1. Typical Roof Dead Load: 20 psf
2. Roof Live Load: 20 psf
3. Rain Intensity, (15 min, i): 6.64 in/hr
4. Snow Load: 15 psf
   - Ground Snow Load:
   - Flat-roof Snow Load at main roof (P_f) = 10.4 psf
   - Slope Factor (C_s) = 0.93
   - Snow Exposure Factor (C_e) = 1.0
   - Snow Load Importance Factor (I_s) = 1.1
   - Thermal Factor (C_t) = 1.0
5. Snow Drift:

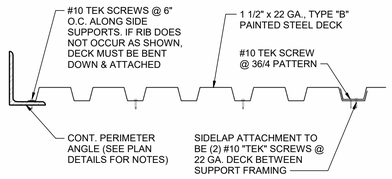


Unbalanced Snow Load

6. Wind Load:
   - Ultimate Design Wind Speed (V_{ult}): 115 mph
   - Nominal Design Wind Speed (V_{asd}): 89.1 mph
   - Risk Category III
   - Wind Exposure C
   - Internal Pressure Coefficient, GC_{pi} = ±0.18
7. Components & Cladding Wind Load (Unfactored):
   - Width of Edge Zone, a = 5.80 ft
   - Wall Pressures (10 ft²)
     - End Zone Wall = 34.0 psf
     - Interior Zone = 27.6 psf
   - Wall Pressures (100 ft²)
     - End Zone Wall = 26.5 psf
     - Interior Zone = 23.9 psf
   - Roof Pressures (10 ft²)
     - Corner Zone = 89.2 psf
     - Eave & Rake Zone = 75.1 psf
     - Interior Zone = 51.5 psf
   - Roof Pressures (100 ft²)
     - Corner Zone = 46.7 psf
     - Eave & Rake Zone = 41.3 psf
     - Interior Zone = 16.1 psf
8. Seismic:
   - Risk Category III
   - Seismic Importance Factor (I_e) = 1.25
   - S_S = 0.148
   - S_1 = 0.087
   - S_{DS} = 0.158
   - S_{D1} = 0.140
   - Site Class D (per Geotechnical Report)
   - Seismic Design Category C
   - Basic Structural System: Bearing Wall System
   - Seismic Resisting System: Intermediate Reinforced Masonry Shear Walls
   - Response Modification Coefficient (R): 3.500
   - Deflection Amplification Factor (C_d): 2.250
   - Seismic Response Coefficient (C_s): 0.056
   - Analysis Procedure: Equivalent Lateral Force Procedure
9. Building Code:
   - 2021 Arkansas Fire Prevention Code, Volume II - Adopting 2021 International Building Code
   - ASCE 7-16

THIS FACILITY HAS BEEN DESIGNED FOR THE SEISMIC CRITERIA AND BUILDING CODE NOTED ON THIS DRAWING IN ACCORDANCE WITH THE REQUIREMENTS OF ACT 1100.

NOTE:
PROVIDE #10 TEK SCREWS AT 6" O.C. FOR END LAPS (MIN. 2" LAP) AND ENDS OF EACH DECK RUN.

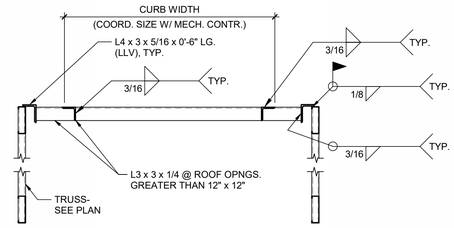


1 1/2" ROOF DECK

1 TYP. ROOF DECK FASTENING PATTERN DETAIL

NOT TO SCALE

NOTE:
FOR ROOF OPENINGS OVER 6" TO 12" WIDE (I.E.: OVER-SIZED OPENING FOR ROOF DRAINS), PROVIDE L2 x 2 x 1/4 FRAME AROUND OPENING AND EXTEND TO JOISTS-WELD ALL AROUND.



2 TYP. ROOF FRAMED OPNG. DETAIL

NOT TO SCALE

STATE OF ARKANSAS
PROFESSIONAL ENGINEER
No. 22009
ANDREW S. DESCHNER
04.06.2026

CERTIFICATE OF AUTHORIZATION
Tatum Smith Welcher Engineers, Inc
No. 218
ARKANSAS ENGINEERING

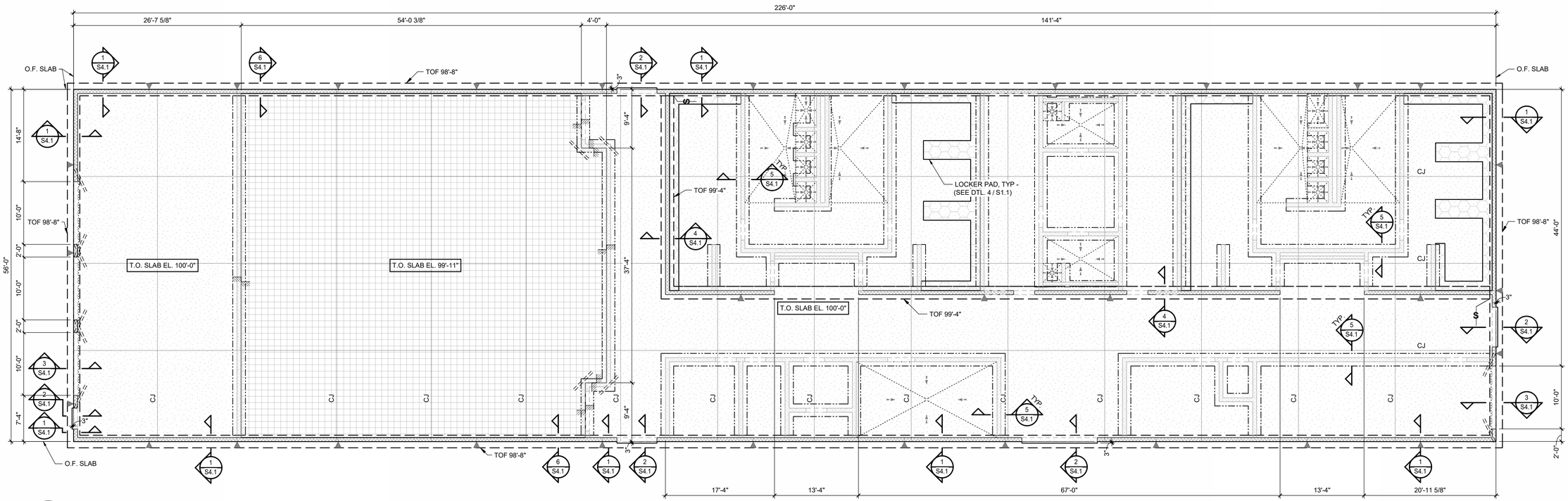
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: TMW
CHECK BY: ASD
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

FRAMING GENERAL NOTES & TYP. DETAILS
SHEET S1.2

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 26004 PM: ASD DE: BWA



1 FOUNDATION PLAN

1/8" = 1'-0"

PLAN NOTES:

1. 4" S.O.G. CONSTRUCTION: 4" CONCRETE SLAB REINFORCED W/ 6x6-W1.4xW1.4 WWF ON 15 MIL POLYETHYLENE FILM OVER 4" CRUSHED STONE TYP. PLACE WWF 2" CLR. FROM TOP OF SLAB.
2. ALL ELEVATIONS BASED ON FINISH FLOOR EL. 100'-0". ACTUAL FIN. FLR. EL. 1353.00' AS ESTABLISHED BY HALFF ASSOCIATES, INC.
3. TOP OF FOOTING ELEVATION 98'-8", TYP. (U.N.O.).
4. SEE ARCH. DWGS./ OVERALL FOUNDATION PLAN FOR DIMENSIONS NOT SHOWN.
5. "CJ" DENOTES CONTROL OR CONSTRUCTION JOINT. (SEE DTLS. 1/S1.1 & 2/S1.1).
6. COORDINATE DOOR LOCATIONS WITH ARCH. DWGS.
7. SEE ARCH. DWGS. FOR LOCATIONS OF NON-LOAD-BEARING MASONRY WALLS BEARING ON THICKENED SLABS.
8. SEE ARCH./ PLUMBING DWGS. FOR EXACT LOCATIONS OF ALL FLOOR DRAINS, SLOPED & RECESSED SLABS.
9. COORDINATE LOCATIONS OF PLUMBING LINES W/ PLUMBER PRIOR TO POURING FOOTINGS & SLABS-ON-GRADE.
10. SEE DWG. S1.1 FOR GENERAL NOTES, FOOTING SCHEDULE & TYP. DETAILS.

LEGEND:

O.F.	DENOTES OUTSIDE FACE
TOF	DENOTES TOP OF FOOTING
	DENOTES LIMITS OF 4" SLAB (T.O. SLAB EL. 100'-0") SEE PLAN NOTES
	DENOTES LIMITS OF 4" SLAB (T.O. SLAB EL. 99'-11") SEE PLAN NOTES
	DENOTES LIMITS LOCKER PAD (T.O. PAD EL. 100'-4") (SEE DTL. 4 / S1.1)
	DENOTES THICKENED SLAB
	DENOTES LOAD-BEARING CMU WALL
	DENOTES NON-LOAD-BEARING CMU WALL
100'-0"	DENOTES TOP OF SLAB EL.
	DENOTES SLAB ELEVATION CHANGE
S	DENOTES FTG. STEP MARK
	DENOTES AREA & DIRECTION OF SLOPE TO FLOOR DRAIN 1/16"/FT. MIN. (U.N.O.)
	DENOTES LOCATION OF RE-ENTRANT CORNER BARS (SEE CONC. GEN. NOTE #8)
	DENOTES WALL CONTROL JOINT SEE S3.0 FOR LOCATION

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 22999
ANDREW S. DESCHENES
04.06.2026

CERTIFICATE OF AUTHORIZATION NO. 1104
Tatum Smith Welcher Engineers, Inc
No. 218
ARKANSAS ENGINEERING

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: TMW
CHECK BY: ASD
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES:

FOUNDATION PLAN
SHEET
S2.1

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 26004 PM: ASD DE: BWA

4/6/2026 8:33:39 AM
C:\Users\asd\Documents\26004 - BWHS Arts & Athletics Addition - Locker - Bentonville, AR_STRUCT_R25_ASDMTXR7.rvt

LINTEL SCHEDULE

MARK	WALL LOCATIONS	TYPE & SIZE (THICKNESS x HEIGHT)	REINFORCEMENT OR ATTACHMENT	BRICK ANGLE OR PLATES	REMARKS
L1	8" CMU	CMU 8" x 8" BOND BM.	(1) #5 BOTT.	-----	SEE NOTES #1, #2, #3, #4, #5, & #6
L2	8" CMU	CMU 8" x 8" OPEN BOTT. BOND BM. ON 8" x 8" CLOSED BOTT. BOND BM. (16" TOTAL DEPTH)	(1) #4 TOP & BOTTOM	-----	SEE NOTES #1, #2, #3, #4, #5, & #6
L3	8" CMU	(2) CMU 8" x 8" OPEN BOTT. BOND BM. ON 8" x 8" CLOSED BOTT. BOND BM. (24" TOTAL DEPTH)	(1) #5 TOP & BOTTOM	-----	SEE NOTES #1, #2, #3, #4, #5, & #6

LINTEL SCHEDULE NOTES:
1. SEE ARCH. DWGS. FOR EXACT LOCATION OF ALL LINTELS.
2. COORDINATE ALL BOTTOM PLATE/BEAM/CMU/ANGLE ELEVATIONS WITH ARCH. DWGS.
3. ALL CMU LINTELS SHALL HAVE 8" MIN. BEARING EACH SIDE OF OPENING.
4. FILL ALL CMU LINTELS WITH 2,000 PSI GROUT.
5. ALL 8" CMU LINTELS SHALL HAVE A MIN. (2) CELLS OF (1) #5 JAMB STEEL EACH SIDE OF OPENING.
6. WHERE MECHANICAL DUCTS PASS THROUGH MASONRY WALLS, PROVIDE L1 LINTEL AT 8" CMU WALLS FOR OPENINGS NOT TO EXCEED 4'-0" WIDE. FOR OPENING WIDTHS FROM 4'-0" TO 6'-0", PROVIDE L2 LINTEL AT 8" CMU WALLS. FOR OPENING WIDTHS LARGER THAN 6'-0", COORDINATE WITH ARCH./ENGINEER.

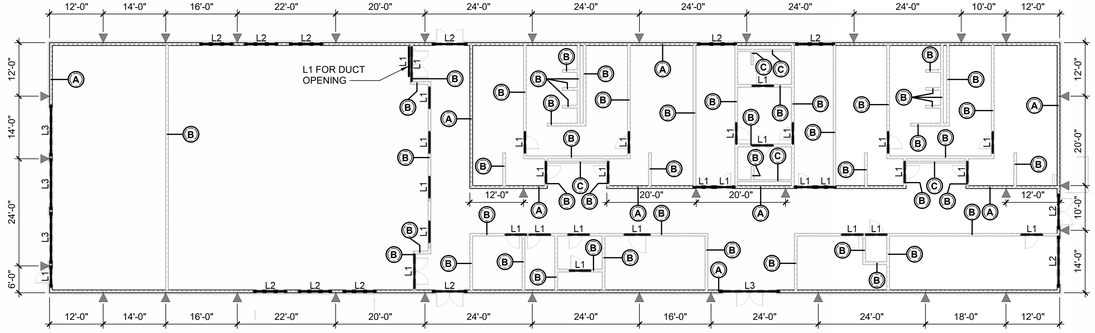
MASONRY WALL REINFORCEMENT SCHEDULE

MARK	WALL LOCATION	BOND BEAM REINF.	BOND BEAM LOCATIONS	VERT. REINF.	FOUNDATION DOWELS	REMARKS
A	8" CMU	(1) #5 BOTT.	TOP OF WALL, ROOF EL., & WHERE NOTED ON DWGS.	#5 @ 48" O.C.	#5 DOWEL @ 48" O.C. CENTER IN WALL	SEE NOTE #2
B	8" CMU	(1) #5 BOTT.	TOP OF WALL	-----	#4 x 2'-6" DOWEL @ 48" O.C. CENTER IN WALL	SEE NOTES #1, #3, & DTL. 2/S3.0
C	4" CMU	(1) #4 BOTT.	TOP OF WALL	-----	#3 x 1'-6" DOWEL @ 48" O.C. CENTER IN WALL	SEE NOTES #1, #3 & DTL. 2/S3.0

MASONRY WALL REINFORCEMENT SCHEDULE NOTES:
1. WHERE TOP OF WALL IS UNSUPPORTED BY THE ROOF , BRACE TOP OF WALL WITH DIAGONAL L3 x 3 x 1/4 WELDED TO THE ROOF FRAMING ABOVE AT 8'-0" O.C. MAXIMUM (SEE DTL. 2/S3.0). WHERE WALL EXTENDS TO UNDERSIDE OF ROOF DECK ABOVE, HOLD WALL DOWN 1/2" & SANDWICH TOP OF WALL WITH (2) L2 x 2 x 1/8 x 0'- 6" LONG EACH ATTACHED TO DECK WITH (2) #8 SELF-TAPPING SCREWS (SPACE ANGLES AT 4'-0" O.C.) (SEE DTL. 3/S3.0). THIS BRACING IS PERMANENT BRACING REQUIRED FOR SEISMIC LOADS.
2. UNO AT SLAB-ON-GRADE, DRILL & EPOXY DOWELS 8" INTO SLAB.
3. UNO AT SLAB-ON-GRADE, DRILL & EPOXY DOWELS 6" INTO SLAB.

BEARING PLATE SCHEDULE

LINTEL/BEAM SIZE	LINTEL BRG. PL SIZE (t x B x D)	BEAM BRG. PL SIZE (t x B x D)	HEADED STUD ANCHORS	SEE DTL.	REMARKS
ALL BEAM SIZES	3/8" x 7" x 11"	3/8" x 7" x 11"	(2) 1/2"Ø x 6" H.S.A.	5/S3.0	8" CMU WALL



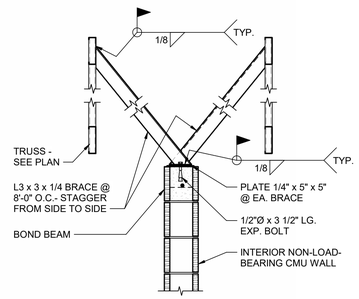
1 LINTEL & MASONRY PLAN

1/16" = 1'-0"

PLAN NOTES:
1. SEE DWGS. S1.1 & S1.2 FOR GENERAL NOTES & TYP. DETAILS.

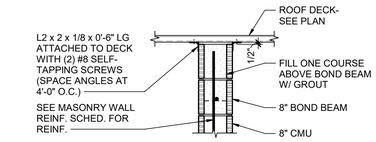
LEGEND:
- L1 — DENOTES LINTEL MARK, SEE LINTEL SCHED.
- DENOTES LOAD-BEARING CMU WALL
- DENOTES NON-LOAD-BEARING CMU WALL
- (A) — DENOTES MASONRY WALL REINF. MARK, SEE MASONRY WALL REINF. SCHED.
- DENOTES WALL CONTROL JOINT

NOTE:
MEP SHALL COORD. DUCT LOCATIONS W/ BRACING.



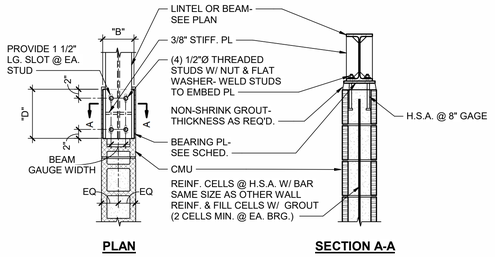
2 TYP. CMU WALL BRACING

NOT TO SCALE



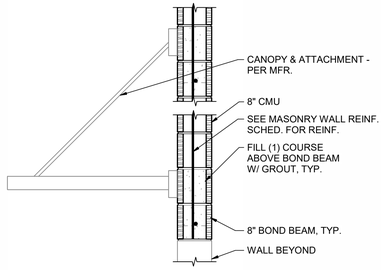
3 TYP. INTR. 8" CMU WALL @ ROOF DECK

NOT TO SCALE



4 TYP. WF LINTEL & BEAM BEARING PLATE DETAILS

NOT TO SCALE



5 TYP. CANOPY CONNECTION PLATE DETAILS

NOT TO SCALE

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 22090
ANDREW S. DESCHENES
04.06.2026

CERTIFICATE OF AUTHORIZATION
Tatum Smith Welcher Engineers, Inc
No. 218

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

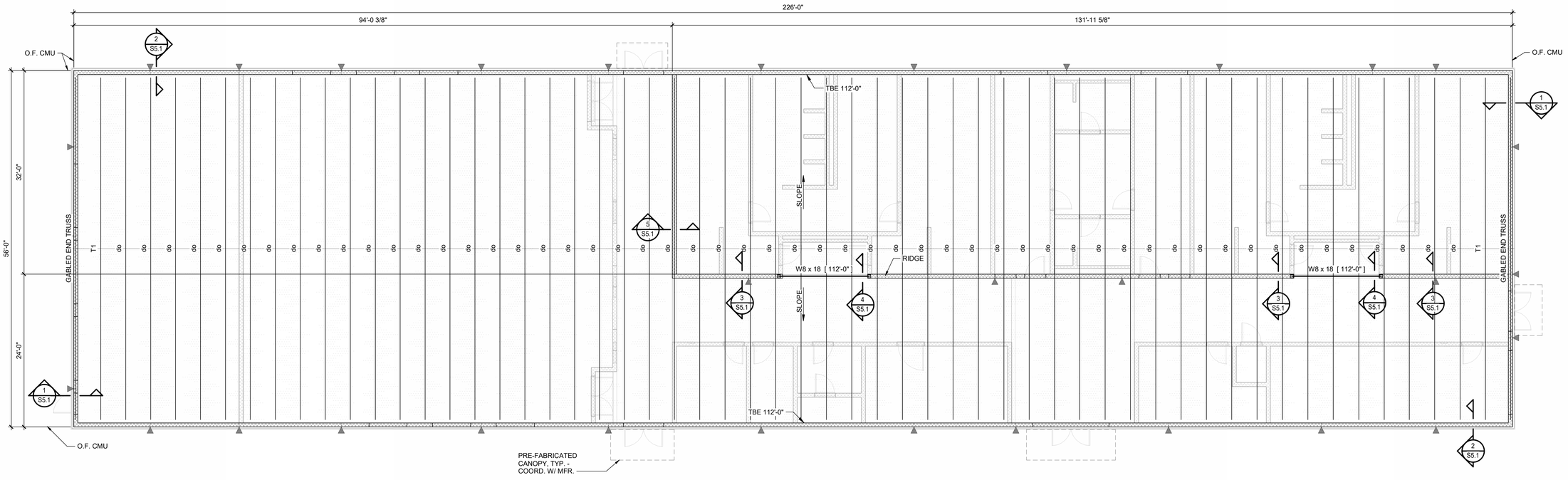
A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: TMW
CHECK BY: ASD
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES:

LINTEL & MASONRY PLAN & TYP. LINTEL & MASONRY DTLS.
SHEET
S3.0

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 26004 PM: ASD DE: BWA

4/6/2026 8:53:41 AM
C:\Users\asd\Documents\26004 - BWHS Arts & Athletics Addition - Locker - Bentonville, AR_STRUCT_R25_ASDMTXR7.rvt



1 ROOF FRAMING PLAN

1/8" = 1'-0"

NORTH

PLAN NOTES:

1. ROOF DECK: 1 1/2" DEEP, 22 GA. PAINTED WIDE RIB STEEL DECK (SEE STEEL DECK GENERAL NOTES FOR ATTACHMENT REQUIREMENTS).
2. TOP OF STEEL DENOTES TOP OF MAIN STEEL.
3. LIGHT GAUGE METAL TRUSS BEARING ELEVATION 112'-0" TYP., (U.N.O.)
4. ALL ELEVATIONS BASED ON MAIN LEVEL FINISH FLOOR EL. 100'-0". ACTUAL FIN. FLR. EL. 1353.00' AS ESTABLISHED BY HALFF ASSOCIATES, INC.
5. SEE DWG. S1.2 FOR GENERAL NOTES AND TYPICAL DETAILS.
6. SEE ARCH. DWGS. & FOUNDATION PLAN FOR DIMENSIONS NOT SHOWN.

LEGEND:

O.F.	DENOTES OUTSIDE FACE
TBE	DENOTES TRUSS BEARING ELEVATION
TOS	DENOTES TOP OF STEEL
[112'-0"]	DENOTES TOP OF BEAM ELEVATION
	DENOTES LIMITS OF 1 1/2" x 22 GA. ROOF DECK (SEE PLAN NOTES)
SLOPE	DENOTES DIRECTION OF ROOF SLOPE (COORD. PITCH W/ ARCH.)
	DENOTES BEARING PLATE (SEE BEARING PL SCHED.)
	DENOTES LOAD-BEARING CMU WALL
	DENOTES NON-LOAD-BEARING CMU WALL
T1	DENOTES LIGHT GAUGE METAL GABLED TRUSS @ 4'-0" O.C. MAX BY OTHERS
	DENOTES WALL CONTROL JOINT. SEE S3.0 FOR LOCATION

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 22999 — ANDREW S. DESCHENES — 04.06.2026

CERTIFICATE OF AUTHORIZATION — Tatum Smith Welcher Engineers, Inc. No. 218 — ARKANSAS ENGINEERING

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR

BWHS - Locker Room Building

1359 Gamble Road, Centerton, AR 72719

DRAWN BY: TMW

CHECK BY: ASD

ISSUE DATE: 04/06/2026

PROJECT NO.: 2421.2

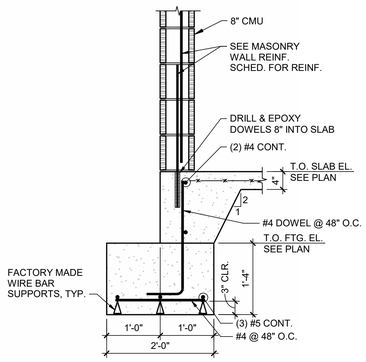
REVISION DATES

ROOF FRAMING PLAN

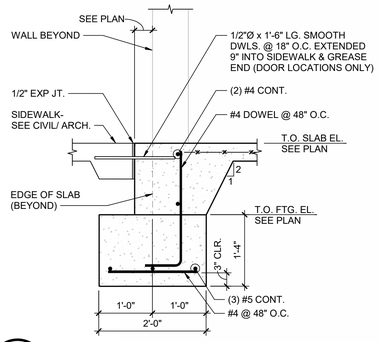
SHEET S3.1

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 26004 PM: ASD DE: BWA

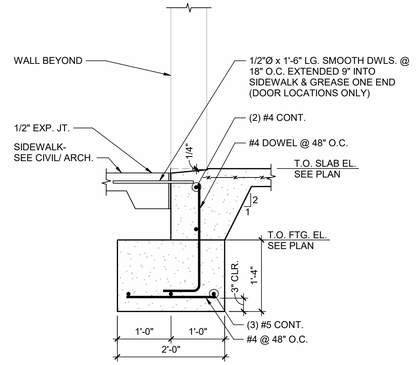
4/6/2026 8:33:42 AM
C:\Users\asd\Documents\26004 - BWHS Arts & Athletics Addition - Locker - Bentonville, AR_STRUCT_R25_ASDMTXR7.rvt



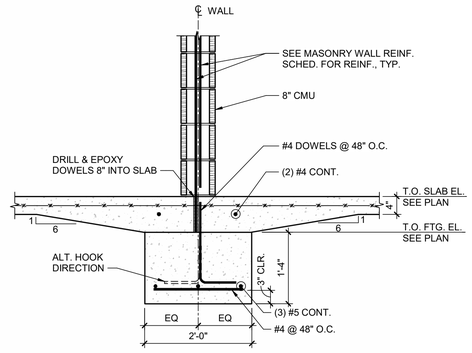
1 SECTION
3/4" = 1'-0"



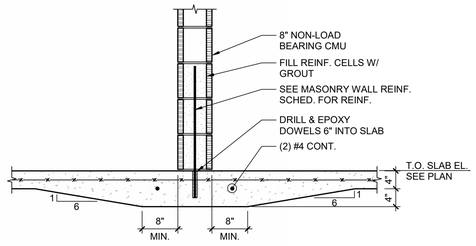
2 SECTION
3/4" = 1'-0"



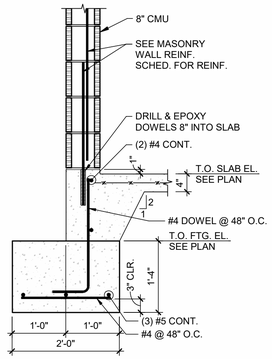
3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 22009
ANDREW S. DESCHNER
04.06.2026

CERTIFICATE OF AUTHORIZATION
Tatum Smith Welcher Engineers, Inc
No. 218

HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: TMW
CHECK BY: ASD
ISSUE DATE: 04/06/2026
PROJECT NO: 2421.2
REVISION DATES

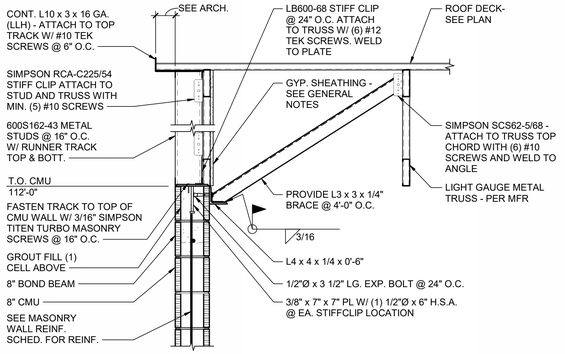
FOUNDATION DETAILS

SHEET
S4.1

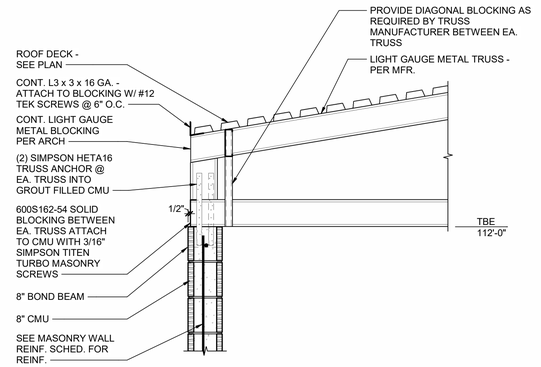
TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 26004 PM: ASD DE: BWA

4/6/2026 8:53:43 AM
C:\Users\asd\Documents\26004 - BWHS Arts & Athletics Addition - Locker - Bentonville, AR_STRUCT_R25_ASDMTXR7.rvt

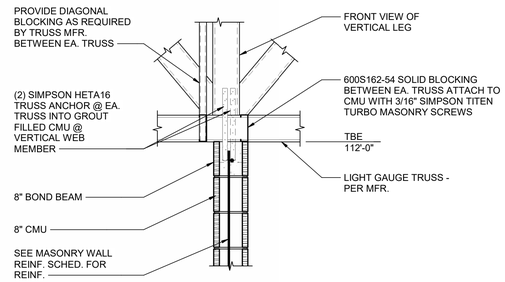
TRUSS MFR. NOTE:
TRUSS MUST BE DESIGNED TO TRANSFER AXIAL LOAD TO THE CMU SHEAR WALLS INCLUDING UNFACTORED 10.4 KIPS OF WIND AND 7.2 KIPS OF SEISMIC.



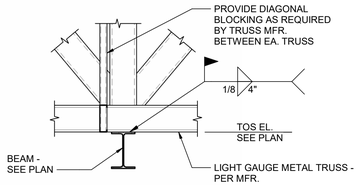
1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"

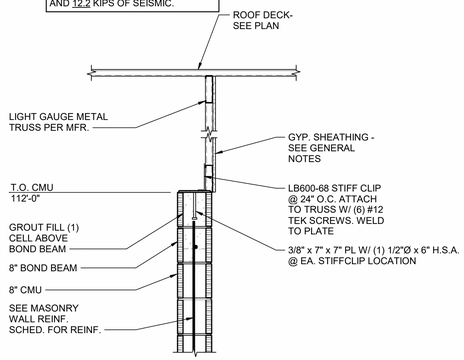


3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"

TRUSS MFR. NOTE:
TRUSS MUST BE DESIGNED TO TRANSFER AXIAL LOAD TO THE CMU SHEAR WALLS INCLUDING UNFACTORED 17.8 KIPS OF WIND AND 12.2 KIPS OF SEISMIC.



