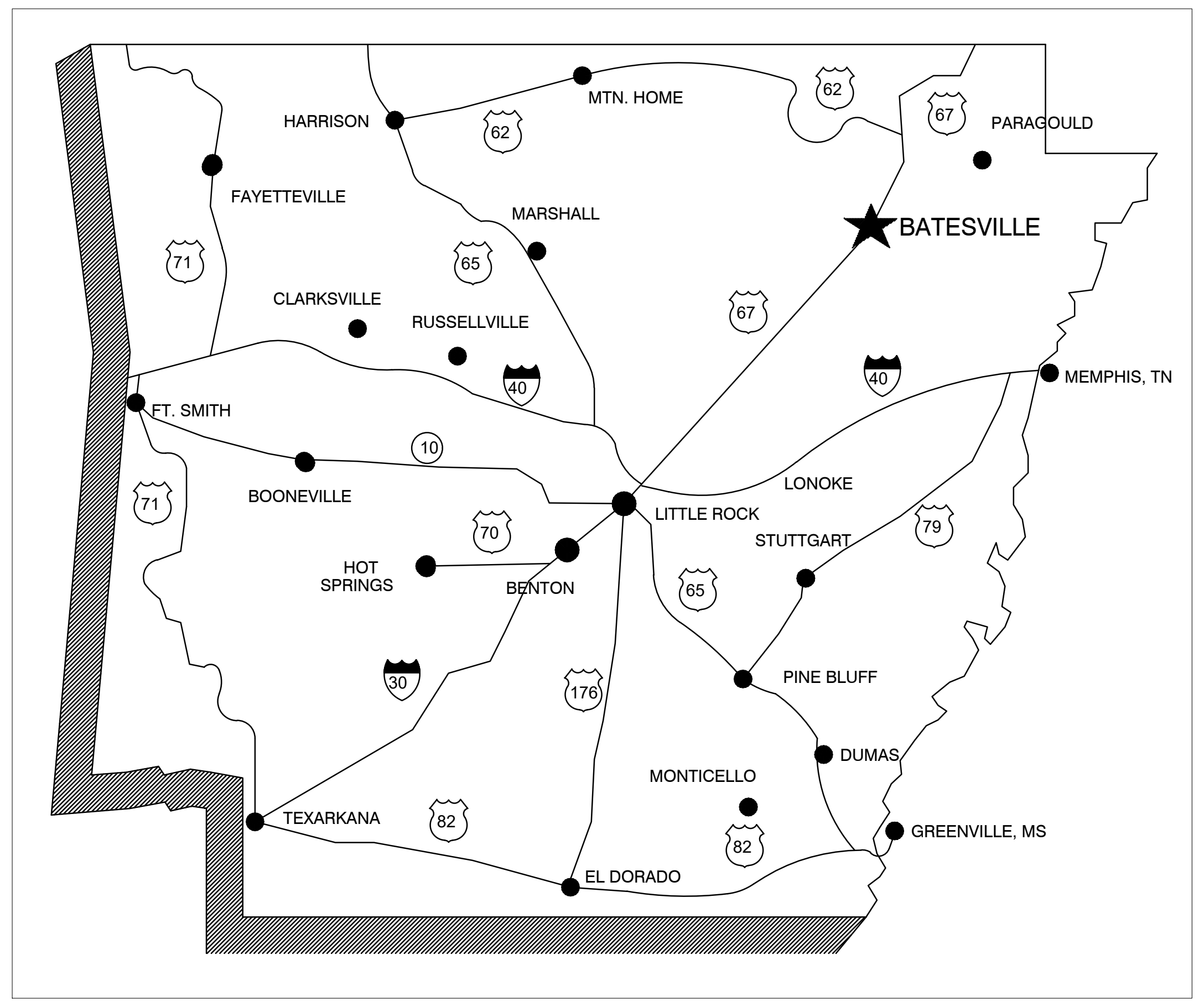
CITY OF BATESVILLE

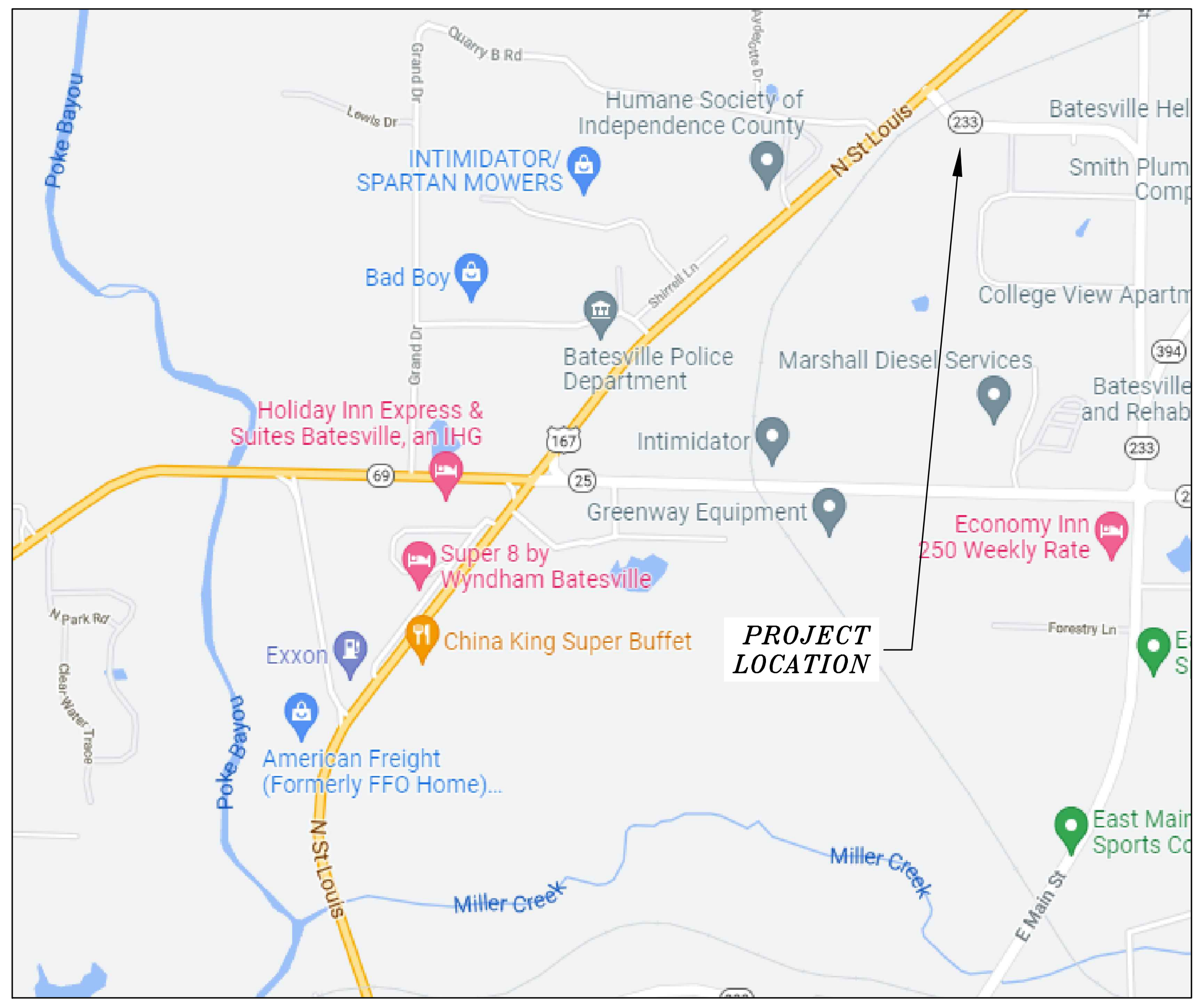
PUBLIC WORKS FACILITY

PHASE-II

BATESVILLE, ARKANSAS



STATE MAP



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JULY 2022

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS

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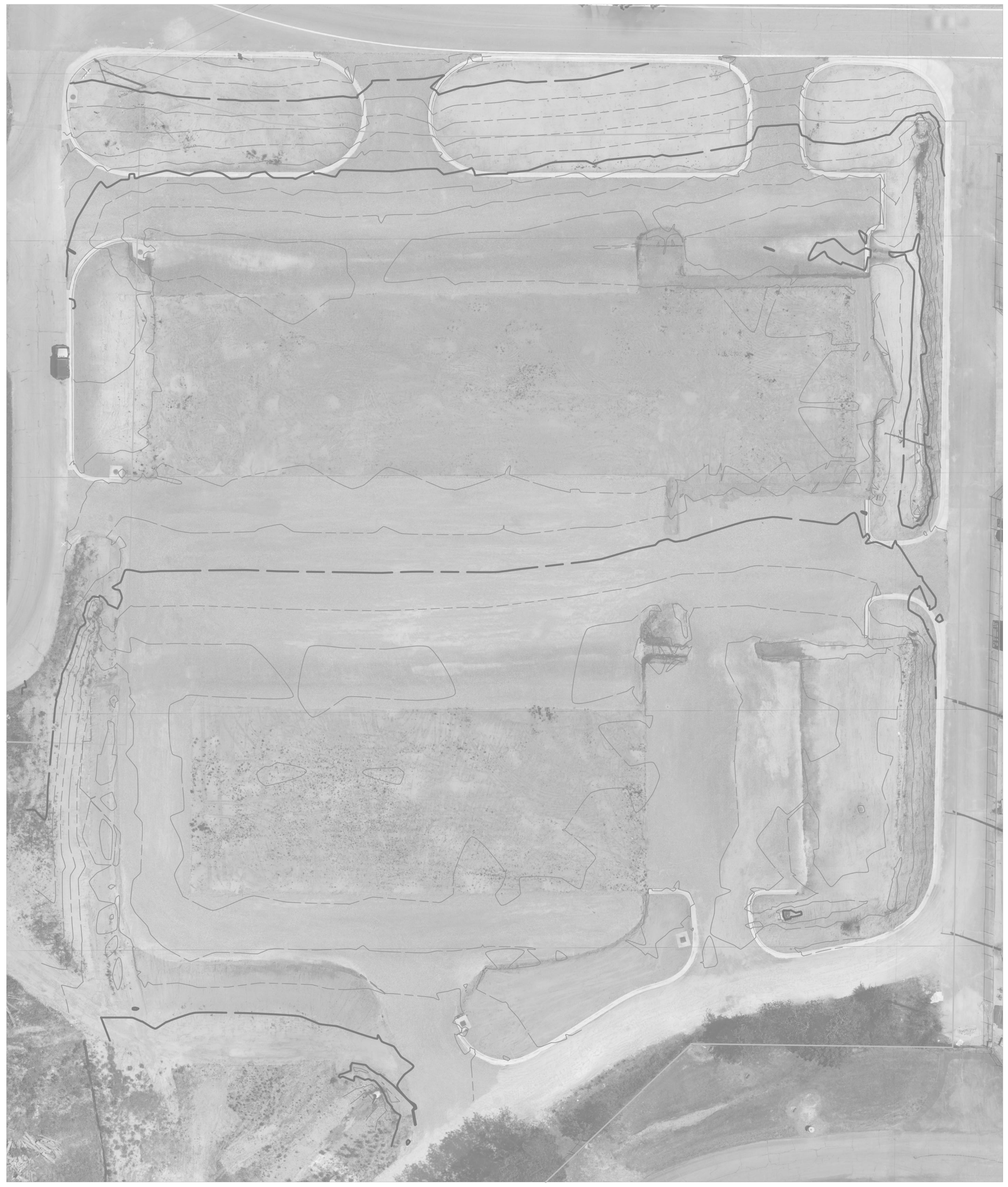
E-mail: ETC @ etcengineersinc.com - Web Site: www.etcengineersinc.com

INDEPENDENCE COUNTY, ARKANSAS



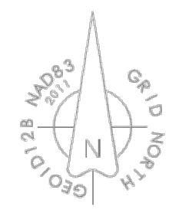
LICENSED PROFESSIONAL SURVEYOR
STATE OF ARKANSAS
No. 1735
Keaton Johnson
SIGNATURE
7-29-22
KEATON B. JOHNSON

CERTIFICATE OF AUTHORIZATION
JOHNSON'S CUTTING EDGE SURVEYING, LLC
No. 3714
ARKANSAS

LEGEND

These standard symbols will be found in the drawing.

━	BOUNDARY LINE
- - -	1' CONTOUR LINE
▬ ▬	5' INDEX CONTOUR LINE



SURVEYOR'S CERTIFICATE

I, KEATON B. JOHNSON, ARKANSAS LICENSED PROFESSIONAL SURVEYOR, NO. 1735, DO HEREBY CERTIFY THAT THIS PLAT REPRESENTS THE RESULTS OF A SURVEY MADE ON THE GROUND UNDER MY SUPERVISION.

GENERAL NOTES

THE ABOVE DESCRIBED TRACT IS SUBJECT TO ANY AND ALL RIGHTS-OF-WAY AND EASEMENTS THAT ARE OF RECORD AND WHICH ARE PHYSICALLY IN PLACE. ANY IMPROVEMENTS OR EASEMENTS SHOWN ARE THE RESULT OF A SURVEY AND THAT COULD BE REASONABLY OBSERVED ON THE GROUND. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES. ANY COORDINATES SHOWN WERE DERIVED FROM GPS OBSERVATION VIA THE AR. D.O.T. C.O.R.S. NETWORK.

FOR THE USE AND BENEFIT OF: THE CITY OF BATESVILLE	
DATE: 7-22-2022	DRAWN BY: K. JOHNSON
JOB NUMBER: 500-1735-00678	PAGE: 1 OF 1

Johnson's
Cutting Edge Surveying, LLC
220 E. Main Street, Batesville, AR 72501
KJLandSurvey@gmail.com
Cell: 870-613-4131

0' 30' 60'
BAR MEASURES 2 INCHES AT ORIGINAL SCALE

SURVEY CODE:
500-13N-06W-0-03-300-32-1735

C:\Users\Keaton Johnson\My Drive\Cutting_Edge_Surveying\Jobs\500-1735-00678_ASBUILT\DRAWING.dwg

NOTES / SPECIAL INSTRUCTIONS

ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE DRAWINGS AND WE ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THEIR DEPICTED LOCATION ON THESE DRAWINGS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN, AND ALL OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS BY VERIFICATION OF THEIR LOCATION IN THE FIELD PRIOR TO THE INITIATION OF THE ACTUAL PORTION OF THEIR WORK.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, OR NEAR THE CONSTRUCTION SITE.

NOTES:

1. CONTRACTORS ARE ENCOURAGED TO VISIT THE SITE PRIOR TO BIDDING.
2. CONTRACTORS ARE ENCOURAGED TO FIELD VERIFY THE EXISTING SITE CONDITION PRIOR TO BIDDING.
3. CONTRACTORS ARE ENCOURAGED TO CONTACT THE CITY/ COUNTY TO DETERMINE IF ONSITE BURNING OF REMOVED TREES/SHRUBS SHALL BE PERMISSIBLE.
4. CONTRACTORS SHALL BE RESPONSIBLE TO ACQUIRE BURNING PERMIT FROM THE CITY/ COUNTY, IF REQUIRED.
5. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL OFFSITE HAUL OF, IF REQUIRED.
6. CONTRACTORS SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING UNDERGROUND UTILITIES, IF ENCOUNTERED DURING CUTTING/FILLING AND GRADING OPERATION.
7. SAVE AND PROTECT ALL TREES WITHIN THE UNDISTURBED AREAS, WHERE CUT/FILL AND GRADING IS NOT REQUIRED.
8. DO NOT DISTURB THE AREA OUTSIDE THE CONSTRUCTION LIMIT.
9. CONTRACTORS SHALL EMPLOY PROFESSIONAL SURVEYOR TO LAYOUT THE CONSTRUCTION LIMIT, PROPOSED GRADING, SET TEMPORARY BENCH MARKS, PREPARE AS-BUILT TOPO.

CALL BEFORE YOU DIG! ARKANSAS ONE CALL
1-800-482-8998

GENERAL NOTE:
UTILITIES SHOWN WITHIN THE EXTENT OF CONSTRUCTION HAVE EITHER BEEN OBTAINED FROM AS-BUILT DRAWINGS OR ABOVE GROUND FEATURES SUCH AS FIRE HYDRANTS, VALVES, OR METERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE EXACT LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION BY CALLING ONE-CALL AT 1-800-482-8998. THE UTILITY LOCATION MARKING SHALL BE MAINTAINED UNTIL NO FURTHER EXCAVATION IS REQUIRED.

STAMPS
ETC Engineers & Architects, Inc.
No. C-462

STAMPS
REGISTERED PROFESSIONAL ENGINEER
No. 12940
SHAWKAT M. ALI
Shawkat Ali
01/06/2022

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Environmental Technical Consultants, Inc.
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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE-II

AS-BUILT TOPO / EXISTING CONDITIONS

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: HB **Checked By:** SA

DATE: OCTOBER 21, 2021

C1

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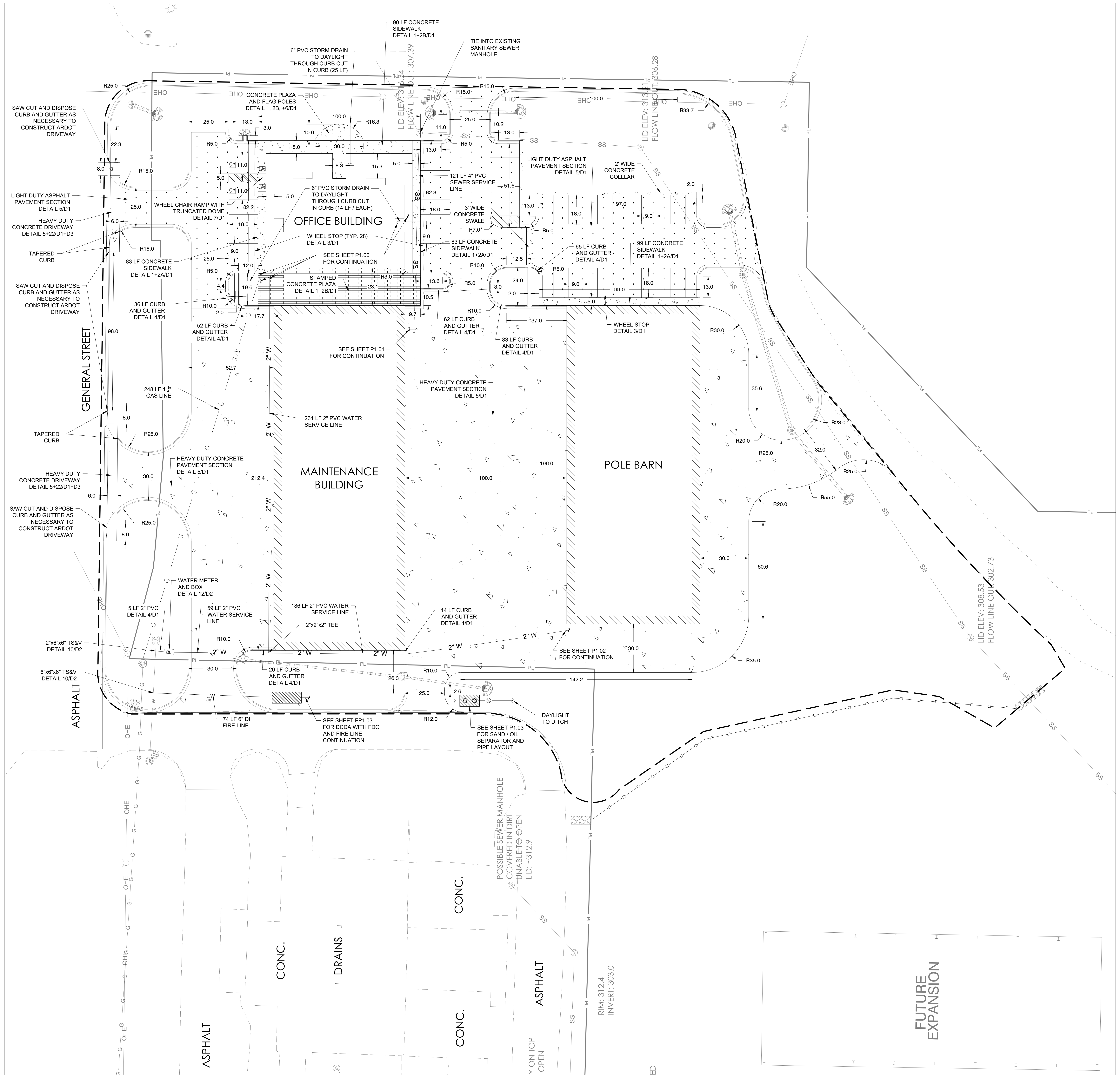

GENERAL STREET
ASPHALT
OFFICE BUILDING
MAINTENANCE BUILDING
POLE BARN
FUTURE EXPANSION
90 LF CONCRETE SIDEWALK DETAIL 1+2B/D1
6" PVC STORM DRAIN TO DAYLIGHT THROUGH CURB CUT IN CURB (25 LF)
TIE INTO EXISTING SANITARY SEWER MANHOLE
LID ELEV: 316.34 FLOW LINE OUT: 307.39
LID ELEV: 313.21 FLOW LINE OUT: 306.28
LID ELEV: 308.53 FLOW LINE OUT: 302.73
CONCRETE PLAZA AND FLAG POLES DETAIL 1, 2B, +6/D1
SAW CUT AND DISPOSE CURB AND GUTTER AS NECESSARY TO CONSTRUCT ARDOT DRIVEWAY
LIGHT DUTY ASPHALT PAVEMENT SECTION DETAIL 5/D1
HEAVY DUTY CONCRETE DRIVEWAY DETAIL 5+22/D1+D3
TAPERED CURB
WHEEL CHAIR RAMP WITH TRUNCATED DOME DETAIL 7/D1
6" PVC STORM DRAIN TO DAYLIGHT THROUGH CURB CUT IN CURB (14 LF / EACH)
WHEEL STOP (TYP. 28) DETAIL 3/D1
SEE SHEET P1.00 FOR CONTINUATION
83 LF CONCRETE SIDEWALK DETAIL 1+2A/D1
STAMPED CONCRETE PLAZA DETAIL 1+2B/D1
36 LF CURB AND GUTTER DETAIL 4/D1
52 LF CURB AND GUTTER DETAIL 4/D1
SEE SHEET P1.01 FOR CONTINUATION
248 LF 1 1/4" GAS LINE
231 LF 2" PVC WATER SERVICE LINE
121 LF 4" PVC SEWER SERVICE LINE
3' WIDE CONCRETE SWALE
LIGHT DUTY ASPHALT PAVEMENT SECTION DETAIL 5/D1
2' WIDE CONCRETE COLLLAR
83 LF CONCRETE SIDEWALK DETAIL 1+2A/D1
65 LF CURB AND GUTTER DETAIL 4/D1
99 LF CONCRETE SIDEWALK DETAIL 1+2A/D1
62 LF CURB AND GUTTER DETAIL 4/D1
83 LF CURB AND GUTTER DETAIL 4/D1
WHEEL STOP DETAIL 3/D1
HEAVY DUTY CONCRETE PAVEMENT SECTION DETAIL 5/D1
WATER METER AND BOX DETAIL 12/D2
5 LF 2" PVC DETAIL 4/D1
59 LF 2" PVC WATER SERVICE LINE
186 LF 2" PVC WATER SERVICE LINE
2"x2"x2" TEE
14 LF CURB AND GUTTER DETAIL 4/D1
2"x6"x6" TS&V DETAIL 10/D2
6"x6"x6" TS&V DETAIL 10/D2
20 LF CURB AND GUTTER DETAIL 4/D1
74 LF 6" DI FIRE LINE
SEE SHEET FP1.03 FOR DCDA WITH FDC AND FIRE LINE CONTINUATION
SEE SHEET P1.03 FOR SAND / OIL SEPARATOR AND PIPE LAYOUT
DAYLIGHT TO DITCH
SEE SHEET P1.02 FOR CONTINUATION
2" W
PL
SS
OHE
G
R25.0
R15.0
R16.3
R33.7
R30.0
R23.0
R20.0
R55.0
R35.0
R10.0
R12.0
R5.0
R7.0
R3.0
100.0
97.0
99.0
142.2
212.4
196.0
98.0
82.3
82.2
52.7
51.6
60.6
35.6
37.0
32.0
30.0
26.3
25.0
24.0
23.1
22.3
19.6
18.0
17.7
15.3
13.6
13.0
12.5
12.0
11.0
10.5
10.2
10.0
9.7
9.0
8.3
8.0
6.0
5.0
4.4
3.0
2.6
2.0
POSSIBLE SEWER MANHOLE COVERED IN DIRT UNABLE TO OPEN LID: ~312.9
RIM: 312.4 INVERT: 303.0
CONC.
DRAINS
ASPHALT

PHASE-2 SCOPE OF WORK:

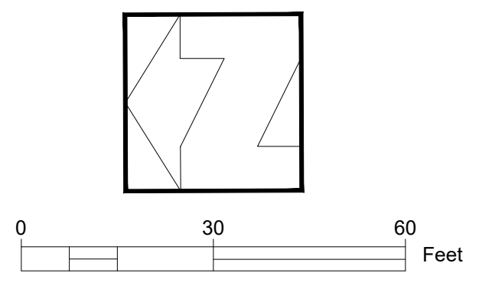
1. MINOR FINISHED GRADING (SEE SHEET C3)
2. WATER, SEWER, AND GAS UTILITIES
3. DOWNSPOUT STORM DRAINS
4. **SEE DETAIL 5/D1 FOR GRAVEL THICKNESS INCLUDED IN THIS CONTRACT**
5. CONCRETE AND ASPHALT PAVEMENT
6. ARDOT DRIVEWAY APRONS
7. STAMPED CONCRETE PLAZA
8. CONCRETE SIDEWALKS
9. CURB AND GUTTER
10. FLAG POLES
11. STRIPING
12. WHEEL STOPS
13. HYDRO-SEED / SOD (SEE SHEET L1)

UTILITY NOTES:

1. **ALL MATERIALS AND CONSTRUCTION METHODS FOR WATER AND SANITARY SEWER WORK SHALL COMPLY WITH BATESVILLE UTILITY STANDARD SPECIFICATIONS, LATEST EDITION.**
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH BATESVILLE UTILITY COMPANY TO PROVIDE NECESSARY WATER, SEWER, AND ELECTRICAL SERVICES TO THE FACILITY TO MAKE IT FULLY FUNCTIONAL.
3. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH CENTERPOINT ENERGY TO PROVIDE NECESSARY GAS SERVICES TO THE FACILITY TO MAKE IT FULLY FUNCTIONAL.
4. CONTRACTOR SHALL BEAR THE COST OF NECESSARY UTILITY CONNECTION FEES.
2. WATER PIPE MATERIAL SHALL BE AWW C900 DR9 PVC IN THE SIZE INDICATED ON THE PLAN.
4. THRUST BLOCKING TO BE USED AT ALL "TEES", BENDS, FIRE HYDRANTS, VALVES, CONNECTIONS.
5. SANITARY SEWER PIPING SHALL BE SDR26 PVC IN THE SIZE INDICATED ON THE PLAN.
6. A MINIMUM 10' HORIZONTAL AND 18" VERTICAL SEPARATION SHALL BE MAINTAINED. WATER OVER SEWER OR WATER ENCASE

LEGEND

— SS —	EXISTING SANITARY SEWER UTILITY
— W —	EXISTING WATER UTILITY
— OHE —	EXISTING OVERHEAD ELECTRIC UTILITY
— G —	EXISTING GAS UTILITY
— PL —	PROPERTY LINE
— — —	CONSTRUCTION LIMIT
— SS —	PROPOSED SANITARY SEWER UTILITY
— W —	PROPOSED WATER UTILITY
—□—□—	SILT FENCE
◉	AREA INLET (AI)
◉	CURB INLET (CI)
◎	GRATE INLET (GI)
●	EXISTING DRAINAGE CULVERT
▨	CONCRETE
▷	HEAVY DUTY CONCRETE
⋯	LIGHT DUTY ASPHALT
▦	STAMPED CONCRETE
═	CURB AND GUTTER
N.I.C.	NOT IN CONTRACT



SCALE: 1"=30'

STAMPS

ETC Engineers & Architects, Inc.
No. C-462

STAMPS

SHAWKAT M. ALI
01/06/2022

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Environmental Technical Consultants, Inc.
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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE-II