5 SECTION
3/4" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 22909
ANDREW S. DESCHENES
04.06.2026
CERTIFICATE OF AUTHORIZATION
Tatum Smith Welcher Engineers, Inc
No. 218

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

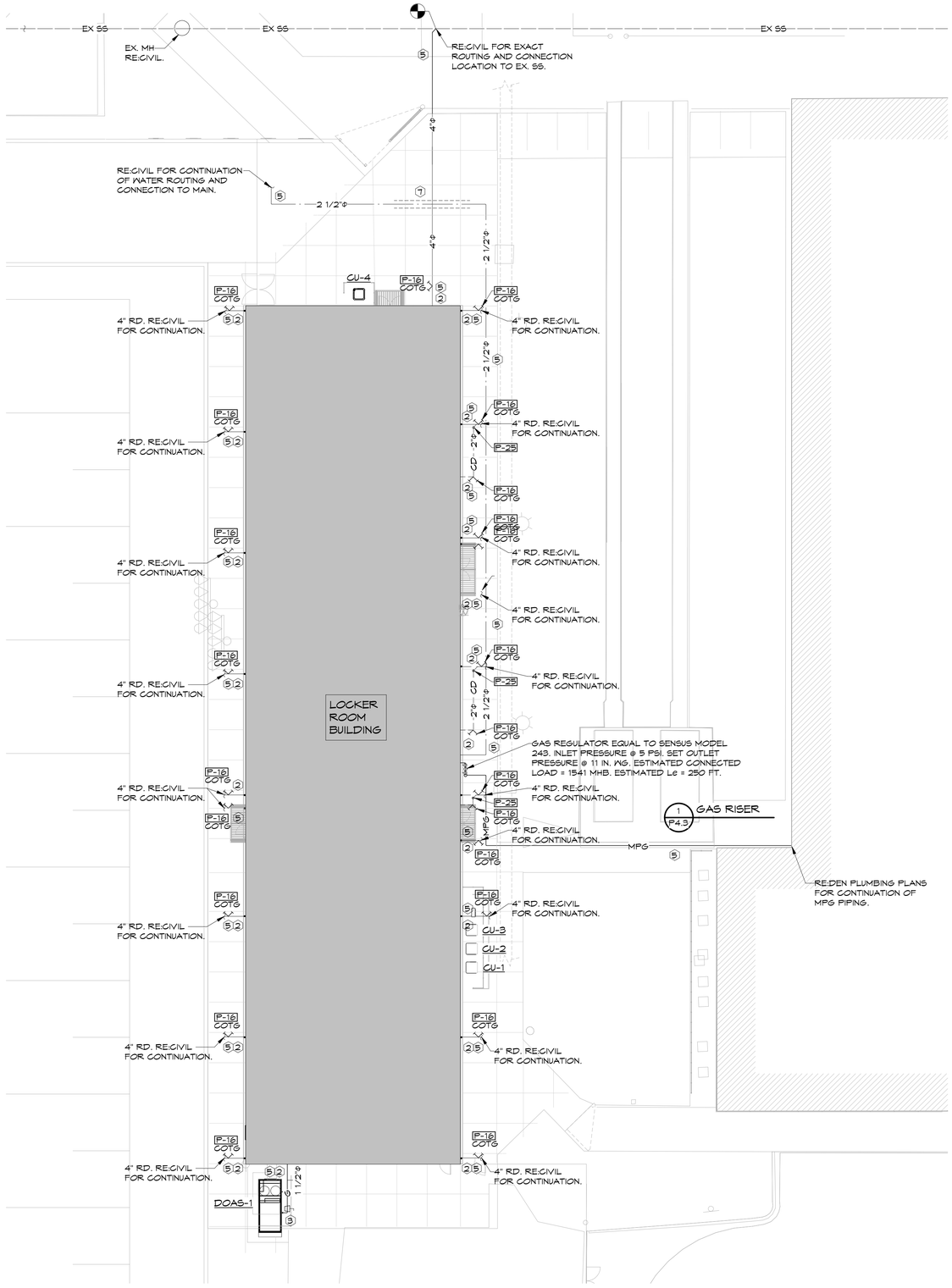
DRAWN BY: TMW
CHECK BY: ASD
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

FRAMING DETAILS

SHEET
S5.1

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 26004 PM: ASD DE: BWA

4/6/2026 8:53:44 AM
C:\Users\asd\Documents\26004 - BWHS Arts & Athletics Addition - Locker - Bentonville, AR_STRUCT_R25_ASDMTXR7.rvt



1 SITE UTILITY PLAN
1/16" = 1'-0"

NOTES:
RE:P1.1 FOR PLUMBING LEGEND, GENERAL AND KEYED NOTES. RE:P3.1-P3.2 FOR PLUMBING DETAILS. RE:P5.1 FOR PLUMBING SCHEDULES.

NORTH

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.14057
NATHAN E. WILSON
4/6/26

HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: AH
CHECK BY: NEW
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

SITE UTILITY PLAN

SHEET
U2.1

GENERAL PLUMBING NOTES

1. ALL PLUMBING MATERIALS AND INSTALLATION SHALL COMPLY WITH THE ARKANSAS STATE PLUMBING CODE, LATEST EDITION.
2. INSTALL ALL DOMESTIC HOT AND COLD WATER PIPING AS PER STATE AND LOCAL CODES.
3. INSULATE ABOVE GRADE CONCEALED DOMESTIC HOT AND COLD WATER LINES PER SPECIFICATIONS, SECTION 22 07 19.
4. PROVIDE MAIN DOMESTIC COLD WATER LINE BUILDING SHUT OFF VALVE AT ENTRY INTO THE BUILDING. INSTALL IN FREEZE PROOF VAULT WITH ACCESS COVER.
5. INSTALL DEEP SEAL TRAPS AT ALL DRAIN CONNECTIONS.
6. COORDINATE UNDER SLAB PIPING WITH COLUMNS AND FOOTINGS. REFER TO STRUCTURAL DRAWINGS.
7. MINIMUM DEPTH OF COVER FOR WATER LINES IS 30 IN.
8. BURY YELLOW #10 THHN COPPER TRACER WIRE IN TRENCH WITH ALL UNDER GROUND PLASTIC SERVICES. LEAVE ENDS EXPOSED FOR FUTURE LOCATION.
9. PROVIDE AND INSTALL 6 IN. DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS.
10. PROVIDE GAS MAIN BUILDING SHUT OFF VALVE NEAR ENTRY TO THE BUILDING.
11. ALL GAS PIPING SYSTEMS WITHIN A BUILDING AND OTHER ABOVE GROUND GAS PIPING SHALL BE ELECTRICALLY CONTINUOUS AND BONDED TO A GROUNDED ELECTRODE AS DEFINED IN N.F.P.A. 70.
12. VERIFY LOCATION AND SIZE OF EXISTING SITE UTILITIES WITH UTILITY AUTHORITIES PRIOR TO CONSTRUCTION.
13. ALL IMPROVEMENTS (PAVEMENTS, CURB AND GUTTER, SOD, ETC.) SHALL BE REPLACED BY GENERAL CONTRACTOR TO PRECONSTRUCTION CONDITION.
14. WHERE FIRE RATED PARTITIONS OR FLOORS OCCUR, ALL FLOOR TO FLOOR AND ROOM TO ROOM PENETRATIONS SHALL BE PROPERLY FIRE SEALED WITH U.L. LISTED AND CLASSIFIED FIRE CAULK OR FIRE SEALED BY USING AN APPROVED FIRE SEAL SLEEVE METHOD WHICH MEETS U.L. REQUIREMENTS. ALL OTHER PENETRATIONS OF RATED CHASES OR WALLS SHALL BE PROPERLY FIRE SEALED AND WHERE EXTENDING THROUGH SUCH RATED SURFACE SHALL BE A RATED FIRE STOP PENETRATION. ALL FIRE STOPPING, FIRE CAULKING AND FIRE SLEEVING OR OTHER FIRE SEALING SHALL BE ACCEPTABLE BY THE LOCAL AUTHORITIES AND SHALL BEAR THE U.L. SEAL.
15. INSTALL DOMESTIC WATER AND GAS LINES TIGHT AGAINST BUILDING ROOF STRUCTURE.
16. VERIFY LOCATION, INVERT AND SIZE OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
17. PROVIDE CITY APPROVED REDUCED PRESSURE BACKFLOW PREVENTERS ON ALL DOMESTIC SERVICE LINES CONNECTED TO ALL DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTILLATION, PROCESSING, COOLING OR STORAGE OF FOODS OR ICE. WATER PUMPS, FILTERS, SOFTENERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION WITH SIMILAR BACKFLOW PREVENTER.
18. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE ARKANSAS STATE MECHANICAL CODE.
19. ALL WATER AND SEWER LINE MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THE CITY OF CENTERTON STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION AS WELL AS THE ARKANSAS STATE PLUMBING CODE.
20. HORIZONTAL BRANCHES SHALL CONNECT TO HORIZONTAL STACK OFFSETS AND TO THE BASES OF STACKS AT A POINT LOCATED NOT LESS THAN 10 PIPE DIAMETERS DOWNSTREAM FROM THE STACK.
21. CONTRACTOR SHALL PROVIDE "AS BUILT" DRAWINGS OF ALL PLUMBING AND PIPING SYSTEMS UPON COMPLETION OF THE PROJECT.
22. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS, THE BUILDING SITE, AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. IF CONTRACTOR HAS QUESTIONS REGARDING ASSEMBLIES OR LAYOUTS WITH THE PROJECT HE SHALL MAKE THEM KNOWN TO THE ENGINEER IN WRITING PRIOR TO BIDDING THE PROJECT. CLAIMS MADE SUBSEQUENT TO THE BID WILL NOT BE ACCEPTED IF IT IS DETERMINED THAT PROPER FAMILIARIZATION COULD HAVE AVOIDED SUCH CLAIM.
23. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION PLUMBING SITE UTILITIES WITH SITE WORK OF OTHER TRADES. IN INSTANCES WHERE COORDINATION REQUIRES DEVIATION FROM PLANS MECHANICAL CONTRACTOR SHALL NOTIFY ENGINEER OF PROPOSED CHANGES.
24. COMPLY WITH STATE OF ARKANSAS ADOPTED ADA ACCESSIBLE GUIDELINES IN REGARD TO ACCESSIBLE FEATURES.
25. PROVIDE DRIP PAN FOR ENTIRE LENGTH OF PIPE WHERE PIPE MUST BE INSTALLED ABOVE ELECTRICAL EQUIPMENT.
26. DO NOT ROUTE GROUPS OF CONDUIT, PIPES, AND SLEEVES ABOVE FOOTINGS UNLESS NOTED TO DO SO. IF CONFLICT OCCURS, CONSULT ARCHITECT/ENGINEER
27. LIMIT WIDTH OF CONDUIT, PIPES AND SLEEVES NOT TO EXCEED 3 FEET IN WIDTH AS IT PASSES UNDER WALL FOOTING. AS MUCH AS POSSIBLE, ALIGN THE ITEMS PERPENDICULAR TO THE FOOTING AS IT PASSES BELOW FOOTING.
28. PROVIDE A MINIMUM SPACING OF 2 FEET BETWEEN CONDUIT OR PIPE GROUPS AS ITEMS PASS UNDER FOOTINGS.
29. DO NOT ROUTE CONDUITS, PIPE OR SLEEVES UNDER COLUMN FOOTINGS OR PAD FOOTINGS.
30. MECHANICAL CONTRACTOR MUST REVIEW ALL ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES, ROOF, OVERFLOW AND FLOOR DRAINS. IF PLUMBING FIXTURES OR DRAINS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS THEY MUST BE INCLUDED IN THE CONTRACT EVEN IF NOT SHOWN ON THE MECHANICAL DRAWINGS.
31. WHERE THE BUILDING SEWER IS INSTALLED WITHIN 10 FEET OF THE WATER SERVICE THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE HIGHEST POINT OF THE SEWER. REQUIRED SEPARATION DISTANCE SHALL NOT APPLY WHERE A WATER SERVICE PIPE CROSSES A SEWER PIPE IS SLEEVED 10 FEET HORIZONTALLY FROM THE SEWER PIPE CENTERLINE ON BOTH SIDES OF SUCH PIPE CROSSINGS.
32. DO NOT SCALE DIRECTLY FROM THE PLUMBING DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.
33. ALL PLUMBING SANITARY WASTE AND VENT PIPING INSTALLED IN FIRE RATED WALLS OR PLENUM RETURN AIR SYSTEMS SHALL BE CAST IRON. REFER TO ARCHITECTURAL PLANS FOR LIFE SAFETY INFORMATION.

PLUMBING KEYED NOTES

1. INSTALL AN APPROVED TRAP GUARD PRODUCT THAT CONFORMS TO NSF-14, CSA B602-99 AND CSA B79-94.
2. COORDINATE UNDERSLAB PIPING WITH STRUCTURAL FOOTINGS. REFER TO STRUCTURAL PLANS FOR LOCATIONS AND SIZES OF FOOTINGS.
3. PROVIDE AND INSTALL 6 INCH DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS. REFER TO DETAIL 7/P3.1.
4. MECHANICAL CONTRACTOR SHALL NOT INSTALL ANY WATER LINES ABOVE ELECTRICAL PANELS PANELS. REFER TO ELECTRICAL PLANS FOR PANEL LOCATIONS.
5. IDENTIFY OUTDOOR UNDERGROUND LINES WITH CONTINUOUS STRIP OF PLASTIC UTILITY MARKER. TAPE SHOULD STATE AT REGULAR INTERVALS: "CAUTION (STATE UTILITY) PIPE BELOW". INSTALL TAPE ONE FOOT DIRECTLY ABOVE PIPE BEFORE BACKFILLING TO GRADE.
6. MECHANICAL CONTRACTOR TO PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) AND PRESSURE REDUCING VALVE (IF REQUIRED) AT THE DOMESTIC WATER SERVICE ENTRANCE IN BUILDING. THERE SHALL BE NO WYES OR TEES PRIOR TO THE RPZ. PROVIDE WATTS MODEL LF909 OR APPROVED EQUAL RPZ. REFER TO 9/P3.1 FOR DETAIL.
7. WHERE THE BUILDING WATER SERVICE PIPE CROSSES A SEWER PIPE, PROVIDE SLEEVE 10 FEET HORIZONTALLY FROM THE SEWER PIPE CENTERLINE ON BOTH SIDES OF SUCH PIPE CROSSINGS.
8. RE:10/P3.1 FOR MULTI-USER LAVATORY HOT WATER PIPING DIAGRAM.

PLUMBING LEGEND

	SANITARY WASTE PIPING
EX SS	EXISTING SANITARY WASTE PIPING
	VENT PIPING
	COLD WATER PIPING
EX CW	EXISTING COLD WATER PIPING
	HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
MPG	MEDIUM PRESSURE GAS PIPING (5 PSIG)
G	LOW PRESSURE GAS PIPING (11 IN. W.C.)
EX G	EXISTING LOW PRESSURE GAS PIPING
CD	CONDENSATE DRAIN PIPING
RD	ROOF DRAIN PIPING
	BALL VALVE
	CHECK VALVE
	GAS REGULATOR EQUAL TO SENSUS MODEL 243. INLET PRESSURE @ 5 PSI, SET OUTLET PRESSURE @ 11 IN. W.C.
	GAS BALL VALVE
	CONNECTION POINT
H	WATER HAMMER ARRESTOR (SIZE PER MANUFACTURER'S RECOMMENDED FIXTURE UNIT CAPACITY)
1	REFER TO KEYED NOTES
P-1	PLUMBING FIXTURE NUMBER (REFER TO PLUMBING FIXTURE SCHEDULE)
COTG	CLEAN OUT TO GRADE
FD	FLOOR DRAIN
FS	FLOOR SINK
FPHB	FREEZE PROOF HOSE BIB
HB	HOSE BIB
ADA	ACCESSIBLE
HD	HUB DRAIN
WCO	WALL CLEAN OUT
WH	WATER HEATER
SS	SANITARY SEWER

NOTES:
RE:P2.1 FOR PLUMBING PLANS. RE:P3.1-P3.2 FOR PLUMBING DETAILS. RE:P5.1 FOR PLUMBING SCHEDULES.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

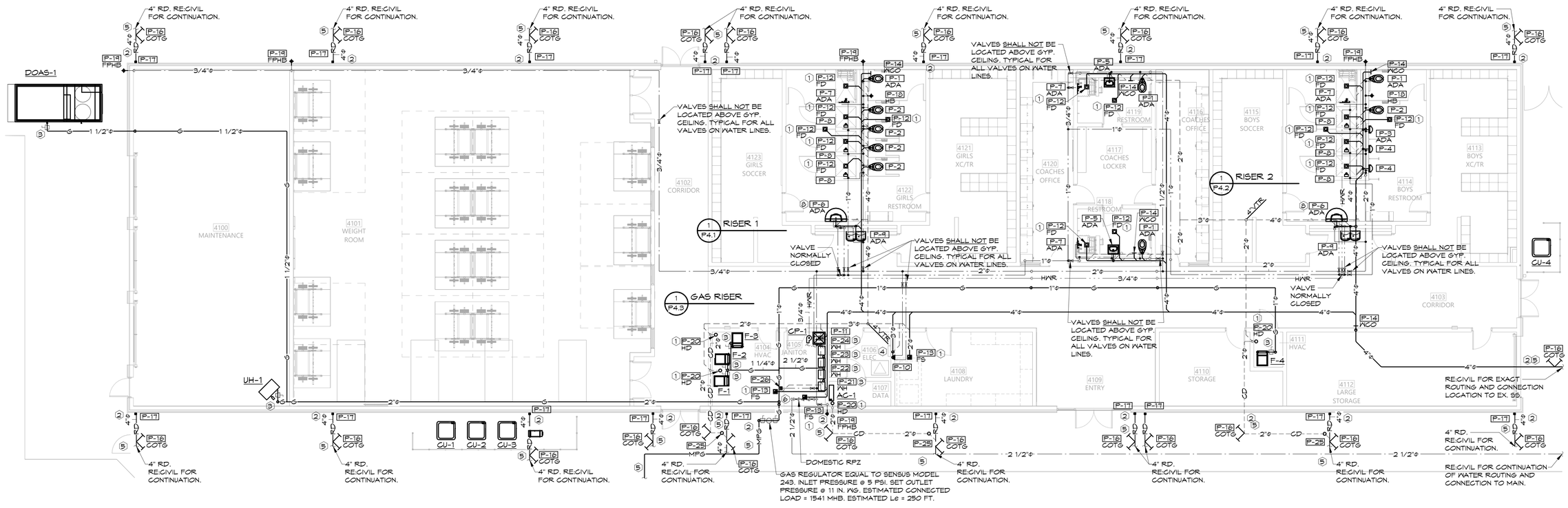
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NATHAN E. WILSON
No.14057
4/6/26

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: AH
CHECK BY: NEW
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

PLUMBING NOTES & LEGEND
SHEET
P1.1



1 PLUMBING PLAN

1/8" = 1'-0"

NORTH

NOTES:
RE:P1.1 FOR PLUMBING LEGEND, GENERAL AND KEYED NOTES.
RE:P3.1-P3.2 FOR PLUMBING DETAILS. RE:P5.1 FOR PLUMBING SCHEDULES.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

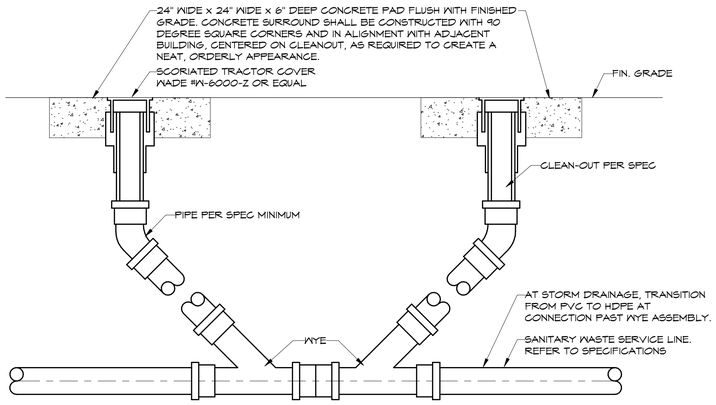
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.14057
NATHAN E. WILSON
4/6/26

HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

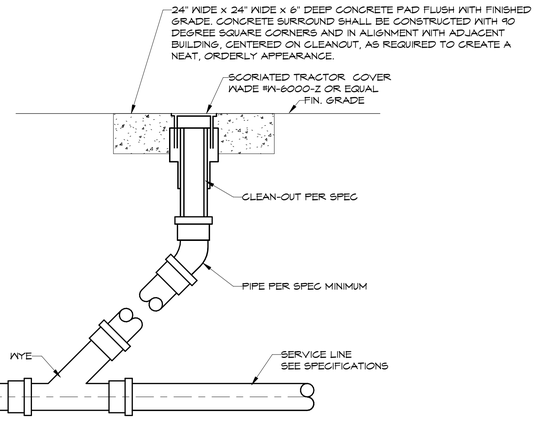
A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: AH
CHECK BY: NEW
ISSUE DATE: 04/06/2026
PROJECT NO. 2421.2
REVISION DATES

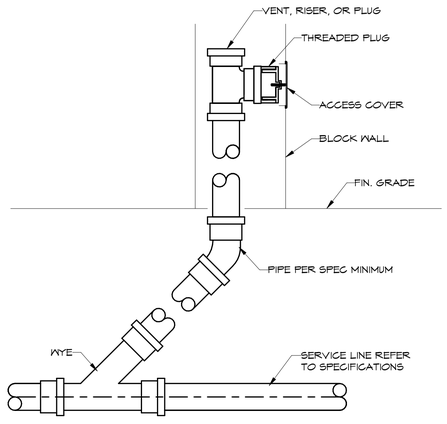
PLUMBING PLAN
SHEET
P2.1



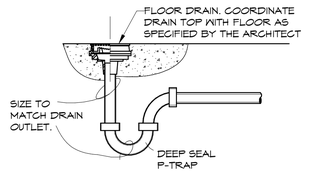
1 DOUBLE CLEAN OUT TO GRADE
NTS



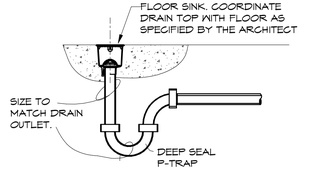
2 CLEAN OUT TO GRADE DETAIL
NTS



3 WALL CLEAN OUT DETAIL
NTS

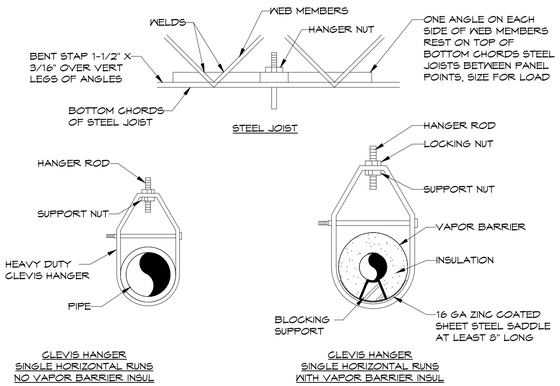


4 FLOOR DRAIN DETAIL
NTS

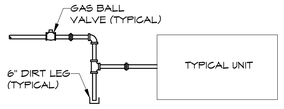


5 FLOOR SINK DETAIL
NTS

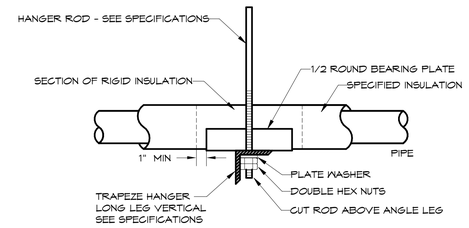
HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	1/4" DIA	8" THRU 12"	1/2" DIA
2 1/2" UP TO 6"	3/8" DIA		



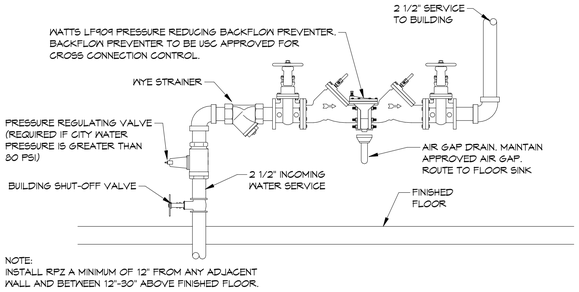
6 TYPICAL PIPE HANGER DETAIL-CLEVIS HANGER
NTS



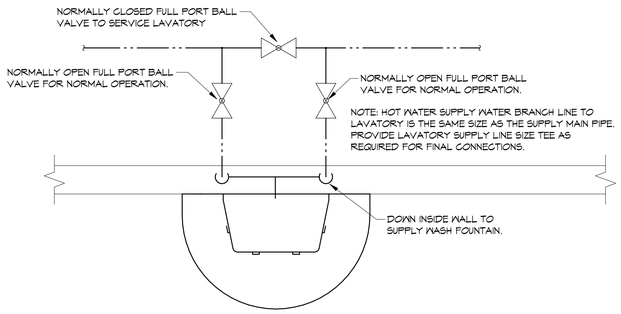
7 TYPICAL GAS CONNECTION
NTS



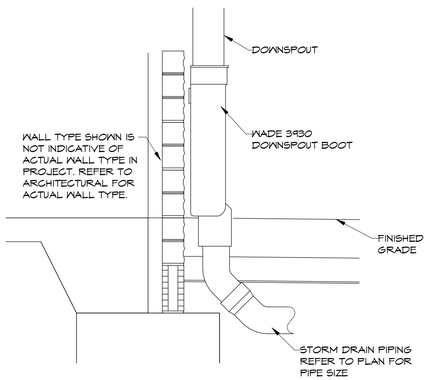
8 TYPICAL PIPE HANGER DETAIL-TRAPEZE
NTS



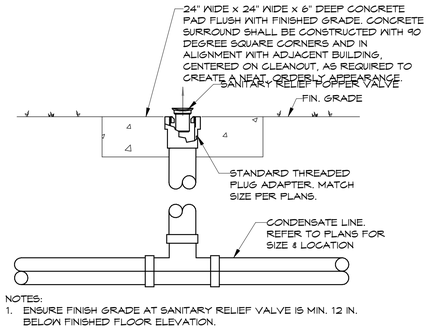
9 DOMESTIC WATER RPZ
NTS



10 MULTI-USER LAVATORY WATER PIPING DETAIL
NTS



11 CAST IRON DOWNSPOUT BOOT DETAIL
NTS



12 SANITARY RELIEF POPPER DETAIL
NTS

NOTES:
RE:P1.1 FOR PLUMBING LEGEND, GENERAL AND KEYED NOTES. RE:P2.1 FOR PLUMBING PLANS. RE:P5.1 FOR PLUMBING SCHEDULES.

HSA Engineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER NATHAN E. WILSON No.14057 — 4/6/26

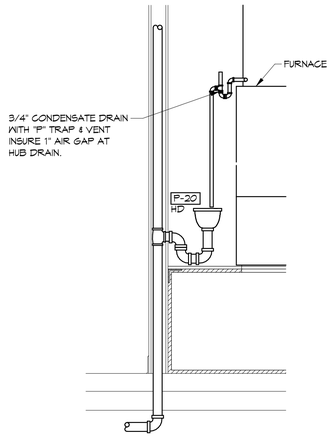
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

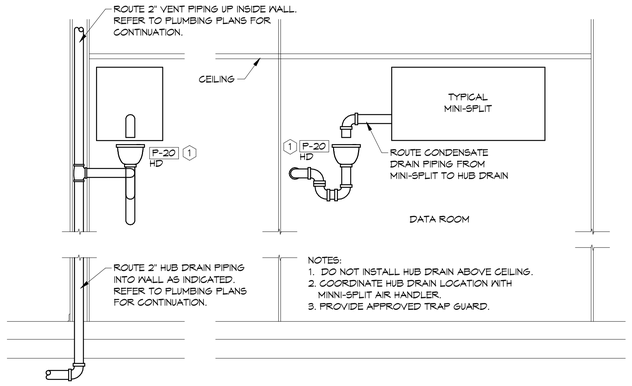
DRAWN BY: AH
CHECK BY: NEW
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

PLUMBING DETAILS

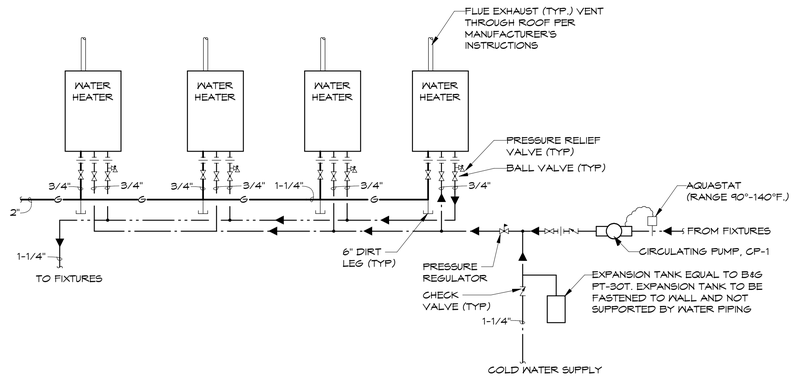
SHEET
P3.1



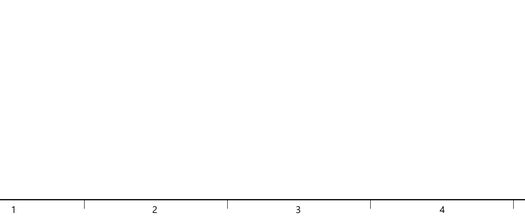
1 HUB DRAIN (FURNACE) DETAIL
NTS



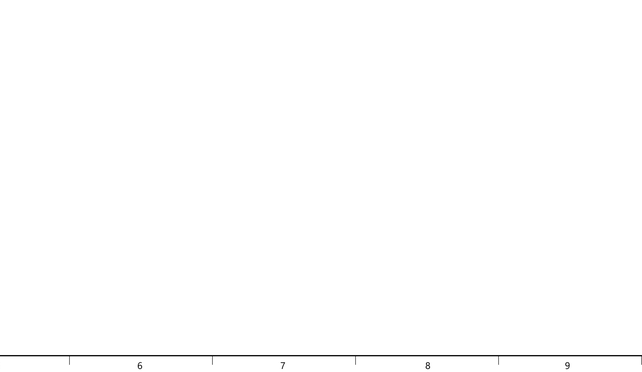
2 HUB DRAIN (MINISPLIT) DETAIL
NTS



3 WATER HEATER DETAIL
NTS



4 VENT THRU ROOF DETAIL
NTS



5 CONCENTRIC VENT DETAIL
NTS

NOTES:
RE:P1.1 FOR PLUMBING LEGEND, GENERAL AND KEYED NOTES. RE:P2.1 FOR PLUMBING PLANS. RE:P5.1 FOR PLUMBING SCHEDULES.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com
HSA JOB # 25-200

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER NATHAN E. WILSON No.14057 4/6/26

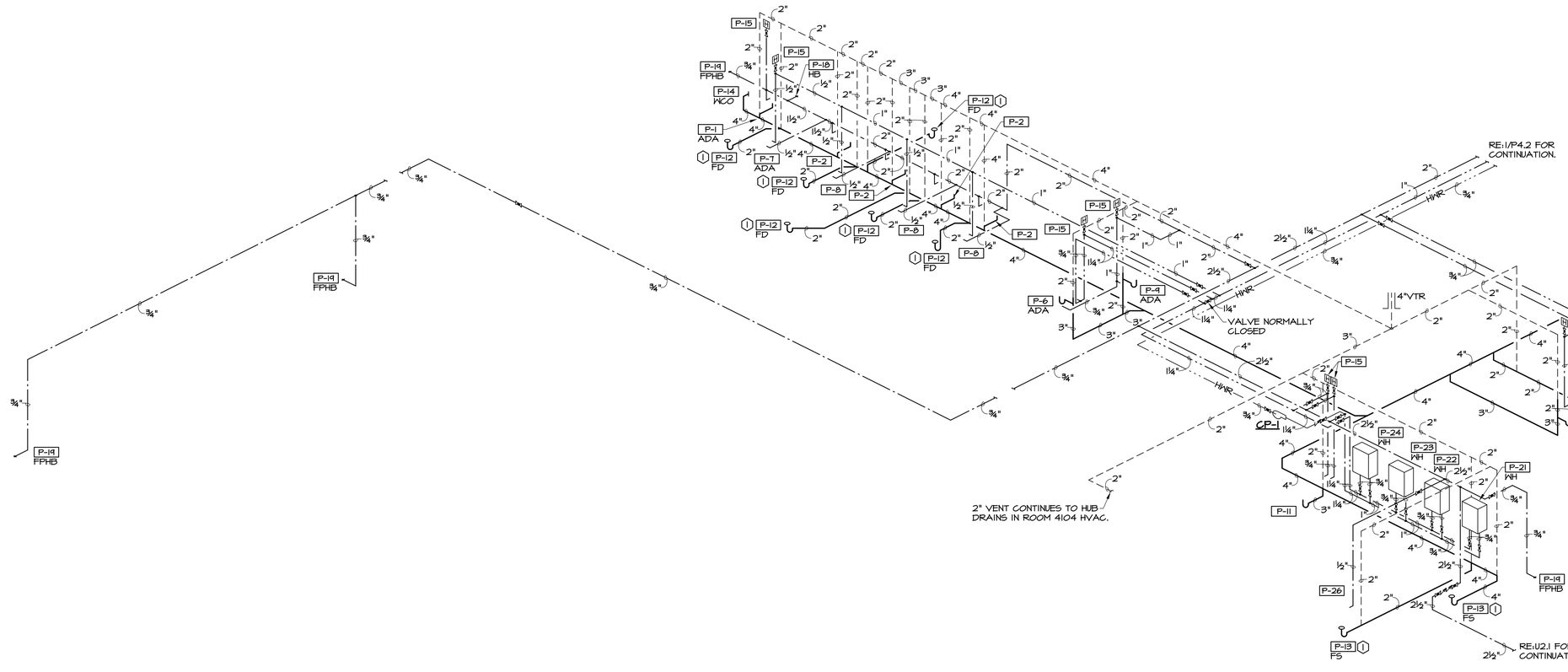
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: AH
CHECK BY: NEW
ISSUE DATE: 04/06/2026
PROJECT NO: 2421.2
REVISION DATES:

PLUMBING DETAILS

SHEET
P3.2



1 RISER 1
N.T.S.

NOTES:
RE:P1.1 FOR PLUMBING NOTES AND LEGEND.
RE:P3.1 THRU P3.2 FOR PLUMBING DETAILS.
RE:P5.1 FOR PLUMBING SCHEDULES.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.14057
NATHAN E. WILSON
4/6/26

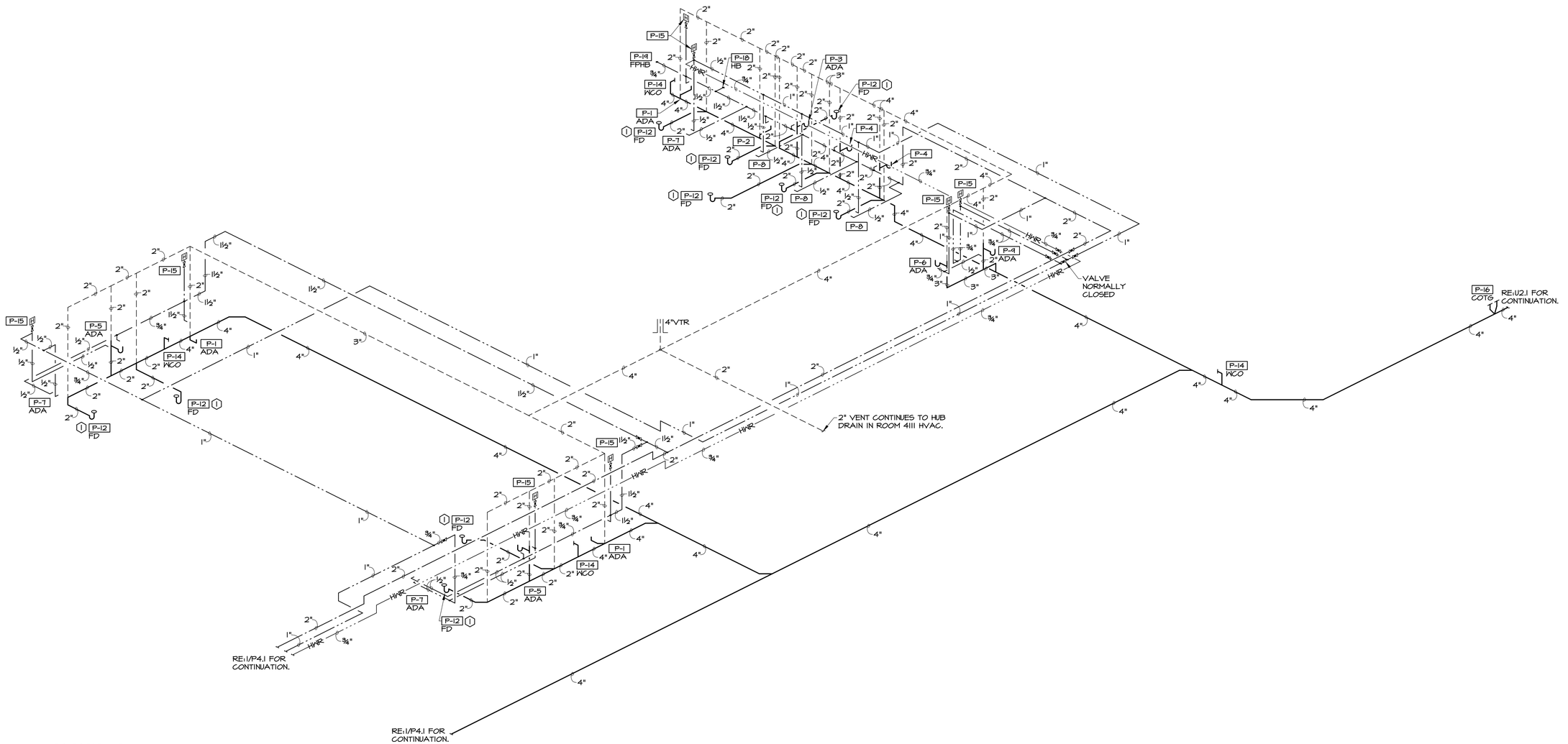
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1351 Gamble Road, Centerton, AR 72719

DRAWN BY: AH
CHECK BY: NEW
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

PLUMBING RISER

SHEET
P4.1



1 RISER 2

N.T.S.

NOTES:
RE:P1.1 FOR PLUMBING NOTES AND LEGEND.
RE:P3.1 THRU P3.2 FOR PLUMBING DETAILS.
RE:P5.1 FOR PLUMBING SCHEDULES.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.14057
NATHAN E. WILSON
4/4/26

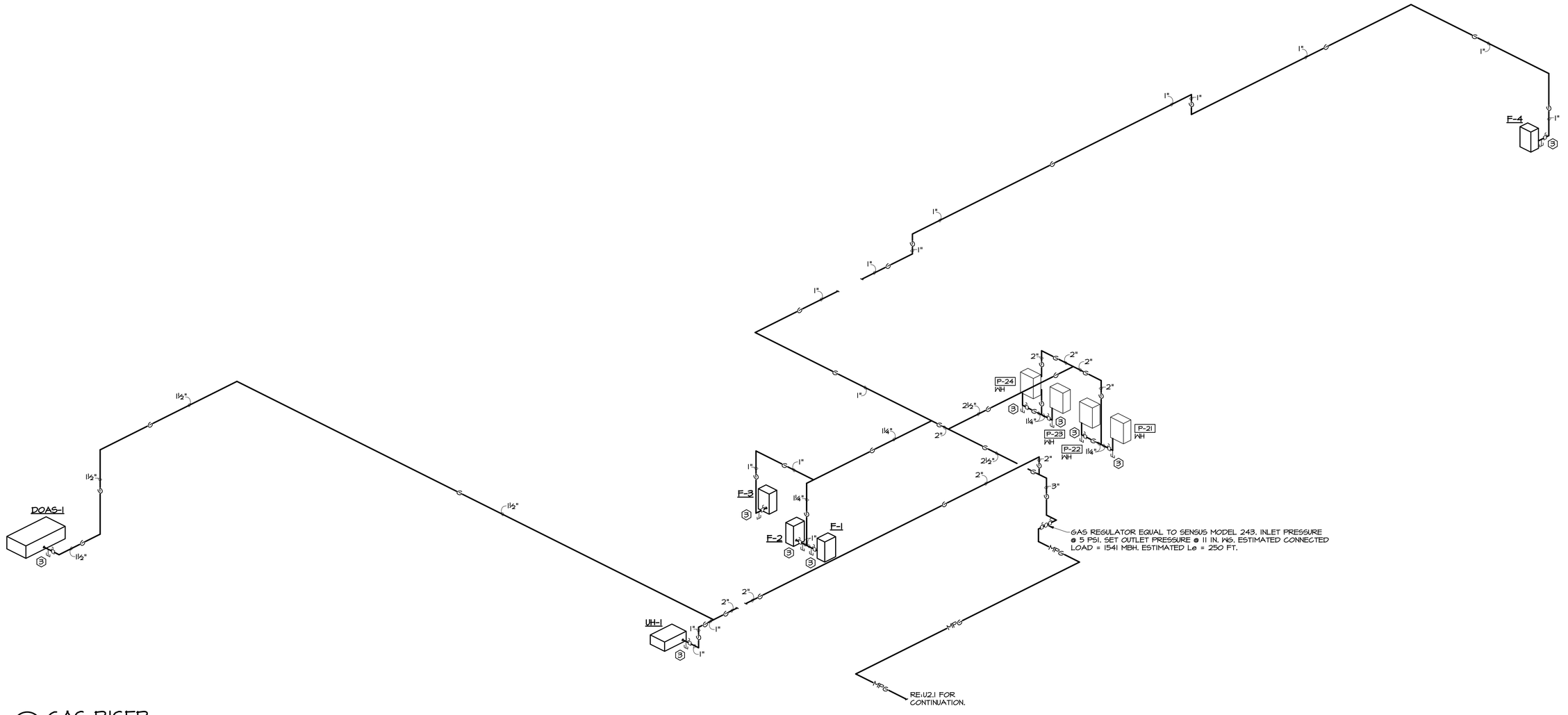
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1351 Gamble Road, Centerton, AR 72719

DRAWN BY: AH
CHECK BY: NEW
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES:

PLUMBING RISER

SHEET
P4.2



GAS REGULATOR EQUAL TO SENSUS MODEL 243. INLET PRESSURE @ 5 PSI. SET OUTLET PRESSURE @ 11 IN. WG. ESTIMATED CONNECTED LOAD = 1541 MBH. ESTIMATED Le = 250 FT.

RE:U2.1 FOR CONTINUATION.

1 GAS RISER

N.T.S.

NOTES:
RE:P1.1 FOR PLUMBING NOTES AND LEGEND.
RE:P3.1 THRU P3.2 FOR PLUMBING DETAILS.
RE:P5.1 FOR PLUMBING SCHEDULES.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.14057 NATHAN E. WILSON
4/6/26

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4985 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1351 Gamble Road, Centerton, AR 72719

DRAWN BY.
AH

CHECK BY.
NEW

ISSUE DATE
04/06/2026

PROJECT NO.
2421.2

REVISION DATES

GAS
RISER

SHEET
P4.3

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	CONNECTION CW	CONNECTION HW	CONNECTION SS	REMARKS / ACCESSORIES
P-1	ACCESSIBLE WATER CLOSET	AMERICAN STANDARD	3043.102	FLOOR	1-1/2	-	4	WHITE VITREOUS CHINA, LOW CONSUMPTION, ELONGATED BOWL, FLUSH VALVE TOILET. PROVIDE SLOAN MODEL SLOAN #111-DFB FLUSH VALVE, OLSONITE #10 SCC OPEN SEAT AND SLOAN YJ TYPE PIPE SUPPORT. PROVIDE BLOCKING IN WALL AS REQUIRED FOR INSTALLATION OF YP PIPE SUPPORT. INSTALL 17" FROM TOP OF SEAT TO FLOOR.
P-2	WATER CLOSET	AMERICAN STANDARD	2234.001	FLOOR	1-1/2	-	4	WHITE VITREOUS CHINA, LOW CONSUPTION, ELONGATED BOWL, FLUSH VALVE TOILET, PROVIDE SLOAN MODEL SLOAN #111-DFB FLUSH VALVE, OLSONITE #10 SCC OPEN SEAT AND SLOAN YJ PIPE SUPPORT. PROVIDE BLOCKING IN WALL AS REQUIRED FOR INSTALLATION OF YJ PIPE SUPPORT.
P-3	ACCESSIBLE URINAL	AMERICAN STANDARD	6550.001	WALL	3/4	-	2	WHITE VITREOUS CHINA, LOW CONSUMPTION URINAL. PROVIDE SLOAN MODEL SLOAN #186-DFB FLUSH VALVE, MADE #400 WALL CARRIER AND SLOAN YJ PIPE SUPPORT. PROVIDE BLOCKING IN WALL AS REQUIRED FOR INSTALLATION OF YJ PIPE SUPPORT. INSTALL 17 IN. A.F.F. TO TOP OF LIP.
P-4	URINAL	AMERICAN STANDARD	6550.001	WALL	3/4	-	2	WHITE VITREOUS CHINA, LOW CONSUMPTION URINAL. PROVIDE SLOAN MODEL SLOAN #186-DFB FLUSH VALVE, MADE #400 WALL CARRIER AND SLOAN YJ PIPE SUPPORT. PROVIDE BLOCKING IN WALL AS REQUIRED FOR INSTALLATION OF YJ PIPE SUPPORT. INSTALL 24 IN. A.F.F. TO TOP OF LIP.
P-5	ACCESSIBLE LAVATORY	AMERICAN STANDARD	0355.012	WALL	1/2	1/2	2	WHITE VITREOUS CHINA LAVATORY WITH FAUCET LEDGE AND BACKSPLASH. PROVIDE CHICAGO MODEL #420-E205ABCP SINGLE LEVER FAUCET, BASE PLATE, GRID DRAIN, MADE #520 WALL CARRIER, HANDI-LAV MOLDED DRAIN & SUPPLY INSULATION KIT. MOUNT 34 IN. A.F.F. TO TOP OF RIM. PROVIDE WATTS LFUSS UNDER COUNTER THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE AT 105 DEGREES F.
P-6	ACCESSIBLE MULTI-USER LAVATORY	WILLOUGHBY	WWF-4204-WALL	WALL	3/4	3/4	2	SEMI-CIRCULAR, DEEP BOWL, WASH FOUNTAIN. PROVIDE MANUFACTURER'S LIQUID SOAP DISPENSER, AND BACK SPLASH. PROVIDE STANDARD PNEUMATIC PUSH BUTTONS FOR SINGLE TEMPERATURE PNEUMATIC METERING, MODEL FPB1. PROVIDE 34" A.F.F. RIM HEIGHT FOR ADA COMPLIANCE FOR FOUR (4) CONCURRENT USERS. PROVIDE QUANTITY WATTS LFUSS THERMOSTATIC MIXING VALVES AS REQUIRED. SET WATER TEMPERATURE TO 105 DEGREES F.
P-7	ACCESSIBLE SHOWER	BRADLEY	HN200	WALL	1/2	1/2	-	RECESS-MOUNTED STAINLESS STEEL ADA COMPLIANT WALL SHOWER. PROVIDE WITH STANDARD MODEL 515 SHOWERHEAD. PROVIDE WITH HANDHELD SHOWER WITH 60" METAL FLEXIBLE HOSE WITH POST STYLE MOUNTING BRACKET AND IN-LINE BACKFLOW PREVENTER. SOAP DISH SHALL BE RECESSED. CONFIRM VALVE-HANDED SIDE WITH ARCHITECTURAL DRAWINGS. PROVIDE BRADLEY TMV THERMOSTATIC MIXING VALVE, VACUUM BREAKER, AND 2 IN. GRID DRAIN. SET WATER TEMPERATURE TO 105 DEGREES F. FIXTURE MUST BE ADA COMPLIANT. REFER TO ARCHITECTURAL FOR EXACT MOUNTING HEIGHTS.
P-8	SHOWER	BRADLEY	MS-1WCA	WALL	1/2	1/2	-	WALL MOUNTED SHOWER SYSTEM WITH PRESSURE ASSISTED MIXING VALVE, BUILT-IN SHUT OFF FOR SINGLE HANDED OPERATION, COLOR COATED DIAL, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP FOR 110 DEGREES F, INLET STOPS, MODEL H-06 INSTITUTIONAL SHOWER HEAD, CAST MOUNTING BRACKET, STAINLESS STEEL VANDAL RESISTANT COVER, VACUUM BREAKER, AND 2 IN. GRID DRAIN. SET WATER TEMPERATURE TO 105 DEGREES F.
P-9	BARRIER FREE HI-LO ELECTRIC WATER COOLER WITH BOTTLE FILLER	ELKAY	EZSTLBWSLK	WALL	1/2	-	2	WALL MOUNTED, HI-LO SPLIT LEVEL, BARRIER FREE ELECTRIC WATER COOLER, WITH BOTTLE FILLING UNIT; 8.0 GPH AT ARI STANDARDS, 115 VOLT, SINGLE PHASE, 1/4 HP, 4.0 FULL LOAD AMPS. COORDINATE LOCATION OF ELECTRICAL OUTLET WITH ELECTRICAL CONT. MOUNT LOW SPOUT 36 IN. A.F.F. TO TOP OF SPOUT. MOUNT HI SPOUT 40 IN. A.F.F TO TOP OF SPOUT UNLESS NOTED OTHERWISE. RE: TO ARCHITECTURAL SHEETS FOR SPECIFIC MOUNTING HEIGHTS.
P-10	LAUNDRY WALL BOX	GUY GRAY	BB200T5	WALL	3/4	3/4	3	WASHING MACHINE WALL BOX WITH TOP SUPPLY AND 2 INCH DRAIN. MOUNT BOTTOM OF BOX MINIMUM 36" AFF.
P-11	SERVICE SINK	FIAT	TSB-100	FLOOR	3/4	3/4	3	TERRAZZO 24x24x12 SERVICE SINK. PROVIDE T&S BRASS B-0665-BSTP CHROME PLATED FAUCET WITH INTEGRAL SERVICE STOPS, ETERNA CARTRIDGES WITH SPRING CHECKS, TOP BRACE AND B-0963 VACUUM BREAKER, FIAT #832-AA HOSE AND BRACKET, 3 IN. GRID DRAIN AND STRAINER, 3 MOP HOLDER, AND STAINLESS STEEL WALL GUARDS FOR ALL ADJACENT WALLS. MOUNT FAUCET AT 36 IN. A.F.F. MOUNT MOP HOLDER AT 60 IN. A.F.F.
P-12	FLOOR DRAIN	WADE	1100	FLOOR	-	-	*	*CAST IRON FLOOR DRAIN, SIZE AS INDICATED ON PLANS OR MATCH INDICATED WASTE LINE. PROVIDE DEEP SEAL TRAP. COORDINATE DRAIN TOP MATERIAL WITH SPECIFIED FLOOR FINISH.
P-13	FLOOR SINK	WADE	9110	FLOOR	-	-	*	*CAST IRON FLOOR SINK WITH NICKEL BRONZE GRATE. SIZE AS INDICATED ON PLANS OR MATCH WASTE LINE SIZE WHEN NOT INDICATED. PROVIDE 3/4 GRATE AND DEEP SEAL TRAP.
P-14	WALL CLEAN OUT	WADE	8550-R	WALL	-	-	*	*SIZE TO MATCH WASTE LINE, MAXIMUM TO 4 INCHES. PROVIDE WADE 8304 STAINLESS STEEL WALL ACCESS COVER.
P-15	WATER HAMMER ARRESTOR	WADE BELLOWS	SHOKSTOP	ACCESSIBLE LOCATION	*	*	-	*SIZE WATER HAMMER ARRESTOR PER MANUFACTURER'S RECOMMENDATIONS. ALL STAINLESS STEEL CONSTRUCTION WITH WELDED NESTED BELLOWS. PROVIDE BALL VALVE FOR SHUT-OFF.
P-16	CLEAN OUT TO GRADE	WADE	6000Z	GRADE	-	-	*	*SIZE TO MATCH WASTE LINE MAXIMUM TO 4 INCHES. PROVIDE HEAVY DUTY TRACTOR TYPE COVER.
P-17	DOWNSPOUT BOOT	WADE	3930	WALL	-	-	*	CAST IRON COATED RECTANGULAR DOWNSPOUT BOOT. PAINT PER ARCHITECTURAL SPECIFICATIONS; COLOR TO BE SELECTED BY ARCHITECT.
P-18	HOSE BIB	WOODFORD	B13	WALL	3/4	-	-	HOSE BIB IN LOCKING BOX. PROVIDE VACUUM BREAKER, BACKFLOW AND AUTOMATIC DRAIN. FIELD VERIFY ROUGH IN DIMENSIONS. INSTALL 18" A.F.F.
P-19	FREEZE PROOF HOSE BIB	WOODFORD	B61	WALL	3/4	-	-	FREEZE PROOF HOSE BIB IN LOCKING BOX. PROVIDE VACUUM BREAKER AND BACKFLOW PREVENTION.
P-20	HUB DRAIN	-	PVC REDUCER	ACCESSIBLE LOCATION	-	-	2	PVC REDUCER WITH TRAP. PROVIDE TRAP GUARD PROTECTION. REDUCER SHALL BE WITHIN TWO PIPE SIZES OF CONNECTED SANITARY PIPING.
P-21	TANKLESS GAS WATER HEATER	NAVIEN	NPE-240/S2	WALL	3/4	3/4	-	TANKLESS GAS WATER HEATER, 3.9 GPM @ 100 DEGREE F TEMPERATURE RISE. 199 MBH. 120V / 60 HZ, 200 WATT, 2 AMP MAX POWER CONSUMPTION. PROVIDE CONCENTRIC VENT KIT, DRAIN KIT, MANUFACTURER'S DRAIN PAIN AND SERVICE VALVE KIT. SET WATER TEMPERATURE TO 125 DEGREES F.
P-22	TANKLESS GAS WATER HEATER	NAVIEN	NPE-240/S2	WALL	3/4	3/4	-	TANKLESS GAS WATER HEATER, 3.9 GPM @ 100 DEGREE F TEMPERATURE RISE. 199 MBH. 120V / 60 HZ, 200 WATT, 2 AMP MAX POWER CONSUMPTION. PROVIDE CONCENTRIC VENT KIT, DRAIN KIT, MANUFACTURER'S DRAIN PAIN AND SERVICE VALVE KIT. SET WATER TEMPERATURE TO 125 DEGREES
P-23	TANKLESS GAS WATER HEATER	NAVIEN	NPE-240/S2	WALL	3/4	3/4	-	TANKLESS GAS WATER HEATER, 3.9 GPM @ 100 DEGREE F TEMPERATURE RISE. 199 MBH. 120V / 60 HZ, 200 WATT, 2 AMP MAX POWER CONSUMPTION. PROVIDE CONCENTRIC VENT KIT, DRAIN KIT, MANUFACTURER'S DRAIN PAIN AND SERVICE VALVE KIT. SET WATER TEMPERATURE TO 125 DEGREES
P-24	TANKLESS GAS WATER HEATER	NAVIEN	NPE-240/S2	WALL	3/4	3/4	-	TANKLESS GAS WATER HEATER, 3.9 GPM @ 100 DEGREE F TEMPERATURE RISE. 199 MBH. 120V / 60 HZ, 200 WATT, 2 AMP MAX POWER CONSUMPTION. PROVIDE CONCENTRIC VENT KIT, DRAIN KIT, MANUFACTURER'S DRAIN PAIN AND SERVICE VALVE KIT. SET WATER TEMPERATURE TO 125 DEGREES
P-25	CONDENSATE POPPER	-	PVC	GRADE	-	-	*	* SIZE TO MATCH CONDENSATE DRAIN LINE. PROVIDE STANDARD THREADED PLUG ADAPTER AND RELIEF POPPER VALVE AS REQUIRED. RE:12/P3.1 FOR DETAIL. CONDENSATE POPPER MUST BE INSTALLED PRIOR TO CONDENSATE PIPING CONNECTION TO STORM DRAIN SYSTEM. VERIFY EXACT LOCATION AS REQUIRED.
P-26	ICE MAKER WALL BOX	GUY GRAY	BIM875	WALL	1/2	-	-	WALL MOUNTED ICE MAKER HOOK UP WITH ANGLE VALVE.

NOTES
1. COORDINATE COUNTER TOP FIXTURE INSTALLATION WITH MILLWORK.
2. INSTALL ACCESSIBLE FLUSH VALVE TO THE ACCESSIBLE SIDE.
3. ( ) DENOTES INDIRECT DRAIN.
4. MECHANICAL CONTRACTOR SHALL PROVIDE APPROVED TRAP GUARDS ON ALL FLOOR SINKS AND FLOOR DRAINS.

CIRCULATING PUMP SCHEDULE

MARK	MFG	MODEL	GPM	HEAD (FT)	VLT / PH / HZ	WATTS	REMARKS / ACCESSORIES
CP-1	BELL & GOSSETT	NBF-36	12	20	115 / 1 / 60	270	1, 2, 3, 4

ACCESSORIES
1. BRONZE CONSTRUCTION FOR HOT WATER RECIRCULATION.
2. PROVIDE AQUASTAT.
3. PLUMBING CONTRACTOR TO PROVIDE TC-1 AUTOMATIC TIMER.
4. PROVIDE 3 SPEED MOTOR.

NOTES:
RE:P1.1 FOR PLUMBING LEGEND, GENERAL AND KEYED NOTES.
RE:P2.1 FOR PLUMBING PLANS. RE:P3.1-P3.2 FOR PLUMBING DETAILS.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.14057 NATHAN E. WILSON 4/6/26

HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: AH
CHECK BY: NEW
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

PLUMBING SCHEDULES

SHEET
P5.1

GENERAL HVAC NOTES

1. COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES, SPRINKLERS AND CEILING GRID.
2. INDICATED DUCT SIZES ARE NET FREE AREA.
3. ADJUST ALL AIR QUANTITIES AS SHOWN ON THE PLANS AFTER COMPLETION OF THE JOB.
4. INSULATE THE SUPPLY GRILLE TOPS, RETURN AIR GRILLE PLENUMS AND EXHAUST AIR PLENUMS WITH 2 IN., 3/4 LB DENSITY FOIL BACKED INSULATION.
5. FIRE AND/OR SMOKE DAMPERS ARE INDICATED ON MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATIONS AND FIRE RATING REQUIREMENTS WHERE ANY DUCT PASSES THROUGH A PARTITION. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF ALL FIRE AND SMOKE PARTITIONS. VERIFY REQUIRED DAMPER ASSEMBLY IN ALL DUCTS PENETRATING THESE WALLS PER ALL STATE AND LOCAL CODES.
6. EXTERNALLY INSULATE ALL ROUND SUPPLY AND RETURN DUCT. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCT PER MECHANICAL CODE. ATTACH THE INTERNAL INSULATION TO THE DUCT WITH APPROVED ADHESIVE AND WELDED FASTENERS.
7. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
8. INTERIOR OF ALL DUCT PLENUMS VISIBLE THROUGH GRILLE SHALL BE PAINTED MATTE BLACK PRIOR TO INSTALLATION.
9. INTERLOCK EXHAUST FANS WITH LIGHT SWITCHES. REFER TO ELECTRICAL PLANS.
10. PAINT ALL SUPPLY AND RETURN AIR GRILLES NOT SPECIFIED AS PRE-FINISHED, TO ARCHITECT'S SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
11. MAINTAIN 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST OUTLETS, GAS FLUES AND PLUMBING VENTS.
12. INSTALL VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, EXHAUST AND FRESH AIR BRANCH DUCT RUNS.
13. RECIRCULATING AIR SYSTEMS WITH A FAN CAPACITY GREATER THAN 2,000 NOMINAL CFM SHALL AUTOMATICALLY SHUT DOWN BY MEANS OF AN APPROVED SMOKE DETECTOR PLACED IN THE RETURN AIR STREAM PRIOR TO ANY EXHAUSTING FROM THE BUILDING OR MIXING WITH FRESH AIR MAKEUP. ALL CONTROLS SHALL BE LISTED. UPON ACTIVATION OF THE SAFETY CONTROL, THE SYSTEM SHALL NOT RESTART UNTIL THE SAFETY CONTROL IS MANUALLY RESET.
14. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE MECHANICAL CODE.
15. SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL. DUCT TAPE, WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
16. FABRICATE AND INSTALL ALL GALVANIZED DUCT SYSTEMS TO SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION, AND MECHANICAL CODE.
17. FABRICATE AND INSTALL AUXILIARY CONDENSATE DRAIN PAN UNDER ENTIRE AIR HANDLER WITH CONDENSATE PAN SWITCH INTERLOCKED WITH AIR HANDLER FOR SHUT DOWN WHEN CONDENSATE OVER FLOW IS SENSED.
18. SMOKE DETECTOR PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
19. SUPPLY AIR SYSTEMS AND RETURN AIR SYSTEMS INSTALLED IN AN ATTIC, VENTILATED CRAWL SPACE OR OTHER NON-CONDITIONED AREA SHALL BE INSULATED.
20. SPRINKLER CONTRACTOR TO BE RESPONSIBLE FOR ROUTING ALL SPRINKLER PIPING TO AVOID ALL UNCONDITIONED SPACES.
21. DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.

MECHANICAL LEGEND

- SUPPLY DUCT SECTION
- RETURN OR EXHAUST DUCT SECTION
- CEILING SUPPLY GRILLE
- CEILING RETURN GRILLE
- CEILING EXHAUST GRILLE
- SIDEWALL SUPPLY OR RETURN GRILLE
- (1) SEE KEYED NOTES
- SUPPLY, RETURN, OR EXHAUST DUCT
- OR VOLUME DAMPER
- RECTANGULAR DUCT FIRE DAMPER
- 1FD ROUND DUCT FIRE DAMPER (NUMBER DENOTES FIRE RATING OF WALL. EXAMPLE: 1FD = ONE HR. RATED WALL)
- FLEX DUCT CONNECTION MAXIMUM OF 5 FT.
- SD SMOKE DETECTOR
- F-1 T THERMOSTAT, MOUNT AT 48" A.F.F TO TOP (NUMBER DENOTES FURNACE OR AIR HANDLER UNIT)

UNIT HEATER SCHEDULE

MARK	MFG	MODEL	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	FUEL TYPE	M.C.A	MOTOR HP	VOLT / PH / HZ	ACCESSORIES
UH-1	STERLING	GS-105	105	86.1	GAS	7.5	1/10	120 / 1 / 60	1, 2, 3, 4, 5

REMARKS/ACCESSORIES
1. PROVIDE RELAY FOR LOW VOLTAGE CONTROL (24V)
2. PROVIDE LON VOLTAGE THERMOSTAT AND SUBBASE.
3. PROVIDE FACTORY COMBINATION VENT AND COMBUSTION AIR KIT. REFER TO 10/M3.1 FOR DETAIL
4. PROVIDE SPARK IGNITION
5. PROVIDE FACTORY SUSPENSION HANGING KIT.

FURNACE SCHEDULE (OWNER PROVIDED)

MARK	MFG.	MODEL	ESP IN. WG	CFM	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	FUEL TYPE	OUTSIDE AIR (CFM)	FAN MOTOR HP	VOLT/PH/HZ	REMARKS / ACCESSORIES
F-1	DAIKIN	DR96SN080B5CN	0.5	1600	80	76	GAS	200	3/4	115 / 1 / 60	1 THRU 9
F-2	DAIKIN	DR96SN080B5CN	0.5	1600	80	76	GAS	250	3/4	115 / 1 / 60	1 THRU 9
F-3	DAIKIN	DR96SN0804CN	0.5	1400	80	76	GAS	350	3/4	115 / 1 / 60	1 THRU 9
F-4	DAIKIN	DR96SN100B5CN	0.5	2000	100	95	GAS	300	3/4	115 / 1 / 60	1 THRU 9

REMARKS/ACCESSORIES
1. 92% MIN. AFUE UPFLOW GAS FURNACE.
2. ELECTRONIC SPARK IGNITION.
3. PROVIDE FACTORY VERTICAL CONCENTRIC VENT TERMINATION KITS REFER TO 7/M3.1 FOR DETAIL.
4. 10 YEAR MIN. NON-PRORATED HEAT EXCHANGER.
5. PROVIDE 2" FARR 30/30 FILTERS.
6. PROVIDE FILTER HOUSING EQUAL TO MCDANIEL METALS "ACCOMMODATOR" FILTER HOUSING. HOUSING MUST ACCEPT UP TO 2 INCH FILTER.
7. PROVIDE MATCHING MULTI-POSITION CASED "A" TYPE COIL WITH TXV REFRIGERANT CONTROL.
8. PROVIDE 20 GUAGE METAL FURNACE STAND PER DETAIL 6/M3.1. BUILD TO FIT RETURN AIRFLOW PATH PER PLANS.
9. EQUIPMENT IS TO BE OWNER PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.