SITE AND UTILITY PLAN

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: HB
Checked By: SA

DATE: OCTOBER 21, 2021

C2

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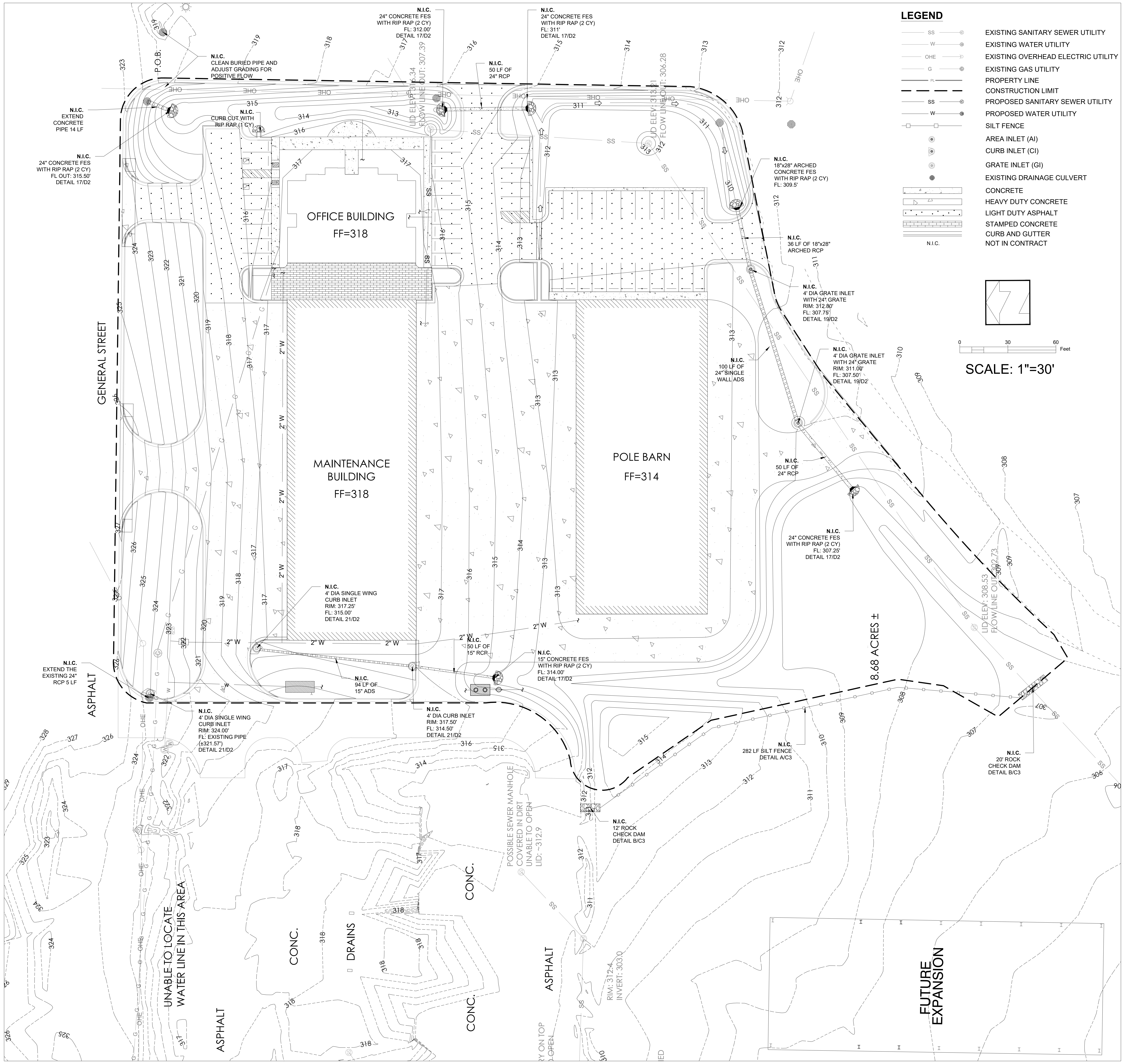

N.I.C.
CLEAN BURIED PIPE AND ADJUST GRADING FOR POSITIVE FLOW
P.O.B.
N.I.C.
EXTEND CONCRETE PIPE 14 LF
N.I.C.
24" CONCRETE FES WITH RIP RAP (2 CY) FL OUT: 315.50' DETAIL 17/D2
N.I.C.
CURB CUT WITH RIP RAP (1 CY)
N.I.C.
24" CONCRETE FES WITH RIP RAP (2 CY) FL: 312.00' DETAIL 17/D2
LID ELEV: 316.34 FLOW LINE OUT: 307.39
N.I.C.
50 LF OF 24" RCP
N.I.C.
24" CONCRETE FES WITH RIP RAP (2 CY) FL: 311' DETAIL 17/D2
LID ELEV: 313.21 FLOW LINE OUT: 306.28
N.I.C.
18"x28" ARCHED CONCRETE FES WITH RIP RAP (2 CY) FL: 309.5'
N.I.C.
36 LF OF 18"x28" ARCHED RCP
N.I.C.
4' DIA GRATE INLET WITH 24" GRATE RIM: 312.80' FL: 307.75' DETAIL 19/D2
N.I.C.
100 LF OF 24" SINGLE WALL ADS
N.I.C.
4' DIA GRATE INLET WITH 24" GRATE RIM: 311.00' FL: 307.50' DETAIL 19/D2
N.I.C.
50 LF OF 24" RCP
N.I.C.
24" CONCRETE FES WITH RIP RAP (2 CY) FL: 307.25' DETAIL 17/D2
LID ELEV: 308.53 FLOW LINE OUT: 302.73
8.68 ACRES ±
N.I.C.
282 LF SILT FENCE DETAIL A/C3
N.I.C.
20' ROCK CHECK DAM DETAIL B/C3
OFFICE BUILDING
FF=318
MAINTENANCE BUILDING
FF=318
POLE BARN
FF=314
GENERAL STREET
ASPHALT
2" W
N.I.C.
4' DIA SINGLE WING CURB INLET RIM: 317.25' FL: 315.00' DETAIL 21/D2
N.I.C.
EXTEND THE EXISTING 24" RCP 5 LF
N.I.C.
4' DIA SINGLE WING CURB INLET RIM: 324.00' FL: EXISTING PIPE (±321.57') DETAIL 21/D2
N.I.C.
94 LF OF 15" ADS
N.I.C.
50 LF OF 15" RCP
N.I.C.
15" CONCRETE FES WITH RIP RAP (2 CY) FL: 314.00' DETAIL 17/D2
N.I.C.
4' DIA CURB INLET RIM: 317.50' FL: 314.50' DETAIL 21/D2
N.I.C.
12' ROCK CHECK DAM DETAIL B/C3
POSSIBLE SEWER MANHOLE COVERED IN DIRT UNABLE TO OPEN LID: ~312.9
UNABLE TO LOCATE WATER LINE IN THIS AREA
CONC.
DRAINS
ASPHALT
FUTURE EXPANSION
RIM: 312.4 INVERT: 303.0
0
30
60
Feet

SCALE: 1"=30'

LEGEND

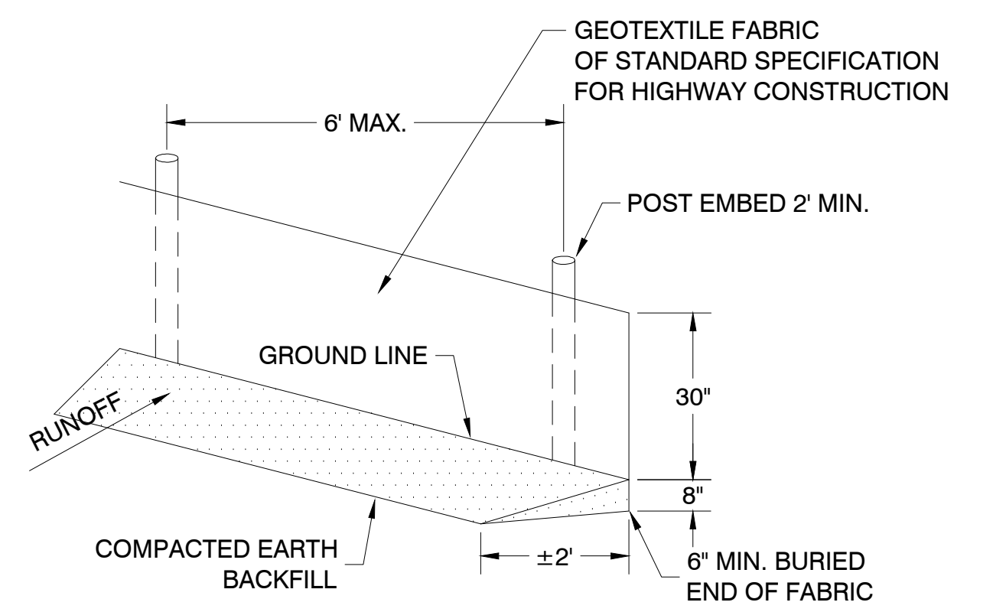
- EXISTING SANITARY SEWER UTILITY
- EXISTING WATER UTILITY
- EXISTING OVERHEAD ELECTRIC UTILITY
- EXISTING GAS UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMIT
- PROPOSED SANITARY SEWER UTILITY
- PROPOSED WATER UTILITY
- SILT FENCE
- AREA INLET (AI)
- CURB INLET (CI)
- GRATE INLET (GI)
- EXISTING DRAINAGE CULVERT
- CONCRETE
- HEAVY DUTY CONCRETE
- LIGHT DUTY ASPHALT
- STAMPED CONCRETE
- CURB AND GUTTER
- N.I.C. NOT IN CONTRACT

GRADING, CUT/FILL NOTES:

1. THE SITE AND THE BUILDING PAD HAS BEEN GRADED IN PHASE-I.
2. CONTRACTOR IS RESPONSIBLE FOR MINOR FINISHED GRADING, IF REQUIRED, TO ACHIEVE THE DESIGNED FINISH FLOOR (SEE AS-BUILT TOPO ON SHEET C1).
3. THE SITE AND BUILDING PAD HAS BEEN TESTED AND CERTIFIED BY MATERIAL TESTING OF ARKANSAS (MTA) FOR COMPLIANCE OF REQUIRED COMPACTION.
4. ANY DISTURBANCE TO THE EXISTING FINISHED GRADE AREA NEEDS TO BE RECOMPACTED AND TESTED FOR COMPACTION.

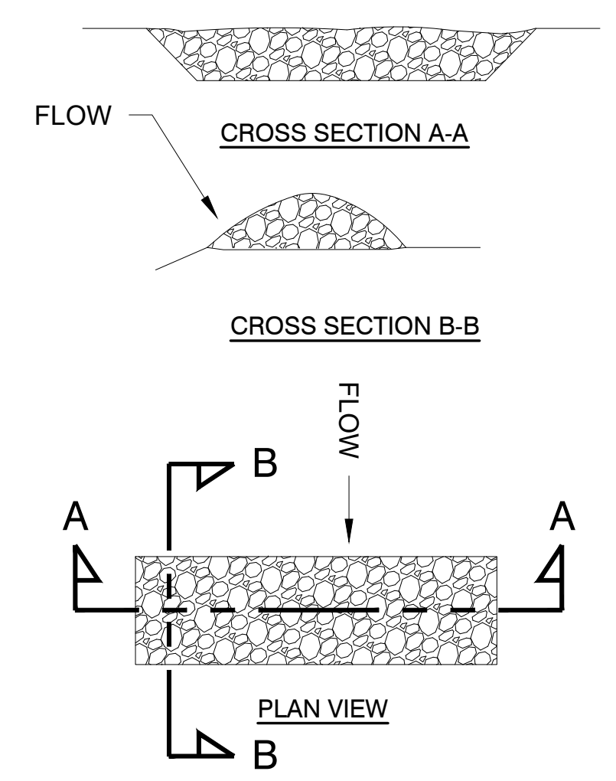
EROSION & SEDIMENT CONTROL NOTES:

1. EROSION CONTROL DEVICES WERE INSTALLED IN PHASE-1.
2. TEMPORARY SILT FENCE (A/C3), ROCK CHECK DAM (B/C3) SHALL BE INSTALLED AS SHOWN ON PLAN AND MAINTAINED UNTIL THE AREA IS STABILIZED.
3. THE SILT FENCES AND CHECK DAM SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND MAKE SURE EACH STAKE IS FIRMLY IN THE GROUND.
4. USE MULCHES ON CUT AND EMBANKMENT SLOPES WHICH HAVE NOT BEEN COMPLETED TO PLAN GRADE OR WHEN THE WEATHER OR SOIL CONDITIONS WILL NOT PERMIT COMPLETING THEM WITHIN REASONABLE TIME.
5. USE MULCHES ON CLEARED AREAS WHERE SOIL EROSION IS LIKELY TO OCCUR.
6. USE MULCH WITH TEMPORARY SEEDING
7. AFTER FINAL GRADING, SOD OR HYDRO-SEED WITH MULCH IN ALL DISTURBED AREAS EXCLUDING PAVED AND GRAVEL AREAS (SEE LANDSCAPE PLAN ON SHEET L1).
8. INSTALL A STONE STABILIZED PAD AT POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO EXISTING ROADS.
9. IF THE ACTION OF THE VEHICULAR TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS THE EXISTING ROAD.
10. MAINTAIN A DESIGNATED CONCRETE WASHOUT AREA (C/C3) FOR ALL CONCRETE WASH.
11. THE GRAVEL PAD MUST BE INSTALLED WITH A MINIMUM STONE LAYER OF 6 INCHES.


GEOTEXTILE FABRIC OF STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION
6' MAX.
POST EMBED 2' MIN.
GROUND LINE
30"
8"
RUNOFF
COMPACTED EARTH BACKFILL
±2'
6" MIN. BURIED END OF FABRIC

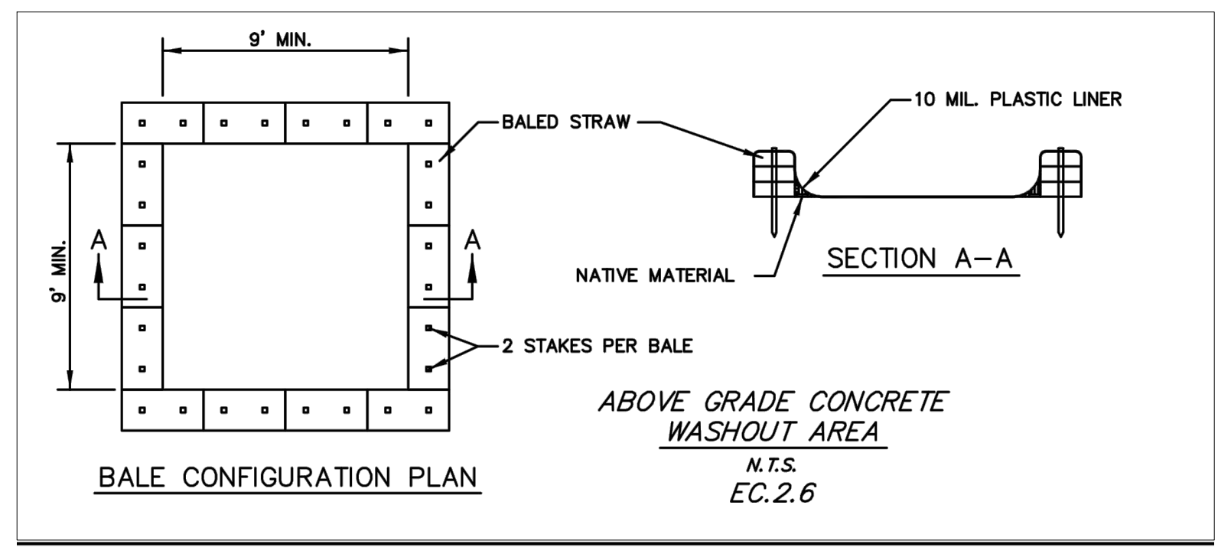
A SILT FENCE

N.T.S.



B CHECK DAM DETAIL

N.T.S.



CONCRETE WASHOUT NOTES:

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. STAKES SHALL BE A MINIMUM OF 48" IN LENGTH. STAKES SHALL BE EITHER 2" x 2" OAK TIMBER, 2.5" DIA. SCH. 40 STEEL POSTS, OR STANDARD STEEL "T" OR "U" POSTS.
3. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS.
4. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF FOUR (4) INCHES.
5. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT AREA 75% FULL.
6. AT THE END OF CONSTRUCTION, THE CONCRETE WASHOUT AREA AND ALL WASTE CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN ACCEPTED WASTE SITE. WHEN THE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE TOPSOILED AND SODDED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.

C CONCRETE WASH OUT

N.T.S.

STAMPS

ETC Engineers & Architects, Inc.
No. C-462

STAMPS

SHAWKAT M. ALI
No. 12940
Shawkat Ali
01/06/2022

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE-II

GRADING, DRAINAGE, AND EROSION CONTROL

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: HB
Checked By: SA

DATE: OCTOBER 21, 2021

C3

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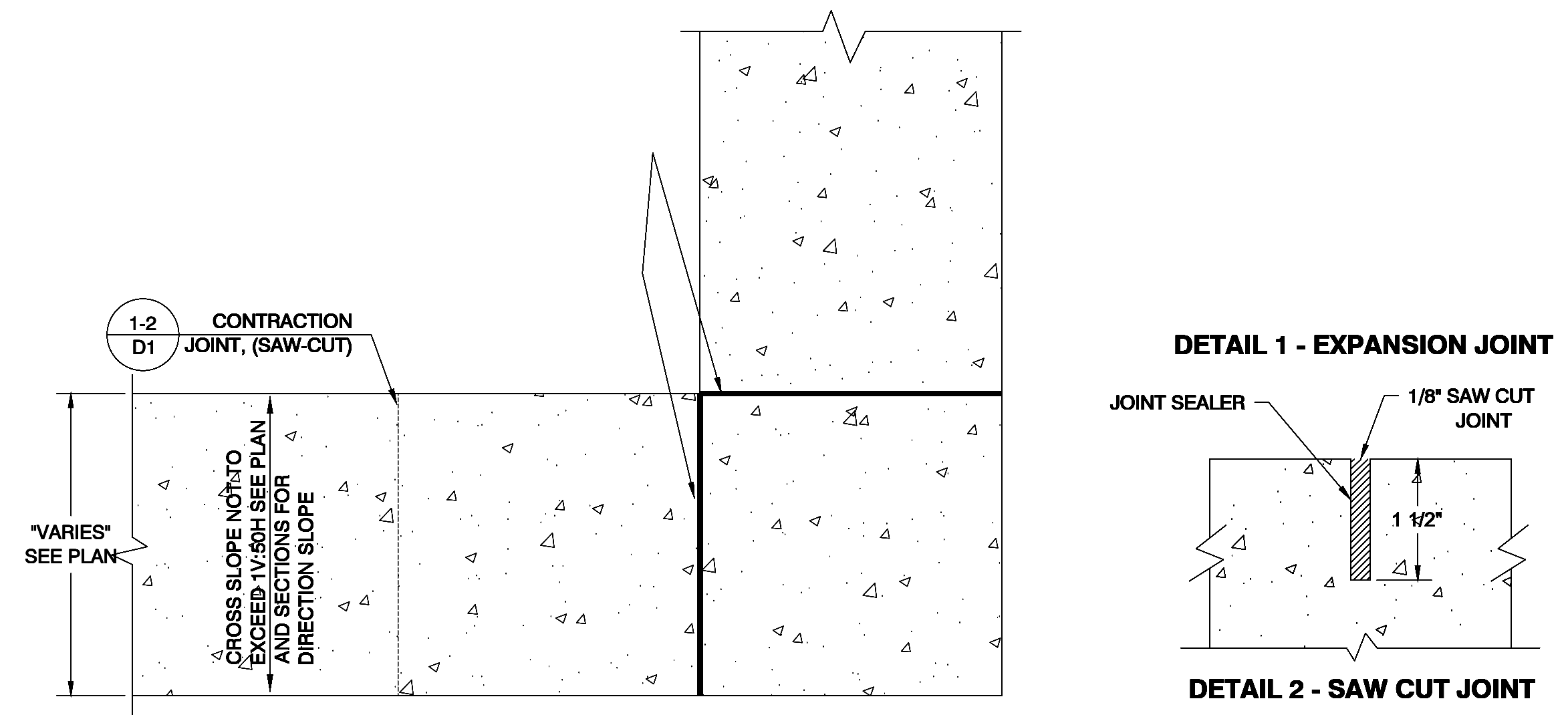
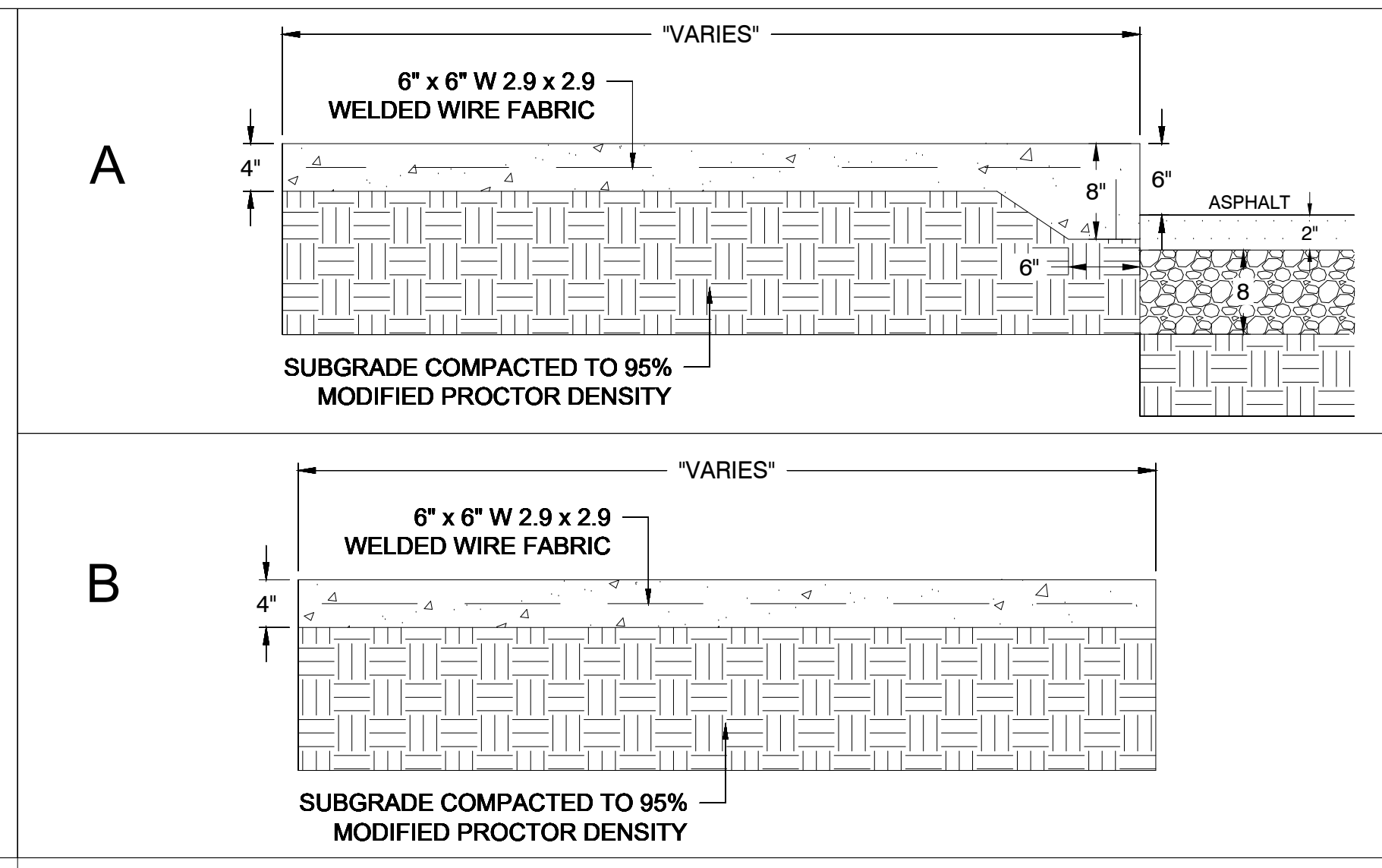

1-2
D1
CONTRACTION JOINT, (SAW-CUT)
"VARIES" SEE PLAN
CROSS SLOPE NOT TO EXCEED 1V:50H SEE PLAN AND SECTIONS FOR DIRECTION SLOPE
DETAIL 1 - EXPANSION JOINT
JOINT SEALER
1/8" SAW CUT JOINT
1 1/2"
DETAIL 2 - SAW CUT JOINT

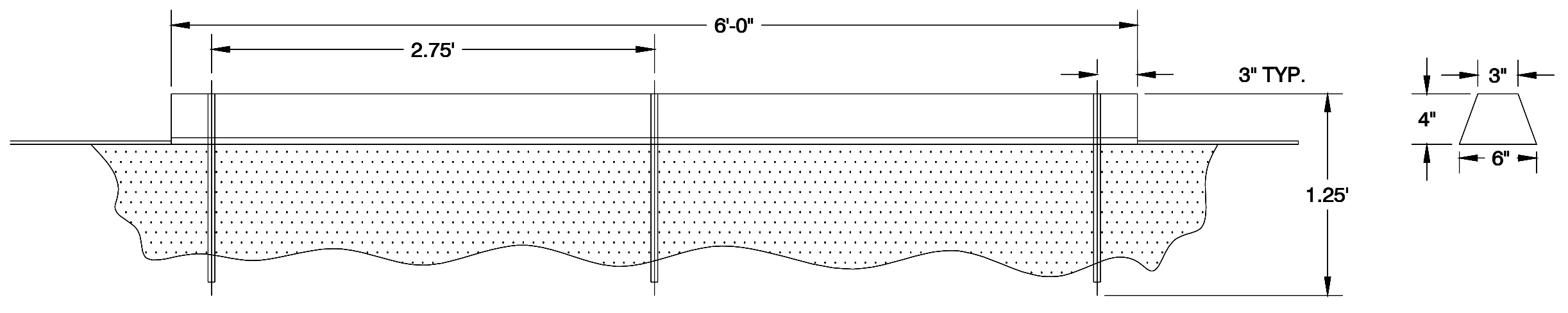
NOTES:
1. EXPANSION JOINT SPACING SHALL BE 50'
2. TOOLED TRANSVERSE CONTRACTION JOINTS AND CONSTRUCTION JOINTS SHALL BE SPACED THE SAME WIDTH AS THE WALK (5' MAX.)
3. SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1/4" PER FT. IN THE DIRECTION OF SURFACE DRAINAGE IN THE AREA, UNLESS INDICATED OTHERWISE.
4. PROVIDE EXPANSION JOINTS FULL DEPTH AGAINST ANY EXISTING OR PROPOSED CURB, STRUCTURE, SLAB OR WALK.
5. PLACE SAW CUT JOINTS, EVENLY SPACED AT 5' MIN. TO 15' MAX SPACING. IF NOT INDICATED ON PLAN OR PAVEMENT SECTION DETAIL.

1 SIDEWALK - JOINT DETAILS
N.T.S.


A
"VARIES"
6" x 6" W 2.9 x 2.9 WELDED WIRE FABRIC
4"
8"
6"
6"
ASPHALT
2"
8
SUBGRADE COMPACTED TO 95% MODIFIED PROCTOR DENSITY
B
"VARIES"
6" x 6" W 2.9 x 2.9 WELDED WIRE FABRIC
4"
SUBGRADE COMPACTED TO 95% MODIFIED PROCTOR DENSITY

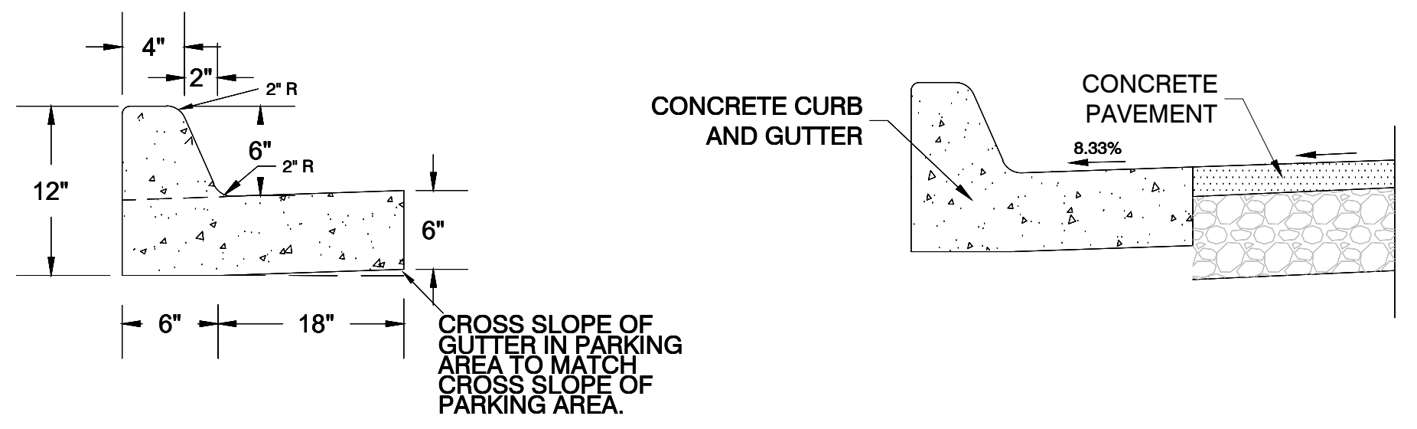
2 SIDEWALK SECTIONS
N.T.S.