CONDENSER SCHEDULE (OWNER PROVIDED)

MARK	MFG.	MODEL	TMBH	SMBH	MCA	MOP	VOLT/PH/HZ	REMARKS / ACCESSORIES
CU-1	DAIKIN	DC55EA4810	45.5	33.2	25.5	40	208-230 / 1 / 60	1 THRU 6
CU-2	DAIKIN	DC55EA4810	45.5	33.2	25.5	40	208-230 / 1 / 60	1 THRU 6
CU-3	DAIKIN	DC55EA4810	45.5	33.2	25.5	40	208-230 / 1 / 60	1 THRU 6
CU-4	DAIKIN	DC55EA6010	56	41	36.4	60	208-230 / 1 / 60	1 THRU 6

REMARKS/ACCESSORIES
1. MINIMUM 14.0 SEER CONDENSER.
2. PROVIDE LOW AMBIENT TO 0° F CONTROL WITH TXV AND CRANK CASE HEATERS.
3. PROVIDE LIQUID LINE FILTER DRYER.
4. PROVIDE FACTORY HAIL GUARD.
5. SIZE AND INSTALL REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS.
6. EQUIPMENT IS TO BE OWNER PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.

AIR DISTRIBUTION SCHEDULE

MARK	CFM	NECK SIZE	MFG.	MODEL	TYPE	FINISH	FRAME	REMARKS/ ACCESSORIES
A	50-75	6"Ø	TITUS	TMS	4-WAY SUPPLY	WHITE	LAY-IN	1, 6
B	100-200	8"Ø	TITUS	TMS	4-WAY SUPPLY	WHITE	LAY-IN	1, 6
C	205-300	10"Ø	TITUS	TMS	4-WAY SUPPLY	WHITE	LAY-IN	1, 6
D	305-400	12"Ø	TITUS	TMS	4-WAY SUPPLY	WHITE	LAY-IN	1, 6
E	200-1200	22" X 22"	TITUS	355RL	RETURN	WHITE	LAY-IN	1, 4, 6
F	100-375	22" X 22"	TITUS	50F	EXHAUST	WHITE	LAY-IN	2, 4, 6
G	200-400	16" X 8"	TITUS	272RL	SIDEWALL SUPPLY	PRIMED	SURFACE	1, 3, 5, 7
H	800	12" X 10"	TITUS	50F	SIDEWALL EXHAUST	WHITE	SURFACE	2, 5
K	1400	32" X 16"	TITUS	355RL	SIDEWALL RETURN	WHITE	SURFACE	1, 5
L	600	16" X 16"	TITUS	355RL	SIDEWALL RETURN	WHITE	SURFACE	1, 5

REMARKS/ACCESSORIES

1. STEEL CONSTRUCTION.
2. ALUMINUM CONSTRUCTION.
3. PROVIDE DOUBLE DIRECTIONAL BLADES.
4. NO SCREW HOLES.
5. PROVIDE WITH COUNTER-SUNK SCREW HOLES.
6. PROVIDE RAPID-MOUNT FRAME FOR GRILLES IN GYPSUM CEILINGS.
7. DIFFUSER TO BE PRIMED FOR PAINT. ARCHITECT TO PROVIDE COLOR FINISH SELECTION.

EXHAUST FAN SCHEDULE

MARK	MFG.	MODEL	CFM	ESP. IN. WG	H.P./WATTS	VOLT/PH/HZ	SONE	RPM	REMARKS / ACCESSORIES
EF-1	GREENHECK	AER-20	3500	0.5	3/4	115 / 1 / 60	24	1687	1, 2, 5, 6, 7, 8
EF-2	GREENHECK	CSP-A700	650	0.5	148 W	115 / 1 / 60	2.1	1235	1, 2, 3, 4
EF-3	GREENHECK	CSP-A200	75	0.5	110 W	115	2.2	825	1, 2, 3, 9

REMARKS/ACCESSORIES
1. PROVIDE FACTORY BACK DRAFT DAMPER.
2. PROVIDE DIRECT DRIVE MOTOR WITH FAN SPEED CONTROLLER.
3. PROVIDE FACTORY CEILING HUNG VIBRATION ISOLATORS.
4. PROVIDE LINE VOLTAGE THERMOSTAT.
5. PROVIDE WITH WALL SWITCH. INTERLOCK WITH MOTORIZED INTAKE LOUVER PER PLANS.
6. PROVIDE OSHA MOTOR GUARD.
7. PROVIDE FACTORY WALL SLEEVE.
8. PROVIDE EXTERIOR WEATHER HOOD WITH A WHITE FINISH. MATCH LOUVERS.
9. INTERLOCK FAN WITH LIGHT SWITCH.

AIR CONDITIONER SCHEDULE (OWNER PROVIDED)

MARK	MFG	UNIT MODEL NUMBERS OUTDOOR	UNIT MODEL NUMBERS INDOOR	MOUNTING STYLE	TON(S)	CFM (LO-M1-M2-HI)	COOLING TMBH	COOLING SMBH	HEATING MBH	UNIT WEIGHTS OUTDOOR	UNIT WEIGHTS INDOOR	ELECTRICAL (SINGLE POINT CONNECTION) M.C.A.	M.O.P.	VOLT / PH / HZ	ACCESSORIES
AC-1	DAIKIN	RKF12AXVJU	FTKF12AXVJU	WALL	1 TON	132-316-436-473	12	9.5	-	75	20	9.15	15	208-230 / 1 / 60	1 THRU 5

REMARKS/ACCESSORIES
1. PROVIDE WIRELESS REMOTE UNIT.
2. PROVIDE OUTDOOR CONDENSING UNIT, MODEL RUY-A30 (CU-1, 2 & 3), WEIGHT-190 LBS.
3. PROVIDE FACTORY WALL MOUNTING HARDWARE. INSTALL 5'-0" A.F.F. IN LOCATION INDICATED ON PLAN.
4. PROVIDE WITH LON AMBIENT KIT TO 0° F.
5. EQUIPMENT IS TO BE OWNER PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.

LOUVER SCHEDULE

MARK	CFM	NECK SIZE	MFG	MODEL	TYPE	FINISH	FRAME	ACCESSORIES
EL-1	650	24" X 16"	GREEHECK	ESD-635	EXHAUST LOUVER	BAKED ENAMEL	FLANGED	1, 2, 3, 6
IL-1	3500	44" X 32"	GREENHECK	EAD-635	INTAKE LOUVER	BAKED ENAMEL	FLANGED	1, 2, 3, 4, 5, 6
IL-2	650	24" X 16"	GREENHECK	ESD-635	INTAKE LOUVER	BAKED ENAMEL	FLANGED	1, 2, 3, 6

REMARKS/ACCESSORIES
1. ALUMINUM CONSTRUCTION.
2. PROVIDE STEEL BIRD SCREEN.
3. PROVIDE FACTORY SIGHT-PROOF, STATIONARY, DRAINABLE LOUVER.
4. PROVIDE COMBINATION LOUVER/DAMPER WITH 120 VOLT ACTUATOR AND END SWITCH.
5. INTERLOCK MOTORIZED LOUVER WITH EXHAUST FAN AS NOTED ON PLANS.
6. PROVIDE WHITE FINISH TO MATCH EXHAUST FAN WEATHER HOOD.

DEDICATED OUTSIDE AIR UNIT WITH ENERGY RECOVERY VENTALATOR SCHEDULE (OWNER PROVIDED)

MARK	MFG.	MODEL	AIRFLOW SUPP. CFM	AIRFLOW EXH. CFM	AIRFLOW SUPP. MOTOR HP	AIRFLOW EX. MOTOR HP	AIRFLOW ESP SUPP./EX.	SUPPLY AIR SUMMER (DB/WB)	SUPPLY AIR WINTER (DB/WB)	EXHAUST AIR SUMMER (DB/WB)	EXHAUST AIR WINTER (DB/WB)	COOLING TMBH	COOLING EAT °F (DB/WB)	COOLING LAT °F (DB/WB)	HEATING INPUT / OUTPUT (MBH)	HEATING EAT °F	HEATING LAT °F	HEATING FUEL	ELECTRICAL MCA	ELECTRICAL MOP	ELECTRICAL VOLT/PH/HZ	REMARKS / ACCESSORIES
DOAS-1	DAIKIN	DPSC17	4000	3355	4.4	3	0.5 / 0.5	96.6 / 74.5	10.1 / 8.0	75.0 / 63.8	70.0 / 53.0	185.65	85.0 / 69.5	54.0 / 54.0	300 / 243	42.3	90.3	GAS	49.9	70	460 / 3 / 60	1 THRU 13

REMARKS/ACCESSORIES

1. PROVIDE HINGED ACCESS PANELS
2. PROVIDE DOUBLE WALL UNIT CONSTRUCTION
3. PROVIDE FACTORY NON FUSED DISCONNECT SWITCH
4. PROVIDE FACTORY HAIL GUARD.
5. PROVIDE FACTORY STAINLESS STEEL CONDENSATE PAN
6. PROVIDE ENERGY RECOVERY FIXED PLATE HEAT EXCHANGER.
7. PROVIDE MICROPROCESSOR CONTROLS
8. PROVIDE FACTORY INSTALLED BACNETMSP
9. PROVIDE HOT GAS REHEAT.
10. PROVIDE FACTORY 2" MERV 8 SUPPLY AND RETURN AIR FILTERS
11. PROVIDE MODULATING GAS FURNACE
12. PROVIDE 1 YR UNIT, 5 YR WHEEL, 25 YEAR HEAT EXCHANGER, AND 5 YEAR COMPRESSOR WARRANTY.
13. EQUIPMENT IS TO BE OWNER PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.

NOTES:
REFER TO SHEET M1.1 FOR HVAC NOTES, LEGEND & SCHEDULES
REFER TO SHEET M2.1 FOR HVAC PLANS.
REFER TO SHEET M3.1 FOR HVAC DETAILS.
REFER TO SHEET M4.1 FOR HVAC CONTROLS.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER NATHAN E. WILSON No.14057 — 1/16/26

HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

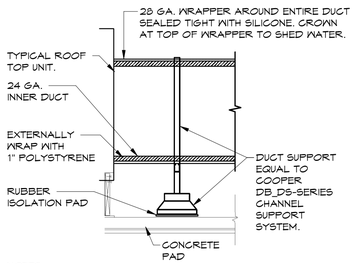
A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: RJK
CHECK BY: NEW
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

HVAC NOTES, LEGEND & SCHEDULES
SHEET
M1.1

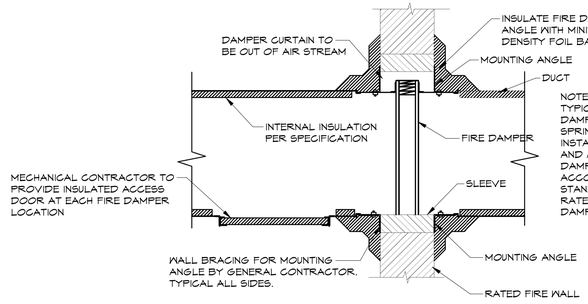
HVAC KEYED NOTES

1. SMOKE DETECTORS TO BE INSTALLED IN THE SUPPLY AND RETURN AIR DUCTS AND INTERLOCKED WITH AIR HANDLER FAN FOR SHUT-OFF PER N.F.P.A. 90 A & B ON ALL AIR HANDLERS GREATER THAN 2000 C.F.M. SUPPLY AIR DUCT SMOKE DETECTOR SHALL BE INSTALLED ON SUPPLY SIDE OF AIR HANDLING SYSTEM DOWN STREAM OF ANY AIR FILTERS AND PRIOR TO ANY BRANCH DUCT CONNECTIONS. EXCEPTION: THE SMOKE DETECTOR IN THE SUPPLY AIR STREAM MAY BE OMITTED IN SYSTEMS 2000 C.F.M. OR LESS. CAPACITY. RECIRCULATING AIR SYSTEMS WITH FAN CAPACITY LESS THAN 2000 C.F.M., BUT SERVING AREAS USED FOR EGRESS SHALL HAVE AUTOMATIC SMOKE DETECTION SHUTDOWN. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED BY (MECHANICAL CONTRACTOR) (FIRE ALARM CONTRACTOR). MECHANICAL CONTRACTOR SHALL WIRE SMOKE DETECTOR TO THE FAN SHUT OFF CONTACTS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ACCESSORIES REQUIRED TO MAKE THE FAN SHUT OFF CONNECTION. LOCATE SMOKE DETECTORS IN RETURN AIR DUCT PRIOR TO THE INTRODUCTION OF THE OUTSIDE AIR. (MECHANICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS COMPATIBLE WITH THE BUILDING'S EXISTING FIRE ALARM SYSTEM.)
2. MAINTAIN A MINIMUM OF 10 FT. CLEARANCE BETWEEN ALL EXHAUST OUTLETS, FLUES, PLUMBING VENTS AND ANY FRESH AIR INTAKES. IF 10 FT. CLEARANCE CAN NOT BE MAINTAINED EXHAUST OUTLET, FLUE, OR VENT MUST TERMINATE AT A POINT AT LEAST 36 IN. ABOVE HIGHEST FRESH AIR INTAKE WITHIN 10 FT. LIMIT.
3. LOCATE THERMOSTAT OR SENSOR AS INDICATED WITH THE TOP OF THE THERMOSTAT AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.
4. COVER DUCT OPENING WITH 3/4" PAINTED EXPANDED METAL WITH 70% FREE AREA.
5. COVER DUCT WALL PENETRATION WITH 20 GUAGE GALVANIZED SHEET METAL HOOD. SEAL ALL JOINTS AND CONNECTIONS WITH WEATHER-PROOF SEALANT.
6. PROVIDE TYPE "G" SUPPLY GRILLE OFF OF F-2 SUPPLY DUCT WITHIN 4104 - MECHANICAL ROOM. PROVIDE BALANCING DAMPER AND BALANCE GRILLE TO 100 CFM.



NOTES:
1. DUCT SHALL BE SUPPORTED AT ALL ELBOWS AND TEES AND AT 10 FT. MAX. SPACING.
2. DO NOT ATTACH BLOCKING TO CONCRETE PAD.
3. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

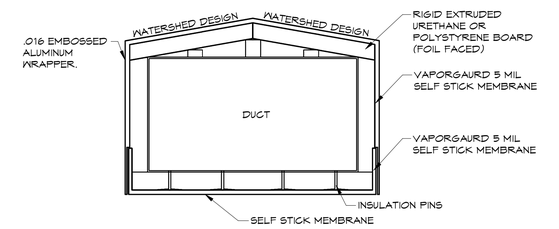
4 EXTERNAL DUCT SUPPORT DETAIL
NTS



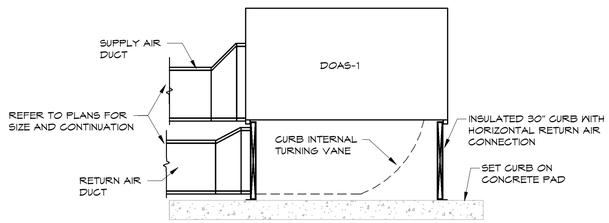
NOTE:
TYPICAL INSTALLATION SHOWN FOR VERTICAL FIRE DAMPER. HORIZONTAL FIRE DAMPERS TO BE SPRING LOADED. ALL FIRE DAMPERS AND INSTALLATIONS TO CONFORM TO N.F.P.A. 90A & B AND ALL STATE AND LOCAL CODES. FIRE DAMPERS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE LATEST U.L. SAFETY STANDARD 555 AND U.L. LABELED AS A DYNAMIC RATED FIRE DAMPER. (STATIC RATED FIRE DAMPERS ARE NOT ALLOWED).

GENERAL CONTRACTOR TO PROVIDE ACCESS PANELS OR DOORS IN DRYWALL CEILINGS ADJACENT TO ACCESS DOORS IN DUCTWORK. COORDINATE WITH MECHANICAL CONTRACTOR.

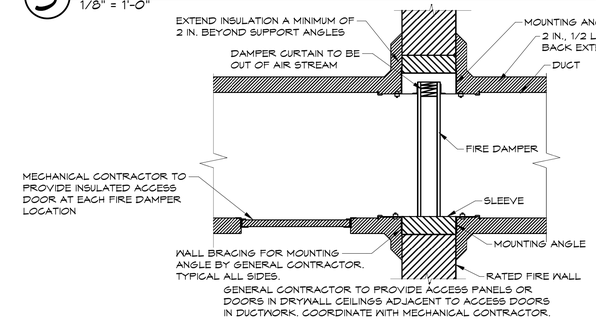
5 INTERNAL INSULATION FIRE DAMPER
1/8" = 1'-0"



2 EXTERNAL DUCT INSULATION DETAIL
NTS



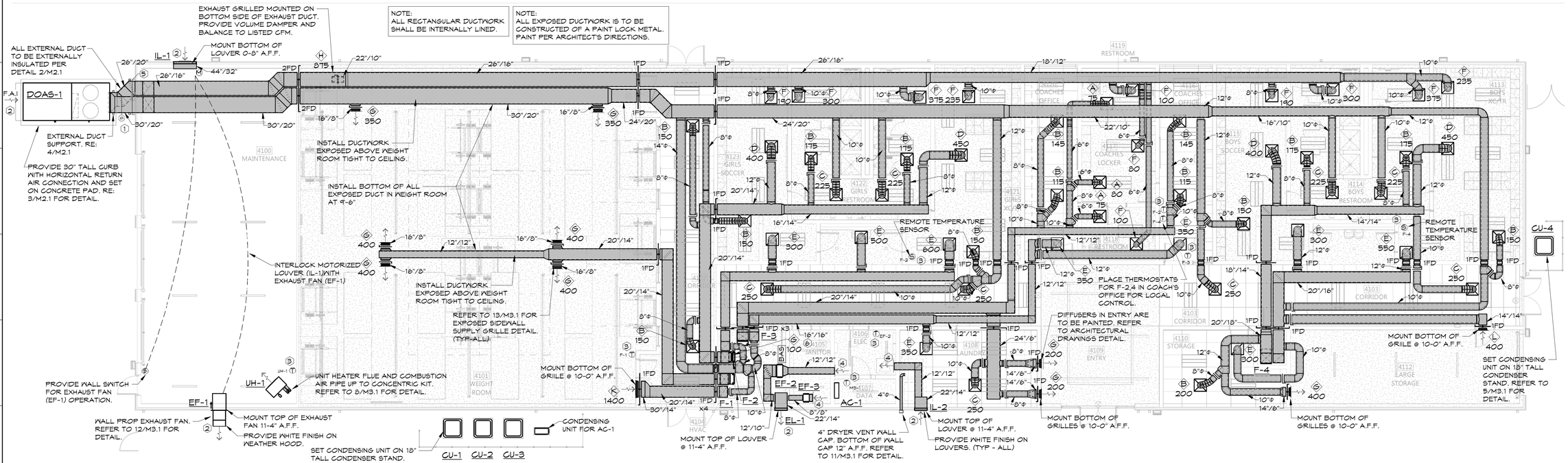
3 DOAS-1 CURB DETAIL
N.T.S



NOTE:
TYPICAL INSTALLATION SHOWN FOR VERTICAL FIRE DAMPER. HORIZONTAL FIRE DAMPERS TO BE SPRING LOADED. ALL FIRE DAMPERS AND INSTALLATIONS TO CONFORM TO N.F.P.A. 90A & B AND ALL STATE AND LOCAL CODES. FIRE DAMPERS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE LATEST U.L. SAFETY STANDARD 555 AND U.L. LABELED AS A DYNAMIC RATED FIRE DAMPER. (STATIC RATED FIRE DAMPERS ARE NOT ALLOWED).

GENERAL CONTRACTOR TO PROVIDE ACCESS PANELS OR DOORS IN DRYWALL CEILINGS ADJACENT TO ACCESS DOORS IN DUCTWORK. COORDINATE WITH MECHANICAL CONTRACTOR.

6 EXTERNAL INSULATION FIRE DAMPER
1/8" = 1'-0"



1 HVAC PLAN
1/8" = 1'-0"

NORTH

NOTES:
REFER TO SHEET M1.1 FOR HVAC NOTES, LEGEND & SCHEDULES
REFER TO SHEET M2.1 FOR HVAC PLANS.
REFER TO SHEET M3.1 FOR HVAC DETAILS.
REFER TO SHEET M4.1 FOR HVAC CONTROLS.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER NATHAN E. WILSON No.14057 4/16/26

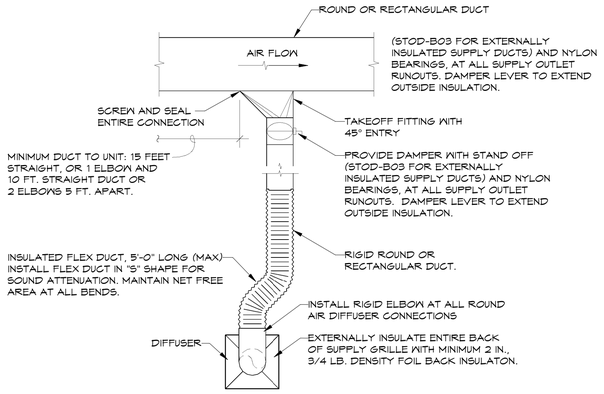
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

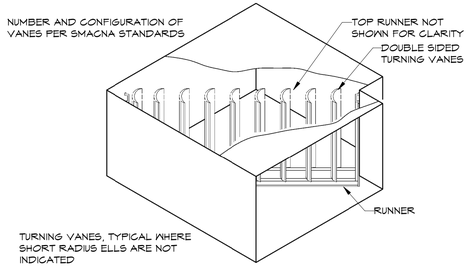
DRAWN BY: RJK
CHECK BY: NEW
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES:

HVAC PLAN

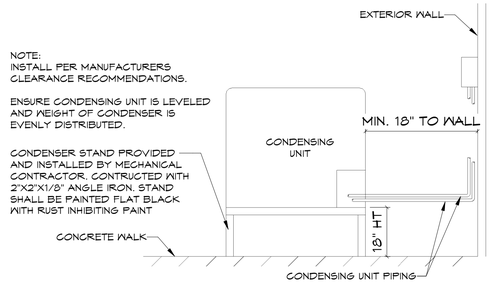
SHEET
M2.1



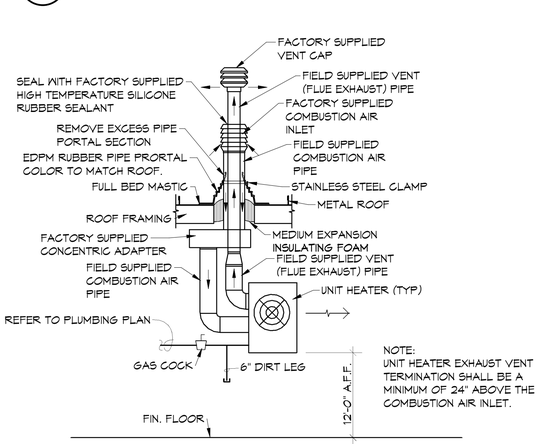
1 SUPPLY DUCT CONNECTION DETAIL
NTS



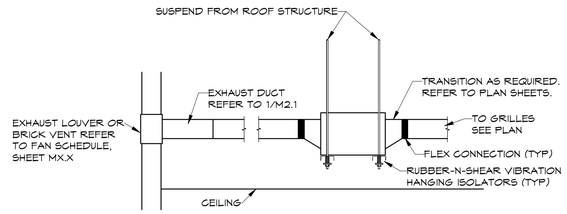
4 TURNING VANE DETAIL
NTS



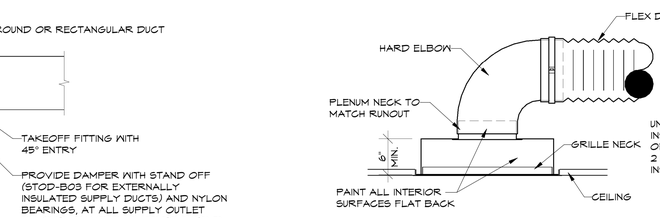
5 CONDENSER STAND DETAIL
NTS



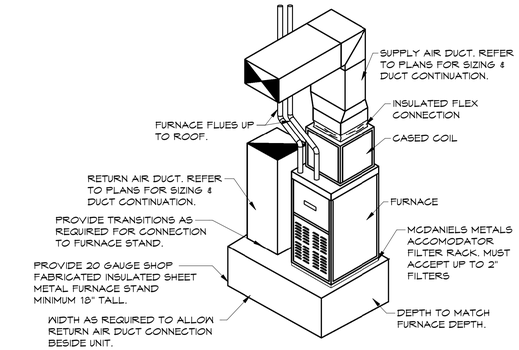
8 UNIT HEATER DETAIL
NTS



9 INLINE EXHAUST FAN DETAIL
N.T.S.

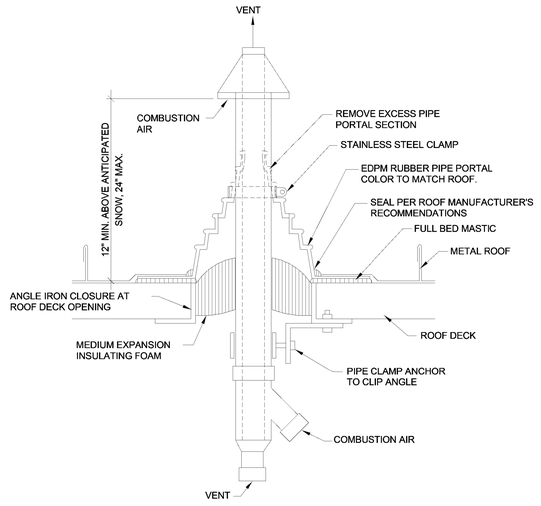


2 RETURN DUCT CONNECTION DETAIL
NTS

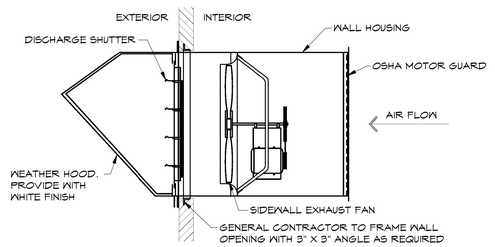


6 FURNACE STAND DETAIL
N.T.S.

3 RETURN GRILLE CONNECTION SECTION
NTS

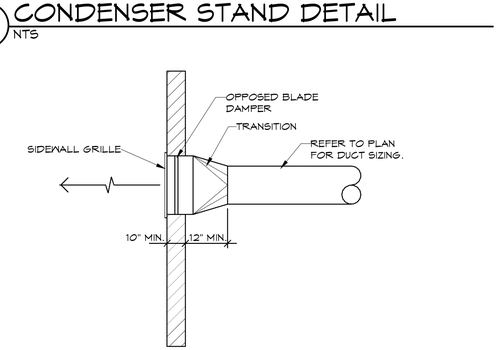


7 FURNACE CONCENTRIC VENT DETAIL
NTS.

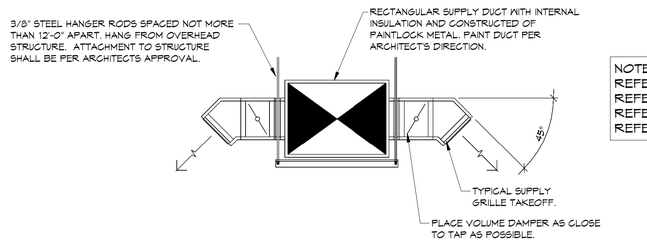


NOTE:
TYPICAL FOR EXHAUST FANS EF-X AND EF-X.

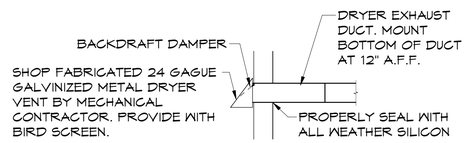
12 WALL PROP EXHAUST FAN DETAIL
N.T.S.



10 SIDE WALL GRILLE
NTS



13 EXPOSED SIDEWALL SUPPLY GRILLE DETAIL
NTS



11 DRYER WALL CAP DETAIL
NTS

NOTES:
REFER TO SHEET M1.1 FOR HVAC NOTES, LEGEND & SCHEDULES
REFER TO SHEET M2.1 FOR HVAC PLANS.
REFER TO SHEET M3.1 FOR HVAC DETAILS.
REFER TO SHEET M4.1 FOR HVAC CONTROLS.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NATHAN E. WILSON
No.14057
4/6/26

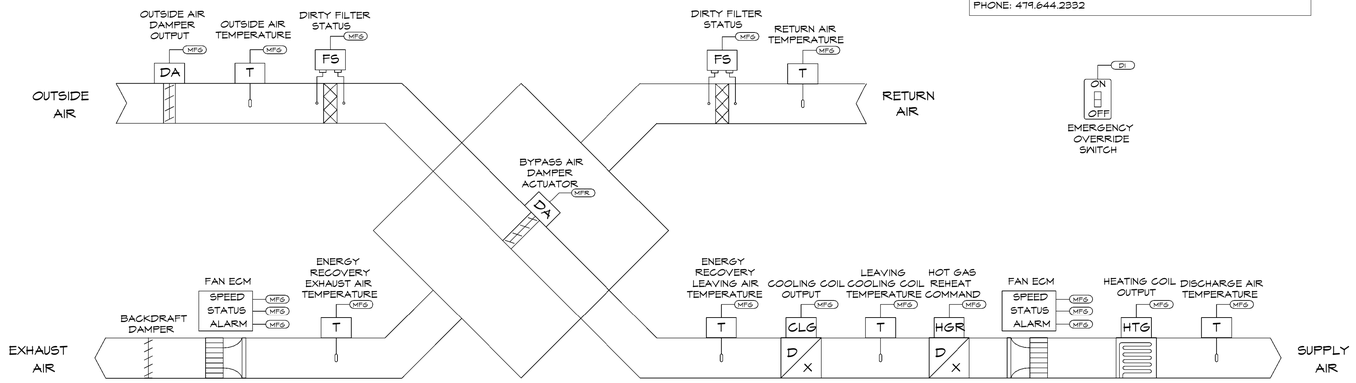
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: RJK
CHECK BY: NEW
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES:

HVAC DETAILS
SHEET
M3.1

CONTACT MATT MAHURIN WITH PRIME BUILDING SOLUTIONS
FOR CONTROLS INFORMATION.
EMAIL: MATTM@PRIME-BAS.COM
PHONE: 479.644.2332



1 DOAS-1 CONTROLS
N.T.S.

DOAS SEQUENCE OF OPERATIONS

MODE OF OPERATION:
THE UNIT MODE OF OPERATION SHALL BE EITHER OCCUPIED OR UNOCCUPIED. MODE OF OPERATION SHALL BE DETERMINED BY THE BUILDING AUTOMATION SYSTEM (BAS) SCHEDULE OR OVERRIDE COMMAND FROM THE BAS, THE DOAS UNIT IS INTENDED TO PROVIDE ROOM NEUTRAL AIR FOR VENTILATION DURING THE OCCUPIED MODE.

OCCUPIED OPERATION:
THE SUPPLY FAN WILL OPERATE CONTINUOUSLY. THE FAN WILL RUN AT A CONSTANT SPEED (SPEED SET DURING TEST AND BALANCE) TO MAINTAIN THE SCHEDULED VENTILATION RATE OF THE UNIT.

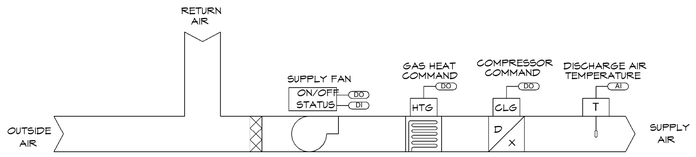
THE EXHAUST FAN WILL OPERATE CONTINUOUSLY. THE FAN WILL RUN AT A CONSTANT SPEED (SPEED SET DURING TEST AND BALANCE) TO MAINTAIN THE SCHEDULED EXHAUST RATE OF THE UNIT.

THE VARIABLE SPEED COMPRESSORS SHALL BE MODULATED TO MAINTAIN THE COOLING COIL DISCHARGE AIR TEMPERATURE AT A SETPOINT OF 55°F (ADJ).

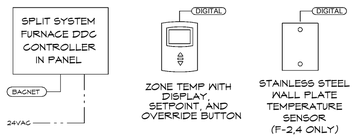
THE HOT GAS REHEAT COIL SHALL BE ENABLED TO REHEAT THE AIR TO THE DISCHARGE AIR TEMPERATURE SETPOINT OF 70°F (ADJ). IF THE HOT GAS REHEAT COIL IS NOT ABLE TO SATISFY THE DISCHARGE AIR TEMPERATURE SETPOINT, THE GAS HEATING COIL SHALL BE MODULATED AS SUPPLEMENTAL HEAT TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT SETPOINT.

FOR HEAT EXCHANGER FROST PROTECTION, WHEN THE EXHAUST AIR TEMPERATURE INDICATES FREEZING CONDITIONS, THE BYPASS DAMPER SHALL BE OPENED TO BYPASS OUTSIDE AIR AROUND THE HEAT EXCHANGER.

UNOCCUPIED OPERATION:
THE SUPPLY AND EXHAUST FANS SHALL BE COMMANDED OFF AND THE OUTSIDE AIR AND EXHAUST AIR DAMPER ACTUATORS SHALL BE COMMANDED CLOSED UNTIL THE SYSTEM IS CALLED INTO OPERATION.



CONTACT MATT MAHURIN WITH PRIME BUILDING SOLUTIONS
FOR CONTROLS INFORMATION.
EMAIL: MATTM@PRIME-BAS.COM
PHONE: 479.644.2332



SPLIT SYSTEM FURNACE UNIT SEQUENCE OF OPERATION:

MODE OF OPERATION:
THE UNIT MODE OF OPERATION SHALL BE EITHER OCCUPIED OR UNOCCUPIED BASED ON A BUILDING AUTOMATION SYSTEM (BAS) SCHEDULE, AN OPERATOR OVERRIDE COMMAND FROM THE BAS, OR A TEMPORARY OCCUPANCY OVERRIDE SIGNAL AT THE THERMOSTAT.

OCCUPIED MODE:
THE THERMOSTAT SHALL BE SET FOR DUAL HEATING AND COOLING SETPOINTS. THE INITIAL OCCUPIED HEATING SETPOINT SHALL BE 70°F (ADJ). THE INITIAL OCCUPIED COOLING SETPOINT SHALL BE 72°F (ADJ). THE SPACE TEMPERATURE SETPOINT RANGE SHALL BE LIMITED BETWEEN A MINIMUM OF 68°F AND MAXIMUM OF 75°F.

THE SUPPLY FAN SHALL RUN CONTINUOUSLY FOR VENTILATION. THE VENTILATION AIRFLOW RATE SHALL BE SET DURING TEST AND BALANCE.

ON AN INCREASE IN SPACE TEMPERATURE ABOVE THE COOLING SETPOINT, THE COMPRESSOR SHALL BE COMMANDED ON UNTIL THE SPACE TEMPERATURE HAS REACHED THE OCCUPIED COOLING SETPOINT.

ON A DECREASE IN SPACE TEMPERATURE BELOW THE HEATING SETPOINT, THE FURNACE SHALL BE COMMANDED ON UNTIL THE SPACE TEMPERATURE HAS REACHED THE OCCUPIED HEATING SETPOINT.

UNOCCUPIED MODE:

DURING UNOCCUPIED MODE, THE THE FAN, COMPRESSOR, AND FURNACE SHALL BE COMMANDED OFF.

THE THERMOSTAT SHALL BE EQUIPPED WITH A TEMPORARY OCCUPANCY OVERRIDE FEATURE THAT SHALL OVERRIDE THE SYSTEM INTO OCCUPIED MODE FOR A PERIOD OF 2 HOURS (ADJ).

THE INITIAL UNOCCUPIED HEATING AND COOLING SETPOINTS SHALL BE 65°F (ADJ) AND 78°F (ADJ). IF THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED HEATING SETPOINT OR RISES ABOVE THE UNOCCUPIED COOLING SETPOINT, THE FAN SHALL BE ALLOWED TO RUN, THE COMPRESSOR SHALL BE COMMANDED ON FOR COOLING AS NEEDED, AND THE FURNACE SHALL BE COMMANDED ON FOR HEATING AS NEEDED. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED OPERATION.

ONCE THE SPACE TEMPERATURE HAS REACHED THE UNOCCUPIED HEATING OR COOLING SETPOINT, THE FAN, COMPRESSOR, AND FURNACE SHALL BE COMMANDED OFF.

2 SPLIT SYSTEM CONTROLS
N.T.S.

NOTES:
REFER TO SHEET M1.1 FOR HVAC NOTES, LEGEND & SCHEDULES
REFER TO SHEET M2.1 FOR HVAC PLANS.
REFER TO SHEET M3.1 FOR HVAC DETAILS.
REFER TO SHEET M4.1 FOR HVAC CONTROLS.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.14057
NATHAN E. WILSON
4/6/26

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY.
RJK
CHECK BY.
NEW
ISSUE DATE
04/06/2026
PROJECT NO.
2421.2
REVISION DATES

HVAC CONTROLS

SHEET
M4.1

GENERAL ELECTRICAL SITE NOTES(THIS SHEET ONLY)

1. THE PRIMARY AND SECONDARY DITCH, PRIMARY AND SECONDARY CONDUITS WITH ¼ PULL ROPE, SECONDARY CONDUCTORS, CONCRETE PAD FOR TRANSFORMER AND GROUNDING RING ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. PROVIDE 36" LONG PVC SWEEPS FOR PRIMARY CONDUIT. PROVIDE LONG SWEEP GALVANIZED RIGID STEEL ELBOWS FOR THE SECONDARY. PROVIDE ALL TRENCHING, BACKFILLING, SAWCUTTING AND PATCHING OF HARD SURFACES, ECT FOR CONDUITS. THE TRANSFORMER AND PRIMARY CONDUCTORS TO ARE PROVIDED AND INSTALLED BY UTILITY COMPANY.
2. THE PRIMARY CONDUITS SHALL BE 2-4" GRAY SCHEDULE 40 UL PVC CONDUITS, AND HAVE A MINIMUM OF 48" OF FILL ON TOP OF CONDUITS. SECONDARY CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE USING 24" RIGID ELBOWS ENCASED IN 4" COVER OF CONCRETE (SLURRY FILL) FROM THE MDP TO THE TRANSFORMER.
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF INSTALLATION AND CONNECTING THE ELECTRICAL SERVICE CONDUITS. COORDINATE CONNECTION TO EXISTING OVERHEAD LINES WITH UTILITY CO.
4. REFER TO HELLAS PLANS FOR ADDITIONAL INFORMATION. CONTACT HELLAS LIGHTING FOR ALL REQUIREMENTS, ATTN: DON MASSEY, d.massey@hellas.com.

KEYED ELECTRICAL SITE NOTES(THIS SHEET ONLY)

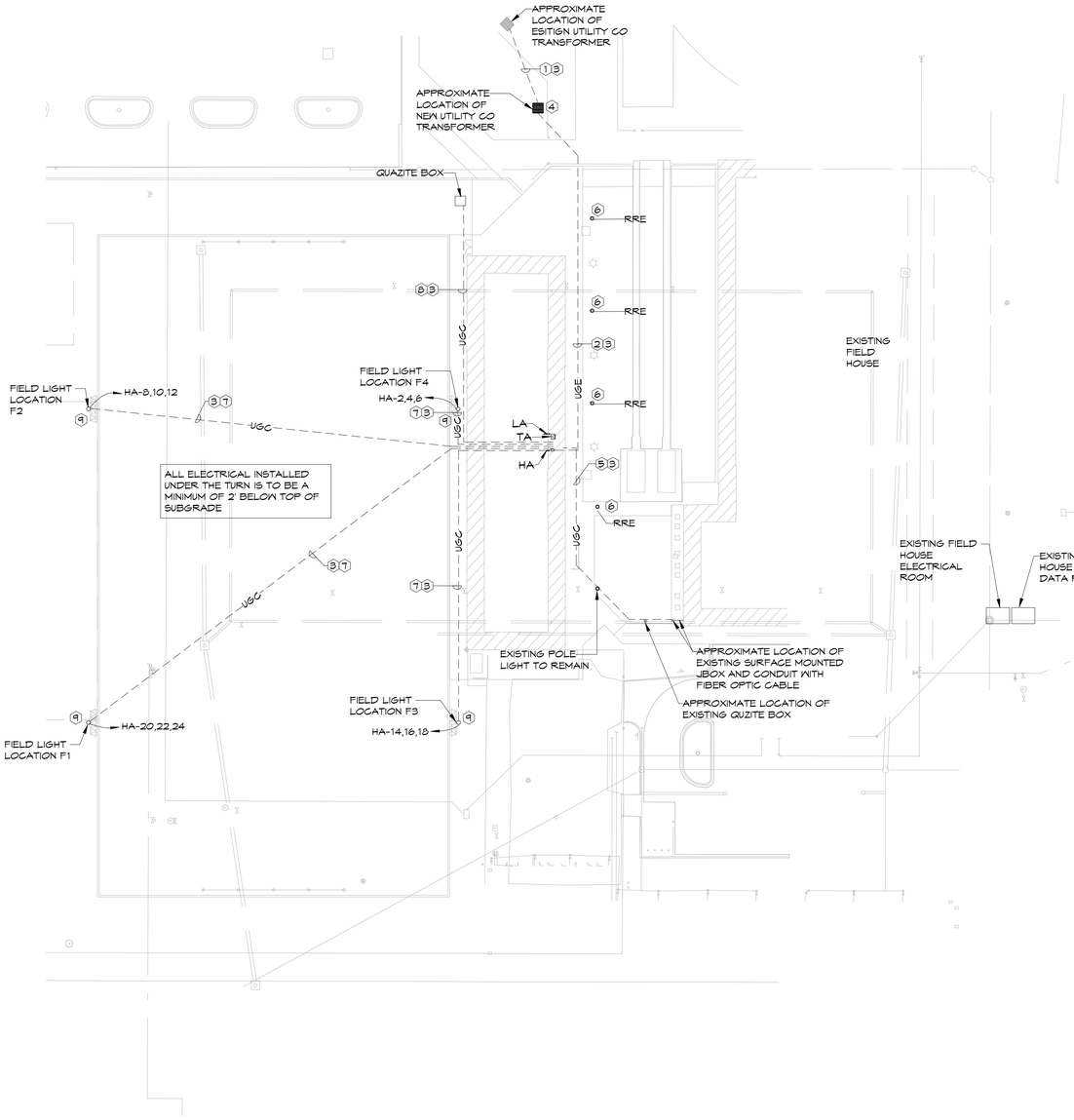
1. PRIMARY ELECTRICAL SERVICE CONDUIT, REFER TO GENERAL NOTE 1.
2. ELECTRICAL SECONDARY. REFER TO GENERAL NOTE 1, AND 2 FOR INSTALLATION. REFER TO RISER DIAGRAM FOR CONDUIT AND WIRE SIZES.
3. IDENTIFY OUTDOOR UNDERGROUND LINES WITH CONTINUOUS STRIP OF PLASTIC UTILITY MARKER. TAPE SHOULD STATE AT REGULAR INTERVALS: "CAUTION (STATE UTILITY) PIPE BELOW". INSTALL TAPE ONE FOOT DIRECTLY ABOVE PIPE BEFORE BACKFILLING TO GRADE.
4. PROPOSED LOCATION FOR UTILITY COMPANY TRANSFORMER, AND METER.
5. EXTEND 2-2" CONDUITS FROM DATA ROOM TO CONNECT TO EXISTING FIBER SYSTEM IN FIELD HOUSE.
6. EXISTING RELOCATED POLE LIGHT INSTALL NEW CIRCUITRY BACK TO EXISTING POLE LIGHT THAT IS TO REMAIN. PROVIDE NEW CONCRETE POLE BASE
7. REFER TO PANEL SCHEDULE HA FOR WIRE AND CONDUIT SIZE.
8. ROUTE 2-4" AND 2-2" CONDUITS FROM ELECTRICAL ROOM TO QUAZITE BOX.
9. AT EACH POLE EXTEND CIRCUITRY TO DISCONNECT LOCATED ON POLE. HELLAS IS TO PROVIDE FINAL WIRING FROM DISCONNECT TO FIXTURES. HELLAS TO PROVIDE ALL WIRELESS CONTROL OF FIELD LIGHTING. PROVIDE 5/8" X 8' COPPER GROUND ROD AT POLE. TOP OF ROD SHALL BE A MINIMUM OF 24" BELOW GRADE. CONNECT TO POLE AND COMPONENTS ENCLOSURE WITH #2/0 COPPER GROUND WIRE.

ELECTRICAL SITE PLAN LEGEND

----UGFO----	UNDERGROUND FIBER OPTIC CABLE
----UGE----	UNDERGROUND ELECTRIC
----UGC----	UNDERGROUND CONDUIT
----EX-OHE----	EXISTING OVERHEAD ELECTRIC
PP	EXISTING POWER POLE
	QUAZITE BOX #PG3048BA24 WITH COVER PART #PG3048CA00

UTILITY CONTACTS:

CARROLL ELECTRIC DEREK THURMAN DTHURMAN@CARROLLECC.COM 1-800-432-9720



1 ELECTRICAL SITE PLAN
1" = 40'-0"

NORTH

2 EXTERIOR LIGHT POLE FOOTING
N.T.S.

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

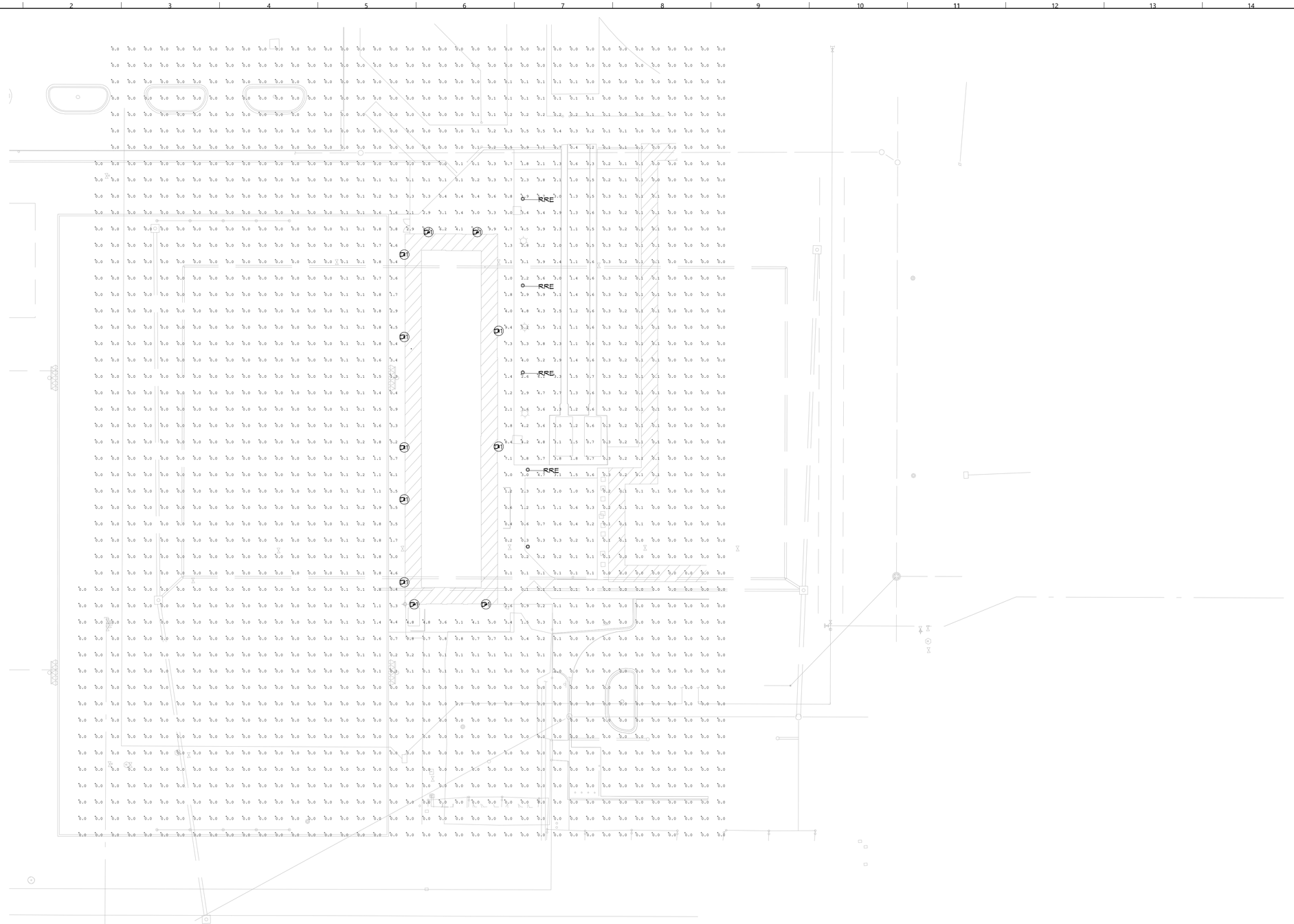
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.16929 MICHAEL T. ROPOLO 4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO. 2421.2
REVISION DATES

ELECTRICAL SITE PLAN
SHEET
ES1.0



1 ELECTRICAL SITE PHOTOMETRIC PLAN
1" = 30'-0"

NORTH

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 16929
MICHAEL T. RAPPOLD
4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY.
G.S.

CHECK BY.
M.T.R.

ISSUE DATE
04/06/2026

PROJECT NO.
2421.2

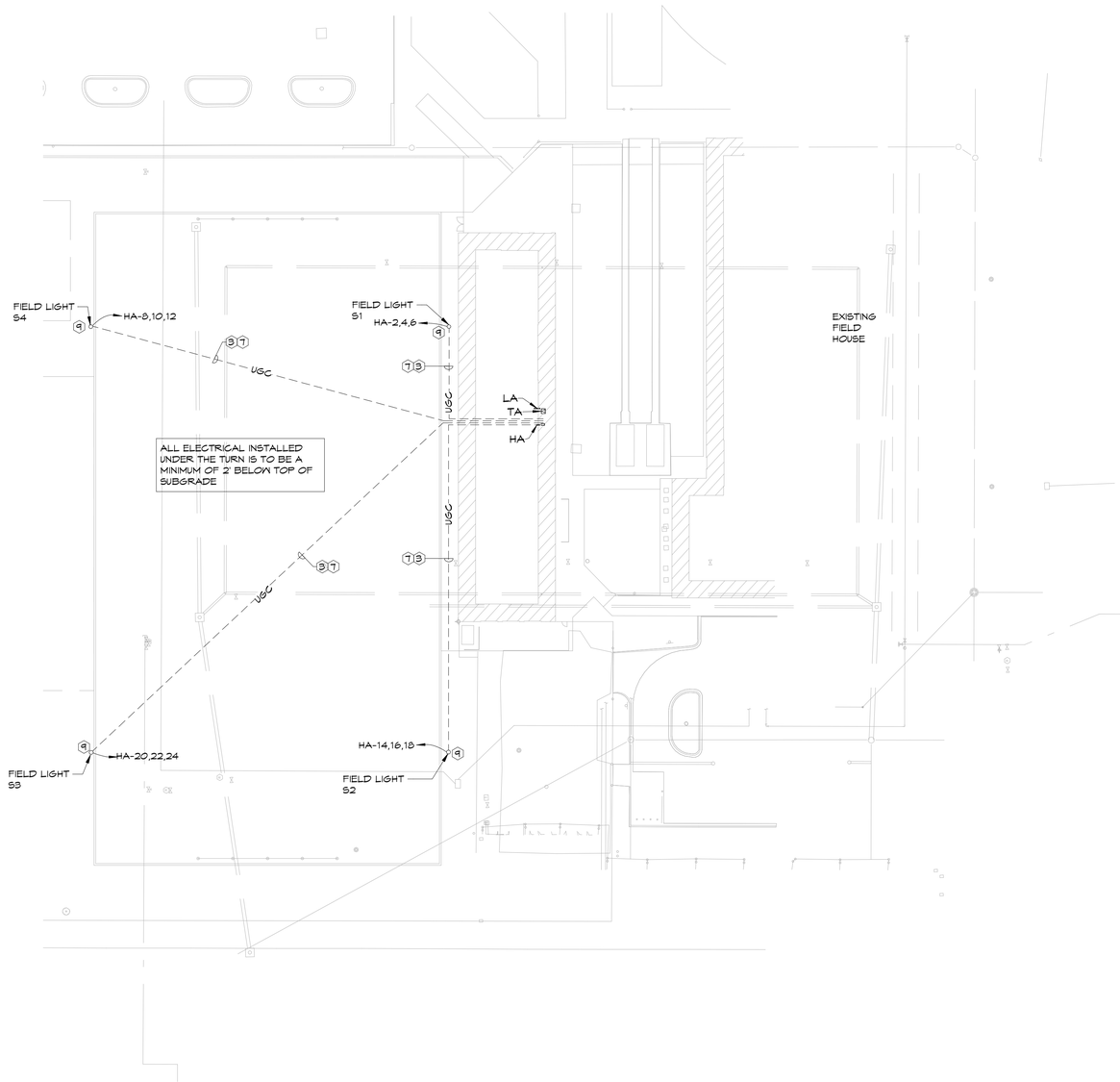
REVISION DATES

HSA Engineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

ELECTRICAL SITE PHOTOMETRIC PLAN

SHEET
ES1.1



GENERAL ELECTRICAL SITE NOTES(THIS SHEET ONLY)

1. REFER TO MUSCO PLANS FOR ADDITIONAL INFORMATION.
2. FOR ALL POLES PROVIDE AND INSTALL ALL REQUIRED MOUNTING HARDWARE FOR A COMPLETE AND WORKING INSTALLATION. INSTALL ALL POLES, POLE BASES, FIXTURES, AND CONTROLS.
3. CONTACT MUSCO LIGHTING, ATTN: ZACH MORRIS, (501) 249-8056.
4. FINAL FIXTURE ADJUSTMENTS AND AIMING SHALL BE COMPLETED AFTER DARK WITH THE MANUFACTURERS REPRESENTATIVE AND OWNERS REPRESENTATIVE PRESENT. PROVIDE TEN(10) BUSINESS DAYS ADVANCE NOTICE PRIOR TO FINAL ADJUSTMENTS AND AIMING. PROVIDE FOOTCANDLE TEST REPORT VERIFYING ACTUAL LEVELS.

KEYED ELECTRICAL SITE NOTES(THIS SHEET ONLY)

(9) IDENTIFY OUTDOOR UNDERGROUND LINES WITH CONTINUOUS STRIP OF PLASTIC UTILITY MARKER. TAPE SHOULD STATE AT REGULAR INTERVALS: "CAUTION (STATE UTILITY) PIPE BELOW". INSTALL TAPE ONE FOOT DIRECTLY ABOVE PIPE BEFORE BACKFILLING TO GRADE.

(7) REFER TO PANEL SCHEDULE HA FOR WIRE AND CONDUIT SIZE.

(9) SPORTS FIELD LIGHTING POLE LIGHT BY ELECTRICAL CONTRACTOR. PROVIDE 5/8" X 8' COPPER GROUND ROD AT POLE. TOP OF ROD SHALL BE A MINIMUM OF 24" BELOW GRADE. CONNECT TO POLE AND COMPONENTS ENCLOSURE WITH #2/0 COPPER GROUND WIRE.

ELECTRICAL SITE PLAN LEGEND

- – – – UGFO – – – – UNDERGROUND FIBER OPTIC CABLE
- — — — UGE — — — UNDERGROUND ELECTRIC
- ——— UGC ——— UNDERGROUND CONDUIT

1 FIELD LIGHTING PLAN ALTERNATE

1" = 40'-0"

NORTH

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.16929
MICHAEL T. RAPPOLD
4-6-2026

HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO. 2421.2
REVISION DATES

FIELD LIGHTING PLAN ALTERNATE
SHEET
ES1.0A

Bentonville West High School Soccer

Centerton,AR

LIGHTING SYSTEM

Structure/Fixture Summary

Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Load	Circuit
S1	70'	70'	2	TLC-LED-1500	2.82 kW	A
		70'	3	TLC-LED-1200	3.51 kW	A
S2-S3	70'	70'	1	TLC-LED-1200	1.17 kW	A
		70'	2	TLC-LED-1500	2.82 kW	A
		70'	2	TLC-LED-900	1.76 kW	A
S4	70'	70'	2	TLC-LED-1500	2.82 kW	A
		70'	3	TLC-LED-1200	3.51 kW	A
4			**20**		**24.16 kW**	

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Soccer	24.16 kW	20

Fixture Type Summary

Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	A	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	8
TLC-LED-1500	A	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	8
TLC-LED-900	A	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	4

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Property Line Spill @ 3ft.	Horizontal Illuminance	0.0756	0.00	0.33	-	-	A	20
Property Line Spill @ 5ft.	Max Vertical Illuminance Metric	0.1065	0.00	0.45	-	-	A	20
Soccer	Horizontal Illuminance	40.58	21	46	2.16	1.90	A	20

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

ENGINEERED DESIGN By: Evan Gray • File #253134B • 31-Mar-26

PROJECT SUMMARY

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER MICHAEL T. RAPOLD No.16929 4-6-2026

HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

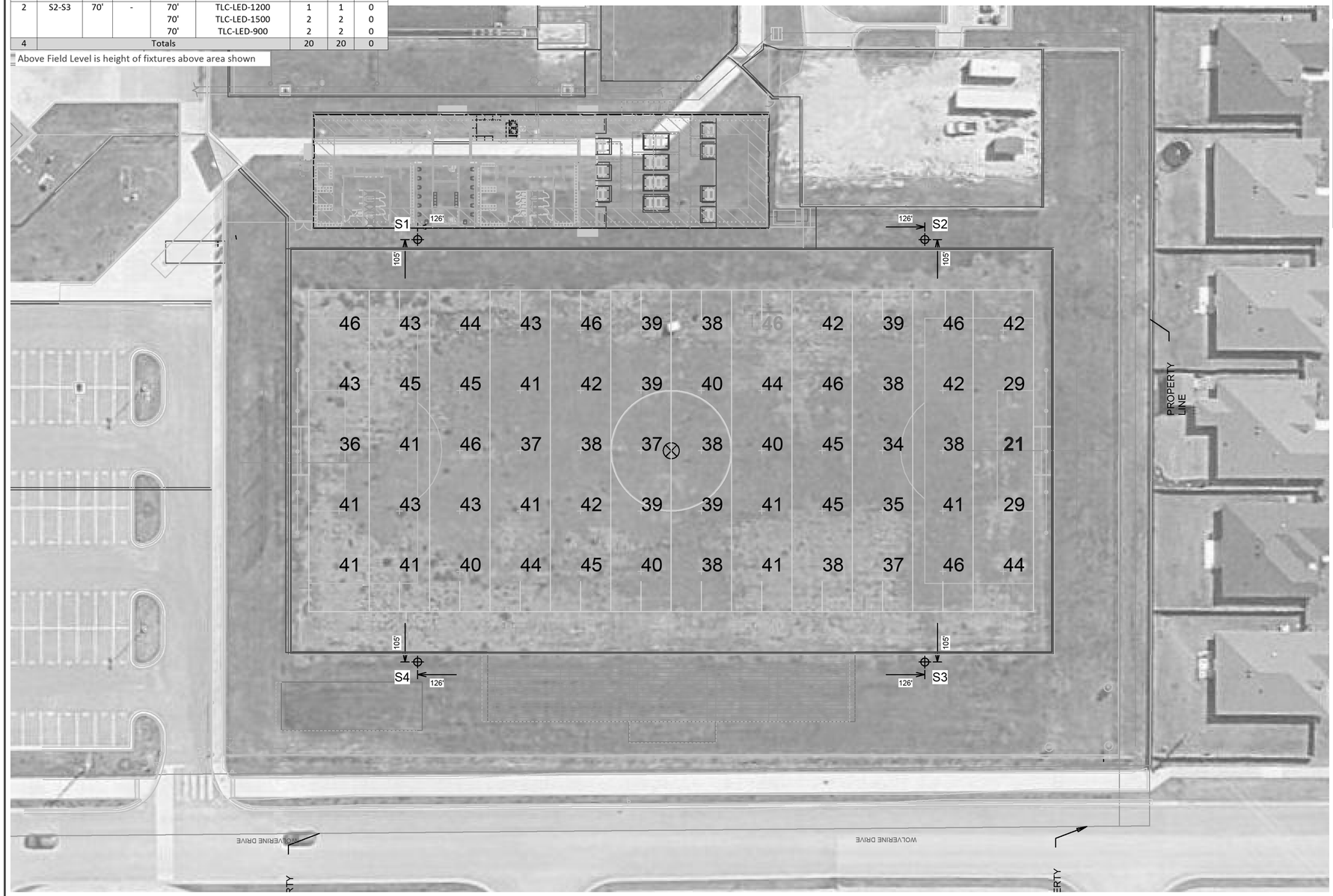
DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO: 2421.2
REVISION DATES

MUSCO LIGHTING DETAILS
SHEET
ES1.1A

Equipment List For Areas Shown

Structure				Fixtures					
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	S1 S4	70'	-	70' 70'	TLC-LED-1200 TLC-LED-1500	3 2	3 2	0 0
2	S2-S3	70'	-	70' 70' 70'	TLC-LED-1200 TLC-LED-1500 TLC-LED-900	1 2 2	1 2 2	0 0 0
4	Totals					20	20	0

Above Field Level is height of fixtures above area shown



SCALE IN FEET 1 : 50

0' 50' 100'

ENGINEERED DESIGN By: Evan Gray • File #253134B • 31-Mar-26

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

Bentonville West High School Soccer

Centerton,AR

Grid Summary

Name:	**Soccer**
Size:	360' x 160'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average:	**40**
Scan Average:	40.58
Maximum:	46
Minimum:	21
Avg/Min:	1.90
Max/Min:	**2.16**
UG (adjacent pts):	1.79
CU:	0.71
No. of Points:	60
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**20**
Total Load:	24.16 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

musco. We Make It Happen.

ILLUMINATION SUMMARY

HSA Engineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com
HSA JOB # 25-200

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER MICHAEL T. RAPPOLD No.16929 4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

MUSCO LIGHTING DETAILS

SHEET ES1.2A

Bentonville West High School Soccer

Centerton,AR

Grid Summary

Name:	**Property Line Spill @ 3ft.**
Spacing:	30.0'
Height:	3.0' above grade

Illumination Summary

	INITIAL HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.0756**
Maximum:	0.33
Minimum:	0.00
CU:	0.00
No. of Points:	43
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**20**
Total Load:	24.16 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 80

0' 80' 160'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

ENGINEERED DESIGN By: Evan Gray • File #253134B • 31-Mar-26

ILLUMINATION SUMMARY

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER MICHAEL T. RAPPOLD No. 16929 4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 ı Rogers, Arkansas 72758 ı (479) 464-4965 ı www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

MUSCO LIGHTING DETAILS

SHEET
ES1.3A

Bentonville West High School Soccer

Centerton,AR

Grid Summary

Name:	**Property Line Spill @ 5ft.**
Spacing:	30.0'
Height:	5.0' above grade

Illumination Summary

INITIAL MAX VERTICAL FOOTCANDLES

	Entire Grid
Scan Average:	**0.1065**
Maximum:	0.45
Minimum:	0.00
CU:	0.00
No. of Points:	43
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**20**
Total Load:	24.16 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 80

0' 80' 160'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

ENGINEERED DESIGN By: Evan Gray • File #253134B • 31-Mar-26

ILLUMINATION SUMMARY

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER MICHAEL T. RAPPOLD No. 16929 4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 ı Rogers, Arkansas 72758 ı (479) 464-4965 ı www.hjarch.com

A NEW FACILITY FOR

BWHS - Locker Room Building

1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.