NOTES:
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- RUBBER WHEEL STOP AS MANUFACTURED BY SpeedBumpandHumps.com OR APPROVED EQUAL PRODUCT.
- .
- CONTRACTOR TO SUBMIT DATA SHEET FOR SUBSTITUTION APPROVAL.



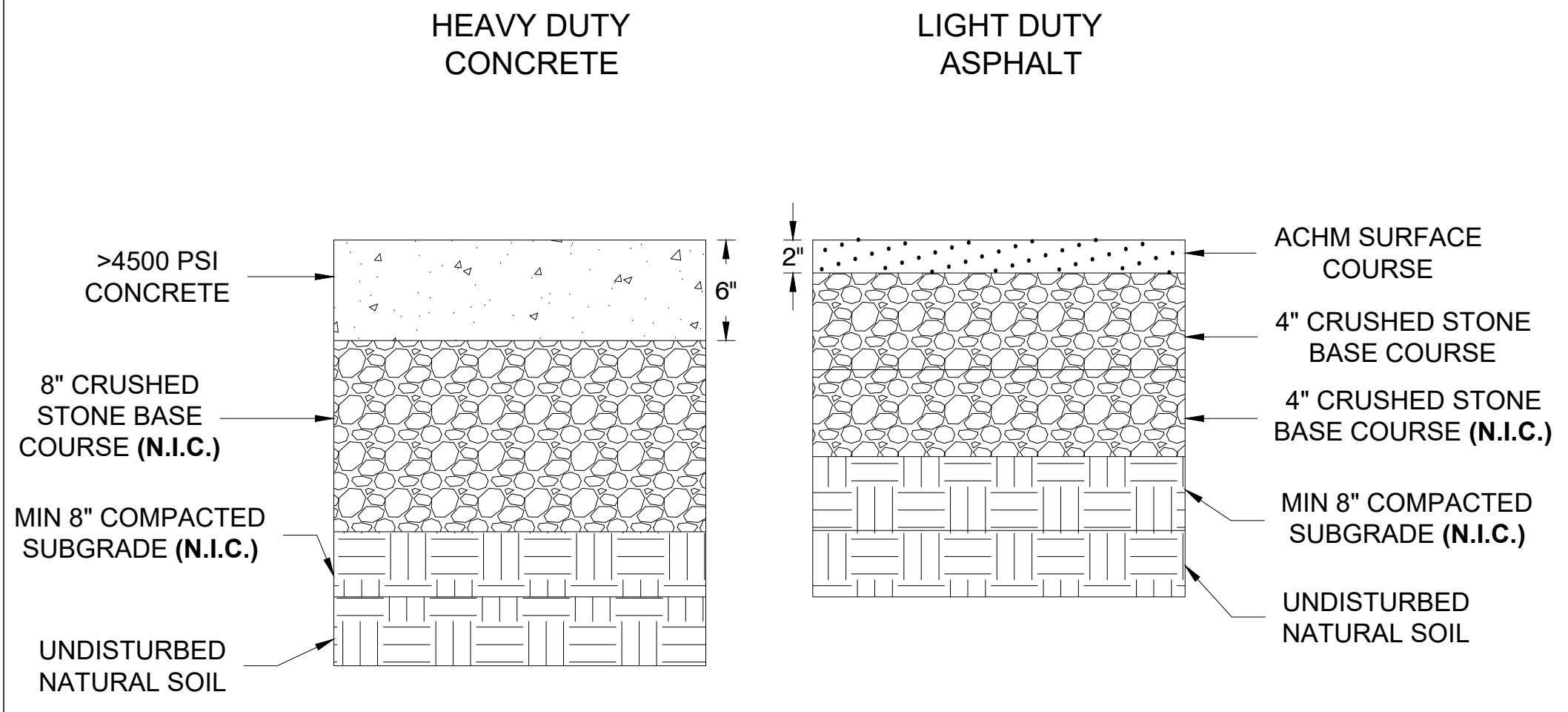
3 TYPICAL WHEEL STOP DETAIL
N.T.S.

A CURB AND GUTTER

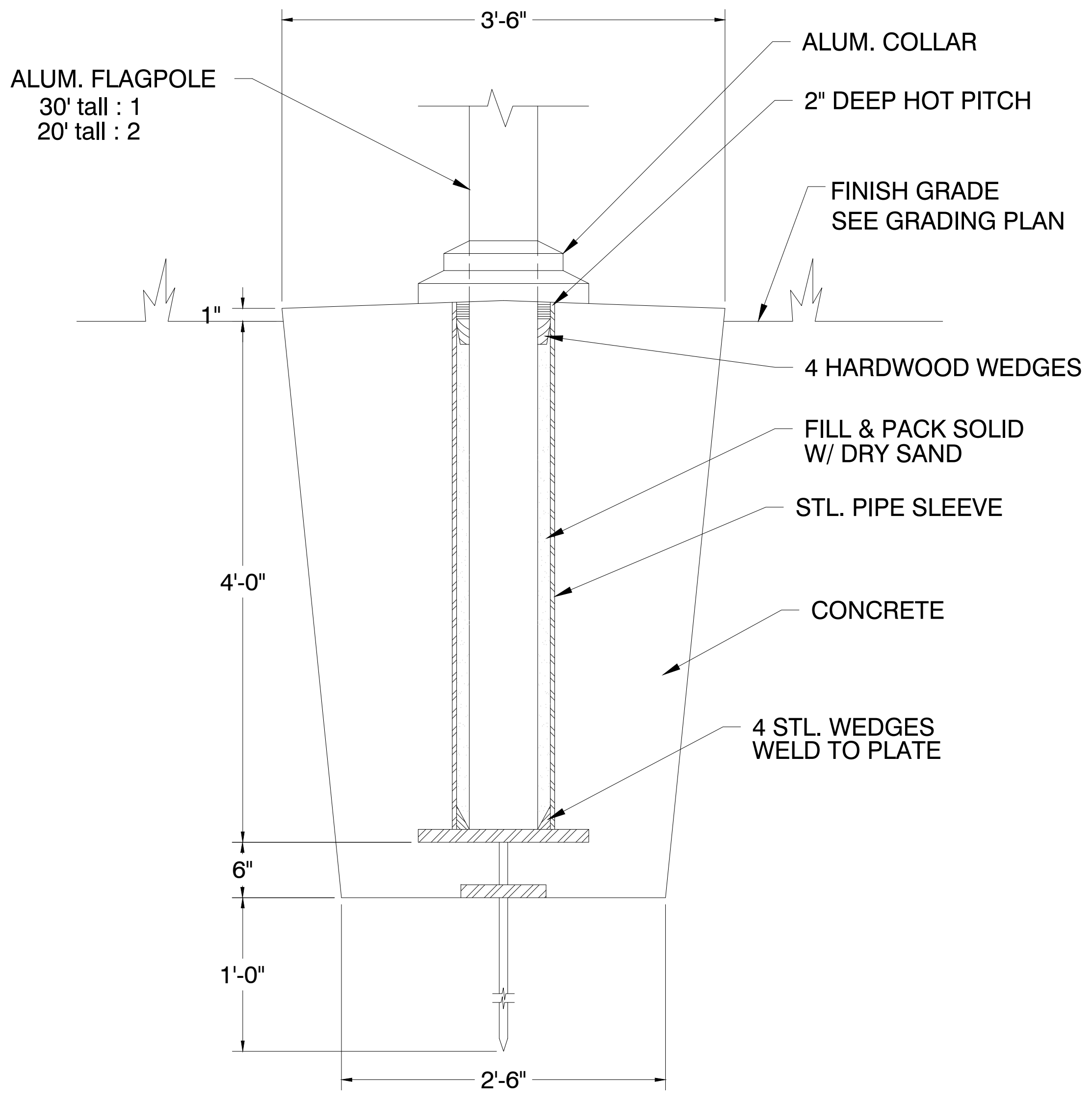

4"
2"
2" R
6"
2" R
12"
6"
6"
18"
CROSS SLOPE OF GUTTER IN PARKING AREA TO MATCH CROSS SLOPE OF PARKING AREA.
CONCRETE CURB AND GUTTER
CONCRETE PAVEMENT
8.33%

NOTES:
1. FOR EXPANSION JOINTS SEE DETAIL 1-1.
2. FOR TRANSVERSE CONTRACTION JOINT SEE DETAIL 1-2.

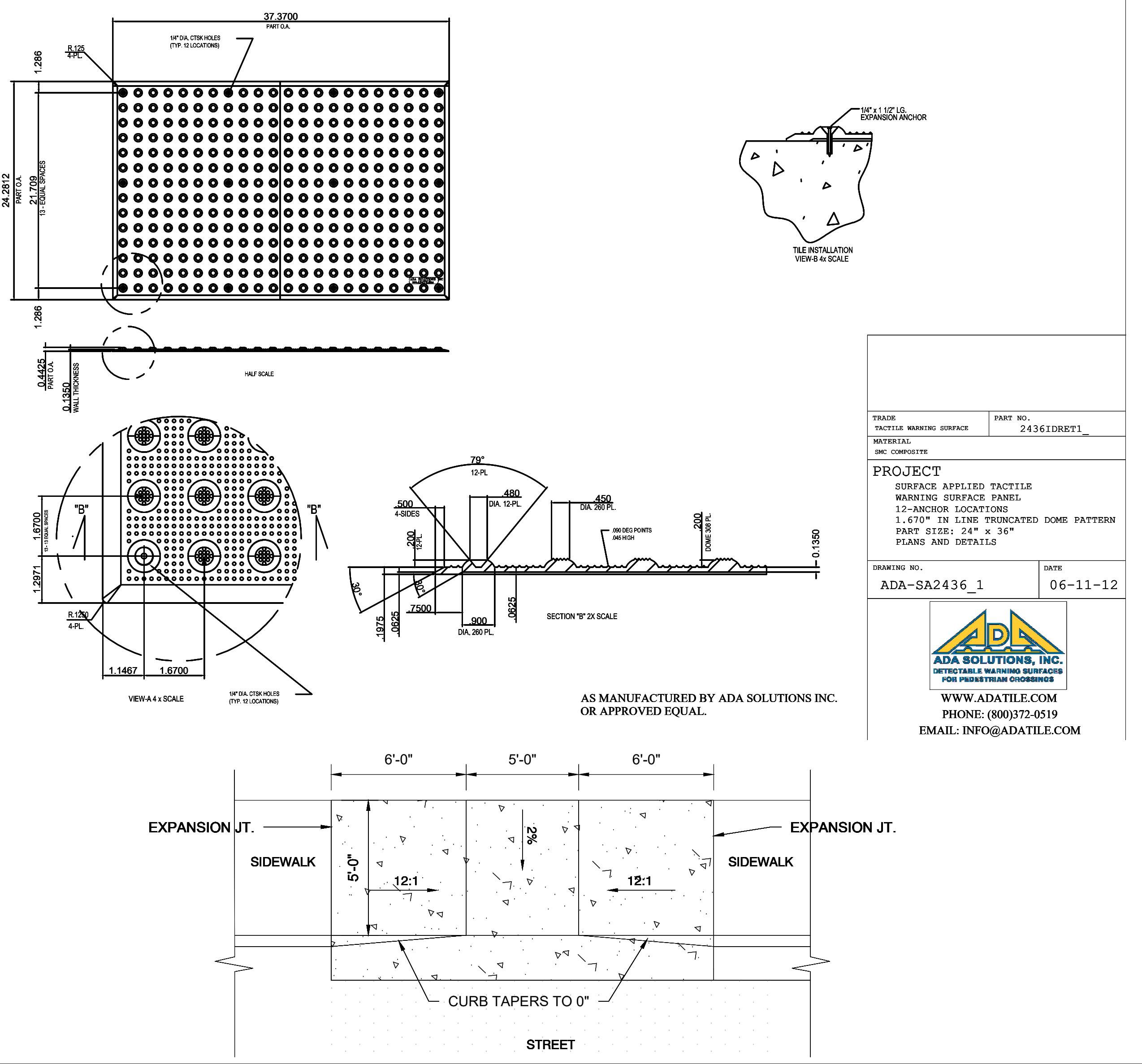
4 CURB AND GUTTER DETAILS
N.T.S.


HEAVY DUTY CONCRETE
LIGHT DUTY ASPHALT
>4500 PSI CONCRETE
6"
8" CRUSHED STONE BASE COURSE (N.I.C.)
MIN 8" COMPACTED SUBGRADE (N.I.C.)
UNDISTURBED NATURAL SOIL
2"
ACHM SURFACE COURSE
4" CRUSHED STONE BASE COURSE
4" CRUSHED STONE BASE COURSE (N.I.C.)
MIN 8" COMPACTED SUBGRADE (N.I.C.)
UNDISTURBED NATURAL SOIL

5 PAVEMENT SECTIONS
N.T.S.

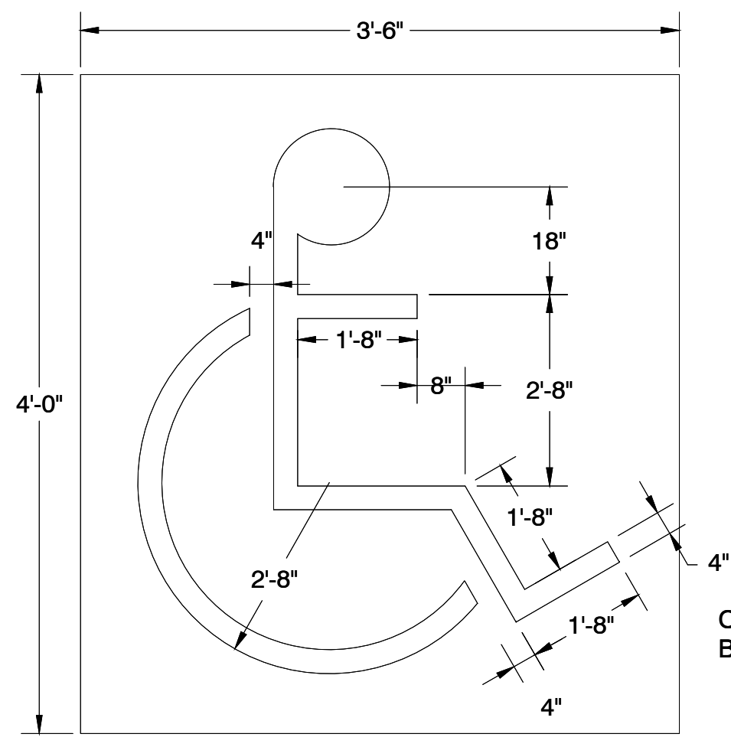


6 FLAG POLE BASE DETAIL
N.T.S.

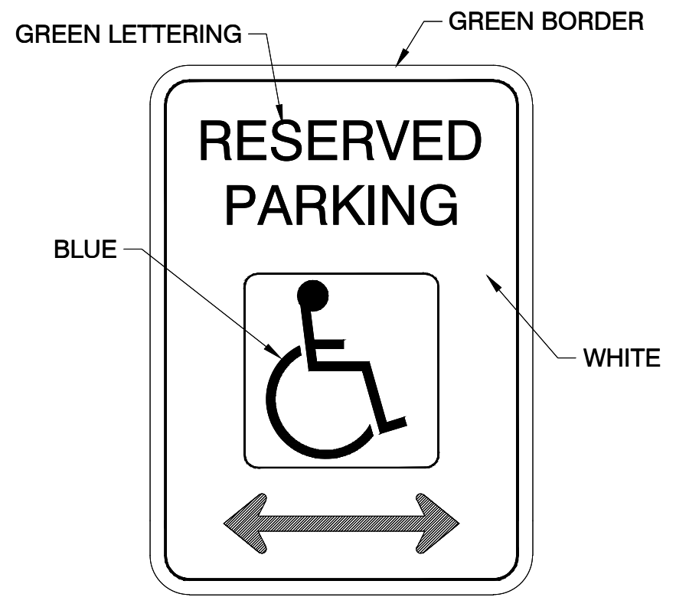


AS MANUFACTURED BY ADA SOLUTIONS INC.
OR APPROVED EQUAL.

7 WHEEL CHAIR RAMP WITH TRUNCATED WARNING DOME
N.T.S.

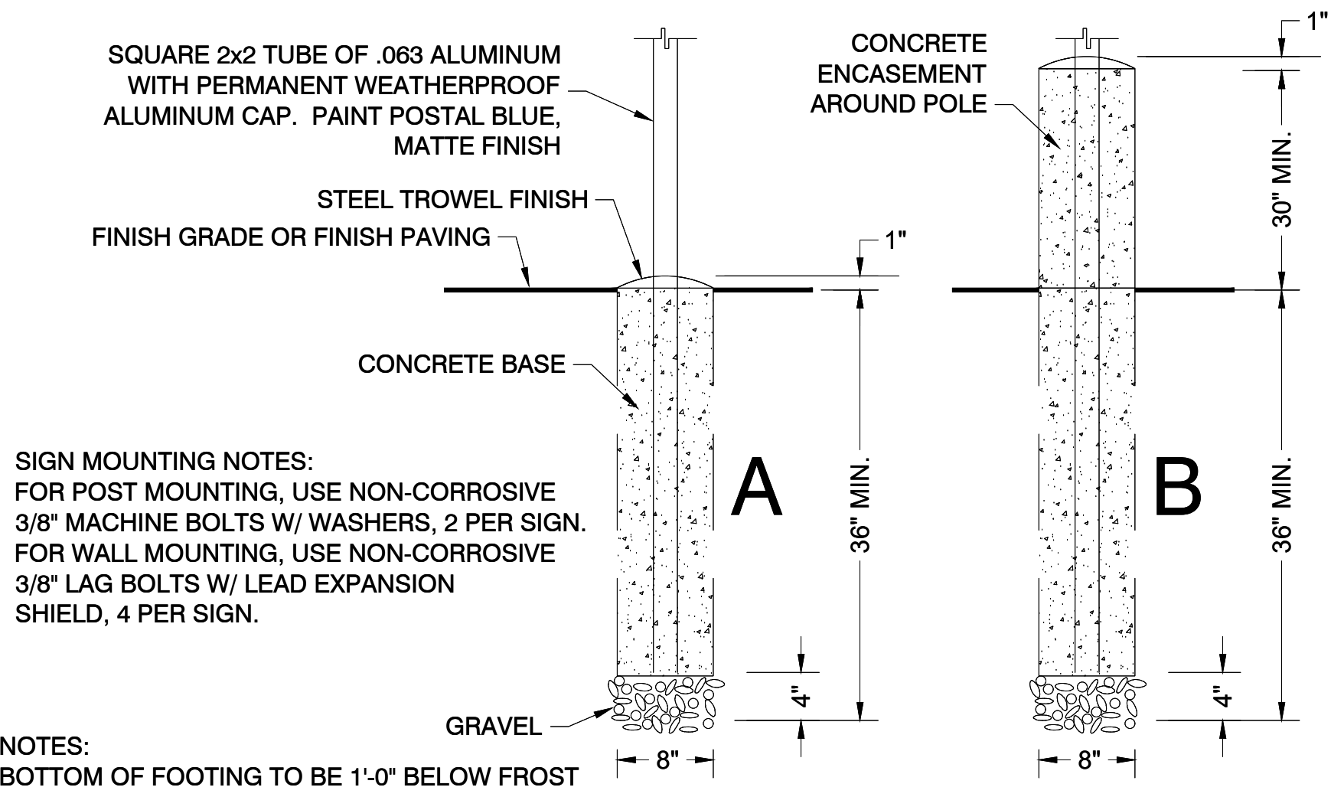


R7-8B



18"x12"

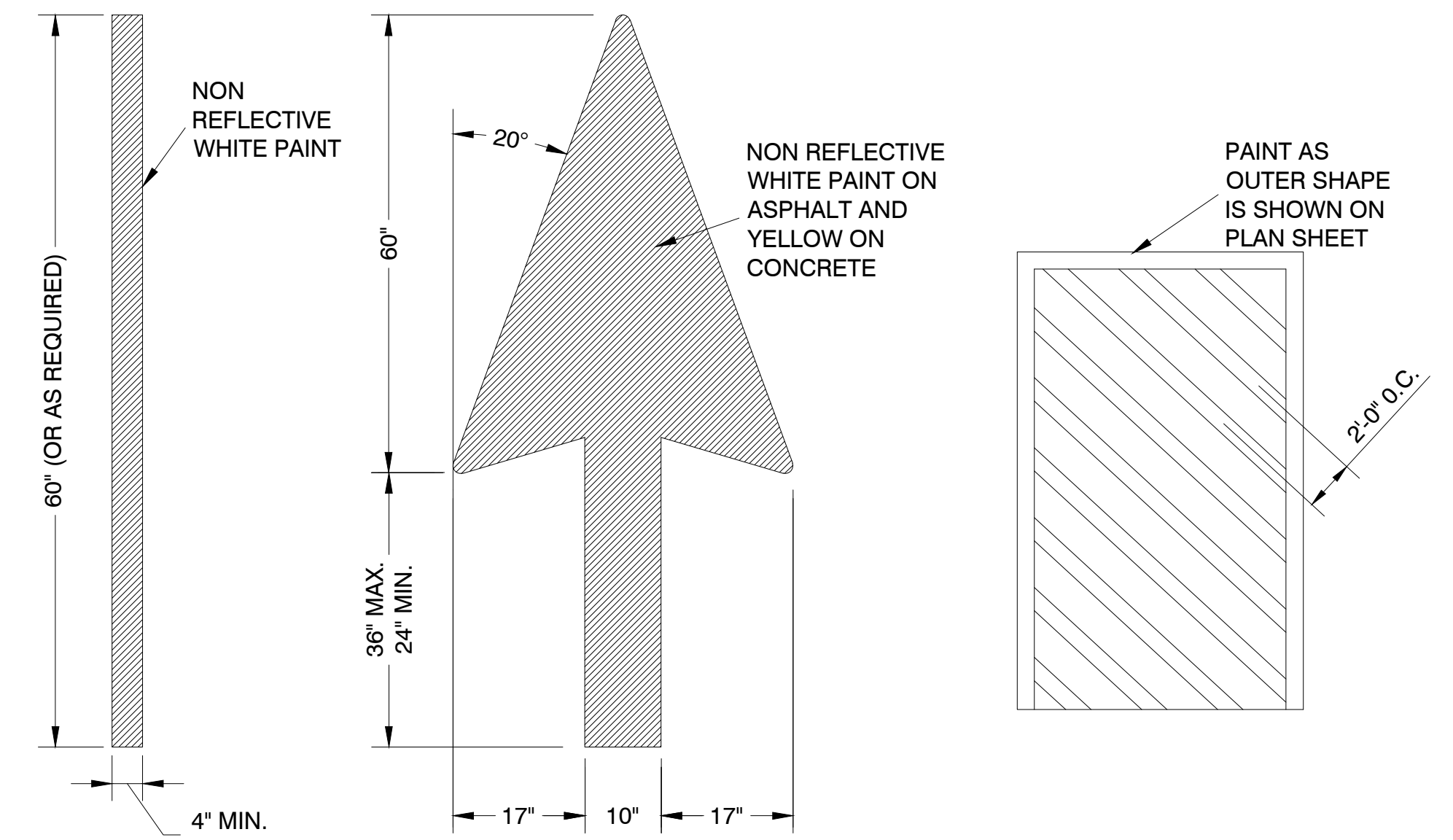
NOTE:
R7-8 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SIGNS WILL BE MOUNTED WITH THE BOTTOM EDGE 5'-0" ABOVE FINISHED GRADE.


SQUARE 2x2 TUBE OF .063 ALUMINUM WITH PERMANENT WEATHERPROOF ALUMINUM CAP. PAINT POSTAL BLUE, MATTE FINISH
STEEL TROWEL FINISH
FINISH GRADE OR FINISH PAVING
1"
CONCRETE BASE
A
36" MIN.
4"
8"
GRAVEL
CONCRETE ENCASEMENT AROUND POLE
1"
30" MIN.
B
36" MIN.
4"
8"

SIGN MOUNTING NOTES:
FOR POST MOUNTING, USE NON-CORROSIVE 3/8" MACHINE BOLTS W/ WASHERS, 2 PER SIGN.
FOR WALL MOUNTING, USE NON-CORROSIVE 3/8" LAG BOLTS W/ LEAD EXPANSION SHIELD, 4 PER SIGN.

NOTES:
BOTTOM OF FOOTING TO BE 1'-0" BELOW FROST LINE, EXISTING UNDISTURBED GRADE OR FINISHED GRADE,WHICHEVER IS GREATER.

8 HANDICAPPED PARKING DETAILS
N.T.S.


NON REFLECTIVE WHITE PAINT
60" (OR AS REQUIRED)
4" MIN.
6" MAX.
20°
60"
36" MAX.
24" MIN.
17"
10"
17"
NON REFLECTIVE WHITE PAINT ON ASPHALT AND YELLOW ON CONCRETE
PAINT AS OUTER SHAPE IS SHOWN ON PLAN SHEET
2'-0" O.C.

TYPICAL PAVEMENT MARKING

TRAFFIC ARROW

www.roadtrafficsigns.com
or Approved Equal

9 PAVEMENT MARKINGS
N.T.S.

STAMPS

ETC Engineers & Architects, Inc.
No. C-462

STAMPS

Shawkat M. Ali
01/06/2022

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE-II

DETAILS

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: HB
Checked By: SA

DATE: OCTOBER 21, 2021

D1

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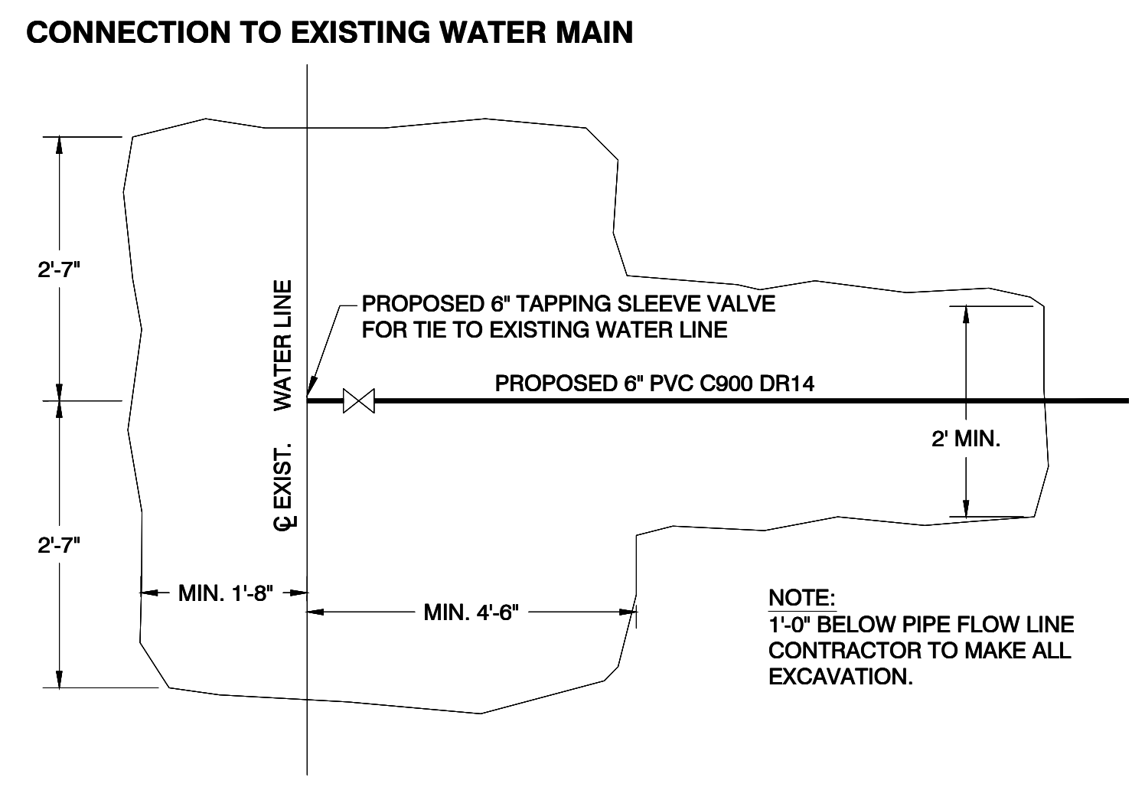
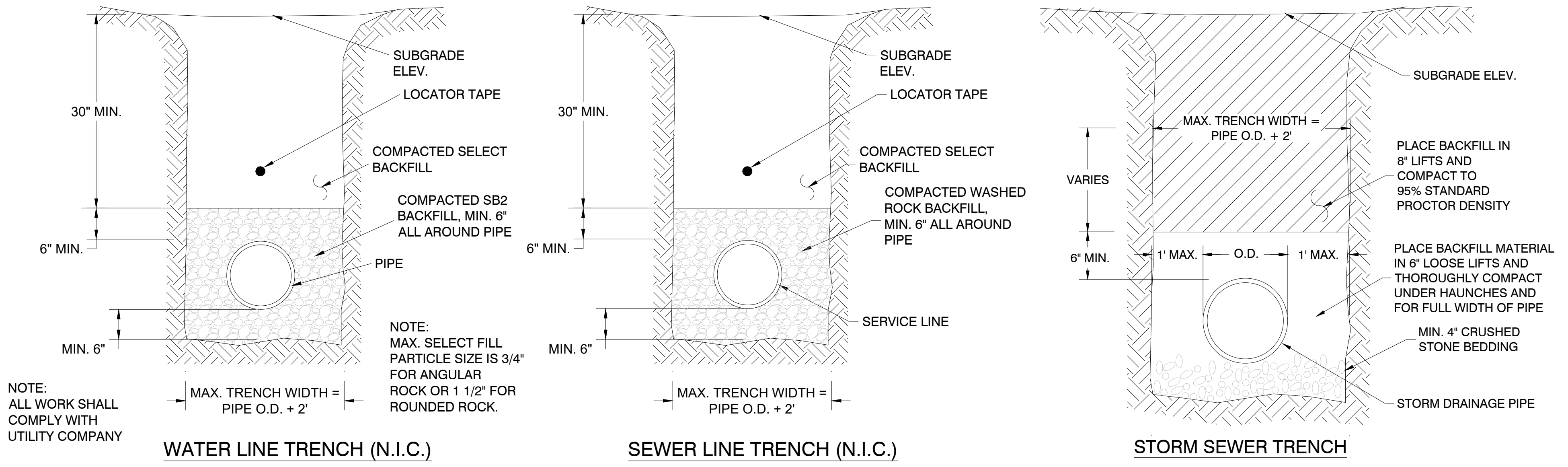

CONNECTION TO EXISTING WATER MAIN
2'-7"
2'-7"
℄ EXIST. WATER LINE
PROPOSED 6" TAPPING SLEEVE VALVE FOR TIE TO EXISTING WATER LINE
PROPOSED 6" PVC C900 DR14
2' MIN.
MIN. 1'-8"
MIN. 4'-6"
NOTE:
1'-0" BELOW PIPE FLOW LINE CONTRACTOR TO MAKE ALL EXCAVATION.