CHECK BY: M.T.R.

ISSUE DATE: 04/06/2026

PROJECT NO.: 2421.2

REVISION DATES

MUSCO LIGHTING DETAILS

SHEET

ES1.4A

SCALE IN FEET 1 : 60

0' 60' 120'

ENGINEERED DESIGN By: Evan Gray • File #253134B • 31-Mar-26

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

Bentonville West High School Soccer

Centerton,AR

Equipment Layout

INCLUDES:
· Soccer

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown

Structure				Fixtures		
QTY	STRUCTURE ID	SIZE	GLOBAL ELEVATION	ABOVE GLOBAL LEVEL	FIXTURE TYPE	QTY/POLE
2	S1 S4	70'	-	70' 70'	TLC-LED-1200 TLC-LED-1500	3 2
2	S2-S3	70'	-	70' 70' 70'	TLC-LED-1200 TLC-LED-1500 TLC-LED-900	1 2 2
4	Totals					20

Above Global Level is height of fixtures above design (0,0,0)

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3

musco. We Make It Happen.

EQUIPMENT LAYOUT

HSA Engineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com
HSA JOB # 25-200

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.16929 MICHAEL T. RAPPOLD 4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 ı Rogers, Arkansas 72758 ı (479) 464-4965 ı www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO: 2421.2
REVISION DATES

MUSCO LIGHTING DETAILS
SHEET
ES1.5A

System Requirements: Control System Summary

Project Name: Bentonville West High School Soccer | Project #: 253134
Control System ID: 1 of 1
Distribution Panel Location/ID: Soccer Service

Project Information

Control System

Control System ID:	1 of 1
Control System Type:	Control-Link ® Control and Monitoring System
Communication Type:	PowerLine-ST

Power Requirements

Control cabinet(s):	
Control voltage (phase to neutral)	120/60
VA loading - Inrush	1553.0
VA loading - Sealed	180.0
Lighting Circuits:	
Voltage/Hertz/Phase	480/60/3

Project Notes:

Equipment Listing

Description	Qty	Size (in)
Control and monitoring cabinet - primary	1	24 X 48
Contactors, 30 amperes	4	-
Off/On/Auto switches	1	-

Important Notes:

1. Please confirm that the lighting circuit voltage listed above is accurate for this facility. This is the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure disconnect. Inaccurate voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
2. In a 3 phase design, all 3 phases are to be run to each pole location. Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
3. One contactor is required for each circuit at each pole location. Contactors are 3 pole and 100% rated for the published continuous load.
4. If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
5. Size overcurrent devices using the full load amps column of the Circuit Summary by Switch chart (Minimum power factor is 0.9). Size conduit per code unless otherwise specified as larger to allow for harness connectors.
6. Avoid use of in-ground junction/pull boxes when possible. If used, the following best practices must be followed:
   • Underground handholes (pull boxes) must be supported to prevent settling. Boxes buried directly in soil, without support, are not allowed.
   • Use polymer concrete lids marked with ELECTRIC for underground handholes. Steel lids are not allowed.
   • Avoid underground connections when possible. If used, all wire connectors must be UL listed for Wet Locations to prevent leakage current.
7. Control power wiring must be in separate conduit from line or load power wiring. Communication cables must be in separate conduit from any power wiring.
8. Test wire per ANSI/NETA ATS-2021. Wires with insulation resistance less than 100 MOhms, in water-filled conduit, must be replaced.
9. Refer to Installation Instructions for more details on equipment information and the installation requirements.

System Requirements: Control System Summary

Project Name: Bentonville West High School Soccer | Project #: 253134
Control System ID: 1 of 1
Distribution Panel Location/ID: Soccer Service

Equipment Layout and Connection Details

Connection Details

ID	Description
1a	Line power to contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
1b	Load power from contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
2a	Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.

Equipment

ID	Description
1	Control and monitoring cabinet - primary

System Requirements: Control System Summary

Project Name: Bentonville West High School Soccer | Project #: 253134
Control System ID: 1 of 1
Distribution Panel Location/ID: Soccer Service

Circuit Summary

Zone Schedule		Switch Location
Field/Zone Description	Zone	
Soccer	1	Cabinet 1

Control Module ID: 1 **Lighting Circuit Voltage: 480/60/3**

Circuit Summary by Switch

Switch	Zone Description	Pole ID	Qty of Fixtures	Full load amperes	Contactor Size (Amps)	Cabinet #	Contactor ID
1	Soccer	S1	5	11.48	30	1	C1
	Soccer	S2	5	10.2	30	1	C2
	Soccer	S3	5	10.2	30	1	C3
	Soccer	S4	5	11.48	30	1	C4

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com
HSA JOB # 25-200

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 16929
MICHAEL T. RAPOLD
4-6-2026

HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 ı Rogers, Arkansas 72758 ı (479) 464-4965 ı www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO: 2421.2
REVISION DATES

MUSCO LIGHTING DETAILS
SHEET
ES1.6A

LEGEND

- DUPLEX RECEPTACLE (NEMA 5-20R) OR-DOUBLE DUPLEX, TAMPER RESISTANT, COMMERCIAL SPECIFICATION GRADE.
- 220 VOLT RECEPTACLE (NUMBER DENOTES AMPS)
- DUPLEX RECEPTACLE GROUND FAULT NEMA 5-20R, TAMPER RESISTANT, COMMERCIAL SPECIFICATION GRADE.
- TV — TELEVISION CABLE OUTLET BOTTOM OF BOX AT 5'-4". REQUIRES TWO RECEPTACLES AND ONE DATA CABLE IN SEPARATE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE 3 GANG BACK BOX ARLINGTON #TVB5507.
- FB — WIREMOLD TYPE "RFB6E-06" FLOOR BOX WITH TWO DUPLEX RECEPTACLE, AND TWO COMMUNICATION BRACKETS TO MATCH OWNER'S DATA EQUIPMENT. INSTALL ONE 1" CONDUIT FOR POWER AND ONE 1" CONDUIT FOR DATA. INCLUDE ONE BRASS COVER, TYPE 6CT FLUSH COVER, AT EACH LOCATION. SET BOX HEIGHT WITH FLOOR TYPE. COVER IS TO BE FLUSH IN FLOOR. (FOR BARE/POLISHED CONCRETE FLOOR PROVIDE RFB6E CONCRETE EDGE BARRIER KIT). PROVIDE A MINIMUM OF TWO DATA CABLES AT EACH LOCATION. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- ELECTRICAL PANEL.
- DRY TYPE TRANSFORMER-480/120-208 VOLTS. PROVIDE VIBRATION-ISOLATION MOUNTING PADS.
- BRANCH CIRCUIT HOMERUN. PANEL AND CIRCUIT NUMBER INDICATED.
- WIFI — WIRELESS INTERNET EQUIPMENT FURNISHED AND INSTALLED BY THE OWNER, FURNISH AND INSTALL ONE DATA CABLE.
- DATA: REQUIRES 4" SQUARE OUTLET BOX, APPROPRIATE PLASTER RING, AND 1" C. STUBBED TO AN ACCESSIBLE LOCATION ABOVE A REMOVABLE CEILING TILE. MINIMUM OF ONE DATA CABLE AT EACH LOCATION SHOWN UNLESS OTHERWISE NOTED.
- DATA MOUNTED IN CEILING FOR MICROPHONE; VERIFY REQUIREMENTS AND EXACT LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. MINIMUM OF ONE DATA CABLE AT EACH LOCATION SHOWN UNLESS OTHERWISE NOTED. INSTALL FLUSH MOUNTED BOX WITHOUT COVER, TERMINATE RJ45 PLUG ON END OF CABLE UNLESS OTHERSIDE NOTED
- J — FLUSH MOUNTED JUNCTION BOX. VERIFY MOUNTING HEIGHT WITH MILLWORK DETAILS AND/OR THE OWNER'S REPRESENTATIVE. AT EQUIPMENT LOCATIONS VERIFY THE EXACT LOCATION WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- F / NF — FUSED/NON-FUSED DISCONNECT-FUSE ALL EQUIPMENT PER MANUFACTURER RECOMMENDATION FOR THE ACTUAL EQUIPMENT FURNISHED. MOUNT DISCONNECT FOR HVAC CONDENSER UNITS WITH TOP OF SWITCH AT 36" A.F.F.
- $M — MOTOR RATED SWITCH USED FOR EQUIPMENT DISCONNECTING MEANS. SINGLE PHASE: PROVIDE WITH THERMAL OVERLOAD SIZED PER MOTOR LOAD.
- $ — SWITCH TYPE 1221 ("3" INDICATES 3-WAY SWITCH, "D" INDICATES DIMMER COORDINATE WITH FIXTURE/LAMP TYPE AND CIRCUIT WATTAGE.
- $OS/D — WALL MOUNTED PASSIVE INFRARED COMBINATION MOTION SENSOR SWITCH AND SINGLE POLE WALLBOX SLIDE DIMMER. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE CONTACTORS TO CONTROL EXHAUST FAN WITH LIGHTS. LEVITON OSD10 OR EQUAL
- OS — "OS" - CEILING MOUNTED DUAL TECHNOLOGY MOTION SENSOR PROVIDE AND INSTALL THE APPROPRIATE POWER PACK. COORDINATE SWITCHING WITH ACTUAL MOTION SENSOR USED. COORDINATE LOCATION AND NUMBER WITH ACTUAL MOTION SENSOR USED. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE OCCUPANCY SENSOR WHICH IS THE CORRECT TYPE FOR THE SPACE. PROVIDE CONTACTORS TO CONTROL EXHAUST FAN WITH LIGHTS.
- OS — "OS" - WALL MOUNTED DUAL TECHNOLOGY MOTION SENSOR PROVIDE AND INSTALL THE APPROPRIATE POWER PACK. COORDINATE SWITCHING WITH ACTUAL MOTION SENSOR USED. COORDINATE LOCATION AND NUMBER WITH ACTUAL MOTION SENSOR USED. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE OCCUPANCY SENSOR WHICH IS THE CORRECT TYPE FOR THE SPACE.

- EXIT LIGHT - ARROW DENOTES INCLUSION OF ARROW ON LENS. CONTRACTOR TO COORDINATE PROPER MOUNTING DETAILS.
- TC — TIME CLOCK: INTERMATIC #T104R FOR LIGHTING CONTROL APPLICATIONS. INTERMATIC #T2005 FOR CIRCULATION PUMPS.
- PE — PHOTO-ELECTRIC CELL: EQUAL TO INTERMATIC NO. K4136M.
- T F-1,2 — THERMOSTAT, MOUNT. @ 48" A.F.F TO CENTER OF BOX (NUMBER DENOTES HVAC UNIT).
- S CO2 — SENSOR, MOUNT @ 54" TO CENTER IN SEPARATE SINGLE GANG BOX.
- SP — EMERGENCY NOTIFICAITON SYSTEM SPEAKER. VERIFY REQUIREMENTS WITH STATE SYSTEMS-CEILING MOUNT
- SP — EMERGENCY NOTIFICAITON SYSTEM SPEAKER. VERIFY REQUIREMENTS WITH STATE SYSTEMS-WALL MOUNT
- LOC — LOCAL OPERATOR CONTROL WITH PRESET EMERGENCY BUTTONS AND MICROPHONE. MOUNT 50" AFF. REQUIRES FLUSH MOUNTED OUTLET BOX, AND 1-1" CONDUIT TO ABOVE ACCESSIBLE CEILING. COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDER/INSTALLER.
- CR — FLUSH MOUNTED OUTLET BOX, BOTTOM AT 48" A.F.F. FOR CARD READER. SUPPLY ¾" CONDUIT TO AN ACCESSIBLE AREA ON THE INTERIOR, AND ONE ¾" CONDUIT TO DOOR FRAME HEADER. FURNISH 120 VOLTS FROM THE NEAREST RECEPTACLE CIRCUIT. VERIFY REQUIREMENTS WITH STATE SYSTEMS.
- INSTALL FLUSH MOUNTED BOX FOR SECURITY CAMERA. PROVIDE 3/4" CONDUIT TO ABOVE AN ACCESSIBLE CEILING. COORDINATE SIZE OF BOX WITH CAMERA CONTRACTOR PRIOR TO INSTALLATION
- KB — "KNOX" BOX TO BE KNOX SERIES 4500 WITH "BEST" LOCK SYSTEM. FURNISH RECESSED BOX WITH MOUNTING FRAME. INCLUDED A KEY SWITCH FOR EMERGENCY SHUTDOWN OF THE MAIN ELECTRICAL SERVICE.
- KS

X — DETAIL NUMBER
EX.X — SHEET NUMBER

SUBSCRIPTS:
C = COORDINATE LOCATION WITH MILLWORK-MOUNTING HEIGHTS VARY. REFER TO THE ARCHITECTURAL MILLWORK DRAWINGS.
W = WALL MOUNTED @ 48" A.F.F.-OR AS SHOWN.
GFI = GROUND FAULT CIRCUIT INTERRUPTER.
WP = WEATHER RESISTANT RECEPTACLES ARE "GFI", WITH METAL WEATHER RESISTANT "WHILE-IN-USE" COVERS.
EM = FIXTURE CONTAINS EMERGENCY BATTERY PACK.
H = MOUNT HORIZONTALLY IN MILLWORK.
EC = ELECTRICAL CONTRACTOR
AFF = ABOVE FINISHED FLOOR
AFG = ABOVE FINISHED GRADE
EWC = ELECTRIC WATER COOLER
EWH = ELECTRIC WATER HEATER
NTS = NOT TO SCALE

GENERAL ELECTRICAL NOTES-ALL SHEETS
THESE NOTES ARE ONLY A SUPPLEMENT TO THE SPECIFICATIONS

1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR A COMPLETE WORKING INSTALLATION.
2. THIS CONTRACTOR IS TO COMPLY WITH THE STATE OF ARKANSAS ADOPTED ADA ACCESSIBLE GUIDELINES IN REGARD TO ACCESSIBLE FEATURES.
3. AT ALL MILLWORK LOCATIONS COORDINATE THE ELECTRICAL INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
4. PROVIDE FIRE RATED CAULKING WHERE CONDUIT OR OTHER ELECTRICAL ITEMS PASS THOUGH FIRE-RATED WALLS, CEILINGS AND FLOORS.
5. INSTALL ALL CONDUIT STRAIGHT AND PARALLEL WITH THE BUILDING LINES. ALL CONDUIT IS CONCEALED IN PUBLIC PLACES.
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT AND FEE COSTS AND SHALL INCLUDE THESE COSTS IN THE BID PRICE FOR THIS PROJECT.
7. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AND ORDINANCES. IF A CONFLICT IS FOUND BETWEEN APPLICABLE CODES, THE MORE STRINGENT SHALL APPLY. THE CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL APPLICABLE MUNICIPAL CODES AND ORDINANCES.
8. THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH THE DRAWINGS, SPECIFICATION BOOK, THE BUILDING SITE AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD A COMPLETE AND THOROUGH EXAMINATION BEEN MADE.
9. DO NOT SCALE DIRECTLY FROM THE ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION.
10. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERECTED. THIS CONTRACTOR GUARANTEE SHALL EXIST FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL OWNER ACCEPTANCE OF THE WORK AND SHALL APPLY TO ALL DEFECTS IN MATERIALS AND/OR WORKMANSHIP OF ANY KIND.
11. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OR NATURE OF THE WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES WILL BE MADE WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE OWNER.
12. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES TO INSURE THAT ALL CIRCUITS AND DEVICES ARE OF A PROPER SIZE FOR ACTUAL EQUIPMENT FURNISHED. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT WHICH CAUSES CHANGES TO ANY SYSTEM AS DESIGNED ON THESE DRAWINGS. FAILURE ON THE PART OF THE CONTRACTOR TO NOTIFY THE ENGINEER OR ARCHITECT OF SUCH CONFLICTS PLACES THE SUBSEQUENT CHANGES UPON THE CONTRACTOR.
13. CONDUIT FOR FLOOR BOXES IS TO BE INSTALLED UNDER THE SLAB, UP INTO THE BOTTOM OF THE FLOOR BOX. NO CONDUIT TO BE INSTALLED IN THE SLAB.
14. WHEN INSTALLING POLE BASES OR UNDERGROUND UTILITIES, FIELD VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES. EXACT LOCATION OF POLE BASES AND CONDUIT TO BE DETERMINED IN THE FIELD.
15. THE ELECTRICAL CONTRACTOR IS TO PROVIDE, AT YET TO BE DECIDED LOCATIONS,TWENTY (20) CONDUIT STUB-UPS, WHICH ARE TO INCLUDE 4" OUTLET BOXES, PLASTER RINGS, COVER PLATES, AND CONDUIT TO ABOVE THE CEILING, TEN ONE GANG AND TEN TWO GANGS. IN ADDITION, PROVIDE TWENTY (20) SINGLE GANG STUB-UPS WHICH ARE TO INCLUDE 4" OUTLET BOXES, PLASTER RINGS, COVER PLATES, INCLUDING ONE RECEPTACLE OR SWITCH WITH 50 FEET OF CIRCUIT WIRING PER SINGLE GANG STUB-UP. COMBINED TOTAL NUMBER OF STUB-UPS REQUIRED IS FORTY (40).
16. ALLOW FOR THE ADDITION OF 2 (TWO) NEW EXIT LIGHTS WITH WIRING TO UNSWITCHED LIGHTING CIRCUIT.
17. ELECTRICAL CONTRACTOR AND MASON TO COORDINATE LOCATION OF ALL WALL INSTALLED DEVICES WITH ARCHITECTURAL FINISHES SUCH AS ACOUSTIC WALL PANELS, WALL FURR OUTS, DOOR LOCATIONS, SIGNAGE.
18. GENERAL CONTRACTOR PROVIDES AND INSTALLS KNOX BOX AT MAIN FRONT ENTRY THE ELECTRICAL CONTRACTOR PROVIDES AND INSTALLS A KEYED SWITCH AT THE MAIN FRONT ENTRY FOR THE EMERGENCY SHUT DOWN SHUNT TRIP. PROVIDE BREAKER LOCK FOR SHUNT TRIP CONTROL POWER CIRCUIT.
19. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING SYSTEMS:

A. POWER AND LIGHTING:
1. ALL DEVICE PLATES ARE STAINLESS STEEL. COORDINATE COLOR OF DEVICES WITH THE ARCHITECT.
2. ALL 20A 120V AND 250V NON-LOCKING TYPE RECEPTACLES, UNLESS OTHERWISE NOTED, SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.
3. WHERE DEVICES ARE SHOWN NEXT TO EACH OTHER, THEY ARE INTENDED TO BE GANGED. FIELD VERIFY ACTUAL SPACE AVAILABLE AND NOTIFY THE ARCHITECT WHERE THERE ARE SPACE CONFLICTS.
4. LOW VOLTAGE WIRING IS TO BE ENCASED IN CONDUIT IN AREAS WITH NO CEILING.
5. RECEPTACLES FOR EQUIPMENT SUCH AS ELECTRIC WATER COOLERS SHALL BE LOCATED IN THE WALL AT A LOCATION WHICH IS CONCEALED BY THE EQUIPMENT CABINET.
6. ALL EMPTY CONDUITS ARE TO CONTAIN A NYLON PULL STRING. EMPTY CONDUITS 2" AND LARGER ARE TO BE SWABBED OUT AND LEFT WITH A NYLON PULL ROPE FOR THE USE OF THE OWNER.
7. COORDINATE THE EXACT LOCATION OF ALL FLOOR BOXES WITH THE ARCHITECT AND THE ARCHITECTURAL DRAWINGS.
8. COVER PLATES FOR EXTERIOR RECEPTACLES ARE TO BE METAL, WEATHER PROOF WHILE IN USE.
9. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DRIVER AND LAMP COMBINATIONS THAT WILL PROVIDE THE OWNER WITH A FIVE YEAR WARRANTY ON THE DRIVER.
10. COORDINATE WITH THE GENERAL CONTRACTOR AND THE INSULATION CONTRACTOR TO HOLD THE BATT INSULATION AWAY FROM ALL LAY-IN FIXTURES. CLEARANCE SHOULD BE 3" ON ALL SIDES, AND TOTALLY CLEAR ON THE TOP.
11. ROOM NUMBERS USED IN THE PANEL SCHEDULES ARE TO REFLECT ROOM NUMBERS BY THE OWNER. ARCHITECT WILL PROVIDE CROSS OVER LIST DURING THE PROJECT.
12. OCCUPANCY SENSORS ARE TO BE LAID OUT BY THE LIGHTING REPRESENTATIVE FURNISHING THE EQUIPMENT HSA WILL PROVIDE AUTO CAD DRAWINGS AS NECESSARY. ELECTRICAL CONTRACTOR RESPONSIBLE FOR LOCATION DETAILS AND MOUNTING. SENSORS SHOWN ARE FOR REFERENCE ONLY.
13. WIRE SIZES:

WIRE SIZE 120V	WIRE SIZE 277V
A. #12 LESS THAN 75 FEET	LESS THAN 150 FEET
B. #10 BETWEEN 75-150 FEET	BETWEEN 150-300 FEET
C. #8 BETWEEN 150-250 FEET	BETWEEN 300-450 FEET
D. #6 BETWEEN 250-375 FEET	BETWEEN 450-700 FEET

B. FIRE ALARM
1. ALL FIRE ALARM OUTLET BOXES ARE TO BE PAINTED RED.
2. INSTALL FIRE ALARM SYSTEM PER N.F.P.A. AND ALL STATE AND LOCAL ORDINANCES.
3. COORDINATE THE OVERALL FIRE ALARM SYSTEM WITH THE FIRE MARSHAL, FURNISHING ALL DEVICES AND SYSTEMS NECESSARY FOR A COMPLETE ACCEPTABLE SYSTEM. NO EXTRA CHARGES WILL BE ALLOWED, OUTSIDE OF THE CONTRACT PRICE. THE FIRE ALARM CONTRACTOR IS TO SUBMIT PLANS TO THE FIRE MARSHAL FOR FINAL APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
4. DUCT DETECTORS ARE SUPPLIED AND INSTALLED BY THE FIRE ALARM CONTRACTOR. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO FURNISH ALL WIRING NECESSARY TO CONNECT THESE DEVICES TO THE FIRE ALARM SYSTEM. PROVIDE WITH REMOTE INDICATOR OR SEPARATELY ZONED. COORDINATE QUANTITY AND LOCATION WITH THE MECHANICAL DRAWINGS.
5. STATE SYSTEMS IS TO PROVIDE AND INSTALL FIRE ALARM SYSTEM THROUGH THE OWNER. REFER TO PLANS AND SPECIFICATIONS FOR EXACT REQUIREMENTS

GENERAL ELECTRICAL NOTES
(CONTINUED.)

C. CONDUIT AND CABLE SYSTEM FOR DATA AND TELEPHONE WIRING.
1. CONDUIT FOR DATA AND TELEPHONE SYSTEM, TO INCLUDE SLEEVES IN FIRE WALLS.
2. DATA OUTLETS IN THE FLOOR REQUIRE 1" CONDUIT FROM EACH ONE TO A POINT ABOVE AN ACCESSIBLE CEILING. NO DAISY CHAINING OF DATA OUTLETS/CONDUITS IS ALLOWED.
3. CABLE IS NOT TO BE INSTALLED EXPOSED. VERIFY WITH MECHANICAL PLANS FOR PLENUM SPACES CABLE IN THESE AREAS IS PLENUM RATED.
4. ELECTRICAL CONTRACTOR IS TO PROVIDE, INSTALL AND TERMINATE ALL DATA/TELEPHONE WIRING. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.

D. UNDERGROUND CONDUITS AND SLEEVES AS NECESSARY FOR DISTRIBUTION:
1. DO NOT ROUTE GROUPS OF CONDUITS OR SLEEVES ABOVE FOOTINGS UNLESS NOTED TO DO SO. IF CONFLICT OCCURS, CONSULT ARCHITECT AND ENGINEER.
2. DO NOT ROUTE CONDUIT OR SLEEVES BELOW BEARING WALLS WHEN RUNNING PARALLEL WITH WALLS.
3. LIMIT WIDTH OF CONDUIT AND SLEEVES NOT TO EXCEED 3'-0" IN WIDTH AS IT PASSES UNDER WALL FOOTING. ALIGN ITEMS PERPENDICULAR TO THE FOOTINGS AS IT PASSES BELOW THE FOOTING.
4. PROVIDE A MINIMUM SPACING OF 2'-0" BETWEEN CONDUIT GROUPS AS THEY PASS UNDER FOOTINGS.
5. DO NOT ROUTE CONDUITS OR SLEEVES UNDER COLUMN FOOTINGS OR PAD FOOTINGS.

E. GROUNDING SYSTEM
1. ALL CONDUITS ARE TO CONTAIN A GREEN GROUNDING CONDUCTOR, SIZED PER THE N.E.C.

F. EQUIPMENT REQUIREMENTS:
1. VERIFY EXACT FUSE SIZE AND EQUIPMENT REQUIREMENTS WITH THE ACTUAL EQUIPMENT FURNISHED BY THE OTHER CONTRACTORS.
2. ALL HOT WATER CIRCULATION PUMPS ARE TO BE CONTROLLED VIA 7 DAY TIME CLOCKS PROVIDED BY THE MECHANICAL CONTRACTOR.
3. FINAL EQUIPMENT CONNECTIONS: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS REQUIRED TO MAKE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT FURNISHED ON THIS PROJECT. VERIFY ALL REQUIREMENTS, CONDUCTOR SIZES, OVERCURRENT PROTECTION, PHASES, VOLTAGES, MOTOR ROTATION, ETC., WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER. FURNISH HARD WIRING FOR ALL WATER HEATERS AND CIRCULATION PUMPS.
4. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL CONTACTORS, MAGNETIC STARTERS, AND MISCELLANEOUS WIRING NECESSARY TO CONTROL EXHAUST FANS AND OTHER AUTOMATICALLY OPERATED EQUIPMENT. THE CONTROLS CONTRACTOR IS TO FURNISH ONE RELAY PER ITEM AS COMPATIBLE WITH THEIR CONTROL SYSTEM.

G. HVAC CONTROL:
1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FROM EACH HVAC UNIT TO ITS RESPECTIVE THERMOSTAT, HUMIDISTAT, AND/OR SENSOR, AS REQUIRED. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING NECESSARY FOR LINE VOLTAGE CONTROL SYSTEMS.
3. ALL LOW VOLTAGE CONTROL WIRING SHALL BE ENCLOSED IN CONDUIT IN SPACES WITH NO CEILING
4. COORDINATE ALL HVAC WIRING WITH THE MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR.
5. THE ELECTRICAL CONTRACTOR IS TO PROVIDE A MAGNETIC STARTER FOR EACH EXHAUST FAN. THIS STARTER IS CONTROLLED BY THE LIGHTING/MOTION SENSOR SYSTEM.
6. THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL ALL LINE VOLTAGE THERMOSTATS.

H. HOUSEKEEPING PAD
1. FLOOR MOUNTED SWITCH GEAR AND TRANSFORMERS REQUIRE HOUSE KEEPING PAD.
2. PROVIDE 3½" CONCRETE PADS WITH 3000 PSI CONCRETE AND WIRE REINFORCING MAT.
3. PADS TO BE ISOLATED FROM SLAB.

I. ACCESS CONTROL:
1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL BOXES AND CONDUIT FOR THE CARD READER STUB UPS. CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING 120 VOLT POWER TO EACH ACCESS CONTROL CABINET AND AT EACH DOOR. CONDUIT AT DOORS WITH LOCKS IS TO BE INSTALLED CONCEALED IN THE WALL.
2. STATE SYSTEMS IS TO PROVIDE AND INSTALL ACCESS CONTROL SYSTEMS THROUGH THE OWNER.

J. EMERGENCY NOTIFICATION SYSTEM:
1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL BOXES AND CONDUIT FOR THE EMERGENCY NOTIFICATION SYSTEM. CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING 120 VOLT POWER TO HEAD END UNIT.
2. STATE SYSTEMS IS TO PROVIDE AND INSTALL EMERGENCY NOTIFICATION SYSTEMS THROUGH THE OWNER.

K. FIELD LIGHTING:
1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE FIELD LIGHTING SYSTEM AND ALL OF ITS COMPONENTS.
2. BASE BID HELLAS FIELD LIGHTING.
3. PROVIDE ALTERNATE BID FOR MUSCO FIELD LIGHTING REFER TO SHEETS ES1.0A THROUGH ES1.6A.

STATE OF ARKANSAS — MICHAEL T. RAPPOLD — REGISTERED PROFESSIONAL ENGINEER — No.16929 — 4-6-2026

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com
HSA JOB # 25-200

HightJackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

ELECTRICAL LEGEND, NOTES & DETAILS
SHEET
E1.1

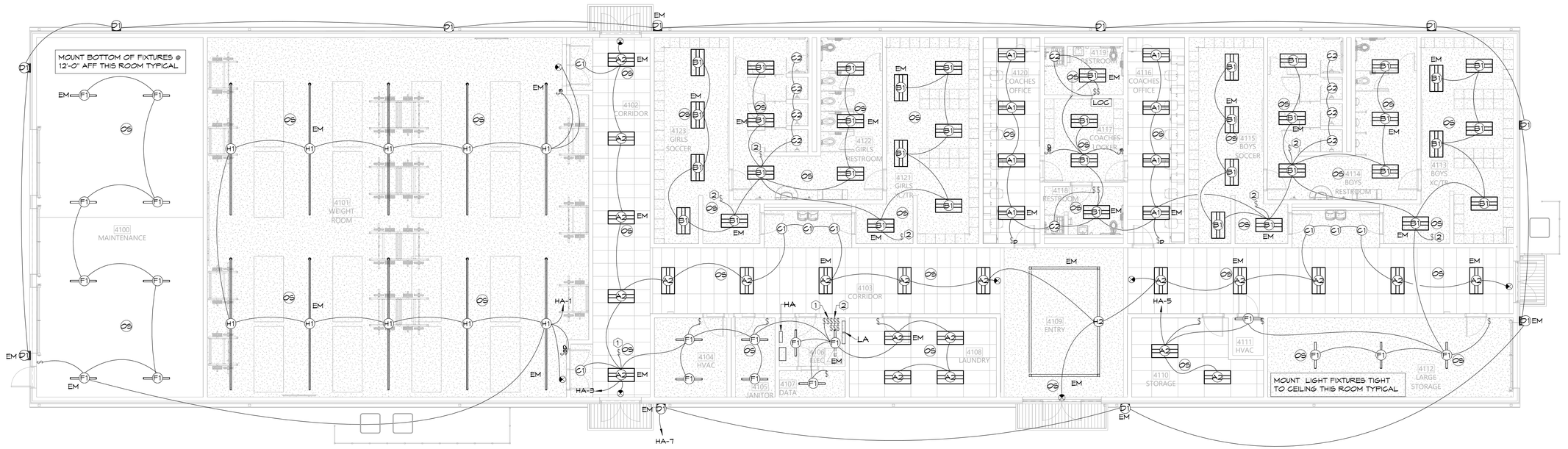
LIGHTING FIXTURE SCHEDULE

MARK	VOLT	WATT	LAMP		MOUNTING				MOUNTING HEIGHT	MANUFACTURER	CATALOG NO.	REMARKS
			NO.	COLOR TEMP	BRKT	PEND	REC	SURF				
A1	UNV	56	--	4000K			X			H.E. WILLIAMS	LT-24-L82/840-AF-DIM-UNV	2X4' LED DIRECT INDIRECT TROFFER, 8200 LUMEN OUTPUT. 0-10V
										METALUX	24CZ2-85-S-UNV-L840-CD1-U	
A2	UNV	41	--	4000K			X			H.E. WILLIAMS	LT-24-L52/840-AF-DIM-UNV	2X4' LED DIRECT INDIRECT TROFFER, 5200 LUMEN OUTPUT. 0-10V
										METALUX	24CZ2-55-S-UNV-L840-CD1-U	
B1	UNV	56	--	4000K			X			H.E. WILLIAMS	LT-24-L82/840-AF-DFK-2448WH-DIM-UNV	2X4' LED DIRECT INDIRECT TROFFER, 8200 LUMEN OUTPUT. 0-10V DIMMING, GYP BOARD FLANGE KIT
										METALUX	24CZ2-85-S-UNV-L840-CD1-U /DF-24W-U	
C1	UNV	15	--	4000K			X			H.E. WILLIAMS	6DR-TL-L15/840-DIM-UNV-RW-OF-WH-WH-AD-N-F1	6" APERTURE LED DOWNLIGHT, 1500 LUMENS, WHITE TRIM AND REFLECTOR, DIFFUSE REGRESSED LENS, 0-10V DIMMING.
										COOPER	HG6-15-D010/HM6-12-840-61-WD-H	
C2	UNV	15	--	4000K			X			H.E. WILLIAMS	6DR-TL-L15/840-DIM-UNV-SW-OF-WH-N-F1	6" APERTURE LED SHOWER DOWNLIGHT, 1500 LUMENS, WHITE FLANGE, NON-CONDUCTIVE SHOWER TRIM
										COOPER	PR6FS12D010-PR6M12MD8FSCTBS	
D1	UNV	70	--	4000K				X	MOUNT BOTTOM OF FIXTURE 10'-0" AFF	BEACON	GSP2-160L-75-4K8-3-UNV-DBS	18" WALL PACK, 9900 LUMEN OUTPUT, TYPE 3 DISTRIBUTION, REFER TO PLANS FOR MOUNTING HEIGHTS. DARK BRONZE FINISH.
										MCGRAW EDISON	155-SA1-F-740-U-T3-CTBS	
EXIT	UNV	5	--	4000K						MULE LIGHTING	PVT-U-A-G-S/R-BA	EXIT SIGN, EDGE LIT, UNIVERSAL MOUNT- SEE PLANS FOR NUMBER OF SIDES AND CHEVRONS. REQUIRES UNSWITCHED HOT WIRE.
										BARRON	S900U-LB-SR-RED-AG	
F1	UNV	40	--	4000K		X			MOUNT BOTTOM OF FIXTURE 10'-0" AFF	H.E. WILLIAMS	T5R-4-L50/840-(L46)-(2)VBY-3/PKU-DIM-UNV	4' UTILITY STRIP LIGHT, 4600 LUMENS, CHAIN HUNG TO 10' AFF UNLESS OTHERWISE NOTED.
										METALUX	4ST2L4040R-AYC-CHAIN/SET	
H1	UNV	15W/FT	--	4000K				X	MOUNT BOTTOM OF FIXTURE 10'-0" AFF	PMC	N44-D/1-AC-40K-165-055-20"-D-BWW-XX-UNV	4'X20' PENDANT MOUNT DIRECT/INDIRECT, 1500D/500U LUMEN OUTPUT. 0-10V
										NULITE	RP44-B-FR-FCL-ASMY-15-03-L-40-UNV-D-1-1-CTBS-AC-CTBS-120	
H2	UNV	15W/FT	--	4000K				X	MOUNT BOTTOM OF FIXTURE EVEN WITH BOTTOM OF BULK HEAD	PMC	N44-D/1-AC-40K-165-055-CUSTOM-D-BWW-XX-UNV (RECT L16'XL10')	4' SQUARE PENDANT MOUNT DIRECT/INDIRECT 10WX16L, 1500D/500U LUMEN OUTPUT, 0-10V. PROVIDE ALL HARDWARE AND 90 DEGREE HUB FOR CONTINUOUS CONFIGURATION OF LIGHT FIXTURE SHOWN ON PLAN.
										NULITE	RP44-B-FR-FCL-ASMY-15-05-L-40-UNV-D-1-1-CTBS-AC-CTBS-120 (RECT L16'XL10')	

NOTE : HOLD ALL INSULATION OFF RECESSED FIXTURES AT A MINIMUM OF 3" TO THE SIDE.
NOTE : EXIT LIGHTS AND EMERGENCY LIGHTS REQUIRES UNSWITCHED HOT WIRE PER MANUFACTURER RECOMMENDATION.
NOTE : FIXTURES MARKED AS "CTBS" REQUIRE STANDARD FINISHED SELECTED BY THE ARCHITECT.
NOTE : FOR ALL FIXTURES WITH 0-10V DIMMING, PROVIDE LOW VOLTAGE CABLE.
NOTE : FIXTURES MARKED NL REQUIRE UNSWITCHED HOT WIRE.
NOTE : ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL LED AND DRIVER COMBINATIONS THAT WILL PROVIDE THE OWNER WITH A FIVE YEAR WARRANTY ON THE FIXTURE.
NOTE : EM FIXTURES REQUIRE EMERGENCY BATTERY PACKS.
NOTE : FIELD VERIFY ALL FIXTURE LENGTHS NOTES AS LENGTH PER PLANS. PROVIDE CONTINUOUS RUNS OF FIXTURES. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND THE ARCHITECT.

KEYED LIGHTING NOTES

1. LOCATE CORRIDOR LIGHT SWITCH IN ELECTRICAL ROOM NEXT TO PANEL LABEL PLATE WITH ROOM NUMBERS.
2. LOCATE LOCKER ROOMS AND RESTROOMS LIGHT SWITCHES IN ELECTRICAL ROOM NEXT TO PANEL LABEL PLATE WITH ROOM NUMBERS.



1 LIGHTING PLAN

1/8" = 1'-0"

NORTH

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com
HSA JOB # 25-200

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 16929
MICHAEL T. RAPPOLD
4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

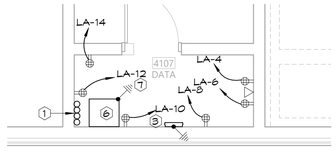
DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO. 2421.2
REVISION DATES

LIGHTING PLAN

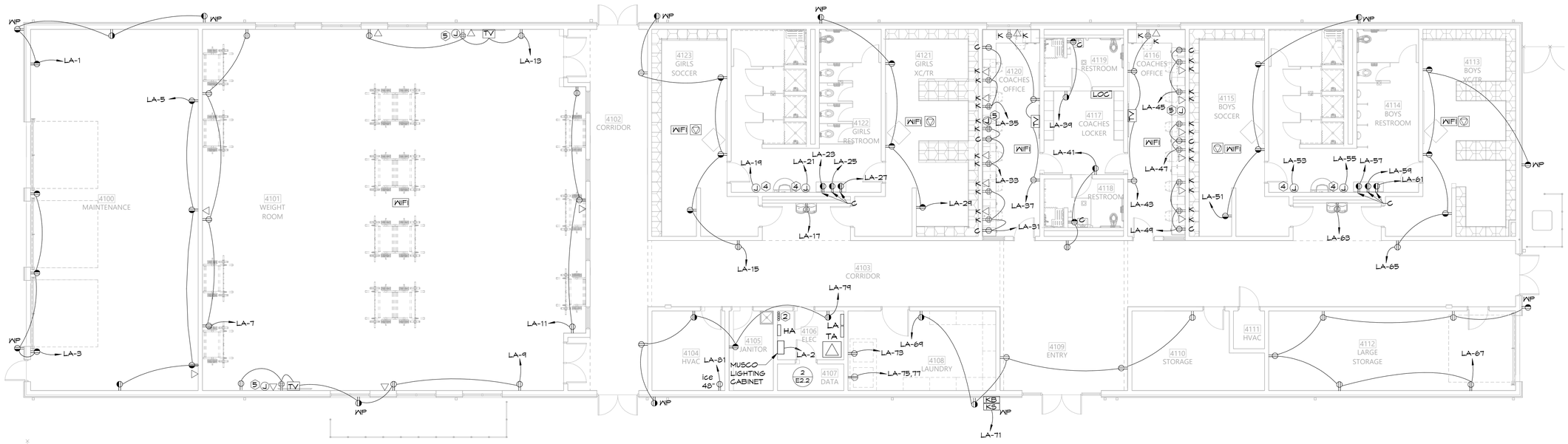
SHEET
E2.1

KEYED POWER NOTES

1. REFER TO ELECTRICAL SITE PLAN FOR REQUIREMENTS FOR LOW VOLTAGE CONDUITS.
2. REFER TO ELECTRICAL SITE PLAN FOR REQUIREMENTS FOR POWER CONDUITS.
3. PROVIDE 1/4" X 20" X 4" GROUNDING BAR. INSTALL A #1/0 COPPER GROUND WIRE FROM GROUND BAR TO ELECTRICAL SERVICE GROUNDING ELECTRODE. LEAVE 5' TAIL.
4. HAND DRYER. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE GENERAL CONTRACTOR.
5. JUNCTION BOX AT ABOVE COUNTER. STUB ONE 1" CONDUIT ABOVE CEILING FOR CONNECTION TO MONITOR.
6. EQUIPMENT RACK, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. QUANTITY AS REQUIRED.
7. CONNECT TO THE GROUND BAR VIA A #6 COPPER GROUND CONDUCTOR.



2 ENLARGED DATA ROOM POWER PLAN
1/4" = 1'-0"



1 POWER PLAN
1/8" = 1'-0"

NORTH

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 16929
MICHAEL T. RAPPOLD
4-6-2026

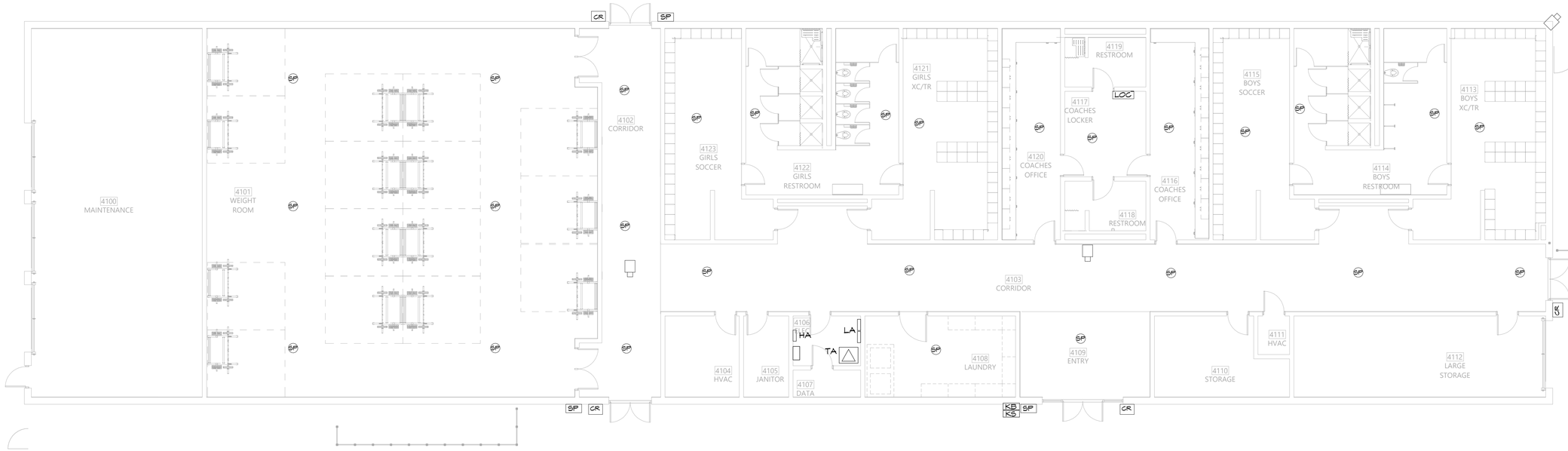
Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES:

POWER PLAN

SHEET
E2.2



1 SPECIAL SYSTEMS PLAN

1/8" = 1'-0"

NORTH

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 16929
MICHAEL T. RAPPOLD
4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR

BWHS - Locker Room Building

1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.

CHECK BY: M.T.R.

ISSUE DATE: 04/06/2026

PROJECT NO.: 2421.2

REVISION DATES

HSA Engineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com
HSA JOB # 25-200

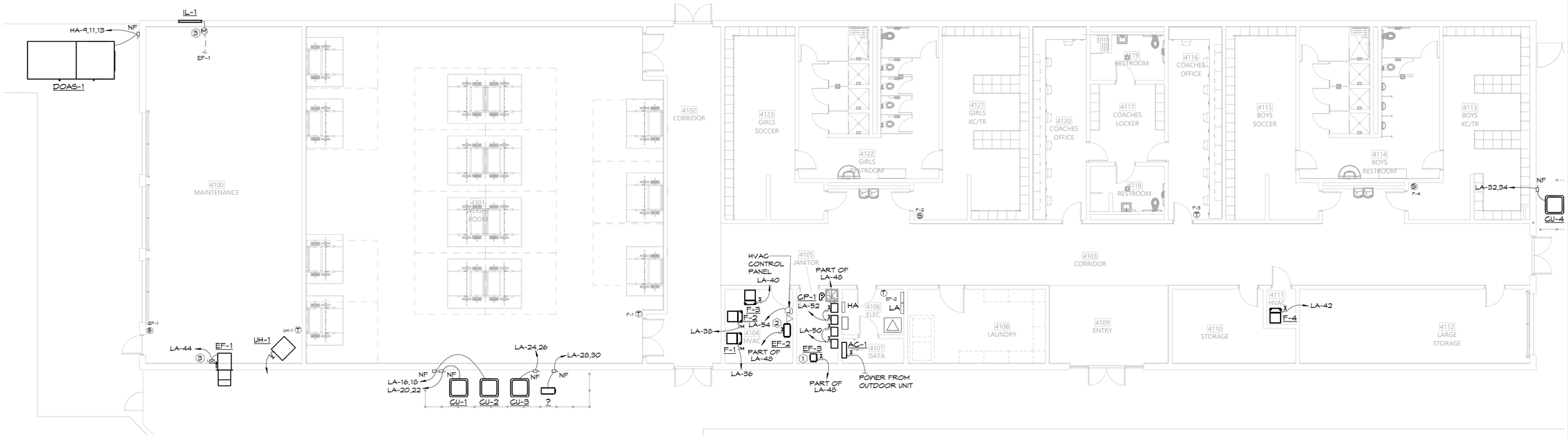
SPECIAL SYSTEMS PLAN

SHEET

E2.4

KEYED MECHANICAL POWER NOTES

1. INTERLOCK EXHAUST FAN WITH LIGHTS IN JANITORS ROOM PROVIDE ALL CONTACTS AND RELAYS.
2. EXHAUST FAN CONTROLLED WITH LINE VOLTAGE THERMOSTAT.
3. INTERLOCK EXHAUST FAN WITH WALL SWITCH IN ROOM. INTERLOCK INTAKE LOUVERS WITH EXHAUST FAN. WHEN SWITCH IS ACTIVATED END SWITCH ON LOUVER IS TO OPEN AND THE EXHAUST FAN IS TO TURN ON.



1 MECHANICAL POWER PLAN

1/8" = 1'-0"

NORTH

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 16929
MICHAEL T. RAPPOLD
4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

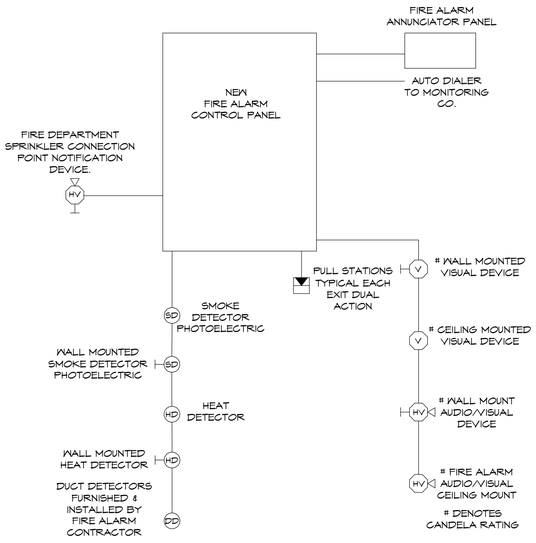
A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

MECHANICAL POWER PLAN
SHEET
E2.3

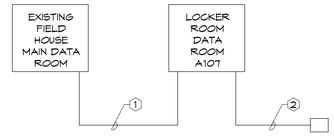
MOUNTING HEIGHTS		
ELECTRICAL OUTLET DEVICE TYPE	MASONRY WALL, BASE (STARTER) COURSE HEIGHT 4 INCH / 8 INCH MOUNTING HEIGHT ABOVE FLOOR TO BOTTOM OF OUTLET (DEVICE) BOX	SHEETROCK WALL, BASE MOUNTING HEIGHT ABOVE FLOOR TO BOTTOM OF OUTLET (DEVICE) BOX
* RECEPTACLES OUTLETS, MICROPHONE OUTLETS (JACKS), EQUIPMENT OUTLETS (JACKS), TELEVISION OUTLETS (JACKS), PORTABLE TELEPHONE OUTLETS, COMPUTER OUTLETS, ETC.		
* GENERAL DEVICE THROUGHOUT	18"	18"
* MECHANICAL EQUIPMENT ROOMS	52"	48"
* ABOVE 24" HIGH COUNTER TOPS	30"	32"
* ABOVE 30" HIGH COUNTER TOPS	36"	40"
* ABOVE 36" HIGH COUNTER TOPS	44"	48"
* ABOVE 48" HIGH COUNTER TOPS	52"	56"
* ABOVE BACKSPLASH TOP	2" (MINIMUM)	2" (MINIMUM)
* ABOVE OR ADJACENT TO LAVATORIES	44"	48"
* BEHIND DOMESTIC REFRIGERATORS	52"	56"
* BEHIND DOMESTIC WASHERS AND DRYERS	36"	32"
* SERVING DOMESTIC DISHWASHERS	2"	2"
* WALL-MOUNTED TELEPHONE OUTLETS	44"	48"
* TELEPHONE/VIDEO CONTROL	44"	48"
TOGGLE SWITCHES	48"	48"
RECESSED MOTOR CONTROLLERS	60"	56"
ELECTRICAL PANELS, TERMINAL CABINETS, ETC., TO CENTER OF TUB OR BOX	50"	48"
WALL SWITCHES	48"	48"
HVAC THERMOSTAT/SENSOR	48"	48"
VOLUME CONTROLS, CALL-IN SWITCHES, DOOR BELL BUTTONS	44"	44"
HORN/STROBES (FIRE ALARM)	80"	80"
* PULL STATIONS (FIRE ALARM)	42" MINIMUM 48" MAXIMUM	42" MINIMUM 48" MAXIMUM

NOTE: VERIFY ALL MILLWORK LOCATIONS WITH THE ARCHITECTURAL MILLWORK DRAWINGS PRIOR TO ROUGH-IN.
* OPERATING HANDLE TO BE MOUNTED NO LESS THAN 42" OR NO MORE THAN 48" A.F.F.



NOTE:
1. INSTALL WIRING TO ALL DUCT DETECTORS. REFER TO SPECIAL SYSTEMS PLANS.
2. COORDINATE WITH THE MECHANICAL DRAWINGS.
3. COORDINATE WITH THE LOCAL "A.H.J." PRIOR TO BIDDING THIS PROJECT.
4. FIRE ALARM CONTRACTOR TO MODIFY AS NECESSARY FOR SYSTEM PROVIDED.

2 FIRE ALARM SYSTEM RISER DIAGRAM
N.T.S.



COMMUNICATIONS/DATA CONDUIT RISER KEYED NOTES

1. 2-2" CONDUITS, STUB-UP 12" ABOVE FINISHED FLOOR IN LOCKER ROOM DATA ROOM, CAP AND LABEL AT BOTH ENDS. REFER TO ELECTRICAL SITE PLAN FOR REQUIREMENTS.
2. INSTALL QUAZITE BOX TO ALLOW CONNECTION OF FUTURE CONDUITS TO DATA ROOM. REFER TO ELECTRICAL SITE PLAN FOR REQUIREMENTS.

NOTES: COMMUNICATION/DATA SYSTEM CONDUITS
1. EACH CONDUIT IS LEFT WITH A ¼" PULL ROPE.
2. SNAB ALL CONDUITS AND CAP AFTER INSTALLATION, CUT ALL CONDUITS TO THE SAME LENGTH, KEEP SQUARE AND STRAIGHT WITH THE WALL AND THE FLOOR.
3. LABEL EACH CONDUIT ON BOTH ENDS AND PROVIDE LABELING ON RISER DIAGRAM
4. CONDUIT ELBOWS ARE TO BE 36" RADIUS MINIMUM. SCHEDULE 80 PVC.
5. COORDINATE INSTALLATION WITH ARCHITECT AND GENERAL CONTRACTOR.

3 COMMUNICATIONS/DATA CONDUIT SYSTEM RISER
N.T.S.

STATE OF ARKANSAS
MICHAEL T. RAPOLD
REGISTERED PROFESSIONAL ENGINEER
No.16929
4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

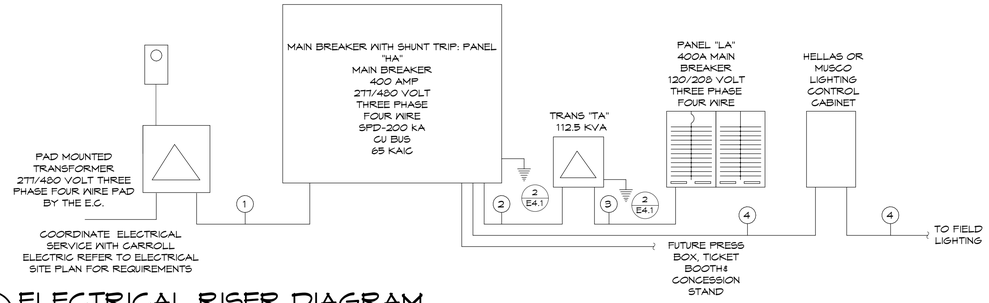
DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES:

ELECTRICAL DETAILS
SHEET
E3.1

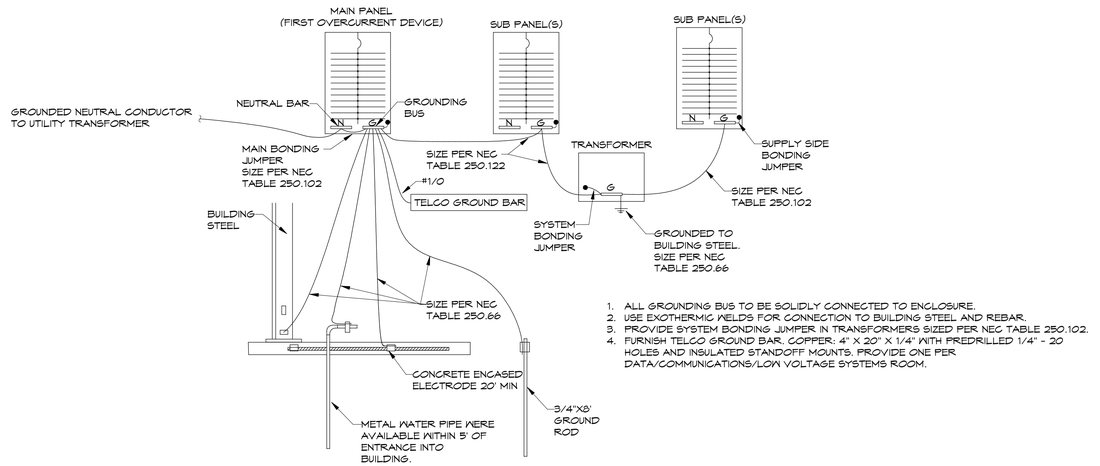
HSA Engineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com
HSA JOB # 25-200

FEEDER SCHEDULE

1. 2 SETS: 4-#3/0, 2" CONDUIT EACH
2. 3-#2/0, 1-#6 GRD; 2" CONDUIT
3. 2 SETS: 4-#3/0, 1-#3 GRD; 2" CONDUIT EACH
4. FIELD LIGHTING CIRCUIT CONDUIT AND WIRE PER PANEL SCHEDULE



1 ELECTRICAL RISER DIAGRAM
N.T.S.



1. ALL GROUNDING BUS TO BE SOLIDLY CONNECTED TO ENCLOSURE.
2. USE EXOTHERMIC WELDS FOR CONNECTION TO BUILDING STEEL AND REBAR.
3. PROVIDE SYSTEM BONDING JUMPER IN TRANSFORMERS SIZED PER NEC TABLE 250.102.
4. FURNISH TELCO GROUND BAR, COPPER; 4" X 20" X 1/4" WITH PREDRILLED 1/4" - 20 HOLES AND INSULATED STANDOFF MOUNTS. PROVIDE ONE PER DATA/COMMUNICATIONS/LOW VOLTAGE SYSTEMS ROOM.

2 GROUNDING DIAGRAM
N.T.S.

⚠ WARNING

MAXIMUM AVAILABLE FAULT CURRENT:
X,XXX
(SYMMETRICAL RMS AMPERES)
DATE: XX/XX/XX

⚠ WARNING

NOMINAL SYSTEM VOLTAGE:
277/480V
MAXIMUM AVAILABLE FAULT CURRENT:
X,XXX
(SYMMETRICAL RMS AMPERES)
OVERCURRENT PROTECTIVE DEVICE CLEARING TIME:
XX SECONDS
DATE: XX/XX/XX

NOTES:
1. LABEL SHALL BE ATTACHED TO ELETRICAL SERVICE EQUIPMENT PER NEC 110.24.
2. PROVIDE DURABLE WEATHERPROOF LABEL.
3. LABEL IS SHOWN TO SCALE.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE AVAILABLE FAULT CURRENT WITH UTILITY AND COMPLETE LABEL ACCORDINGLY

3 FAULT CURRENT LABEL
N.T.S.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.16929
MICHAEL T. RAPPOLD
4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421.2
REVISION DATES

ELECTRICAL RISER DIAGRAMS
SHEET
E4.1

HSA Engineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com
HSA JOB # 25-200

PANEL SCHEDULE

Panel Name: HA

Amp Rating: 400 A
Mains: MCB
MCB Rating: 400 A
Volts/Phase/Wire 480/277 Wye / 3 / 4

Manufacturer: SQUARE D
Panel Type: NF
Mounting: Surface
Remarks: CU BUS

Fault Rating: 65 KAIC
Fed From:
Location: ELEC 4106

Circuit Description	COND. SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A		B		C		CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description
L-WEIGHT ROOM & MAINTENANCE	¾	12	12	3	1	20	1	3320	2933					2	20	3	5	8	8	1	*** JB- POLE FIELD LIGHT
L-RMS A102-A109, A121-A123	¾	12	12	3	1	20	3			2974	2933			4	--	--	--	--	--	--	--
L-RMS A110-A120	¾	12	12	3	1	20	5					1868	2933	6	--	--	--	--	--	--	--
**L-EXTERIOR WALL	¾	12	12	3	1	20	7	770	2933					8	20	3	5	8	8	1	*** JB- POLE FIELD LIGHT
DOAS-1	1¼"	4	8	5	3	70	9			13822	2933			10	--	--	--	--	--	--	--
--	--	--	--	--	--	--	11					13822	2933	12	--	--	--	--	--	--	--
--	--	--	--	--	--	--	13	13822	2933					14	20	3	5	8	8	1	*** JB- POLE FIELD LIGHT
Spare	--	--	--	--	1	20	15			0	2933			16	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	17					0	2933	18	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	19	0	2933					20	20	3	5	8	8	1	*** JB- POLE FIELD LIGHT
Spare	--	--	--	--	1	20	21			0	2933			22	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	23					0	2933	24	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	25	0	0					26	20	3	--	--	--	--	Spare
Spare	--	--	--	--	1	20	27			0	0			28	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	29					0	0	30	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	31	0	0					32	20	3	--	--	--	--	Spare
Spare	--	--	--	--	1	20	33			0	0			34	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	35					0	0	36	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	37	0	0					38	30	3	--	--	--	--	Spare
Spare	--	--	--	--	1	20	39			0	0			40	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	41					0	0	42	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	43	0	0					44	60	3	--	--	--	--	Spare
Spare	--	--	--	--	1	20	45			0	0			46	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	47					0	0	48	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	49	0	0					50	120	3	--	--	--	--	Spare
Spare	--	--	--	--	1	20	51			0	0			52	--	--	--	--	--	--	--
Spare	--	--	--	--	1	20	53					0	0	54	--	--	--	--	--	--	--
TRANSFORMER TA	*	*	*	4	3	175	55	26382	--					56	--	3	--	--	--	--	SPD
--	--	--	--	--	--	--	57			26591	--			58	--	--	--	--	--	--	--
--	--	--	--	--	--	--	59					22379	--	60	--	--	--	--	--	--	--
						Total Load:		56028 VA		55118 VA		49801 VA									
						Total Amps:		205 A		202 A		180 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	8929 VA	125.00%	11162 VA		
Receptacle	31120 VA	66.07%	20560 VA	Total Conn. Load:	160946 VA
HVAC	60945 VA	100.00%	60945 VA	Total Est. Demand:	152618 VA
Motor	0 VA	0.00%	0 VA	Total Conn. Current:	196 A
Other	59954 VA	100.00%	59954 VA	Total Est. Demand Current:	184 A
Kitchen	0 VA	0.00%	0 VA		

Notes:
* REFER TO ELECTRICAL RISER FOR CONDUIT AND WIRE SIZE.
** CONTROLLED BY TIME CLOCK AND PE CELL.
*** ROUTE CIRCUIT THRU FIELD LIGHTING CONTROL PANEL. COORDINATE WITH FIELD LIGHTING PROVIDER

PANEL SCHEDULE

Panel Name: LA

Amp Rating: 400 A
Mains: MCB
MCB Rating: 400 A
Volts/Phase/Wire 120/208 Wye / 3 / 4