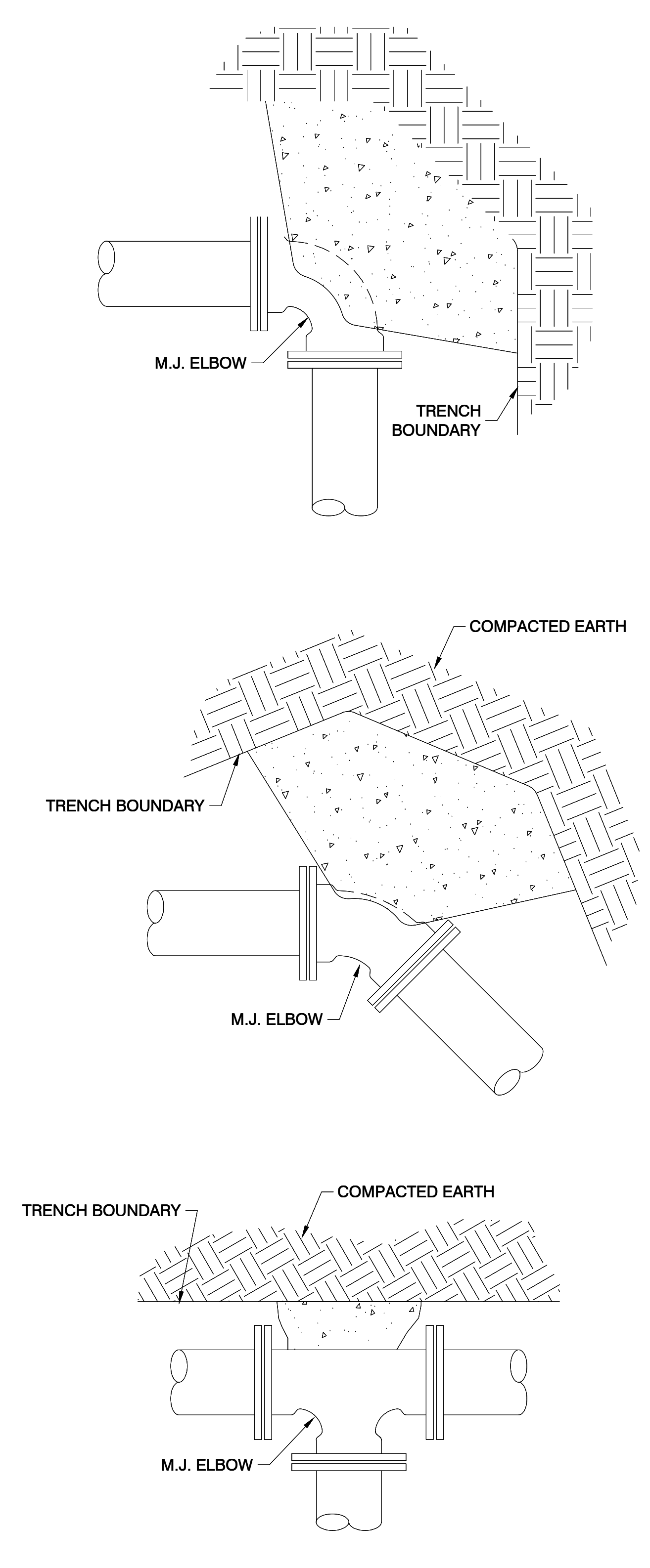
10 WATER CONNECTION TO EXISTING MAIN

N.T.S.


SUBGRADE ELEV.
LOCATOR TAPE
30" MIN.
COMPACTED SELECT BACKFILL
COMPACTED SB2 BACKFILL, MIN. 6" ALL AROUND PIPE
6" MIN.
PIPE
MIN. 6"
NOTE:
MAX. SELECT FILL PARTICLE SIZE IS 3/4" FOR ANGULAR ROCK OR 1 1/2" FOR ROUNDED ROCK.
NOTE:
ALL WORK SHALL COMPLY WITH UTILITY COMPANY
MAX. TRENCH WIDTH = PIPE O.D. + 2'
WATER LINE TRENCH (N.I.C.)
SUBGRADE ELEV.
LOCATOR TAPE
30" MIN.
COMPACTED SELECT BACKFILL
COMPACTED WASHED ROCK BACKFILL, MIN. 6" ALL AROUND PIPE
6" MIN.
SERVICE LINE
MIN. 6"
MAX. TRENCH WIDTH = PIPE O.D. + 2'
SEWER LINE TRENCH (N.I.C.)
SUBGRADE ELEV.
MAX. TRENCH WIDTH = PIPE O.D. + 2'
VARIES
PLACE BACKFILL IN 8" LIFTS AND COMPACT TO 95% STANDARD PROCTOR DENSITY
6" MIN.
1' MAX.
O.D.
1' MAX.
PLACE BACKFILL MATERIAL IN 6" LOOSE LIFTS AND THOROUGHLY COMPACT UNDER HAUNCHES AND FOR FULL WIDTH OF PIPE
MIN. 4" CRUSHED STONE BEDDING
STORM DRAINAGE PIPE
STORM SEWER TRENCH

11 UTILITY TRENCH DETAILS

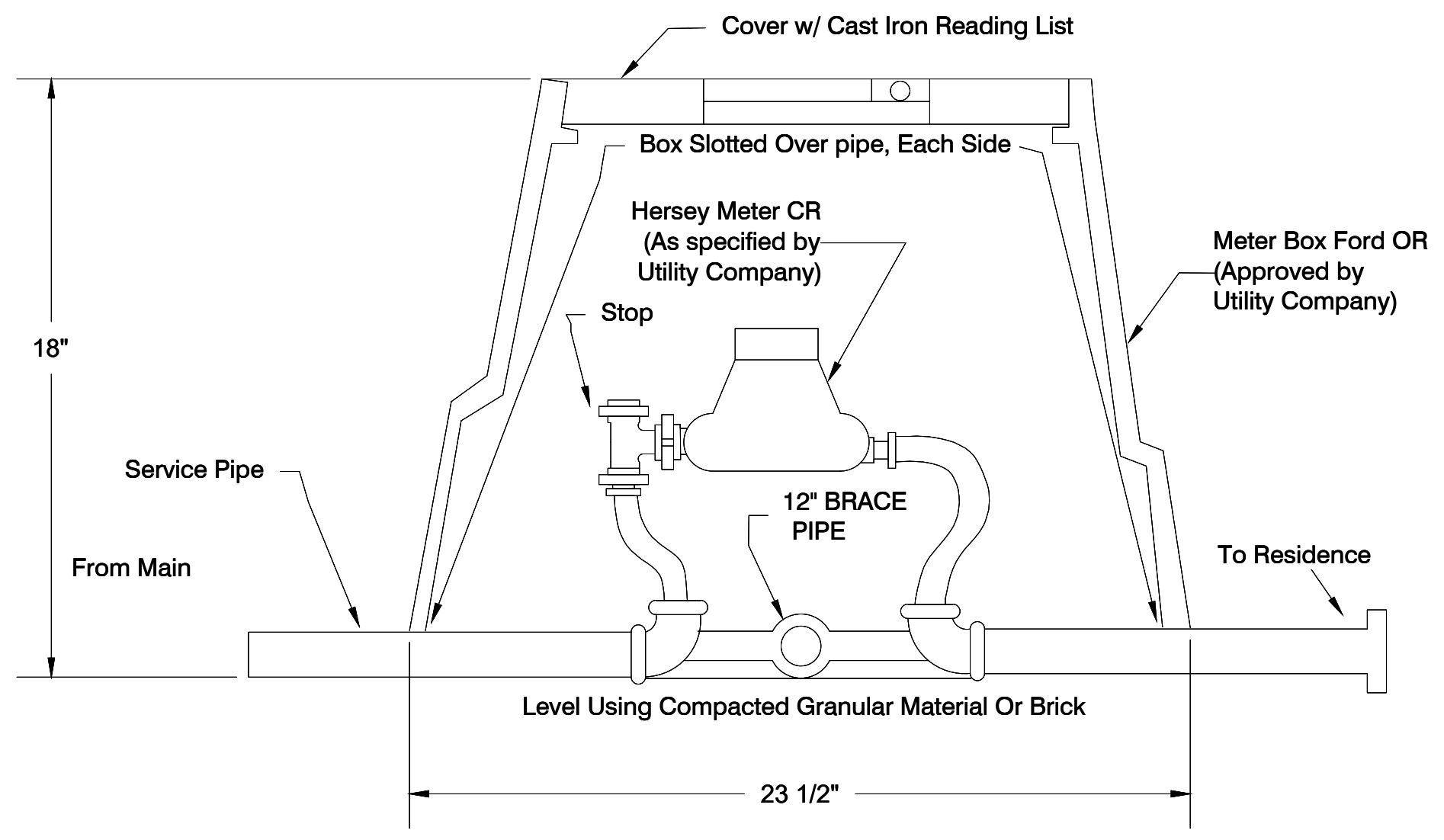
N.T.S.



BEARING AREA OF BLOCK IN SQ. FT.					
FITTING SIZES	TEE AND END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6"	3.6	5.4	2.5	1.5	0.8
8"	6.3	8.9	4.8	2.5	1.3
10"	9.9	13.9	7.6	3.9	2.0
12"	14.2	20.0	10.9	5.6	2.8

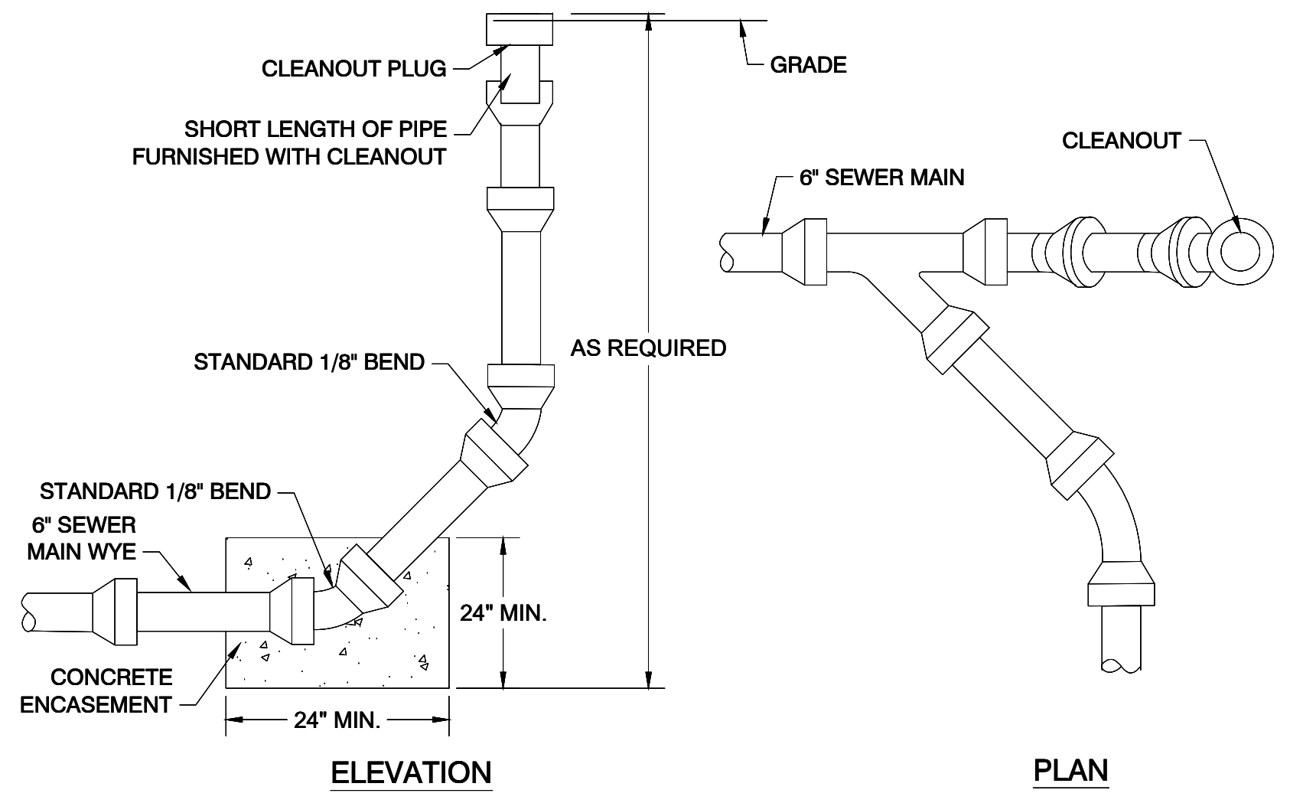
15 THRUST BLOCKING

N.T.S.


Cover w/ Cast Iron Reading List
Box Slotted Over pipe, Each Side
Hersey Meter CR (As specified by Utility Company)
Meter Box Ford OR (Approved by Utility Company)
Stop
18"
Service Pipe
From Main
12" BRACE PIPE
To Residence
Level Using Compacted Granular Material Or Brick
23 1/2"

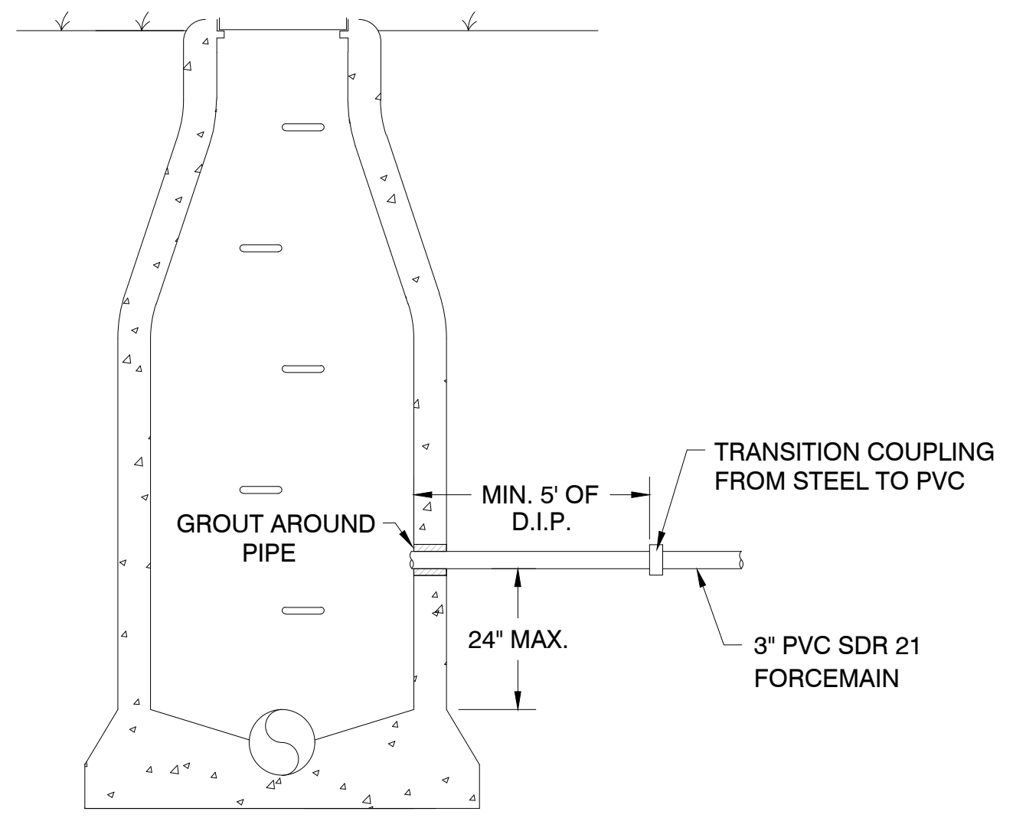
12 WATER METER DETAIL

N.T.S.



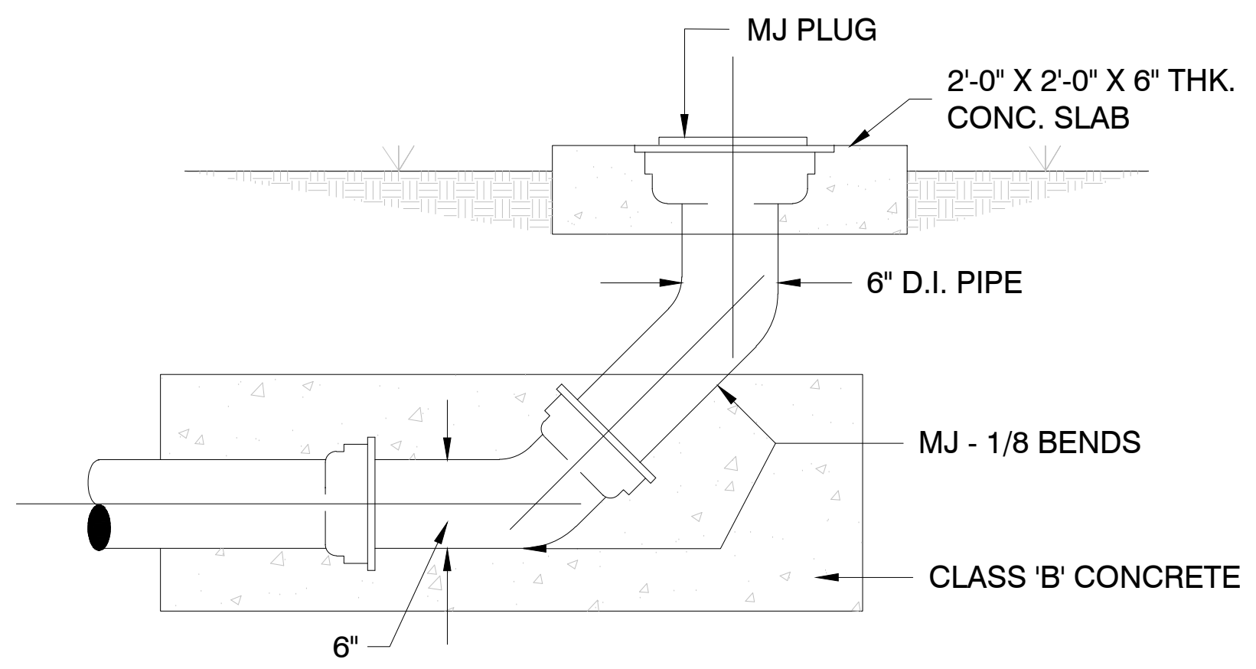
13 TYPICAL CLEANOUT DETAIL

N.T.S.



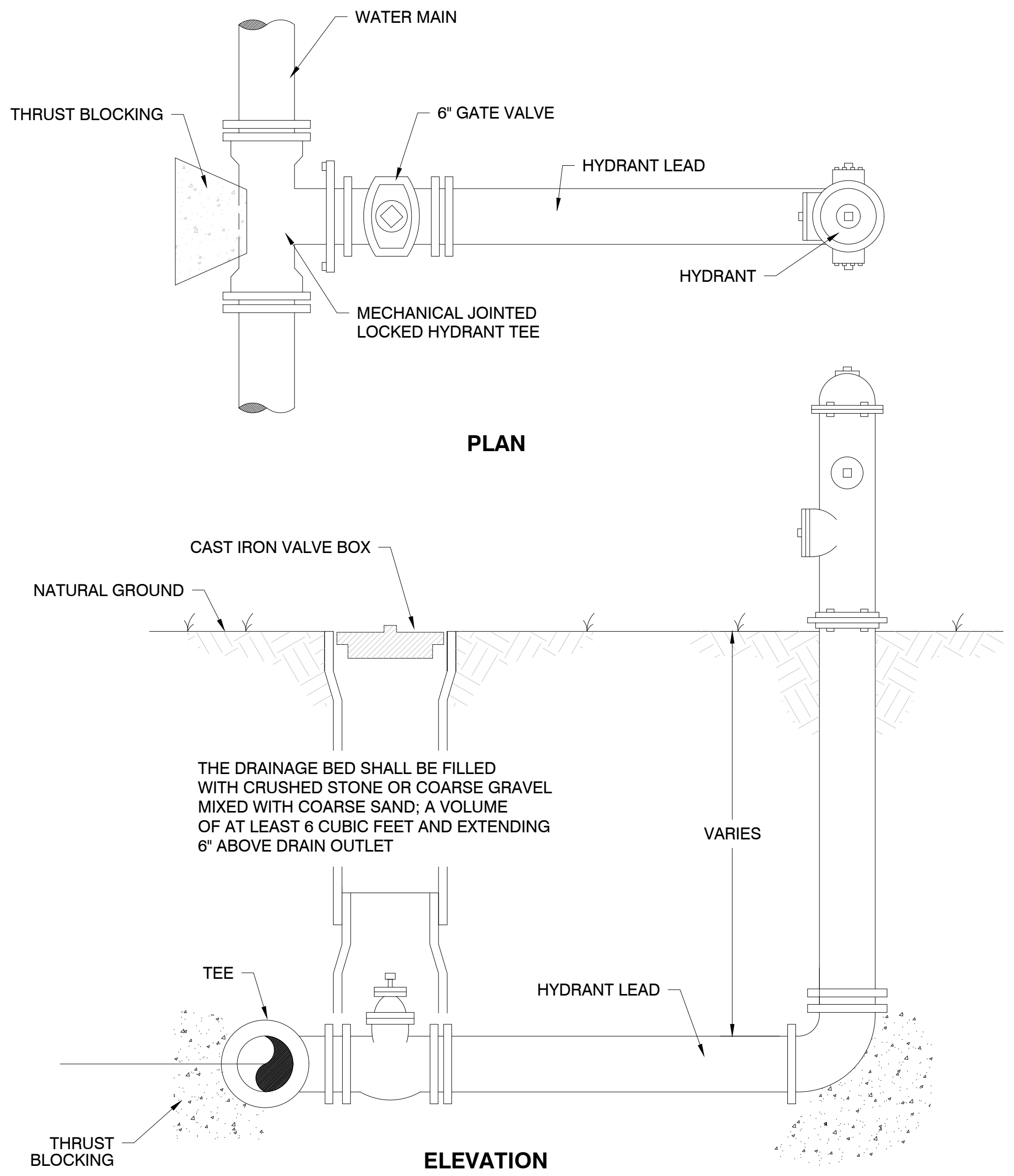
14 CONNECTION TO EXISTING SEWER MANHOLE

N.T.S.



16 CONCRETE COLLAR ON CLEAN OUT

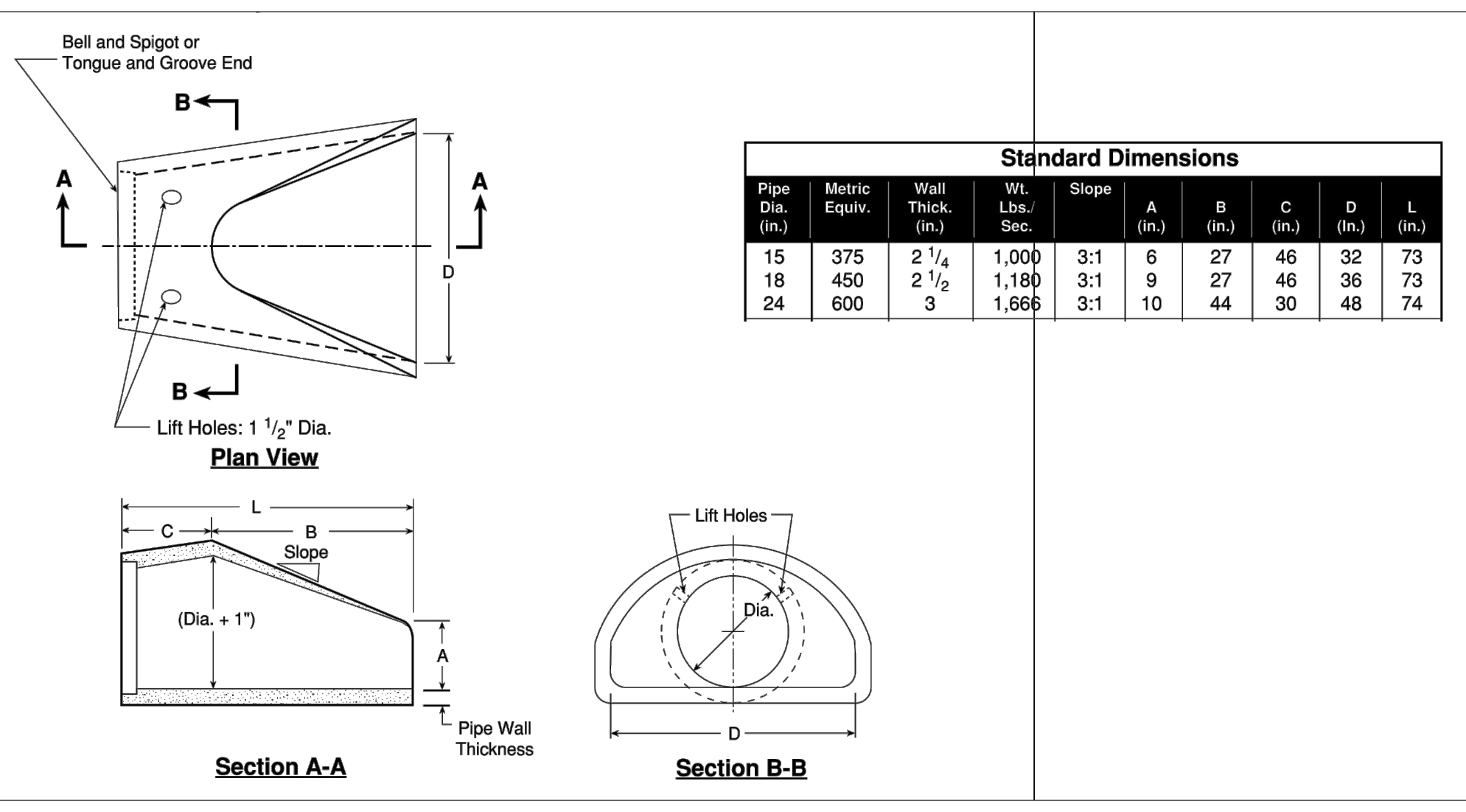
N.T.S.



THE DRAINAGE BED SHALL BE FILLED WITH CRUSHED STONE OR COARSE GRAVEL MIXED WITH COARSE SAND; A VOLUME OF AT LEAST 6 CUBIC FEET AND EXTENDING 6" ABOVE DRAIN OUTLET

20 TYPICAL FIRE HYDRANT DETAIL

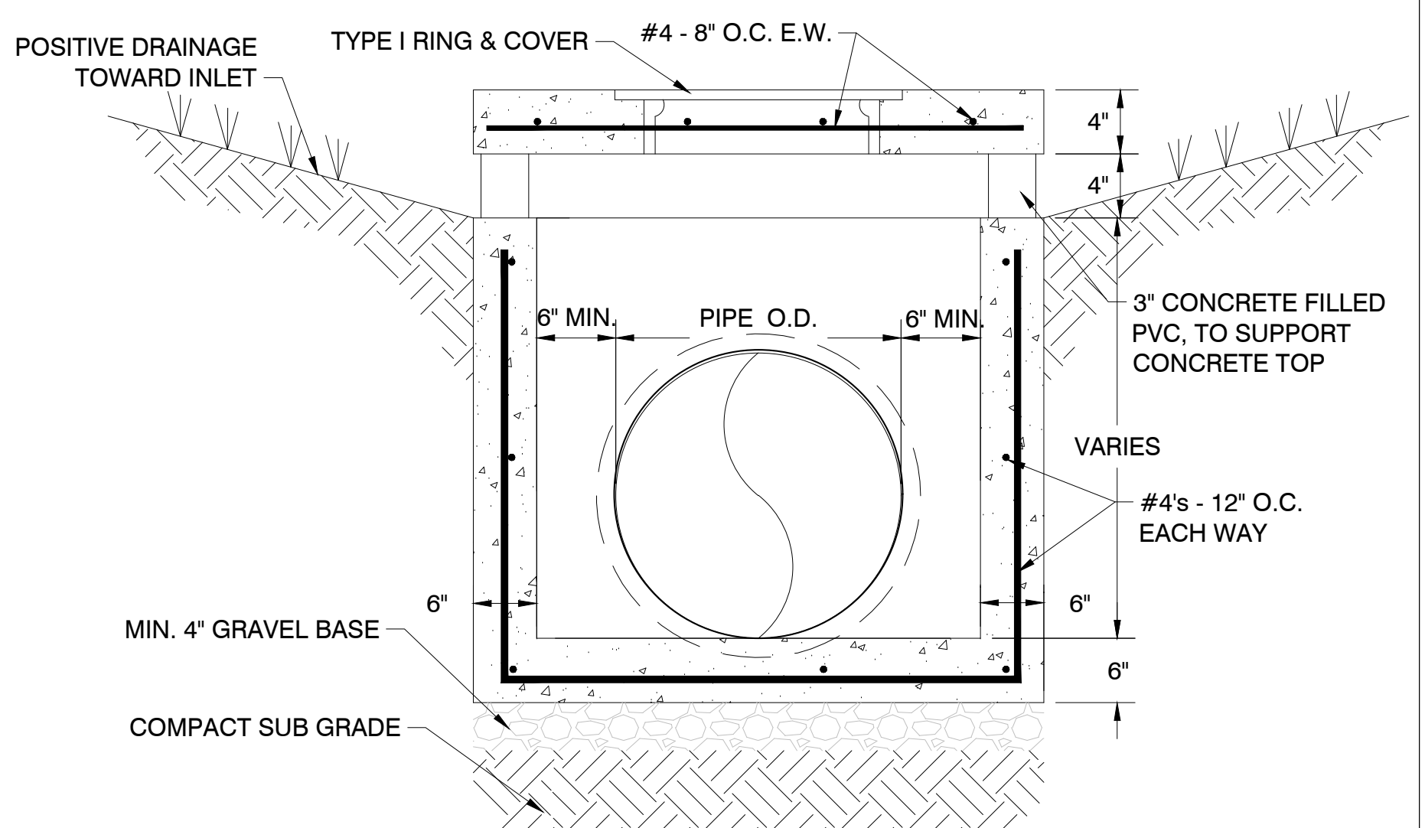
N.T.S.



Standard Dimensions									
Pipe Dia. (in.)	Metric Equiv.	Wall Thick. (in.)	Wt. Lbs./ Sec.	Slope	A (in.)	B (in.)	C (in.)	D (In.)	L (in.)
15	375	2 1/4	1,000	3:1	6	27	46	32	73
18	450	2 1/2	1,180	3:1	9	27	46	36	73
24	600	3	1,666	3:1	10	44	30	48	74

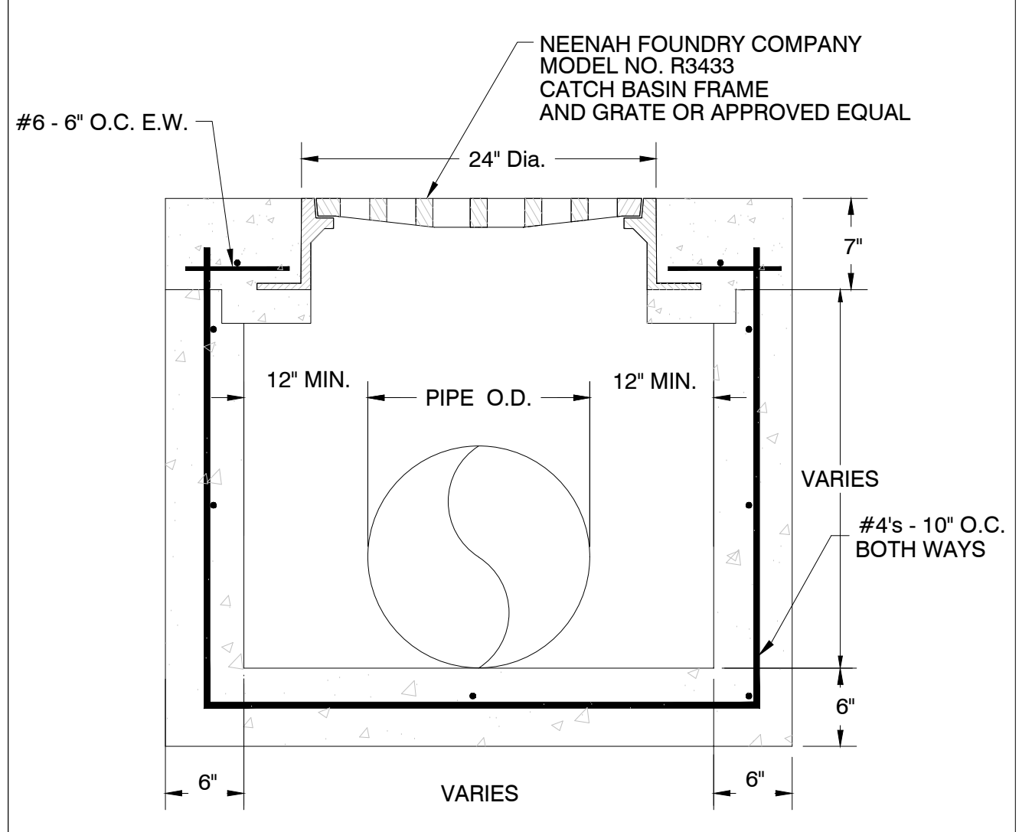
17 CONCRETE FLARED END SECTION (N.I.C.)

N.T.S.



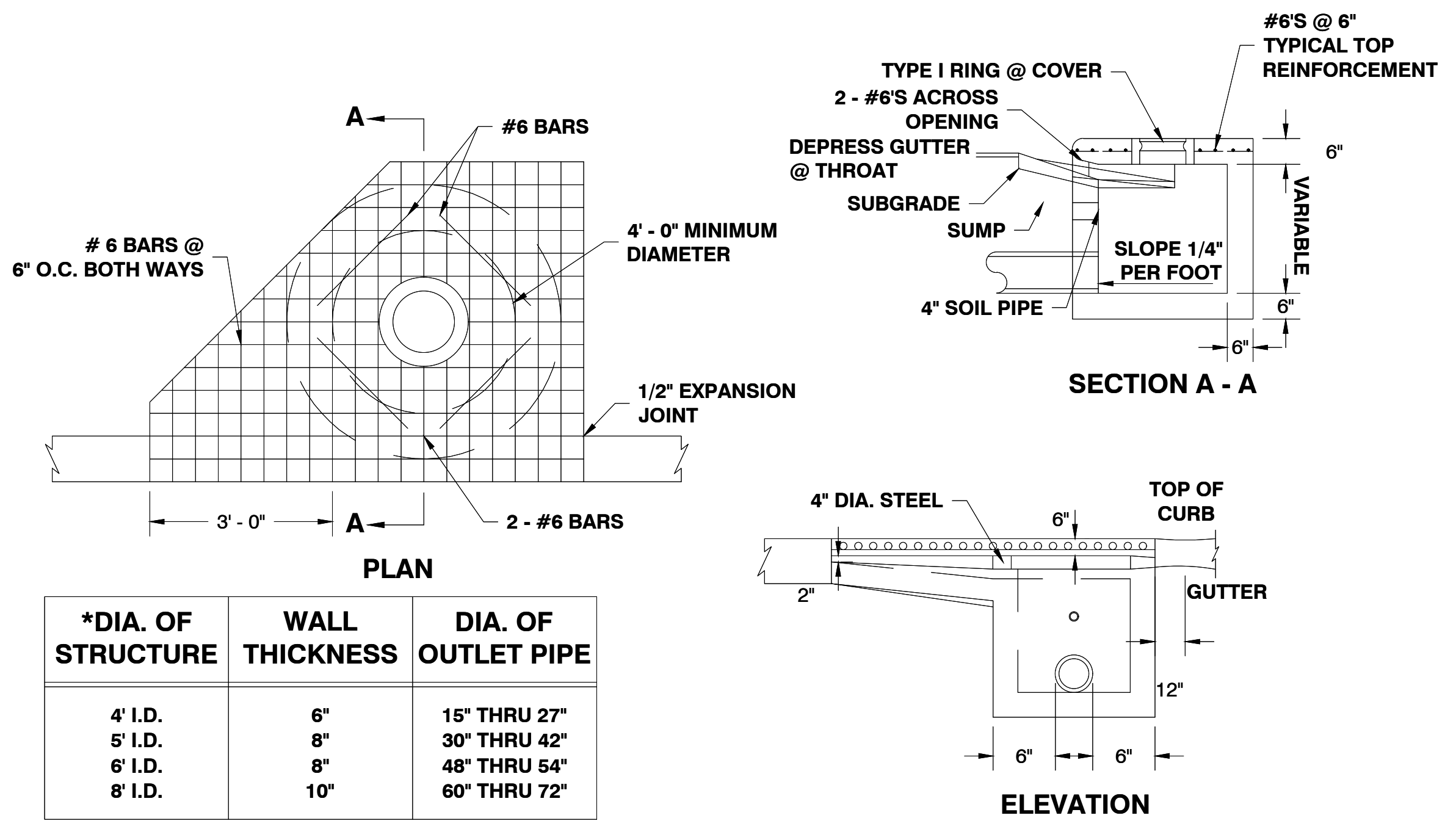
18 AREA INLET (N.I.C.)

N.T.S.


NEENAH FOUNDRY COMPANY MODEL NO. R3433 CATCH BASIN FRAME AND GRATE OR APPROVED EQUAL
#6 - 6" O.C. E.W.
24" Dia.
7"
12" MIN.
PIPE O.D.
12" MIN.
VARIES
#4's - 10" O.C. BOTH WAYS
6"
6"
VARIES
6"

19 JUNCTION BOX WITH GRATE TOP (N.I.C.)

N.T.S.



*DIA. OF STRUCTURE	WALL THICKNESS	DIA. OF OUTLET PIPE
4' I.D.	6"	15" THRU 27"
5' I.D.	8"	30" THRU 42"
6' I.D.	8"	48" THRU 54"
8' I.D.	10"	60" THRU 72"

21 CURB INLET (7' OPENING) (N.I.C.)

N.T.S.

STAMPS

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No. C-462

STAMPS

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No. 12940
Shawkat Ali
01/06/2022

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE-II

DETAILS

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: HB
Checked By: SA

DATE: OCTOBER 21, 2021

D2

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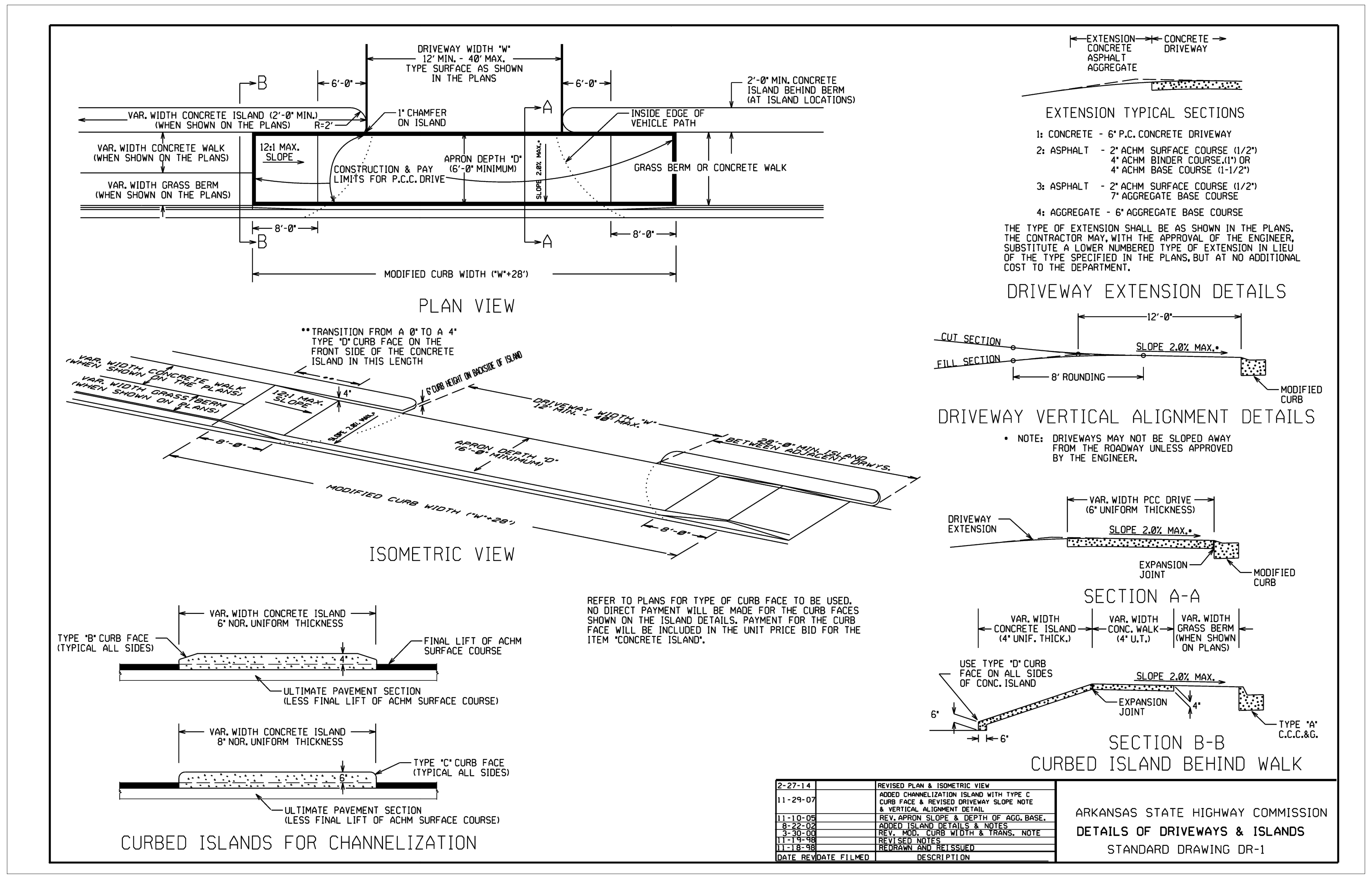
DRIVEWAY WIDTH "W"
12' MIN. - 40' MAX.
TYPE SURFACE AS SHOWN IN THE PLANS
6'-0"
B
A
2'-0" MIN. CONCRETE ISLAND BEHIND BERM (AT ISLAND LOCATIONS)
VAR. WIDTH CONCRETE ISLAND (2'-0" MIN.) (WHEN SHOWN ON THE PLANS)
R=2'
1" CHAMFER ON ISLAND
INSIDE EDGE OF VEHICLE PATH
VAR. WIDTH CONCRETE WALK (WHEN SHOWN ON THE PLANS)
12:1 MAX. SLOPE
APRON DEPTH "D" (6'-0" MINIMUM)
SLOPE 2.0% MAX.•
CONSTRUCTION & PAY LIMITS FOR P.C.C. DRIVE
GRASS BERM OR CONCRETE WALK
VAR. WIDTH GRASS BERM (WHEN SHOWN ON THE PLANS)
8'-0"
MODIFIED CURB WIDTH ("W"+28')
PLAN VIEW
••TRANSITION FROM A 0" TO A 4" TYPE "D" CURB FACE ON THE FRONT SIDE OF THE CONCRETE ISLAND IN THIS LENGTH
6" CURB HEIGHT ON BACKSIDE OF ISLAND
4"
DRIVEWAY WIDTH "W" 12' MIN. - 40' MAX.
28'-0" MIN. ISLAND BETWEEN ADJACENT DRWYS.
APRON DEPTH "D" (6'-0" MINIMUM)
ISOMETRIC VIEW
EXTENSION
CONCRETE ASPHALT AGGREGATE
CONCRETE DRIVEWAY
EXTENSION TYPICAL SECTIONS
12'-0"
CUT SECTION
FILL SECTION
8' ROUNDING
MODIFIED CURB
DRIVEWAY VERTICAL ALIGNMENT DETAILS
VAR. WIDTH PCC DRIVE (6" UNIFORM THICKNESS)
DRIVEWAY EXTENSION
EXPANSION JOINT
SECTION A-A
VAR. WIDTH CONCRETE ISLAND (4" UNIF. THICK.)
VAR. WIDTH CONC. WALK (4" U.T.)
VAR. WIDTH GRASS BERM (WHEN SHOWN ON PLANS)
USE TYPE "D" CURB FACE ON ALL SIDES OF CONC. ISLAND
SLOPE 2.0% MAX.
6"
TYPE "A" C.C.C.&G.
SECTION B-B
CURBED ISLAND BEHIND WALK
VAR. WIDTH CONCRETE ISLAND 6" NOR. UNIFORM THICKNESS
TYPE "B" CURB FACE (TYPICAL ALL SIDES)
FINAL LIFT OF ACHM SURFACE COURSE
ULTIMATE PAVEMENT SECTION (LESS FINAL LIFT OF ACHM SURFACE COURSE)
VAR. WIDTH CONCRETE ISLAND 8" NOR. UNIFORM THICKNESS
TYPE "C" CURB FACE (TYPICAL ALL SIDES)
CURBED ISLANDS FOR CHANNELIZATION

1: CONCRETE - 6" P.C. CONCRETE DRIVEWAY
2: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
4" ACHM BINDER COURSE.(1") OR
4" ACHM BASE COURSE (1-1/2")
3: ASPHALT - 2" ACHM SURFACE COURSE (1/2")
7" AGGREGATE BASE COURSE
4: AGGREGATE - 6" AGGREGATE BASE COURSE

THE TYPE OF EXTENSION SHALL BE AS SHOWN IN THE PLANS. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, SUBSTITUTE A LOWER NUMBERED TYPE OF EXTENSION IN LIEU OF THE TYPE SPECIFIED IN THE PLANS, BUT AT NO ADDITIONAL COST TO THE DEPARTMENT.

DRIVEWAY EXTENSION DETAILS

• NOTE: DRIVEWAYS MAY NOT BE SLOPED AWAY FROM THE ROADWAY UNLESS APPROVED BY THE ENGINEER.

REFER TO PLANS FOR TYPE OF CURB FACE TO BE USED. NO DIRECT PAYMENT WILL BE MADE FOR THE CURB FACES SHOWN ON THE ISLAND DETAILS. PAYMENT FOR THE CURB FACE WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEM "CONCRETE ISLAND".

DATE REV	DATE FILMED	DESCRIPTION
2-27-14		REVISED PLAN & ISOMETRIC VIEW
11-29-07		ADDED CHANNELIZATION ISLAND WITH TYPE C CURB FACE & REVISED DRIVEWAY SLOPE NOTE & VERTICAL ALIGNMENT DETAIL
11-10-05		REV. APRON SLOPE & DEPTH OF AGG. BASE.
8-22-02		ADDED ISLAND DETAILS & NOTES
3-30-00		REV. MOD. CURB WIDTH & TRANS. NOTE
11-19-98		REVISED NOTES
11-18-98		REDRAWN AND REISSUED

ARKANSAS STATE HIGHWAY COMMISSION
DETAILS OF DRIVEWAYS & ISLANDS
STANDARD DRAWING DR-1

22 ARDOT DRIVEWAY
N.T.S.

STAMPS
ETC Engineers & Architects, Inc.
No. C-462

STAMPS
SHAWKAT M. ALI
01/06/2022

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE-II

DETAILS

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: HB
Checked By: SA
DATE: OCTOBER 21, 2021

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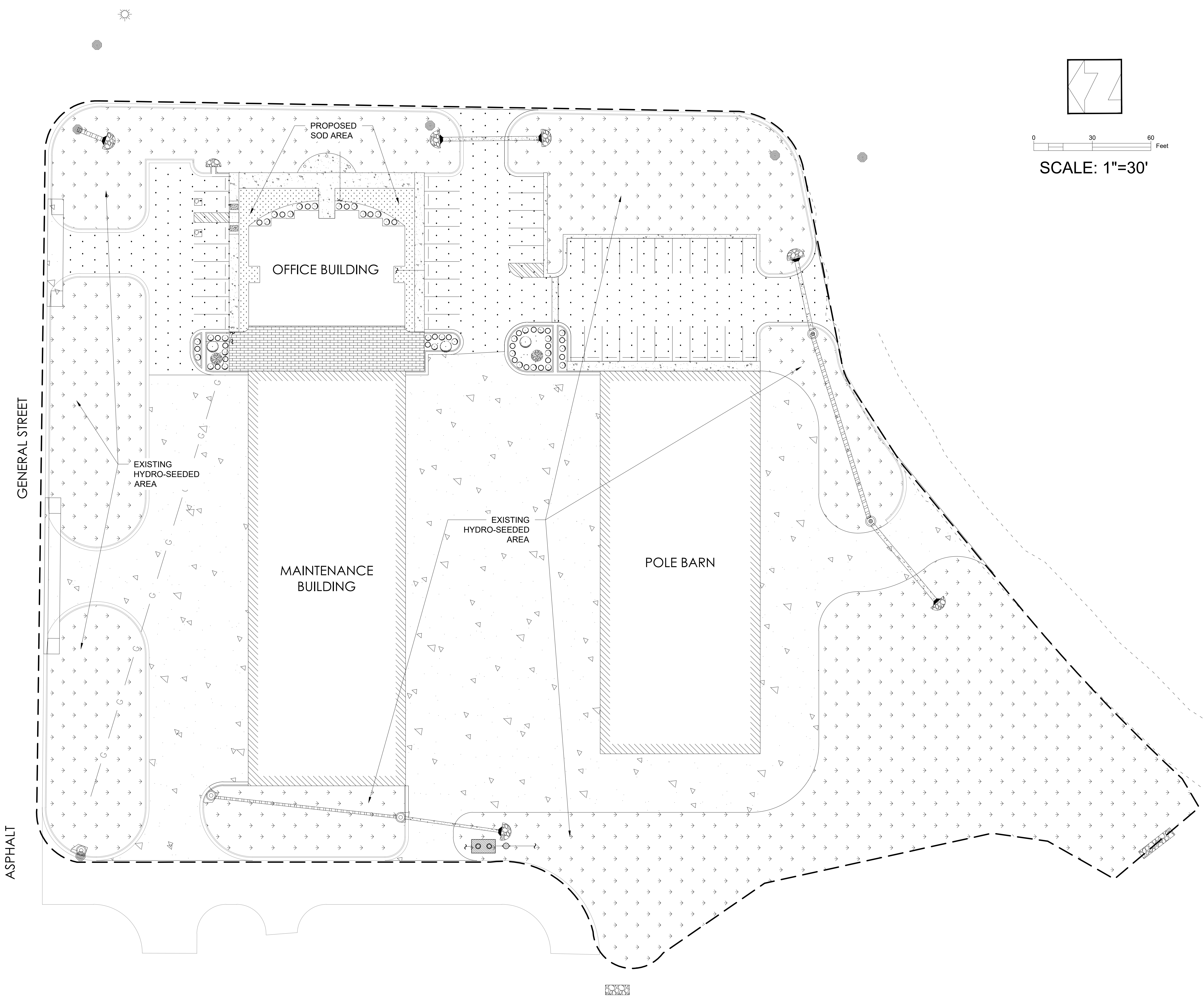


SCALE: 1"=30'

LANDSCAPE NOTES:

1. PLANT MATERIAL USED SHALL CONFORM TO THE "AMERICAN STANDARDS FOR NURSERY STOCK, 1-73," GRADE #1, AMERICAN ASSOCIATION OF NURSERYMEN INC., OR EQUIVALENT.
2. SINGLE TRUNK TREES SHALL BE MINIMUM OF 3" CALIPER MEASURED 12 (TWELVE) INCHES ABOVE GRADE AT TIME OF PLANTING FOR 50% OF THE TREES AND 2" CALIPER FOR THE REMAINING 50%.
3. ALL PLANT MATERIAL EXCEPT TREES SHALL BE MIN. 1 GALLON CONTAINER SIZE.
4. ALL AREAS DESIGNATED TO RECEIVE GROUND COVER SHALL BE HAVE ALL SOIL FULLY COVERED WITH MULCH, ROCKS, BARK OR A COMBINATION THEREOF.
5. ALL PLANTS MUST BE MULCHED NO MORE THAN 3" WITH A NATURAL MATERIAL..
6. IN ALL LANDSCAPED AREAS TREES ARE REQUIRED TO BE SETBACK A MINIMUM DISTANCE OF 4' FROM CURBS OR PAVING.
7. ALL PLANTERS WITHIN THE VEHICULAR USE AREA SHALL BE PROTECTED BY A 6" CURB.
8. PLANT MATERIAL INSTALLED PER THIS PLAN ARE DEFINED AND SHALL BE SELECTED FROM THE LISTS BELOW.
9. 50% OF TREES SHALL BE DECIDUOUS AND 50% EVERGREEN.
10. 75% OF SHRUBS SHALL BE EVERGREEN.

IRRIGATION NOTES:

1. ALL SOD AND MULCH AREAS SHALL BE IRRIGATED BY MEANS OF AN AUTOMATIC SPRINKLER SYSTEM. CONTRACTOR SHALL PROVIDE IRRIGATION PLAN FOR ENGINEER / ARCHITECTS APPROVAL.
2. ALL TREES AND SHRUBS SHALL HAVE AN AUTOMATIC DRIP IRRIGATION SYSTEM.

ACCEPTABLE PLANT LIST

TREE SPECIES DECIDUOUS:

COMMON NAME	SCIENTIFIC NAME
HONEY LOCUST	GLEDITSIA TRIACANTHOS
PIN OAK	QUERCUS PALUSTRIS
SAWTOOTH OAK	QUERCUS ACUTISSIMA
WILLOW OAK	QUERCUS PHELLOS
CREPE MYRTLE	LAGERSTROEMIA INDICA
REDBUD	CERCOS CANADENSIS
RIVER BIRCH	BETULA NIGRA
WATER OAK	QUERCUS NIGRA

TREE SPECIES EVERGREEN:

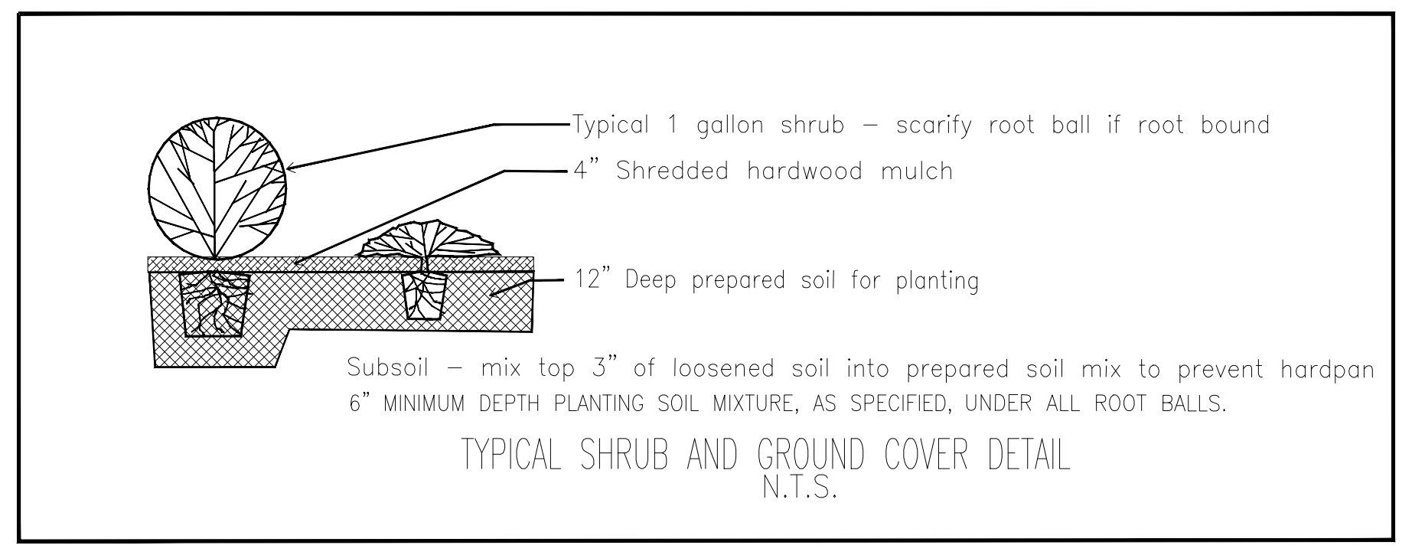
COMMON NAME	SCIENTIFIC NAME
LOBLOLLY PINE	PINUS TAEDA
YAUPON HOLLY	ILEX VOMITORIA

SHRUB SPECIES DECIDUOUS:

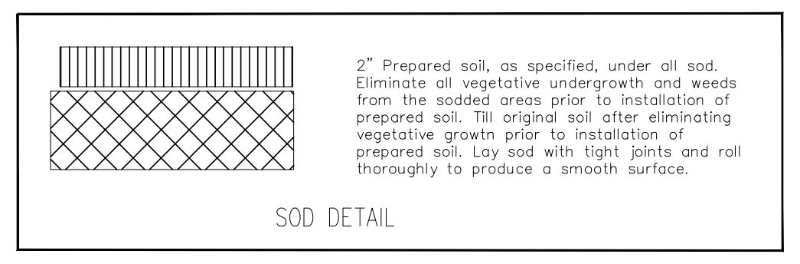
COMMON NAME	SCIENTIFIC NAME
NANDINA	NANDIAN DOMESTICA
DWARF CREPE MYRTLE	LAGERSTROEMIA INDIC
YEW	DWARF PURPLELEAF
JAPANESE BARBERRY	BERBERIS THUNBERGI ATROPURPUREA

SHRUB SPECIES EVERGREEN:

COMMON NAME	SCIENTIFIC NAME
EVERGREEN HOLLIES	ILEX SPECIES NANDIAN DOMESTICA
JUNIPER SPECIES	JUNIPERIUS SPECIES PRIMARY


Typical 1 gallon shrub – scarify root ball if root bound
4" Shredded hardwood mulch
12" Deep prepared soil for planting
Subsoil – mix top 3" of loosened soil into prepared soil mix to prevent hardpan
6" MINIMUM DEPTH PLANTING SOIL MIXTURE, AS SPECIFIED, UNDER ALL ROOT BALLS.