Manufacturer: SQUARE D
Panel Type: NQ
Mounting: Surface
Remarks: CU BUS

Fault Rating: 22 KAIC
Fed From: TA
Location: ELEC 4106

Circuit Description	COND. SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A		B		C		CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description
R-RM 4100 MAINTENANCE	¾	10	10	3	1	20	1	720	200					2	20	1	3	12	12	¾	FIELD LIGHTING CONTROL CABINET
R-RM 4100 MAINTENANCE	¾	10	10	3	1	20	3			720	360			4	20	1	3	12	12	¾	R-RM 4107 DATA AV RACK
R-RM 4100 MAINTENANCE	¾	10	10	3	1	20	5					720	360	6	20	1	3	12	12	¾	R-RM 4107 DATA AV RACK
R-RM 4101 WEIGHT ROOM	¾	10	10	3	1	20	7	540	360					8	20	1	3	12	12	¾	R-RM 4107 DATA
R-RM 4101 WEIGHT ROOM	¾	10	10	3	1	20	9			1380	360			10	20	1	3	12	12	¾	R-RM 4107 DATA MDF RACK
R-RM 4101 WEIGHT ROOM	¾	10	10	3	1	20	11					540	360	12	20	1	3	12	12	¾	R-RM 4107 DATA
R-RM 4101 WEIGHT ROOM	¾	10	10	3	1	20	13	1020	360					14	20	1	3	12	12	¾	R-RM 4107 DATA
R-RM A123 GIRLS SOCCER	¾	12	12	3	1	20	15			1080	2652			16	40	2	4			¾	CU-1
* R-RM A4103 CORR ENG	¾	12	12	3	1	20	17					600	2652	18	--	--	--	--	--	--	--
* J-RM 4122 GIRLS HAND DRYER	¾	12	12	3	1	20	19	1500	2652					20	40	2	4			¾	CU-2
* J-RM 4122 GIRLS HAND DRYER	¾	12	12	3	1	20	21			1500	2652			22	--	--	--	--	--	--	--
R-RM 4122 GIRLS RESTROOM	¾	12	12	3	1	20	23					180	2652	24	40	2				¾	CU-3
R-RM 4122 GIRLS RESTROOM	¾	12	12	3	1	20	25	180	2652					26	--	--	--	--	--	--	--
R-RM 4122 GIRLS RESTROOM	¾	12	12	3	1	20	27			180	955			28	15	2				¾	AC-1 INDOOR ACCU-1 OUTDOOR
R-RM 4121 GIRLS XC/TR	¾	12	12	3	1	20	29					720	955	30	--	--	--	--	--	--	--
R-RM 4120 COACHES OFFICE	¾	12	12	3	1	20	31	900	3786					32	60	2	4	6	6	1	CU-4
R-RM 4120 COACHES OFFICE	¾	12	12	3	1	20	33			900	3786			34	--	--	--	--	--	--	--
R-RM 4120 COACHES OFFICE	¾	12	12	3	1	20	35					900	1656	36	25	1	3	10	10	¾	F-1
R-RM 4120 COACHES OFFICE	¾	12	12	3	1	20	37	1020	1656					38	25	1	3	10	10	¾	F-2
R-RMS 4117, 4119	¾	12	12	3	1	20	39			360	1656			40	25	1	3	10	10	¾	F-3
R-RMS 4117, 4118	¾	12	12	3	1	20	41					540	1656	42	25	1	3	10	10	¾	F-4
R-RM 4116 COACHES OFFICE	¾	12	12	3	1	20	43	1020	1656					44	25	1	3	8	8	¾	EF-1 RM 4100 MAINTENANCE
R-RM 4116 COACHES OFFICE	¾	12	12	3	1	20	45			900	900			46	20	1	3	10	10	¾	UH-1 RM 4100 MAINTENANCE
R-RM 4116 COACHES OFFICE	¾	12	12	3	1	20	47					900	958	48	20	1	3	12	12	¾	EF-2, EF-3, CP-1
R-RM 4116 COACHES OFFICE	¾	12	12	3	1	20	49	900	400					50	20	1	3	12	12	¾	WATER HEATERS RM 4105 JAN
R-RM A115 BOYS SOCCER	¾	10	10	3	1	20	51			720	400			52	20	1	3	12	12	¾	WATER HEATERS RM 4105 JAN
* J-RM A114 BOYS HAND DRYER	¾	10	10	3	1	20	53					1500	600	54	20	1	3	12	12	¾	HVAC CONTROL RM 4104 HVAC
* J-RM A114 BOYS HAND DRYER	¾	10	10	3	1	20	55	1500						56							
R-RM A114 BOYS RESTROOM	¾	10	10	3	1	20	57			180				58							
R-RM A114 BOYS RESTROOM	¾	10	10	3	1	20	59					180		60							
R-RM A114 BOYS RESTROOM	¾	10	10	3	1	20	61	180						62							
* R-RM A4103 CORR ENG	¾	10	10	3	1	20	63			600				64							
R-RM 4113 BOYS XC/TR	¾	10	10	3	1	20	65					900		66							
R-RM A112 LARGE SRORAGE	¾	10	10	3	1	20	67	1080						68							
R-RMS A108, A104, A110	¾	12	12	3	1	20	69			900				70							
KNOX BOX POWER	¾	12	12	3	1	20	71					600		72							
* R-RM 4108 LAUNDRY WASHER	¾	12	12	3	1	20	73	1200						74							
* R-RM 4108 LAUNDRY DRYER	¾	10	10	4	2	30	75			2250				76							
--	--	--	--	--	--	--	77					2250		78							
R-RMS 4104, 4105, 4106	¾	12	12	3	1	20	79	900	--					80	--	3	--	--	--	--	SPD
R-RM 4104 HVAC ICE MACHINE	¾	12	12	3	1	20	81			1200	--			82	--	--	--	--	--	--	--
Space	--	--	--	--	1	--	83					--	--	84	--	--	--	--	--	--	--
						Total Load:		26382 VA		26591 VA		22379 VA									
						Total Amps:		225 A		227 A		186 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	31120 VA	66.07%	20560 VA	Total Conn. Load:	75352 VA
HVAC	19478 VA	100.00%	19478 VA	Total Est. Demand:	64792 VA
Motor	0 VA	0.00%	0 VA	Total Conn. Current:	213 A
Other	24754 VA	100.00%	24754 VA	Total Est. Demand Current:	180 A
Kitchen	0 VA	0.00%	0 VA		

Notes:
* REQUIRES A GFI BREAKER

HSA Engineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 25-200

STATE OF ARKANSAS
MICHAEL T. RAPPOLD
REGISTERED PROFESSIONAL ENGINEER
No. 16929
4-6-2026

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A NEW FACILITY FOR
BWHS - Locker Room Building
1359 Gamble Road, Centerton, AR 72719

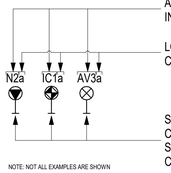
DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 04/06/2026
PROJECT NO. 2421.2
REVISION DATES

ELECTRICAL SCHEDULES
SHEET
E5.1

TECHNOLOGY SYMBOLS LEGEND

- FLOOR BOX OR FLOOR POKE-THRU DEVICE
- FLOOR CONDUIT STUB
- COMMUNICATIONS DEVICE - WALL
- COMMUNICATIONS DEVICE - CEILING
- AUDIOVISUAL DEVICE - WALL
- AUDIOVISUAL DEVICE - CEILING
- ELECTRONIC SECURITY DEVICE - WALL
- ELECTRONIC SECURITY DEVICE - CEILING, UNDERMOUNT, OR DOOR
- SPECIAL PURPOSE POWER RECEPTACLE - WALL
- SIMPLEX POWER RECEPTACLE - WALL
- DUPLEX POWER RECEPTACLE - WALL
- DOUBLE DUPLEX POWER RECEPTACLE - WALL
- HARDWIRED POWER CONNECTION - WALL
- SPECIAL PURPOSE POWER RECEPTACLE - CEILING
- SIMPLEX POWER RECEPTACLE - CEILING
- DUPLEX POWER RECEPTACLE - CEILING
- DOUBLE DUPLEX POWER RECEPTACLE - CEILING
- HARDWIRED POWER CONNECTION - CEILING
- SECURITY CAMERA - SINGLE SENSOR - WALL
- SECURITY CAMERA - SINGLE SENSOR - CEILING
- SECURITY CAMERA - PTZ - WALL
- SECURITY CAMERA - PTZ - CEILING
- SECURITY CAMERA - 360° - WALL
- SECURITY CAMERA - 360° - CEILING
- SECURITY CAMERA - MULTI-SENSOR - WALL
- SECURITY CAMERA - MULTI-SENSOR - CEILING
- SECURITY CAMERA - DUAL-SENSOR - WALL
- SECURITY CAMERA - DUAL-SENSOR - CEILING
- LOUDSPEAKER - CEILING (LOCATION SHOWN FOR COORDINATION PURPOSES ONLY)
- LOUDSPEAKER - WALL (LOCATION SHOWN FOR COORDINATION PURPOSES ONLY)
- CLOCK - WALL

- CABLE TRAY - REFER TO PLANS FOR SIZE
- COMMUNICATIONS CONDUIT - REFER TO PLANS FOR SIZE
- J-HOOK PATHWAY - REFER TO PLANS FOR SIZE
- CABLE LADDER RUNWAY - REFER TO PLANS FOR SIZE



ALPHANUMERIC DEVICE ID DESIGNATES INFRASTRUCTURE REQUIREMENTS

LOWERCASE LETTER DESIGNATES CABLE PULL TYPE

SYMBOL DESIGNATES AUDIOVISUAL, COMMUNICATIONS, OR ELECTRONIC SECURITY DEVICE AND FLOOR, WALL, OR CEILING CONDITION

NOTE: NOT ALL EXAMPLES ARE SHOWN

DEVICE TAG WITH CABLE PULL TYPE

SECURITY CAMERA TAG → SC1a / CAM-01

DENOTES DEVICES WHICH ARE INSTALLED IN THE SAME LOCATION (I.E., SECURITY CAMERA AND ITS ASSOCIATED NETWORK OUTLET)

NOTE: NOT ALL EXAMPLES ARE SHOWN

REFER TO COMMUNICATIONS CABLING LEGEND FOR MORE INFORMATION ON CABLE PULL TYPE

AC = ELECTRONICALLY CONTROLLED AND/OR MONITORED DOOR
AP = WIRELESS ACCESS POINT
AV = AUDIOVISUAL DEVICE
CR = CARD READER
FB = FLOOR BOX
FP = FLOOR POKE-THRU
FS = FLOOR STUB

IC = SECURITY INTERCOM
KP = SECURITY KEYPAD
MS = SECURITY MOTION SENSOR
N = COMMUNICATIONS OUTLET
P = POWER RECEPTACLE
PB = SECURITY PUSH-BUTTON
RX = SECURITY REQUEST-TO-EXIT BUTTON
SC = SECURITY CAMERA

NOTES
1. FOR "AV" DEVICES, REFER TO AUDIOVISUAL INFRASTRUCTURE SCHEDULE.
2. FOR "N" AND "AP" DEVICES, REFER TO COMMUNICATIONS INFRASTRUCTURE SCHEDULE.
3. FOR "AC", "CR", "IC", "KP", "MS", "PB", "RX", AND "SC" DEVICES, REFER TO ELECTRONIC SECURITY INFRASTRUCTURE SCHEDULE.
4. FOR "FB", "FP", AND "FS" DEVICES, REFER TO TECHNOLOGY FLOOR INFRASTRUCTURE SCHEDULE.
5. FOR "P" DEVICES, REFER TO TECHNOLOGY POWER COORDINATION SCHEDULE.

Xx(Yy,Zz)

DENOTES DEVICES WHICH CONTAIN OTHER DEVICES, FOR EXAMPLE:

AVx(Nx,Px) = COMBINATION AUDIOVISUAL BOX CONTAINING NETWORK OUTLET AND POWER RECEPTACLE
FBx(Nx,Px) = FLOOR BOX CONTAINING NETWORK OUTLET AND POWER RECEPTACLE
FPx(Nx,Px) = FLOOR POKE-THRU CONTAINING COMMUNICATIONS AND POWER FURNITURE FEEDS

NOTE: NOT ALL EXAMPLES ARE SHOWN

AVxAVx OR NxNx OR CRxICx

DENOTES DEVICES WHICH FALL ON THE SAME VERTICAL PLANE

NOTE: NOT ALL EXAMPLES ARE SHOWN

TAG FOR LOWEST DEVICE
TAG FOR HIGHEST DEVICE
NxNx
ONE SYMBOL INDICATES MULTIPLE DEVICES

T000 # — ELEVATION SYMBOL DETAIL # / SHEET #

/ T000 — SECTION SYMBOL DETAIL # / SHEET

X — DISPLAY TYPE - REFER TO PROJECTION SCREEN TYPE SCHEDULE AND DISPLAY TYPE SCHEDULE FOR MORE INFORMATION

DISPLAY TYPE AND DISPLAY MOUNTING STYLE
REFER TO SHEET T002 FOR MORE INFORMATION

NUMBER DESIGNATES DISPLAY TYPE — #x — LETTER DESIGNATES DISPLAY MOUNTING STYLE

PROJECTION SCREEN TYPE AND PROJECTOR MOUNTING STYLE
REFER TO SHEET T002 FOR MORE INFORMATION

LETTER DESIGNATES PROJECTION SCREEN TYPE — X# — NUMBER DESIGNATES PROJECTOR MOUNTING STYLE

RACK SYMBOL LEGEND

1U 24-PORT FLAT PATCH PANEL	2U 48-PORT FLAT PATCH PANEL	1U 24-PORT ANGLED PATCH PANEL	2U 48-PORT ANGLED PATCH PANEL	1U 24-PORT NETWORK SWITCH	1U 48-PORT NETWORK SWITCH	1U SERVER
1U FIBER PANEL	2U FIBER PANEL	4U FIBER PANEL	1U HORIZONTAL WIRE MANAGER	2U HORIZONTAL WIRE MANAGER	4U HORIZONTAL WIRE MANAGER	2U SERVER
1U BLANK PANEL	2U BLANK PANEL	3U BLANK PANEL	4U BLANK PANEL	1U GROUND BAR	1U PDU	3U SERVER
FLOOR-STANDING EQUIPMENT RACK	FLOOR-STANDING NETWORK CABINET	VERTICAL WIRE MANAGER	WALL-MOUNTED EQUIPMENT RACK OR NETWORK CABINET	2U UPS	4U UPS	4U SERVER
				3U UPS	RACK MOUNTED BATTERY	
				RACK-MOUNTED PUNCH-DOWN BLOCK	2U SHELF	

SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS AND ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

GENERAL NOTES:

A. REFER TO SHEET Exxx FOR SITE COMMUNICATIONS AND SECURITY INFORMATION.

COMMUNICATIONS CABLING NOTES:

A. INSTALL COMMUNICATIONS HORIZONTAL CABLES CONTINUOUS FROM WORK AREA OUTLET TO COMMUNICATIONS EQUIPMENT ROOM. INSTALL COMMUNICATIONS BACKBONE CABLES CONTINUOUS BETWEEN COMMUNICATIONS EQUIPMENT ROOMS. DO NOT SPLICE COMMUNICATIONS CABLES.

B. CABLING DAMAGED DURING ITS INSTALLATION WILL NOT BE ACCEPTED. DAMAGED CABLING, INCLUDING PAINTED CABLES, SHALL BE REPLACED WITH NEW CABLING AT THE EXPENSE OF THE CONTRACTOR. DAMAGE INCLUDES PHYSICAL DAMAGE TO CABLES OR IMPROPER INSTALLATION PRACTICES THAT MAY AFFECT PERFORMANCE.

C. COORDINATE FINAL LOCATION OF ALL TECHNOLOGY OUTLETS AND DEVICES WITH ARCHITECTURAL ELEVATIONS AND ELECTRICAL PLANS.

D. REFER TO TECHNOLOGY DETAIL AND RISER SHEETS FOR CABLING, FACEPLATE, GROUNDING, AND PATHWAY DIAGRAMS.

E. REFER TO ELECTRICAL SCOPE FOR ADDITIONAL POWER AND ELECTRICAL PATHWAY REQUIREMENTS.

F. COORDINATE WITH THE GENERAL CONTRACTOR AND PAINTING SUBCONTRACTOR SO THAT COMMUNICATIONS CABLES ARE NOT PAINTED OR OVERSPRAYED. PAINTED CABLES SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

CONSTRUCTION CABLING NOTES:

A. ALL DEBRIS RESULTING FROM PENETRATIONS SHALL BE CLEARED AND REMOVED FROM SITE ON A DAILY BASIS.

B. PROTECT ALL MATERIALS AND SURFACES TO REMAIN. SURFACES AND MATERIALS DAMAGED DURING CONSTRUCTION WILL BE REPAIRED AND FINISHED TO MATCH ORIGINAL CONDITIONS. PROTECT EQUIPMENT AND FURNISHINGS WHERE CONSTRUCTION WILL CAUSE DUST, DEBRIS, AND POSSIBLE DAMAGE.

C. EXERCISE CARE WHEN REMOVING OR REPLACING SUSPENDED CEILING TILES. DAMAGED TILES SHALL BE REPLACED WITH NEW TILES. DAMAGE INCLUDES FINGERPRINTS LEFT ON NEW/EXISTING TILES.

D. STAGING AREAS USED FOR CONSTRUCTION SHALL BE RETURNED TO ORIGINAL CONDITION TO OWNER'S SATISFACTION. COORDINATE WITH THE GENERAL CONTRACTOR TO OBTAIN WORK TRAILER, MATERIAL STORAGE, STAGING, AND PARKING SPACE. PROVIDE WORK TRAILER, SECURE STORAGE SPACE, PHONE LINES, AND ANY OTHER SERVICE DEEMED NECESSARY. THE OWNER WILL NOT PROVIDE ANCILLARY SERVICES AT THE CONSTRUCTION SITE.

E. FIRESTOP ALL FLOOR, CABLE TRAY, CONDUIT, SLEEVE, AND WALL PENETRATIONS.

F. BOND ALL CABLE TRAYS AND CABLE LADDER RUNWAYS WITH CONDUIT SLEEVES AND PATHWAYS USING MANUFACTURER'S RECOMMENDED HARDWARE.

DETAIL NOTE:

A. PROJECT DETAILS ARE PROVIDED ON DESIGNATED DETAIL SHEETS. DETAILS APPLY TO THE ENTIRE PROJECT IN ALL LOCATIONS WHERE DETAILED CONDITION EXISTS AND ARE ONLY REFERENCED TO PROVIDE CLARITY IF NECESSARY.

Project Status

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 ı Rogers, Arkansas 72758 ı (479) 464-4965 ı www.hjarch.com

BWHS ARTS ADDITION

1351 GAMBLE RD CENTERTON, AR

PROGRESS PRINT
NOT TO BE USED FOR CONSTRUCTION
04/06/2026
DATE PRINTED

DRAWN BY: SCL
CHECK BY: JLH
ISSUE DATE: 04/06/2026
PROJECT NO.: 2421
REVISION DATES

NOTE:
DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing or at site. Lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCE FOR ALL TRADES. READ SPECIFICATIONS.

Alvine
1201 Cass St.
Omaha, NE 68102
402.346.7007

TECHNOLOGY SYMBOLS AND ABBREVIATIONS

SHEET

T0.0

ABBREVIATIONS

ACEG	AC EQUIPMENT GROUND
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALF	ALUMINUM FRAME DOOR
APPROX	APPROXIMATELY
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AV	AUDIOVISUAL
AVI	AUTOMATIC VEHICLE IDENTIFICATION
AWG	AMERICAN WIRE GAUGE
BMCS	BUILDING MANAGEMENT CONTROL SYSTEMS
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
BLDG	BUILDING
BTC	BONDING CONDUCTOR FOR TELECOMMUNICATION
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CONDUIT
CAB	CABINET
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CL	CENTER LINE
CLEC	COMPETITIVE LOCAL EXCHANGE CARRIER
CLG	CEILING
CLR	CLEAR
CM	COMMUNICATIONS CABLE
CMP	COMMUNICATIONS PLENUM CABLE
CMR	COMMUNICATIONS RISER CABLE
COAX	COAXIAL CABLE
CO-OSP	CUSTOMER OWNED-OUTSIDE PLANT
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	CABLE TRAY
DAS	DISTRIBUTED ANTENNA SYSTEM
DIA	DIAMETER
DN	DOWN
DP	DEMARCATION POINT
DPS	DOOR POSITION SWITCH
DVR	DIGITAL VIDEO RECORDER
DWG	DRAWING
DX	DIRECT EXPANSION
EAC	ELECTRONIC ACCESS CONTROL
EC	ELECTRICAL CONTRACTOR
EGB	ELECTRICAL GROUND BAR
EL	ELEVATION
ELEC	ELECTRICAL
EMI	ELECTROMAGNETIC INTERFERENCE
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
ER	EQUIPMENT ROOM
EXH	EXHAUST
EXIST	EXISTING
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FMC	FLEXIBLE METAL CONDUIT
FB	FLOOR BOX
FL	FLOOR
FO	FIBER OPTIC
FOV	FIELD OF VIEW
FP	FIBER PANEL
FT	FEET
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HGT	HEIGHT
HH	HANDHOLE
HMF	HOLLOW METAL FRAME DOOR
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
IC	INTERCOM
IDC	INSULATION DISPLACEMENT CONNECTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEM
IP	INTERNET PROTOCOL
ISP	INSIDE PLANT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LAN	LOCAL AREA NETWORK
LBM	LATCH BOLT MONITOR
LBS	POUNDS
LEC	LOCAL EXCHANGE CARRIER
MATV	MASTER ANTENNA TELEVISION
MAX	MAXIMUM
MBH	1000 BTU/HOUR
MC	MAIN CROSS CONNECT
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MFG	MANUFACTURER
MGB	MAIN GROUND BAR
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MULTIMODE
MPOE	MAIN POINT OF ENTRANCE
MTD	MOUNTED
MTG	MOUNTING
MUTOA	MULTI USER TELECOMMUNICATIONS OUTLET ASSEMBLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NVE	NETWORK VIDEO ENCODER
NVR	NETWORK VIDEO RECORDER
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPE	OWNER PROVIDED ELECTRONICS
OSP	OUTSIDE PLANT
PABX	PRIVATE AUTOMATIC BRANCH EXCHANGE
PBB	PRIMARY BONDING BUSBAR
PB	PULLBOX
PBO	PROVIDED BY OTHERS
PBX	PRIVATE BRANCH EXCHANGE
PDU	POWER DISTRIBUTION UNIT
PNL	PANEL
POE	POWER OVER ETHERNET
POP	POINT OF PRESENCE
PP	PATCH PANEL
PSTN	PUBLIC SWITCHED TELEPHONE NETWORK
PTZ	PAN-TILT-ZOOM
PVC	POLYVINYL CHLORIDE
PWR	POWER
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RQE	REQUEST TO EXIT
SBB	SECONDARY BONDING BUSBAR
SCHD	SCHEDULE
SCTP	SCREENED TWISTED PAIR
SIM	SIMILAR
SLAB	SEALED LEAD ACID BATTERY
SM	SINGLE MODE
SPD	SURGE PROTECTIVE DEVICE
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
SSI	SECURITY SYSTEMS INTEGRATOR
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SW	SWITCH
T-1	TRUNK LEVEL 1
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBBIBC	TELECOMMUNICATIONS BONDING BACKBONE INTERCONNECTING BONDING CONDUCTOR
TC	TELECOMMUNICATIONS CLOSET
TEL	TELEPHONE
TELECOM	TELECOMMUNICATIONS
TEMP	TEMPERATURE
TR	TELECOMMUNICATIONS ROOM
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VA	VOLT -AMPS
VERT	VERTICAL
VOIP	VOICE OVER INTERNET PROTOCOL
W	WATT
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WMP	WIRE MANAGEMENT PANEL
WP	WEATHERPROOF
WTH	WIRE TRANSFER HINGE

Project Status

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 ı Rogers, Arkansas 72758 ı (479) 464-4965 ı www.hjarch.com

PROGRESS PRINT

NOT TO BE USED FOR CONSTRUCTION

04/06/2026

DATE PRINTED

NOTE:

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing or at site. Lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCE FOR ALL TRADES. READ SPECIFICATIONS.

Alvine
1201 Cass St.
Omaha, NE 68102
402.346.7007

BWHS ARTS ADDITION

1351 GAMBLE RD CENTERTON, AR

DRAWN BY.
SCL

CHECK BY.
JLH

ISSUE DATE
04/06/2026

PROJECT NO.
2421

REVISION DATES

TECHNOLOGY SYMBOLS AND ABBREVIATIONS

S H E E T

T0.1

AUDIOVISUAL INFRASTRUCTURE SCHEDULE

MARK	DEVICE FUNCTION	JUNCTION BOX DESCRIPTION	JUNCTION BOX MAKE	JUNCTION BOX MODEL	MOUNTING STYLE	CONDUIT SIZE	REFERENCE DETAIL	NOTES	JUNCTION BOX DIMENSIONS		
									LENGTH	WIDTH	DEPTH
AV5	AUDIO LEVEL CONTROLLER	RECESSED JUNCTION BOX W/ RAISED 1-GANG TRIM RING	RACO	674 OR EQUIVALENT	46" AFF - FLUSH (UNO)	(1) 1"	-	-	4"	2"	2 1/8"
AV6	BLUETOOTH INTERFACE	RECESSED JUNCTION BOX W/ RAISED 1-GANG TRIM RING	RACO	674 OR EQUIVALENT	46" AFF - FLUSH (UNO)	(1) 1"	-	-	4"	2"	2 1/8"

Project Status

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

PROGRESS PRINT
NOT TO BE USED FOR CONSTRUCTION
04/06/2026
DATE PRINTED

NOTE:

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing or at site. Lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCE FOR ALL TRADES. READ SPECIFICATIONS.

Alvine
1201 Cass St.
Omaha, NE 68102
402.346.7007

BWHS ARTS ADDITION

1351 GAMBLE RD CENTERTON, AR

DRAWN BY.
SCL

CHECK BY.
JLH

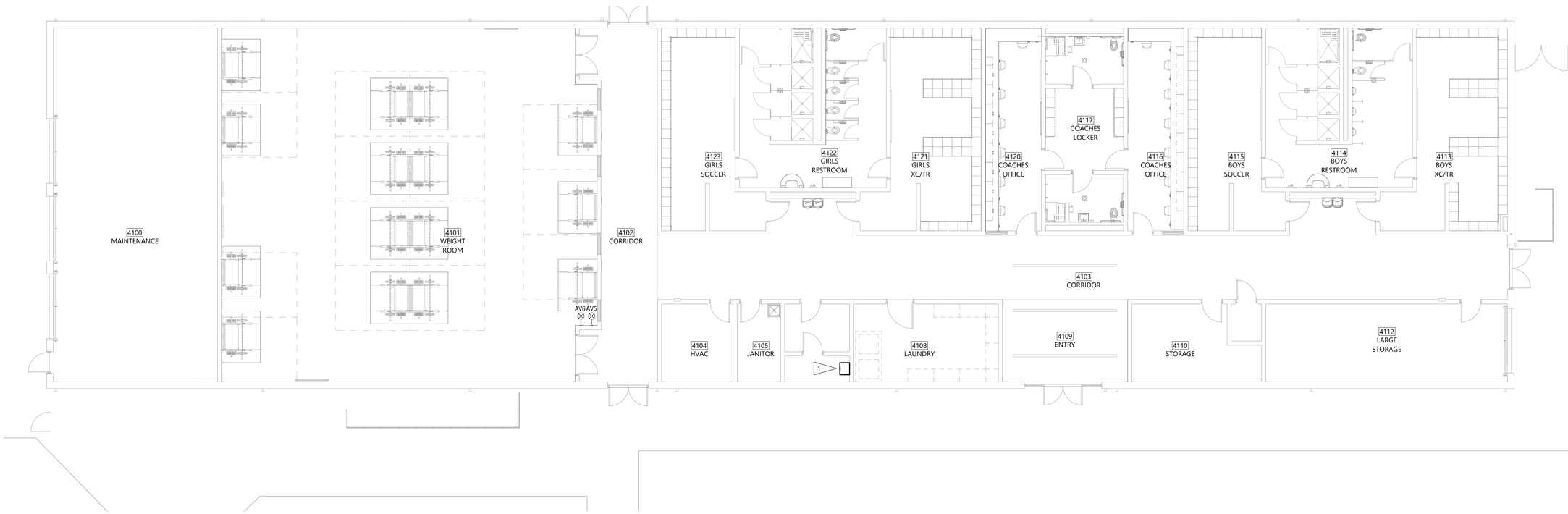
ISSUE DATE
04/06/2026

PROJECT NO.
2421

REVISION DATES

TECHNOLOGY SCHEDULES

SHEET
T0.2



FLAG NOTES:

1. LOCATION OF OWNER FURNISHED AUDIOVISUAL EQUIPMENT RACK.

1 FIRST FLOOR PLAN - LOCKER ROOM - TECHNOLOGY

1/8" = 1'-0"

PROGRESS PRINT

NOT TO BE USED FOR CONSTRUCTION

04/06/2026

DATE PRINTED

NOTE:

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing or at site. Lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCE FOR ALL TRADES. READ SPECIFICATIONS.

Alvine
1201 Cass St.
Omaha, NE 68102
402.346.7007

Project Status

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

BWHS ARTS ADDITION

1351 GAMBLE RD CENTERTON, AR

DRAWN BY: SCL

CHECK BY: JLH

ISSUE DATE: 04/06/2026

PROJECT NO: 2421

REVISION DATES

FIRST FLOOR PLAN - LOCKER ROOM - TECHNOLOGY

SHEET

T1.1

1 FIRST FLOOR REFLECTED CEILING PLAN - LOCKER ROOM - TECHNOLOGY

1/8" = 1'-0"

PROGRESS PRINT

NOT TO BE USED FOR CONSTRUCTION

04/06/2026

DATE PRINTED

NOTE:

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing or at site. Lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCE FOR ALL TRADES. READ SPECIFICATIONS.

Alvine
1201 Cass St.
Omaha, NE 68102
402.346.7007

Project Status

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 ı Rogers, Arkansas 72758 ı (479) 464-4965 ı www.hjarch.com

BWHS ARTS ADDITION

1351 GAMBLE RD CENTERTON, AR

DRAWN BY.
SCL

CHECK BY.
JLH

ISSUE DATE
04/06/2026

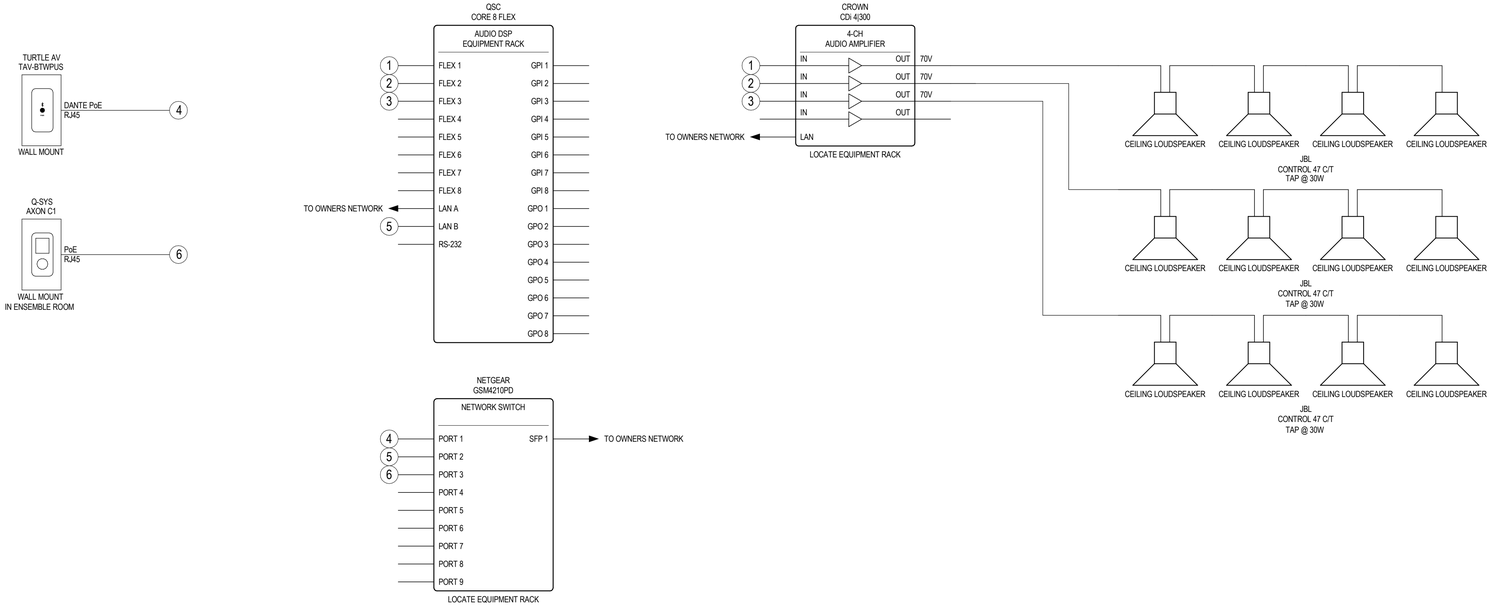
PROJECT NO.
2421

REVISION DATES

FIRST FLOOR REFLECTED CEILING PLAN - LOCKER ROOM - TECHNOLOGY

S H E E T

T2.1



1 WEIGHT ROOM
NO SCALE

Project Status

Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300 ı Rogers, Arkansas 72758 ı (479) 464-4965 ı www.hjarch.com

BWHS ARTS ADDITION

1351 GAMBLE RD CENTERTON, AR

PROGRESS PRINT
NOT TO BE USED FOR CONSTRUCTION
04/06/2026
DATE PRINTED

DRAWN BY: SCL
CHECK BY: JLH
ISSUE DATE: 04/06/2026
PROJECT NO: 2421
REVISION DATES

NOTE:
DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing or at site. Lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCE FOR ALL TRADES. READ SPECIFICATIONS.

Alvine
1201 Cass St.
Omaha, NE 68102
402.346.7007

AUDIOVISUAL SCHEMATICS, RACK ELEVATIONS, PLATES AND PANELS

T7.0