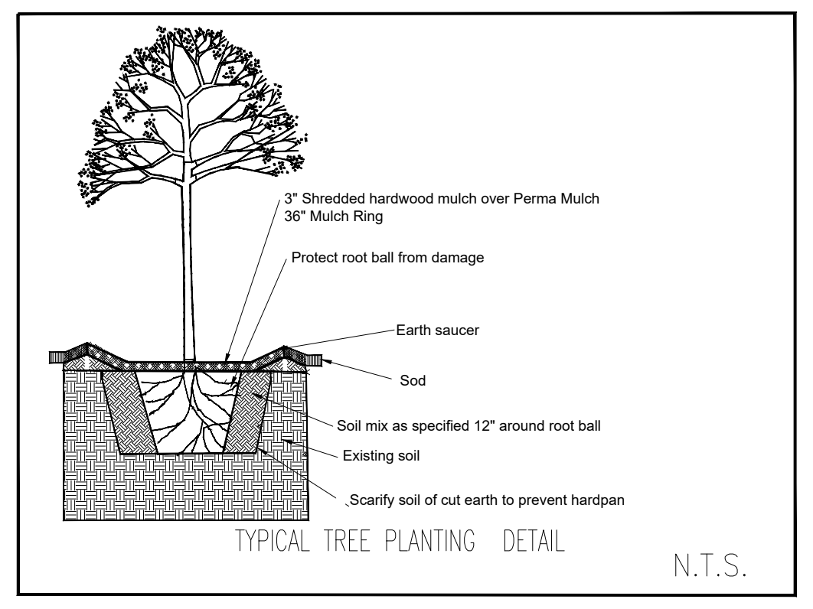
TYPICAL SHRUB AND GROUND COVER DETAIL
N.T.S.


2" Prepared soil, as specified, under all sod. Eliminate all vegetative undergrowth and weeds from the sodded areas prior to installation of prepared soil. Till original soil after eliminating vegetative growtn prior to installation of prepared soil. Lay sod with tight joints and roll thoroughly to produce a smooth surface.

SOD DETAIL

Soil mix shall be enriched with generous amounts of weed–free composted organic material, such as rice hulls, manure, compost, etc. Except for on steep slopes where 100% compost shall be applied, planting medium shall consist of 50% compost and 50% concrete sand, and mixed or tilled in thoroughly. If clay soil exists, it must be amended with generous amounts of sand and compost to improve soil drainage. Subsoil must be scarified to a depth of at least 3" to avoid drainage problems (hardpan).
All areas shall have positive drainage away from any building. 36" diameter Perma Mulch rings shall be installed at the base of all newly planted trees. All mulch rings shall have a 3" layer of shredded hardwood mulch, per detail above.

PLANTING DETAILS


3" Shredded hardwood mulch over Perma Mulch
36" Mulch Ring
Protect root ball from damage
Earth saucer
Sod
Soil mix as specified 12" around root ball
Existing soil
Scarify soil of cut earth to prevent hardpan

TYPICAL TREE PLANTING DETAIL
N.T.S.

LEGEND

BOUNDARY LINE THIS SURVEY	———	FIRE HYDRANT	⊚	TELEPHONE MANHOLE	Ⓣ	DECIDUOUS TREE	✺
ADJOINING PROPERTY LINES PLOTTED FROM DEEDS	———	FOUND MONUMENT	◉	TELEPHONE MARKER	▲	EVERGREEN TREE	○
GLO SUBDIVISION LINES	—— ——	SET MONUMENT	○	WATER VALVE	WV ⋈	DECIDUOUS SHRUB	⊙
CENTER LINE	—— – ——	GUY WIRE	⊥	WATER METER	Ⓦ	EVERGREEN SHRUB	◌
EXISTING FENCE	———	POWER POLE	∅	GAS VALVE	Ⓖ	BENCHMARK	◕
OVERHEAD ELECTRIC	—— E ——	LIGHT POLE	-○-	GAS METER	⊡	SOD	▨
WATER LINE	—— W ——	ELECTRICAL BOX	□	SANITARY MANHOLE	⊜	AREA INLET (AI)	◎
SANITARY SEWER	—— S ——	CABLE PEDESTAL	⊠	STORM SEWER MANHOLE	Ⓢ	CURB INLET (CI)	◎
TELEPHONE LINE	—— T ——	PHONE PEDESTAL	⊞	CATCH BASIN	□	GRATE INLET (GI)	◎
		GROUNDCOVER	▨	CONCRETE	▨	EXISTING DRAINAGE CULVERT	◆
		ASPHALT	▨	STAMPED CONCRETE	▨		

STAMPS

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STAMPS

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01/06/2022

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE-II

LANDSCAPE PLAN

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: HB
Checked By: SA

DATE: OCTOBER 21, 2021

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ABBREVIATION LEGEND

A.R.	ANCHOR RODS
ADD'L	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
B PL	BASE PLATE
BF	BOTTOM OF FOOTING
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BP	BOTTOM OF PIER
BRG	BEARING
BTWN	BETWEEN
C	CHANNEL SHAPE (i.e. C8x11.5)
C	COLD FORMED C SHAPE
C.G.	CENTER OF GRAVITY
CJ	(KEYED) CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
DBL	DOUBLE
DEG	DEGREES
DIA	DIAMETER
DIM	DIMENSION
DLH	DEEP LONGSPAN JOIST (i.e. 60DLH12)
DSE	COLD-FORMED DOUBLE SLOPED EAVE STRUT
DTL	DETAIL
DWLS	DOWELS
EA	EACH
EBC	EXTENDED BOTTOM CHORD
EJ	EXPANSION JOINT
EL.	ELEVATION
ELEV	ELEVATION
EMBED	EMBEDMENT LENGTH
EOS	EDGE OF SLAB
ERECT	ERECTION
EWEF	EACH WAY, EACH FACE
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FV	FIELD VERIFY
FAS	FROM ADJACENT SPAN
FFE	FINISHED FLOOR ELEVATION
FIN FLR EL	FINISHED FLOOR ELEVATION
FS	FAR SIDE
FTG	FOOTING
Fy	STEEL YIELD STRENGTH
G	JOIST GIRDER (i.e. 24G8N7K)
GA	GAUGE
GB	GRADE BEAM
HORIZ	HORIZONTAL
HP	H-PILE SHAPE (i.e. HP8x36)
HS	HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION (STEEL)
I/S	INSIDE
INFO	INFORMATION
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JT	JOINT
k	K-JOIST (i.e. 12k1 S.J.)
K	KIPS (KILO-POUNDS)
k/ft	KIPS PER FOOT
kcs	CONSTANT SHEAR JOIST (i.e. 12kcs2 S.J.)
KD	KILN-DRIED
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE (i.e. L3x3x1/4)
LH	LONGSPAN JOIST (i.e. 32LH05)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LW	LONG WAY
LWB	LAM. WOOD BEAM (i.e. LWB3x11)
M.B.	METAL BUILDING
MC	MOMENT CONNECTION
MAT'L	MATERIAL
MAX	MAXIMUM
MC	MISC. CHANNEL SHAPE (i.e. MC12x10.6)
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC.	MISCELLANEOUS
MPH	MILES PER HOUR
MTL	METAL
N	JOIST SPACES ON GIRDER
NO.	NUMBER
N.S.	NON-SHRINK
NS	NEAR SIDE
NTS	NOT TO SCALE
o.c.	ON CENTER
O/S	OUTSIDE
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP.	OPPOSITE
OSB	ORIENTED STRAND BOARD
P##	DRILLED PIER (##-DIA IN INCHES)
PF###	PAD FOOTING (###-SIZE IN FEET)
P/T	POST-TENSIONED
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
RE:	REFERENCE
REINF	REINFORCING
REQ'D	REQUIRED
RTU	ROOF TOP UNIT
S	STANDARD STEEL SHAPE (i.e. S10x35)
SCHED.	SCHEDULE
SECT	SECTION
SH	COLD-FORMED HAT SHAPE
SIM	SIMILAR
S.J.	STEEL JOIST (i.e. 12k1 S.J.)
SJ	(SAWN) CONTROL JOINT
SQ	SQUARE
SSE	COLD-FORMED SINGLE SLOPED EAVE STRUT
STIFF	STIFFENER
SW	SHORT WAY
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEMP	TEMPERATURE
TF	TOP OF FOOTING
TOC	TOP OF COLUMN
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TP	TOP OF PIER
TYP	TYPICAL
UE	COLD-FORMED UNIVERSAL EAVE STRUT
UH	COLD-FORMED UNIVERSAL HAT SHAPE
UNO	UNLESS NOTED OTHERWISE
VER	VERIFY
VERT	VERTICAL
vs	VS JOIST (i.e. 2.5vs1)
W	WIDE FLANGE SHAPE (i.e. W8x10)
WP	WORK POINT
w/	WITH
w/o	WITHOUT
WT	T SHAPE (i.e. WT8x13)
WWR	WELDED WIRE REINFORCING (i.e. WIRE MESH)
Z	COLD FORMED Z SHAPE

STRUCTURAL NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL CONTRACT DOCUMENTS AND INFORM THE ARCHITECT OF CONFLICTS OR DISCREPANCIES PRIOR TO BIDDING, FABRICATION, AND CONSTRUCTION.
2. IN CASES OF DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE THE FIELD VERIFICATION OF ALL EXISTING SITE CONDITIONS SUCH AS EXISTING FLOOR ELEVATIONS, EXISTING FOOTING ELEVATIONS, EXISTING UTILITIES, ETC, WHETHER NOTED OR NOT IN THE CONTRACT DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS, DISCREPANCIES OR UNKNOWN CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION.
4. REPRODUCTION OF CONTRACT DRAWINGS, IN ANY FORM, WILL NOT BE ACCEPTED AS SHOP DRAWINGS.
5. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER-OF-RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL FOR REVIEW. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION.
6. CONTRACTOR SHALL PROVIDE TEMPORARY GUYS AND BRACING AS REQUIRED DURING CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS, AND DECKING IS IN PLACE.
7. ACI, AISC, AITC AND AWS SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND CONSTRUCTION.

CONCRETE NOTES (03 00 00)

CONCRETE REINFORCEMENT (03 20 00)

1. CONCRETE REINFORCEMENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
2. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
3. PROVIDE THE FOLLOWING PROTECTIVE COVERING FOR ALL REINFORCING BARS UNLESS DETAILED OR NOTED OTHERWISE:

SLAB-ON-GRADE BARS (BOTTOM)	3" CLEAR
BELOW GRADE (CAST AGAINST EARTH)	3" CLEAR
BELOW GRADE (FORMED EDGE)	2" CLEAR
WALLS	2" CLEAR
ELEVATED SLABS	0.75" CLEAR

4. DO NOT CUT TIES OR CONTINUOUS BARS TO PROVIDE CLEARANCE FOR EMBEDDED ITEMS OR OTHER OBSTRUCTIONS. INDIVIDUAL BARS AND TIES MAY BE MOVED VERTICALLY UP TO 1.5" AS REQUIRED TO PROVIDE CLEARANCE FOR EMBEDS, HOOKS, ETC. DO NOT HEAT REINFORCING TO BEND IT.
5. IF DOWELS OR VERTICAL REINFORCING ARE CUT OR SEVERELY BENT, CONTRACTOR MAY BE REQUIRED TO REMOVE THE CONCRETE BACK TO THE PREVIOUS POUR JOINT AND REPLACE THE DAMAGED BARS AND CONCRETE AT THE CONTRACTOR'S EXPENSE.
6. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER-OF-RECORD PRIOR TO FABRICATION.
7. REINFORCING BARS MARKED AS CONTINUOUS SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICES ONLY.
8. ALL TENSION LAP SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE.
9. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP REINFORCEMENT 8 INCHES ON SIDES AND ENDS. MAINTAIN WIRE 1 TO 2 INCHES BELOW TOP SURFACE OF SLAB-ON-GRADE, UNLESS NOTED OTHERWISE. WELDED WIRE REINFORCEMENT MUST BE PLACED ON CHAIRS OR BOLSTERS AS REQUIRED TO MAINTAIN POSITION IN THE SLAB.
10. ONCE SHOP DRAWINGS HAVE BEEN REVIEWED, DO NOT ADD REINFORCING OR INFORMATION TO PREVIOUSLY SUBMITTED SHEETS FOR SUBSEQUENT SUBMITTALS UNLESS SHOP DRAWINGS ARE BEING RESUBMITTED AFTER BEING RETURNED "NOT REVIEWED".
11. WHERE ANCHOR RODS ARE CAST INTO CONCRETE, PROVIDE SUPPLEMENTAL REINFORCING EACH WAY, TIED NEAR THE TOP AND BOTTOM OF ALL ANCHOR RODS TO THE ADJACENT REBAR TO SECURE RODS DURING CONCRETE PLACEMENT. (MINIMUM SIZE #4)

CAST-IN-PLACE CONCRETE (03 30 00)

1. CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DESIGN DATA TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
2. CONCRETE SHALL HAVE AT LEAST THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:

A. FOOTINGS, GRADE BEAMS & DRILLED PIERS	3000 PSI
B. STAIR LANDINGS & STAIR TREADS	4000 PSI
C. REINFORCED CMU & BOND BEAM FILL	(SEE MASONRY NOTES)
D. SLABS-ON-GRADE, WALLS, PILASTERS & PEDESTALS	4000 PSI
E. ELEVATED SLABS	4000 PSI

3. **SEE CONCRETE MIX DESIGN TABLE**
4. PROPORTIONS OF CONCRETE MIX DESIGNS SHALL BE DETERMINED BY THE PROCEDURES ESTABLISHED IN SECTION 5.3 OF ACI 318-11.
5. MIX DESIGN MAY INCLUDE (TYPE C) FLYASH AS A REPLACEMENT FOR PORTLAND CEMENT UP TO A MAXIMUM OF 20% OF THE TOTAL CEMENTIOUS MATERIAL. DO NOT USE A FLYASH CONTAINING CONCRETE MIX WHEN THE TEMPERATURE DURING PLACEMENT OR CURING IS PROJECTED TO FALL BELOW 60 DEGREES FAHRENHEIT.
6. MIX DESIGN MAY INCLUDE WATER REDUCING ADMIXTURES CONFORMING TO ASTM C494, TYPE A, TO PROVIDE WORKABILITY AND SPECIFIED SLUMP WITHOUT EXCEEDING SPECIFIED WATER/CEMENT RATIOS. WATER SHALL NOT BE ADDED ON SITE WITHOUT PRIOR APPROVAL. ANY APPROVED WATER AMOUNTS ADDED ON SITE MUST BE RECORDED & REPORTED BY THE TESTING AGENCY.
7. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 5.5% AIR ENTRAINMENT (±1.5%). DO NOT EXCEED 3% AIR CONTENT IN CONCRETE RECEIVING A STEEL TROWEL FINISH.
8. FLOWABLE FILL SHALL MEET THE FOLLOWING REQUIREMENTS:

A. MINIMUM 28 DAY COMPRESSIVE STRENGTH	1000 PSI
B. MINIMUM PORTLAND CEMENT CONTENT	188 LBS PER CUBIC YARD
C. MINIMUM FLYASH CONTENT	376 LBS PER CUBIC YARD
D. MAXIMUM PERMISSIBLE W/C RATIO	0.95

MASONRY NOTES (04 00 00)

1. ALL CONCRETE MASONRY UNITS (CMU) SHALL COMPLY WITH ASTM C90, AND HAVE A MINIMUM NET COMPRESSIVE STRENGTH OF 1900 PSI. SIZES SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS.
2. TYPE S MORTAR SHALL BE USED ABOVE AND BELOW GRADE. MIX MORTAR IN ACCORDANCE WITH ASTM C270. USE TYPE I PORTLAND CEMENT (TYPE III MAY BE USED FOR COLD WEATHER CONSTRUCTION) MEETING ASTM C1329, HYDRATED LIME MEETING ASTM C207 AND AGGREGATE MEETING ASTM C144.
3. FILL ALL BOND BEAMS, ALL CMU CELLS WITH VERTICAL REINFORCING OR EXPANSION BOLTS, AND ALL CELLS BELOW GRADE WITH 3000 PSI GROUT MEETING THE FOLLOWING REQUIREMENTS:
   - A. USE A MINIMUM OF 5.5 BAGS OF PORTLAND CEMENT PER CUBIC YARD.
   - B. MAXIMUM WATER/CEMENT RATIO BY WEIGHT SHALL BE 0.54.
   - C. WATER-REDUCING ADMIXTURE MEETING ASTM C494 SHALL BE USED TO PROVIDE SUFFICIENT FLOWABILITY TO READILY FILL CELLS WITH A REASONABLE AMOUNT OF RODDING. ADDITIONAL WATER WILL NOT BE ALLOWED AFTER INITIAL MIXING.
   - D. AGGREGATE SHALL BE WELL GRADED WITH A MAXIMUM SIZE OF 3/8".
   - E. ALTERNATE MIX DESIGNS WILL BE CONSIDERED IF SUBMITTED TO THE ARCHITECT FOR APPROVAL AFTER CONTRACT IS AWARDED. ALTERNATE DESIGNS MUST SHOW SUFFICIENT FLOWABILITY CHARACTERISTICS AND A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI.
5. MAXIMUM HEIGHT OF ALL GROUT FILL SHALL NOT EXCEED 4'-0" UNLESS CLEANOUT AND INSPECTION HOLE IS PROVIDED AT THE BOTTOM OF THE POUR.
6. ALL CMU SHALL BE REINFORCED WITH #4 VERTICAL AND DOWELS AT 2'-8" ON CENTER UNLESS SPECIFICALLY NOTED OTHERWISE OR NOTED AS UNREINFORCED MASONRY ON THE PLANS. WHERE SPLICES ARE REQUIRED, USE A LAP LENGTH OF AT LEAST 16 INCHES.
7. ALL VERTICAL CORNERS, VERTICAL END CELLS AND ONE CELL EACH SIDE OF ALL OPENINGS SHALL BE GROUTED AND REINFORCED WITH (1) #4 UNLESS NOTED OTHERWISE.
8. HORIZONTAL BOND BEAMS WITH (2) #5 CONTINUOUS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF ALL OPENINGS, AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS, AT THE TOP OF ALL PARAPETS OR WALLS AND AS SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS. BOND BEAMS ABOVE AND BELOW OPENINGS SHALL EXTEND AT LEAST 2'-0" BEYOND THE OPENING UNLESS NOTED OTHERWISE.
9. WHERE VERTICAL REINFORCING AND HORIZONTAL REINFORCING INTERSECT, ALL REINFORCING SHALL RUN CONTINUOUS.
10. HORIZONTAL REINFORCING SHALL BE CONTINUOUS AT CORNERS WITH 90-DEGREE BENDS OR CORNER BARS WITH EACH LEG EQUAL TO THE REQUIRED LAP LENGTH. (SEE TYPICAL CORNER BAR DETAIL)
11. BOND BEAMS WITH (2) #5 CONTINUOUS HORIZONTAL BARS SHALL PLACED AT A MAXIMUM SPACING OF 4'-0" ON CENTER VERTICALLY TO PROVIDE THE HORIZONTAL REINFORCING REQUIRED BY THE BUILDING CODE.

CAST-IN-PLACE CONCRETE MIX DESIGN TABLE

MIX DESIGN SHALL INCLUDE AT LEAST THE FOLLOWING AMOUNTS OF PORTLAND CEMENT MEETING ASTM C150 OR D595 PER CUBIC YARD OF CONCRETE. MAXIMUM WATER CONTENT SHALL NOT EXCEED 30 GAL/CUBIC YARD (250#/CY).

	NON-AIR ENTRAINED		AIR ENTRAINED		
28 DAY MIN. COMPRESSIVE STRENGTH	MIN. CEMENT CONTENT (LBS/YARD^3)	MAXIMUM PERMISSIBLE W/C RATIO	MIN. CEMENT CONTENT (LBS/YARD^3)	MAXIMUM PERMISSIBLE W/C RATIO	DESIGN SLUMP w/ WRA (+/-1")
3000	470	0.53	N/A	N/A	4"
4000	564	0.44	611	0.40	6"

METALS NOTES (05 00 00)

STRUCTURAL STEEL (05 12 00)

1. STRUCTURAL STEEL SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
2. ALL STRUCTURAL STEEL SHAPES SHALL BE AS FOLLOWS:
   - A. ALL WIDE FLANGE STRUCTURAL STEEL SHAPES (W) SHALL BE ASTM A992.
   - B. SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL BE ASTM A500, GRADE C, Fy = 50 KSI
   - C. ROUND HOLLOW STRUCTURAL SECTIONS (HSS) SHALL BE ASTM A500, GRADE C, Fy = 46 KSI
   - D. ROUND STEEL PIPES (P, PX, PXX) SHALL BE ASTM A53, GRADE B, FY = 35 KSI.
   - E. ALL OTHER STRUCTURAL STEEL (CHANNELS (C), ANGLES (L), PLATES (PL), ETC.) SHALL BE ASTM A36, UNLESS NOTED OTHERWISE.
4. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36. ALL ANCHOR RODS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5. STRUCTURAL BOLTS SHALL BE ASTM F3125 GRADE A325-N, (OR GRADE A490-N) UNLESS OTHERWISE NOTED.
6. BOLTS THRU WOOD BLOCKING SHALL BE ASTM A307. ALL BOLTS IN CONTACT WITH TREATED WOOD SHALL BE STAINLESS STEEL (TYPE 316L), OR HOT DIPPED GALVANIZED WITH A MINIMUM COATING THICKNESS OF 0.2 OUNCES PER SQUARE FOOT (ASTM A153).
7. POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF Fy=36ksi. ADHESIVE SHALL BE HILTI "HIT-RE 500-SD" SYSTEM (REF: ICC-ES ESR-2322), SIMPSON STRONG-TIE "SET-3G" SYSTEM (REF: ICC-ES AC308), DEWALT "PURE 110+" SYSTEM (REF: ISS-ES ESR 3298), (OR APPROVED EQUAL). (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
7. POST-INSTALLED EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI "KWIK BOLT TZ2" (REF: ICC-ES AC 193), SIMPSON STRONG-TIE "STRONG BOLT 2" (REF: ICC-ES ESR-3037), DEWALT "POWER STUD+ SD1+" (REF: ICC-ES ESR-2818), (OR APPROVED EQUAL) CARBON STEEL ANCHORS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
8. POST-INSTALLED SCREW ANCHORS SHALL BE HILTI "KWIK HUS EZ" (REF: ICC-ES ESR-3027), SIMPSON STRONG-TIE "TITEN HD" (REF: ICC-ES ESR-2713), DEWALT "SCREW BOLT" (REF: ICC ESR-3889), (OR APPROVED EQUAL), UNLESS NOTED OTHERWISE. (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
9. CONNECTIONS WITH HIGH STRENGTH BOLTS SHALL BE DESIGNED CONSIDERING BOLT THREADS INCLUDED IN THE SHEAR PLANE (A325-N). ALL BOLTING SHALL BE INSTALLED BY THE TURN-OF-THE-NUT METHOD, REMOVABLE LOAD INDICATOR BOLTS, OR CALIBRATED WRENCH. SNUG TIGHT BOLTING WILL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON CONTRACT DRAWINGS.
10. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE BEARING TYPE SELECTED TO SUPPORT ONE-HALF (1/2) OF THE MAXIMUM TOTAL UNIFORM LOAD CAPACITY OF THE BEAMS AS SHOWN IN TABLE 3-6 OF THE AISC MANUAL, 14TH EDITION, FOR THE GIVEN BEAM SIZE, SPAN AND GRADE OF STEEL SPECIFIED. THE EFFECTS OF ANY CONCENTRATED LOADS MUST BE TAKEN INTO ACCOUNT. CONNECTIONS SHALL BE DESIGNED CONSIDERING THREADS INCLUDED IN THE SHEAR PLANE (A325-N).
11. ALL WELDS SHALL BE E70XX, MINIMUM AND SHALL BE PERFORMED BY AWS CERTIFIED WELDERS, CERTIFIED WITHIN THE PREVIOUS TWELVE (12) MONTHS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE BUILDING AND COMPONENTS DUE TO FIRE HAZARDS FROM WELDING.
12. ALL STEEL LINTELS AND SHELF ANGLES SHALL BE COATED WITH A ZINC RICH PRIMER.
13. ALL STRUCTURAL STEEL EXPOSED TO WEATHER (SUCH AS MECHANICAL FRAMES) SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

METAL DECKING (05 31 00)

1. METAL DECKING SUPPLIER SHALL SUBMIT SHOP DRAWINGS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION
2. LONG SPAN ACOUSTICAL ROOF DECKING AT OFFICE BUILDING SHALL BE 3NIA20 PAINTED ROOF DECK ATTACHED TO THE STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS IN A 24/4 PATTERN (WELD AT EACH FLUTE, 8" O.C.) AND (5) BUTTON PUNCH SIDELAP FASTENERS BETWEEN SUPPORTS (24" O.C. MAX. SPACING).
3. POWDER ACTUATED OR PNEUMATIC FASTENERS MAY NOT BE SUBSTITUTED FOR PUDDLE WELDS.

COLD-FORMED STRUCTURAL STEEL FRAMING (05 41 00)

1. COLD-FORMED METAL FRAMING SUPPLIER SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
2. SHOP DRAWINGS SHALL DETAIL A COMPLETE SYSTEM SHOWING MEMBER SIZES, SPACING AND CONNECTIONS TO THE STRUCTURE.
3. ALL STRUCTURAL STUDS, TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A653/A653M.
4. ALL COLD-FORMED STEEL STUD SECTIONS ARE IDENTIFIED ACCORDING TO THE DESIGNATIONS GIVEN IN THE "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA) PRODUCT TECHNICAL INFORMATION MANUAL. SEE SSMA FOR MINIMUM SECTION PROPERTIES.

EXAMPLE: 600S162-43

600 = MEMBER DEPTH
(600 x 1/100 INCHES = 6")

S = STYLE
(S = STUD, T = TRACK, U = CHANNEL)

162 = FLANGE WIDTH
(162 x 1/100 INCHES = 1.625" = 1-5/8")

43 = MATERIAL THICKNESS
(43 = 43 MILS x1/1000 INCHES = 0.043")

YIELD STRENGTH SHALL BE 33 KSI UNLESS NOTED ON PLANS AS FOLLOWS:

600S162-43 (50 KSI) - FOR 50 KSI YIELD STRENGTH

5. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. PROVIDE COLUMNS BUILT-UP OF MULTIPLE STUDS (2 STUDS MIN.) FOR HEADER AND BEAM BEARING.
7. ALL STUDS AT LOADBEARING WALLS SHALL BE CUT FULL LENGTH WITH TRACKS (TOP & BOTTOM) INSTALLED TIGHT AGAINST ENDS OF STUD. NO GAPS BETWEEN END OF STUDS AND TRACK WILL BE ALLOWED IN LOAD BEARING STUDS.
8. ALL COLD-FORMED STEEL FRAMING SHAPES (SUCH AS Z-PURLINS, C-PURLINS, HAT CHANNELS AND EAVE STRUTS) ARE IDENTIFIED ACCORDING TO THE DESIGNATIONS GIVEN IN THE LIGHT GAGE STEEL INSTITUTE (LGSI) "LIGHT GAGE STRUCTURAL STEEL FRAMING SYSTEM DESIGN HANDBOOK". SEE LGSI FOR MINIMUM SECTION PROPERTIES.

WOOD NOTES (06 00 00)

LUMBER (06 10 00)

1. ALL WOOD MEMBERS THAT ARE IN CONTACT WITH CONCRETE OR MASONRY AND ALL LUMBER EXPOSED TO WEATHER AND EXTERIOR CONDITIONS SHALL BE PRESSURE TREATED WITH WATER BORNE TREATMENT TO A NET RETENTION OF 0.3 POUNDS PER CUBIC FOOT. (SEE STRUCTURAL STEEL FRAMING NOTE #5 FOR BOLTS IN CONTACT WITH PRESERVATIVE TREATED WOOD).
2. ALL STRUCTURAL LUMBER SHALL BE #2 KD SOUTHERN PINE.
3. PROVIDE 2x4 OR 2x6 SOLID WOOD BLOCKING AT ALL RIDGES, VALLEYS & HIPS. PROVIDE 2x8 RAFTERS AT 24" ON CENTER AT ALL ROOF OVERBUILDS. PROVIDE 2x4 OR 2x6 OUTRIGGERS AT ALL OVERHANGS AND PROVIDE SOLID BLOCKING BETWEEN OUTRIGGERS AT SUPPORT.

STRUCTURAL PANELS (06 12 00)

1. ROOF SHEATHING FOR OFFICES AND TOOL STORAGE AT MAINTENANCE BUILDING SHALL BE 5/8", APA RATED, ORIENTED STRAND BOARD (OSB) (SPAN INDEX 40/20). ATTACHMENT SHALL BE WITH 10d COMMON NAILS AT 6" ON CENTER AT SUPPORTED EDGES AND AT 12" ON CENTER ALONG ALL INTERMEDIATE SUPPORTS. PLY-CLIPS SHALL BE USED AT ALL FREE EDGES, ONE AT MID-POINT BETWEEN ALL SUPPORTS..
2. WALL SHEATHING SHALL BE 1/2" APA RATED, ORIENTED STRAND BOARD (OSB) (SPAN RATING 24/16) ATTACHMENT SHALL BE WITH 8d COMMON NAILS AT 6" ON CENTER AT SUPPORTED EDGES AND AT 12" ON CENTER ALONG ALL INTERMEDIATE STUDS.
3. PNEUMATIC NAILING MAY BE SUBSTITUTED FOR COMMON NAILS UNDER THE FOLLOWING CONDITIONS:
   - A. PNEUMATIC NAIL SUBSTITUTE FOR 8d COMMON NAILS SHALL HAVE A MINIMUM DIAMETER OF 0.131 INCHES AND LENGTH OF 2 ½INCHES.
   - B. PNEUMATIC NAIL SUBSTITUTE FOR 10d COMMON NAILS SHALL HAVE A MINIMUM DIAMETER OF 0.148 INCHES AND LENGTH OF 3 INCHES.

T-HEAD NAILS OR STAPLES ARE NOT ACCEPTABLE.

PRE-ENGINEERED METAL BUILDING SYSTEMS (13 34 19)

1. METAL BUILDING MANUFACTURER SHALL PROVIDE CALCULATIONS AND SHOP DRAWINGS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
2. METAL BUILDING SHOP DRAWINGS WILL NOT BE REVIEWED IF THE LAYOUT DOES NOT FOLLOW THE LAYOUT PROPOSED IN THE CONTRACT DRAWINGS AND IF ANY DEVIATIONS FROM THE PROPOSED LAYOUT ARE NOT CLEARLY MARKED ON THE SHOP DRAWINGS OR APPROVED IN WRITING PRIOR TO SUBMITTAL.
3. METAL BUILDING FRAMING LAYOUT AND MEMBERS SHOWN ARE SUGGESTED ONLY. MANUFACTURER IS RESPONSIBLE FOR COORDINATING REQUIREMENTS WITH OWNER AND PROVIDING A COMPLETE STRUCTURAL FRAMING SYSTEM DESIGNED BY THE MANUFACTURER. METAL BUILDING MANUFACTURER SHALL COORDINATE ALL DIMENSIONS, ELEVATIONS, BRACING, AND SIZES AND SHAPES OF MEMBERS WITH OWNER PRIOR TO FABRICATION AND CONSTRUCTION. ALL MEMBERS, CONNECTIONS AND DECKING NOT SPECIFICALLY SIZED ON DRAWINGS SHALL BE DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER.
4. METAL BUILDING VERTICAL BRACING SHALL CONSIST OF PORTAL FRAMES AT THE LOCATIONS SHOWN ON THE PLANS. THE METAL BUILDING MANUFACTURER SHALL COORDINATE THE LOCATION OF ALL BRACES TO MINIMIZE INTERFERENCE WITH ARCHITECTURAL FEATURES. ROD OR CABLE BRACES MAY NOT BE SUBSTITUTED WHERE PORTAL FRAMES ARE SHOWN. WHERE X-BRACES ARE USED, THE METAL BUILDING MANUFACTURER SHALL CLEARLY IDENTIFY TO THE ARCHITECT ALL INTERFERENCES WITH ARCHITECTURAL FEATURES. WHERE ARCHITECTURAL FEATURES (COLUMN SURROUNDS, CEILINGS, FURR DOWNS, ETC) ARE PROVIDED TO COVER OR SURROUND THE METAL BUILDING COMPONENTS (COLUMNS, FRAMES, ETC.), THE METAL BUILDING COMPONENTS SHALL BE SIZED TO STAY WITHIN THE LIMITS OF THE ARCHITECTURAL FEATURES UNLESS THE ARCHITECT IS NOTIFIED IN WRITING PRIOR TO SUBMISSION OF THE APPROVAL DRAWINGS AND APPROVAL IS GIVEN FOR AN EXCEPTION.
5. MAXIMUM PURLIN LIVE LOAD DEFLECTION FOR PURLINS SUPPORTING CEILINGS SHALL NOT EXCEED SPAN/360 OR 1" WHICHEVER IS LESS. MAXIMUM PURLIN LIVE LOAD DEFLECTION FOR PURLINS NOT SUPPORTING CEILINGS SHALL NOT EXCEED SPAN/180.
6. FRAME LIVE LOAD DEFLECTION SHALL NOT EXCEED THE LESSER OF SPAN/360 OR 2" FOR FRAMES SUPPORTING CEILINGS. FRAME LIVE LOAD DEFLECTION SHALL NOT EXCEED SPAN/180 FOR FRAMES NOT SUPPORTING CEILINGS. LIVE LOAD REDUCTIONS SHALL NOT BE ALLOWED OR USED FOR DEFLECTION OR STRENGTH CALCULATIONS.
7. MAXIMUM GIRT LATERAL DEFLECTION FROM WIND OR SEISMIC LOADS SHALL NOT EXCEED SPAN/240 FOR GIRTS PROVIDING LATERAL SUPPORT FOR METAL SIDING ONLY. MAXIMUM GIRT LATERAL DEFLECTION FROM WIND OR SEISMIC LOADS SHALL NOT EXCEED SPAN/360 FOR GIRTS PROVIDING LATERAL SUPPORT FOR MASONRY WALLS AND/OR INTERIOR METAL STUD WALLS.
8. MAXIMUM BUILDING SIDESWAY (DRIFT) FROM WIND OR GRAVITY LOADS SHALL NOT EXCEED WALL HEIGHT/240. SEISMIC DRIFT SHALL BE WITHIN THE LIMITS PRESCRIBED IN ASCE 7, TABLE 12.12-1 WITH ACTUAL DRIFT DETERMINED PER SECTION 12.8.6.
9. THE GENERAL CONTRACTOR AND METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR OVERALL BUILDING COORDINATION. ALL COORDINATION OF THE INTERFACE AND COMPATIBILITY BETWEEN THE METAL BUILDING AND THE ARCHITECTURAL FEATURES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE METAL BUILDING MANUFACTURER..
10. DESIGN OF THE METAL BUILDING USING DEAD, LIVE, SEISMIC, WIND AND SNOW LOADS IN THE CODE REQUIRED COMBINATIONS SHALL BE PERFORMED BY THE METAL BUILDING MANUFACTURER.
11. DESIGN OF METAL BUILDING FRAMES, PURLINS, AND GIRTS SHALL INCLUDE THE WEIGHT OF ALL SUPPORTED MECHANICAL EQUIPMENT (ROOFTOP EQUIPMENT AND SUSPENDED EQUIPMENT) IN ADDITION TO THE REQUIRED UNIFORM COLLATERAL LOADS.

EARTHWORK & FOUNDATION NOTES (31 00 00)

EXCAVATION & FILL (31 22 00 & 31 23 23)

1. ALL UNDERCUTTING, SITE PREPARATION, FILL SELECTION, BACKFILLING AND COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND SOILS ENGINEER'S RECOMMENDATIONS.
2. SELECT FILL BENEATH THE BUILDING AND WITHIN 10' OF THE BUILDING PERIMETER SHALL BE PLACED IN LIFTS NOT EXCEEDING 8" LOOSE THICKNESS AND COMPACTED TO AT LEAST 95% OF MAXIMUM MODIFIED PROCTOR DRY DENSITY (ASTM D1557). THE IN-PLACE DENSITY AND MOISTURE CONTENT SHALL BE ESTABLISHED AND APPROVED FOR EACH LIFT PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS.

SPREAD FOOTINGS (31 24 50)

1. BOTTOM OF FOOTING ELEVATIONS (BF) SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY AND ARE NOT NECESSARILY TO BE USED FOR CONSTRUCTION. THE SOILS ENGINEER OR HIS REPRESENTATIVE SHALL BE ENGAGED TO INSPECT ALL FOOTING EXCAVATIONS TO VERIFY THAT THE REQUIRED ALLOWABLE BEARING CAPACITY IS ATTAINABLE. BOTTOM OF FOOTING ELEVATIONS SHALL BE ADJUSTED PER THE ON-SITE RECOMMENDATIONS OF THE SOILS ENGINEER OR HIS REPRESENTATIVE.
2. ALL SPREAD FOOTINGS SHALL BE FOUNDED IN THE NATURAL SOILS (STRATUM 1) WITH ALLOWABLE NET BEARING CAPACITY OF AT LEAST 4000 PSF OR IN PROPERLY PLACED AND COMPACTED SELECT FILL WITH ALLOWABLE NET BEARING CAPACITY OF AT LEAST 4000 PSF WHILE MAINTAINING DIFFERENTIAL HEAVE OR SETTLEMENT AND TOTAL HEAVE OR SETTLEMENT WITHIN MAXIMUM LIMITS OF ½" AND 1", RESPECTIVELY. CONTRACTOR SHALL VERIFY DEPTH TO HIGHLY PLASTIC SOILS AT THE SITE FOR ALL AREAS WITHIN 10' OF THE BUILDING PERIMETERS. WHERE HIGHLY PLASTIC SOILS OCCUR AT DEPTHS SHALLOWER THAN 36" BELOW THE BOTTOM OF FOOTINGS, CONTRACTOR SHALL UNDERCUT TO PROVIDE AT LEAST 36" OF PROPERLY PLACED AND COMPACTED SELECT FILL BELOW BOTTOM OF FOOTINGS. WHERE UNDERCUT AND/OR FILL IS REQUIRED, AREA OF UNDERCUT/FILL SHALL EXTEND AT LEAST 10' BEYOND BUILDING PERIMETERS. (REF: REPORT OF GEOTECHNICAL ENGINEERING EXPLORATION, PROPOSED CITY MAINTENANCE FACILITY, BATESVILLE, ARKANSAS, DATED JULY 27, 2021 BY MTA ENGINEERS.)
3. CONTRACTOR SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO PROVIDE GEOTECHNICAL ENGINEERING SERVICES AS REQUIRED, INCLUDING BUT NOT LIMITED TO DETERMINATION OF UNDERCUT DEPTHS, FILL SELECTION, FILL PLACEMENT, FILL COMPACTION, VERIFICATION OF ALLOWABLE NET BEARING CAPACITY OF SOILS BELOW FOOTINGS, AND VERIFICATION THAT ESTIMATED TOTAL AND DIFFERENTIAL SETTLEMENT AND HEAVE ARE WITHIN STATED ALLOWABLE LIMITS. .
4. MAINTAIN FINISHED GRADE (AND/OR BOTTOM OF FOOTING ELEVATIONS) TO PROVIDE AT LEAST 2'-0" COVER ABOVE THE BOTTOM OF ALL EXTERIOR FOOTINGS FOR FROST PROTECTION.

DESIGN LOADS:

DEAD LOADS:		WEIGHT OF THE STRUCTURE
ROOF LIVE LOAD:		20 PSF
GROUND SNOW LOAD	Pg:	10 PSF
WIND SPEED FOR RISK CATEGORY II & EXP. C		Vult: 115 MPH Vasd: 89 MPH
BUILDING RISK CATEGORY		II
WIND EXPOSURE CATEGORY		C
INTERNAL PRESSURE COEFFICIENT	GCpi:	+/-0.18
COMP. & CLADDING WIND PRESSURE	Pnet30:	SEE ASCE 7-10, TABLE 30.7-2
MAPPED SPECTRAL RESPONSE ACCELERATIONS	Ss: S1:	0.557 0.211
SITE CLASS		B
SPECTRAL RESPONSE COEFFICIENTS	Sds: Sd1:	0.334 0.112
SEISMIC DESIGN CATEGORY		C
BASIC SEISMIC-FORCE-RESISTING SYSTEM(S) (PER ASCE 7-10, TABLE 12.2-1)		MOMENT FRAME SYSTEM ORDINARY STEEL MOMENT FRAMES
DESIGN BASE SHEAR	V:	0.08W
SEISMIC RESPONSE COEFFICIENT	Cs:	0.08
RESPONSE MODIFICATION FACTOR	R:	3.5
ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE METHOD (ASCE 7-10, TAB. 12.6-1 & SECT. 12.8)
SEISMIC ZONE PER A.C.A. 12-80-101 ET. SEQ. ZONE:		1
CODES:		2012 ARKANSAS FIRE PREVENTION CODE A.C.A. 12-80-101 ET. SEQ. (ARKANSAS STATE LAW)

THE FOUNDATIONS FOR THE OFFICE BUILDING, MAINTENANCE BUILDING, AND VEHICLE STORAGE BUILDING AND STRUCTURAL FRAMING FOR THE OFFICE BUILDING HAVE BEEN DESIGNED TO RESIST THE LOADS AND FORCES STATED ABOVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ARKANSAS FIRE PREVENTION CODE AND A.C.A. 12-80-101 ET. SEQ.

SEE METAL BUILDING MANUFACTURER FOR SEISMIC DESIGN OF METAL BUILDINGS AND COMPONENTS FOR THE MAINTENANCE BUILDING AND VEHICLE STORAGE BUILDING.

PRE-ENGINEERED METAL BUILDING DESIGN LOADS FOR MAINTENANCE BUILDING AND VEHICLE STORAGE BUILDING:

ROOF DEAD LOAD:	ACTUAL WEIGHT OF THE STRUCTURE
COLLATERAL LOAD:	HANGING DUCTS, ELECTRICAL, SPRINKLERS, LIGHTS, CEILINGS, ETC. (7 PSF MINIMUM COLLATERAL DEAD LOAD. INCLUDE ACTUAL WEIGHT OF SUSPENDED MECHANICAL EQUIPMENT IN ADDITION TO COLLATERAL LOAD.)
ROOF LIVE LOAD:	20 PSF (PURLINS & FRAMES). LIVE LOAD REDUCTIONS WILL NOT BE ALLOWED.
SNOW LOAD:	(SEE DESIGN LOADS ABOVE)
WIND LOAD:	(SEE DESIGN LOADS ABOVE)
SEISMIC LOAD:	(SEE DESIGN LOADS ABOVE)
CODES:	2012 ARKANSAS FIRE PREVENTION CODE MBMA METAL BUILDING SYSTEMS MANUAL (LATEST EDITION) A.C.A. 12-80-101 ET. SEQ. (ARKANSAS STATE LAW)

SPECIAL INSPECTION NOTES

1. SPECIAL INSPECTIONS SHALL BE REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE INSPECTION AGENTS.
2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO PERFORM THE REQUIRED INSPECTION TO THE SATISFACTION OF THE BUILDING OFFICIAL.
3. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS. INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
4. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
5. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES SHALL BE SUBMITTED TO THE OWNER, BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AT THE COMPLETION OF THE STRUCTURAL PORTION OF THE WORK.

SOIL TESTING AND INSPECTIONS

1. A QUALIFIED TESTING LABORATORY SHALL TEST ALL CONTROLLED STRUCTURAL FILL. A MINIMUM OF TWO SOIL COMPACTION TESTS SHALL BE MADE FOR EACH LIFT.
2. AFTER FOOTING EXCAVATIONS HAVE BEEN MADE TO DESIGN ELEVATIONS, THE INDEPENDENT TESTING AGENCY SHALL INSPECT AND TEST THE BEARING SOIL TO VERIFY THAT IT MEETS THE REQUIRED DESIGN CAPACITY.
3. DEPTH OF UNDERCUT, FILL SELECTION, FILL PROCEDURES, AND COMPACTION OF FILL SHALL BE DETERMINED BY GEOTECHNICAL ENGINEER.

CONCRETE CONSTRUCTION INSPECTIONS

1. INSPECT REINFORCING STEEL PRIOR TO PLACING CONCRETE. CHECK REINFORCING SIZE, SPACING AND LOCATION.
2. VERIFY SIZE, TYPE, EMBEDMENT DEPTH, PROJECTION AND QUANTITY OF ANCHOR BOLTS.
3. CYLINDERS SHALL BE MADE FOR DETERMINING THE CONCRETE STRENGTH FROM EACH CLASS OF CONCRETE TO BE PLACED. SAMPLES SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS. (EACH SAMPLE SHALL CONSIST OF 4 CYLINDERS MADE, HANDLED AND TESTED PER THE SPECIFICATIONS.)
4. EACH TIME THE CYLINDERS ARE MADE THE SLUMP, AIR CONTENT AND TEMPERATURE OF THE CONCRETE SHALL ALSO BE CHECKED.
5. THE CONTRACTOR'S METHOD OF MAINTAINING THE MINIMUM CURING TEMPERATURE AND CURING TECHNIQUE SHALL BE REVIEWED.
6. PROVIDE CONTINUOUS INSPECTION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS TO VERIFY THE INSTALLATION IS IN ACCORDANCE WITH STRUCTURAL DRAWINGS, EVALUATION SERVICE REPORT, AND MANUFACTURER'S INSTRUCTIONS. VERIFY LOCATION, EDGE DISTANCES, SPACING, DRILL BIT SIZE, HOLE DEPTH, HOLE CLEANING PROCEDURES, ANCHOR MATERIAL, EMBEDMENT, INSTALLATION PROCEDURES, INCLUDING CHECKING EXPIRATION DATE, PROPER MIXING OF ADHESIVE, AND INSTALLER TRAINING REQUIREMENTS.

MASONRY CONSTRUCTION INSPECTIONS

1. ALL MASONRY CONSTRUCTION FOR LOAD BEARING WALLS SHALL BE INSPECTED AND EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS FOR LEVEL A QUALITY ASSURANCE PROGRAM REQUIREMENTS AS OUTLINED IN TABLE 1.19 OF THE TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 STANDARDS.

STEEL CONSTRUCTION INSPECTION

1. STEEL FABRICATOR SHALL BE REGISTERED AND APPROVED IN ACCORDANCE WITH THE ARKANSAS FIRE PREVENTION CODE SECTION 1704.2.5.2 AND SHALL SUBMIT A CERTIFICATE OF COMPLIANCE - OR - THE FABRICATOR SHALL MAKE PROVISIONS FOR SHOP INSPECTION OF FABRICATION PROCEDURES & QUALITY CONTROL IN ACCORDANCE WITH SECTION 1704.2.5.1 BY AN INDEPENDENT INSPECTION AGENCY APPROVED BY THE OWNER, WITH RELATED COSTS INCLUDED IN THE BID.
2. PERIODICALLY VERIFY THAT THE PROPER MATERIALS FOR HIGH-STRENGTH BOLTS, STRUCTURAL STEEL AND WELD FILLER MATERIALS ARE BEING USED.
3. PERIODICALLY CHECK TIGHTENING OF HIGH-STRENGTH BOLTS USING THE TURN OF THE NUT METHOD WITH MATCH MARKING TECHNIQUES OR DIRECT TENSION INDICATOR BOLTS.
4. WELDING PROCEDURES, MATERIALS AND WELDER QUALIFICATIONS FOR ALL FIELD WELDING SHALL BE VERIFIED PRIOR TO THE START OF WORK.
5. PERIODIC INSPECTION OF WELDING IN PROGRESS AND VISUAL INSPECTION OF ALL FIELD WELDS SHALL BE MADE FOR ALL SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16" IN SIZE AND FOR STEEL DECK WELDING.
6. METAL BUILDING SUPPLIER SHALL DETERMINE THE SPECIAL INSPECTION REQUIREMENTS FOR ERECTION OF METAL BUILDING MEMBERS AND COMPONENTS.

WOOD CONSTRUCTION INSPECTIONS

1. PERIODICALLY VERIFY THAT THE PROPER SIZE, SPECIES, GRADE, SPACING, ETC. OF ALL WOOD FRAMING MEMBERS ARE USED.
2. PERIODICALLY VERIFY THAT THE PROPER CONNECTIONS ARE USED INCLUDING FRAMING ANCHORS, HANGERS, SIZE, SPACING & NUMBER OF NAILS, ETC.
3. PERIODICALLY VERIFY THAT ALL STRUCTURAL BRIDGING, BLOCKING AND BRACING IS PROPERLY INSTALLED.

STAMPS

No. 26

STAMPS

No. 5920
FRANK M. ALLISON
8/2/22

Engineering Consultants, Inc.
Structural Engineers
401 West Capitol Avenue, Suite 305
Little Rock, Arkansas 72201-3401
Phone No: (501) 376-3752

ECI Job No: 21-235

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
GENERAL NOTES

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: ECI
Checked By: ECI
DATE: JULY 29, 2022

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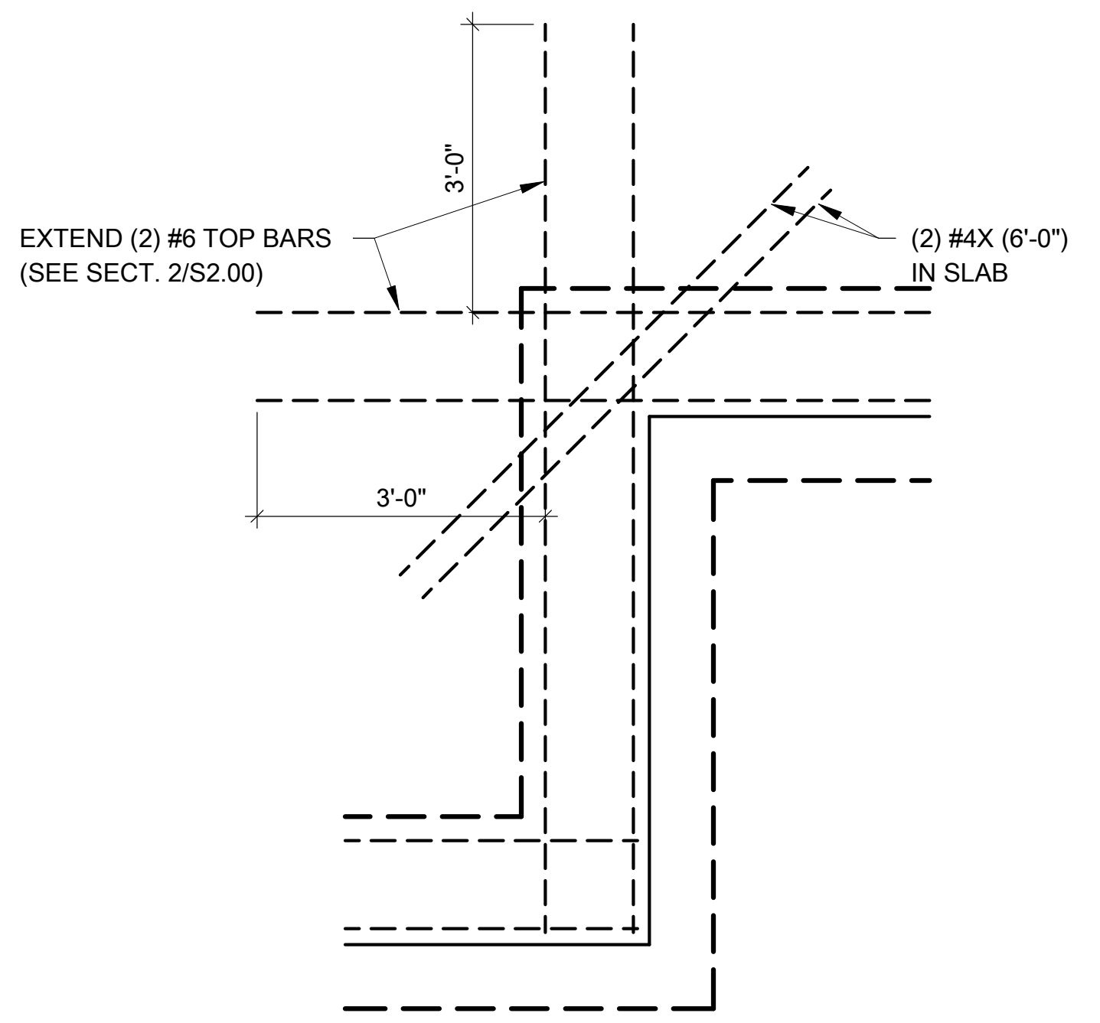
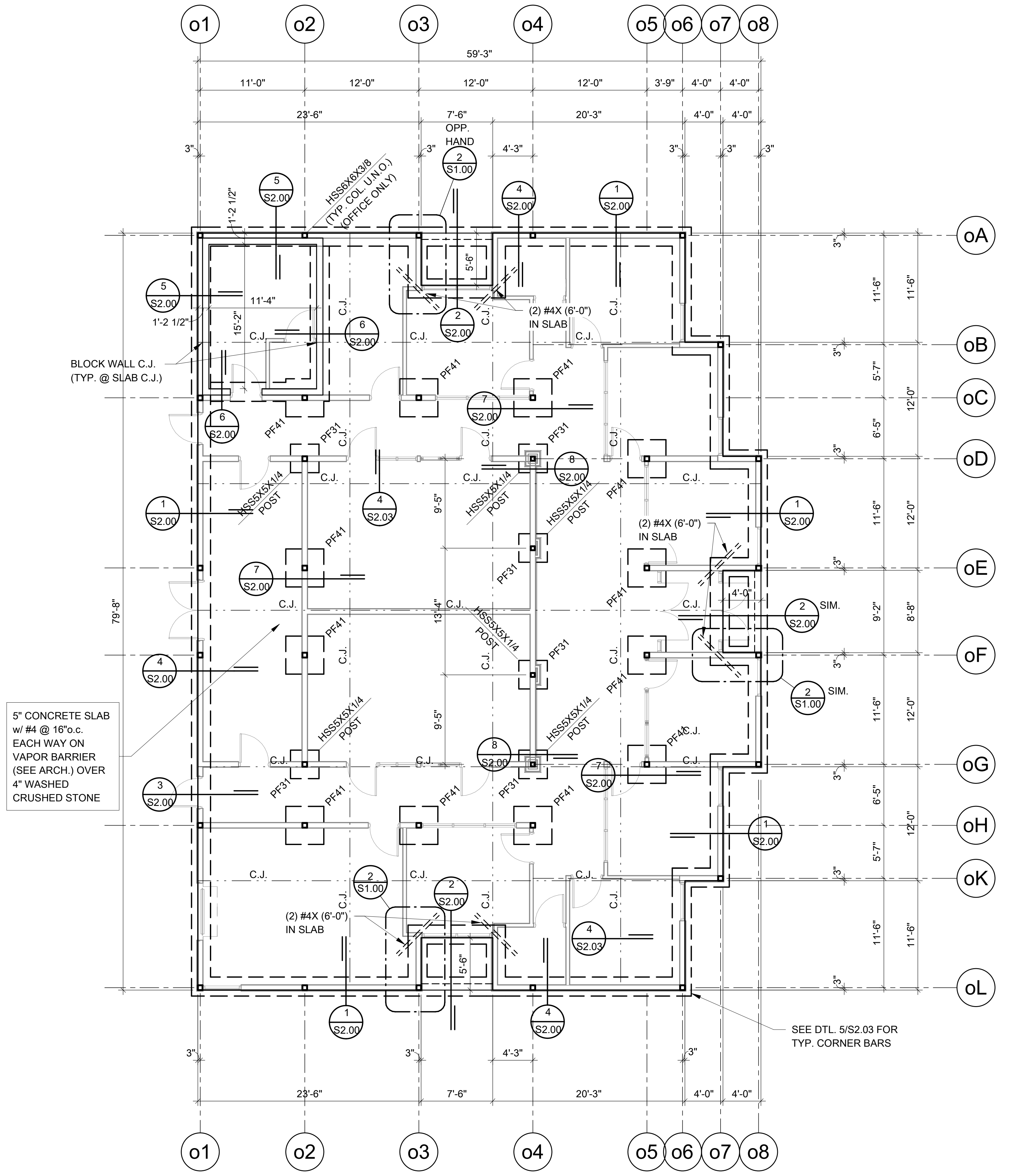


2 PLAN DETAIL

1/2" = 1'-0"



1 Foundation Plan - Office Bldg.

1/8" = 1'-0"

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Structural Engineers
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STAMPS

CERTIFICATE OF AUTHORIZATION
ENGINEERING CONSULTANTS, INC.
No. 26
ARKANSAS- ENGINEER

STAMPS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 5920
FRANK M. ALLISON
8/2/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
OFFICE BUILDING FOUNDATION PLAN

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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S1.00

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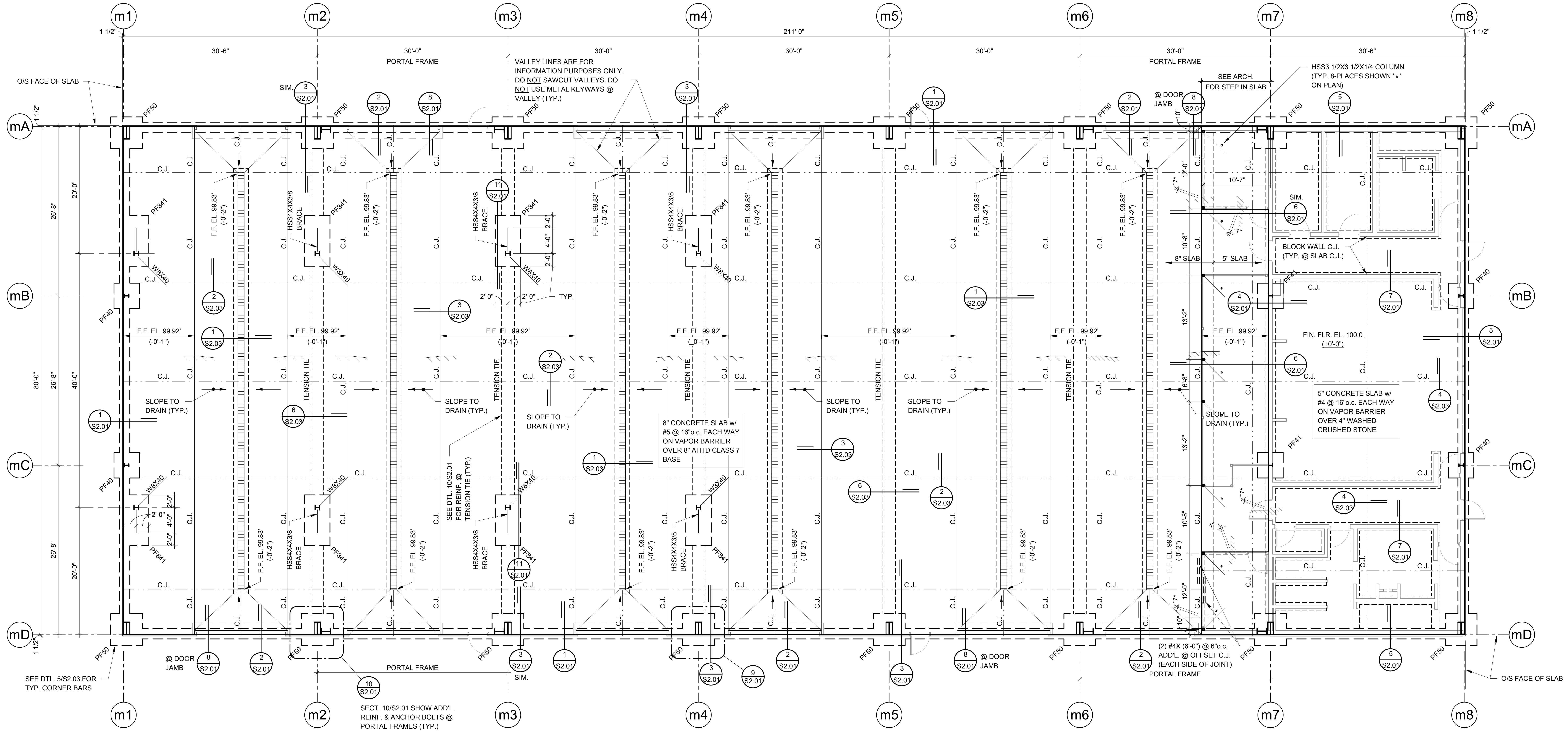

VALLEY LINES ARE FOR INFORMATION PURPOSES ONLY. DO NOT SAWCUT VALLEYS, DO NOT USE METAL KEYWAYS @ VALLEY (TYP.)

HSS3 1/2X3 1/2X1/4 COLUMN (TYP. 8-PLACES SHOWN '*' ON PLAN)

SEE ARCH. FOR STEP IN SLAB

BLOCK WALL C.J. (TYP. @ SLAB C.J.)

8" CONCRETE SLAB w/ #5 @ 16"o.c. EACH WAY ON VAPOR BARRIER OVER 8" AHTD CLASS 7 BASE

5" CONCRETE SLAB w/ #4 @ 16"o.c. EACH WAY ON VAPOR BARRIER OVER 4" WASHED CRUSHED STONE

SEE DTL. 10/S2.01 FOR REINF. @ TENSION TIE (TYP.)

SEE DTL. 5/S2.03 FOR TYP. CORNER BARS

SECT. 10/S2.01 SHOW ADD'L. REINF. & ANCHOR BOLTS @ PORTAL FRAMES (TYP.)

(2) #4X (6'-0") @ 6"o.c. ADD'L. @ OFFSET C.J. (EACH SIDE OF JOINT)

1 MAINTENANCE BUILDING FOUNDATION PLAN

1/8" = 1'-0"

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
MAINTENANCE BUILDING FOUNDATION PLAN

Revision	
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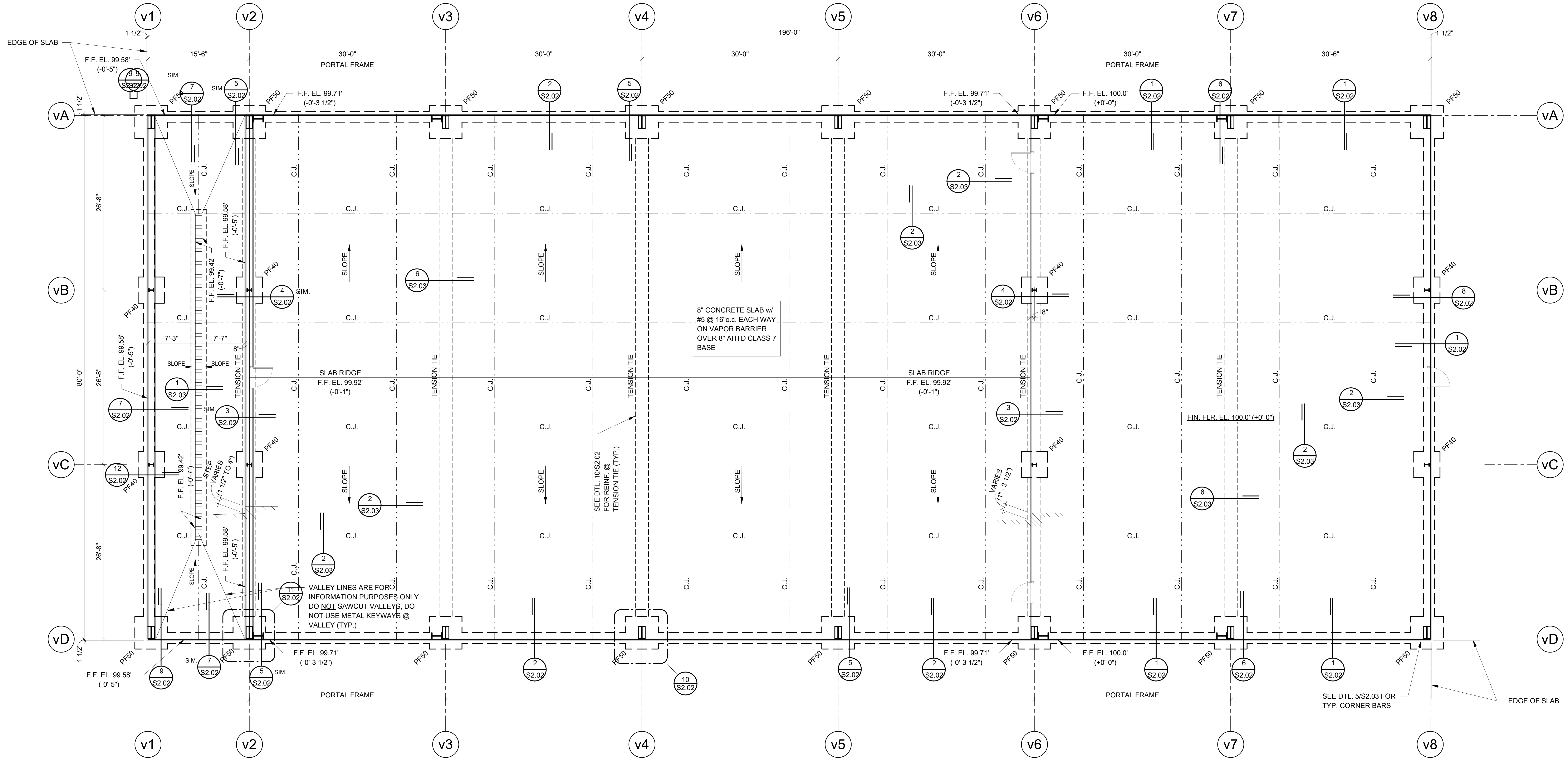
v1
v2
v3
v4
v5
v6
v7
v8
vA
vB
vC
vD
EDGE OF SLAB
1 1/2"
196'-0"
15'-6"
30'-0"
30'-6"
80'-0"
26'-8"
7'-3"
7'-7"
8"
PORTAL FRAME
F.F. EL. 99.58'
(-0'-5")
F.F. EL. 99.71'
(-0'-3 1/2")
F.F. EL. 100.0'
(+0'-0")
F.F. EL. 99.42'
(-0'-7")
SLAB RIDGE
F.F. EL. 99.92'
(-0'-1")
FIN. FLR. EL. 100.0' (+0'-0")
PF50
PF40
SIM.
C.J.
SLOPE
TENSION TIE
STEP VARIES (1 1/2" TO 4")
VARIES (1"- 3 1/2")
S2.02
S2.03
8" CONCRETE SLAB w/ #5 @ 16"o.c. EACH WAY ON VAPOR BARRIER OVER 8" AHTD CLASS 7 BASE
SEE DTL. 10/S2.02 FOR REINF. @ TENSION TIE (TYP.)
VALLEY LINES ARE FOR INFORMATION PURPOSES ONLY. DO NOT SAWCUT VALLEYS, DO NOT USE METAL KEYWAYS @ VALLEY (TYP.)
SEE DTL. 5/S2.03 FOR TYP. CORNER BARS

1 VEHICLE STORAGE BUILDING FOUNDATION PLAN

1/8" = 1'-0"

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

VEHICLE STORAGE BUILDING FOUNDATION PLAN

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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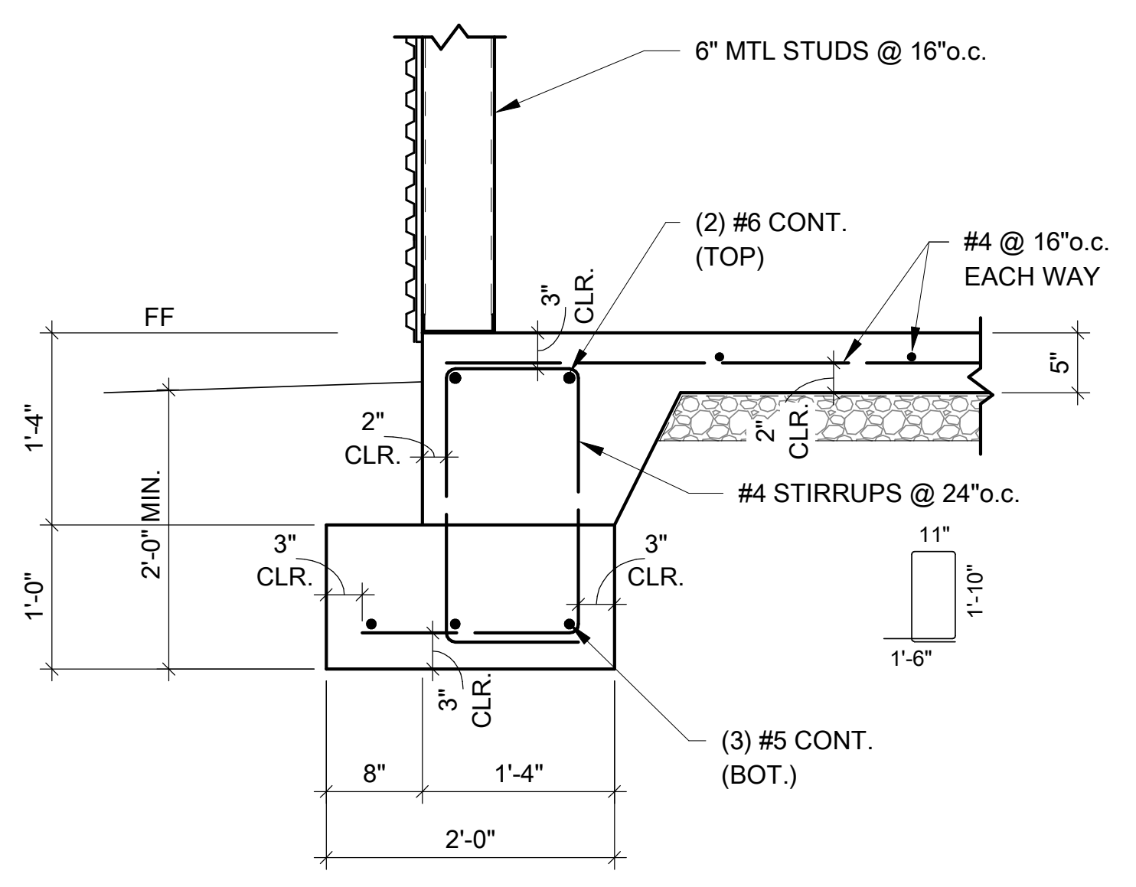
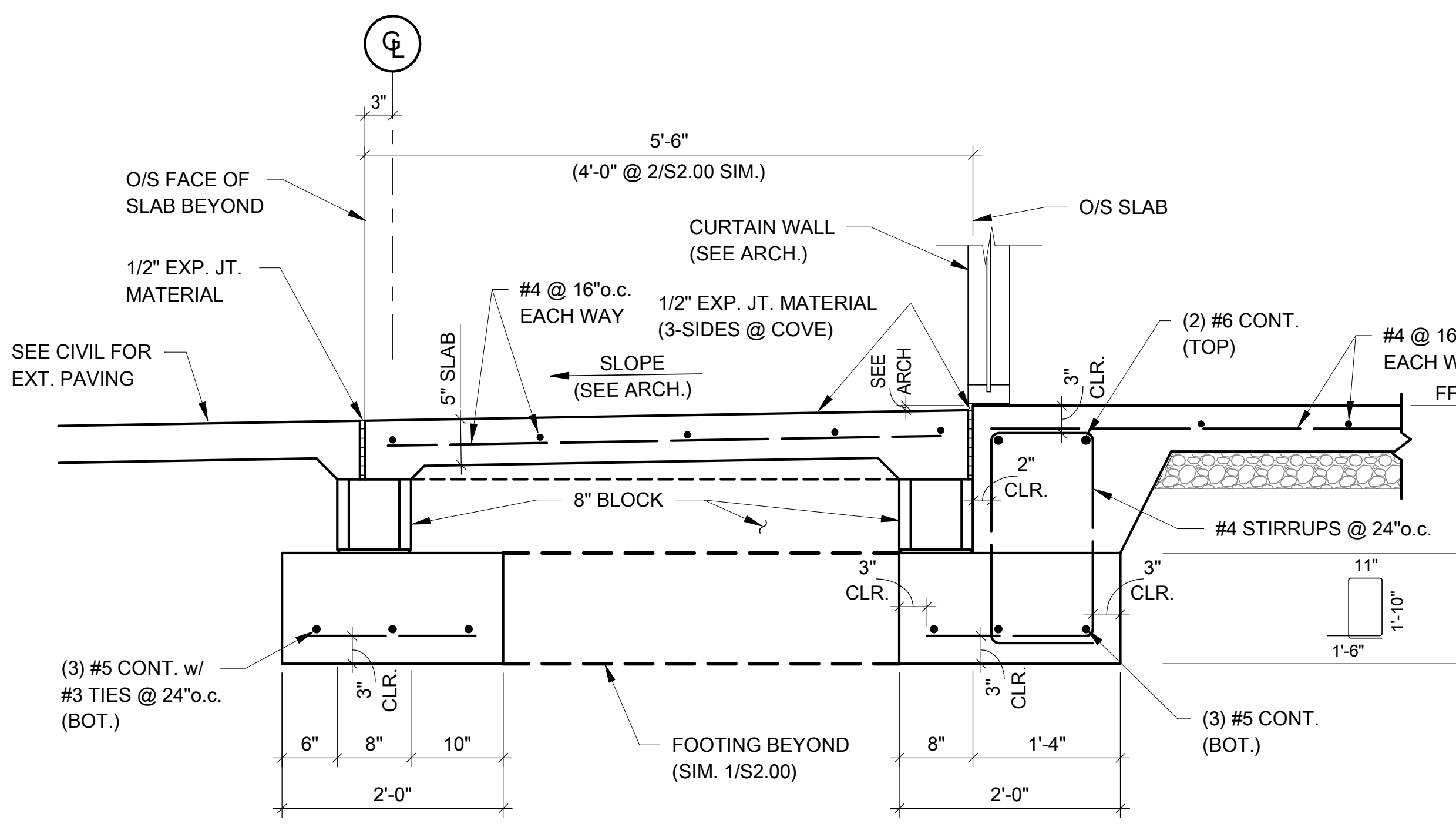
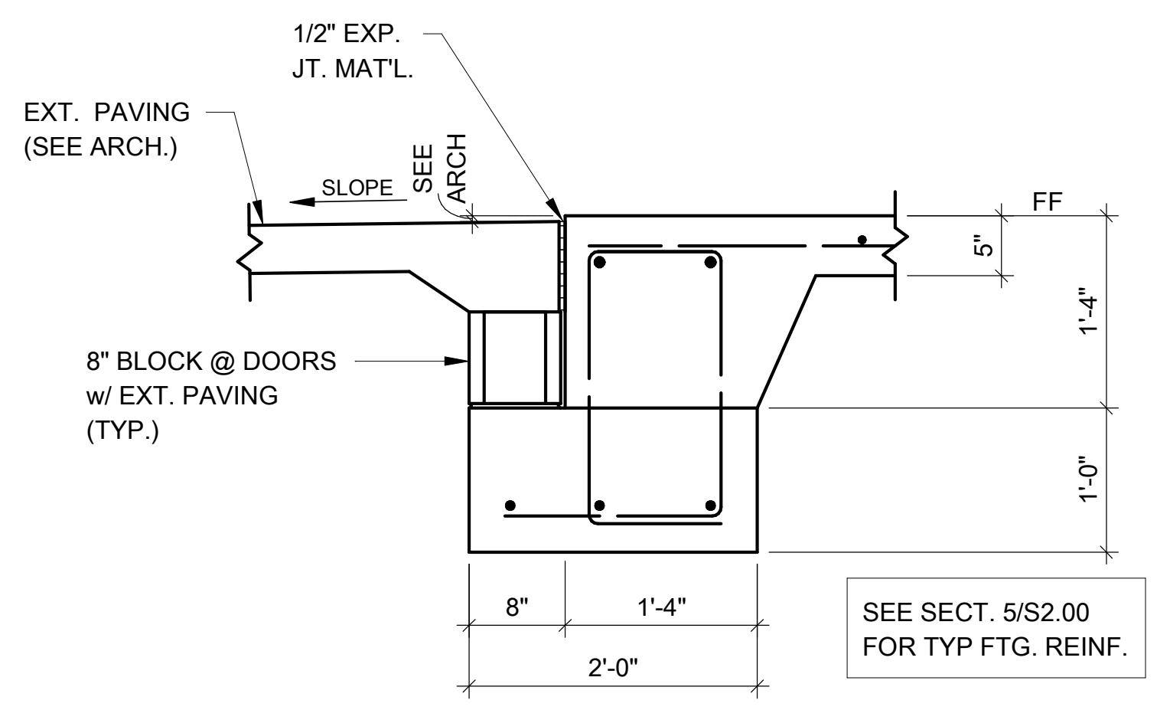


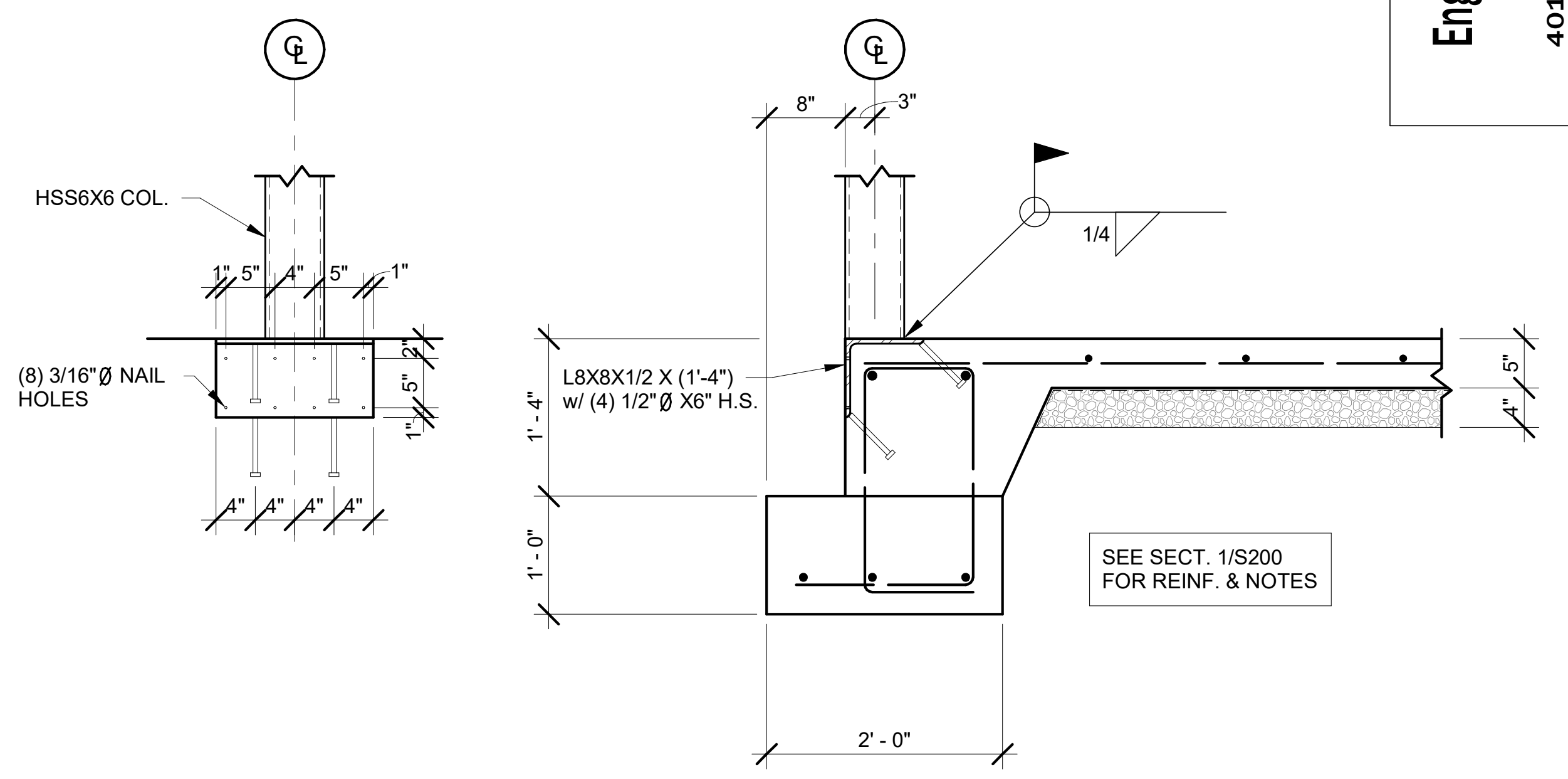
① SECTION
3/4" = 1'-0"



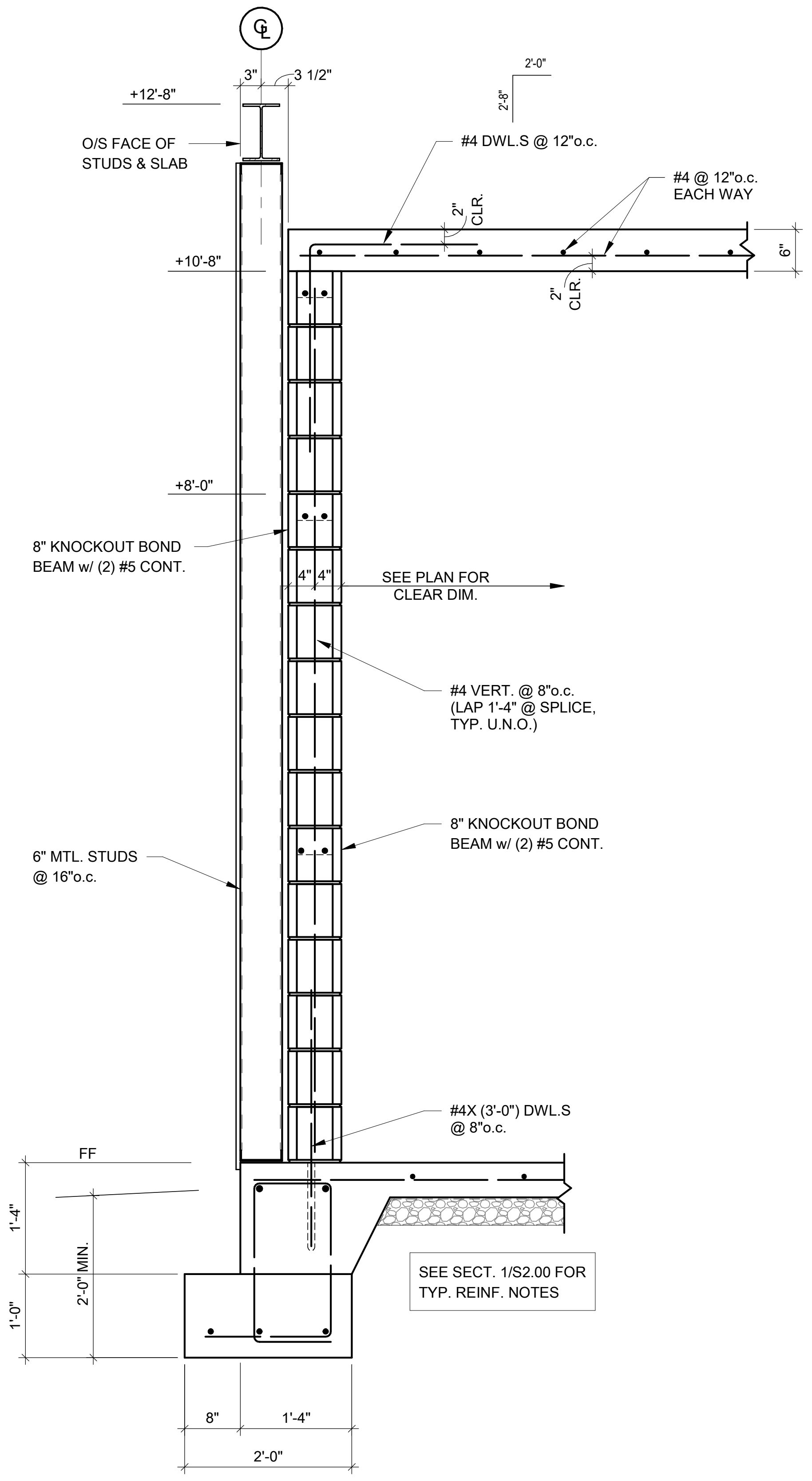
② SECTION
3/4" = 1'-0"



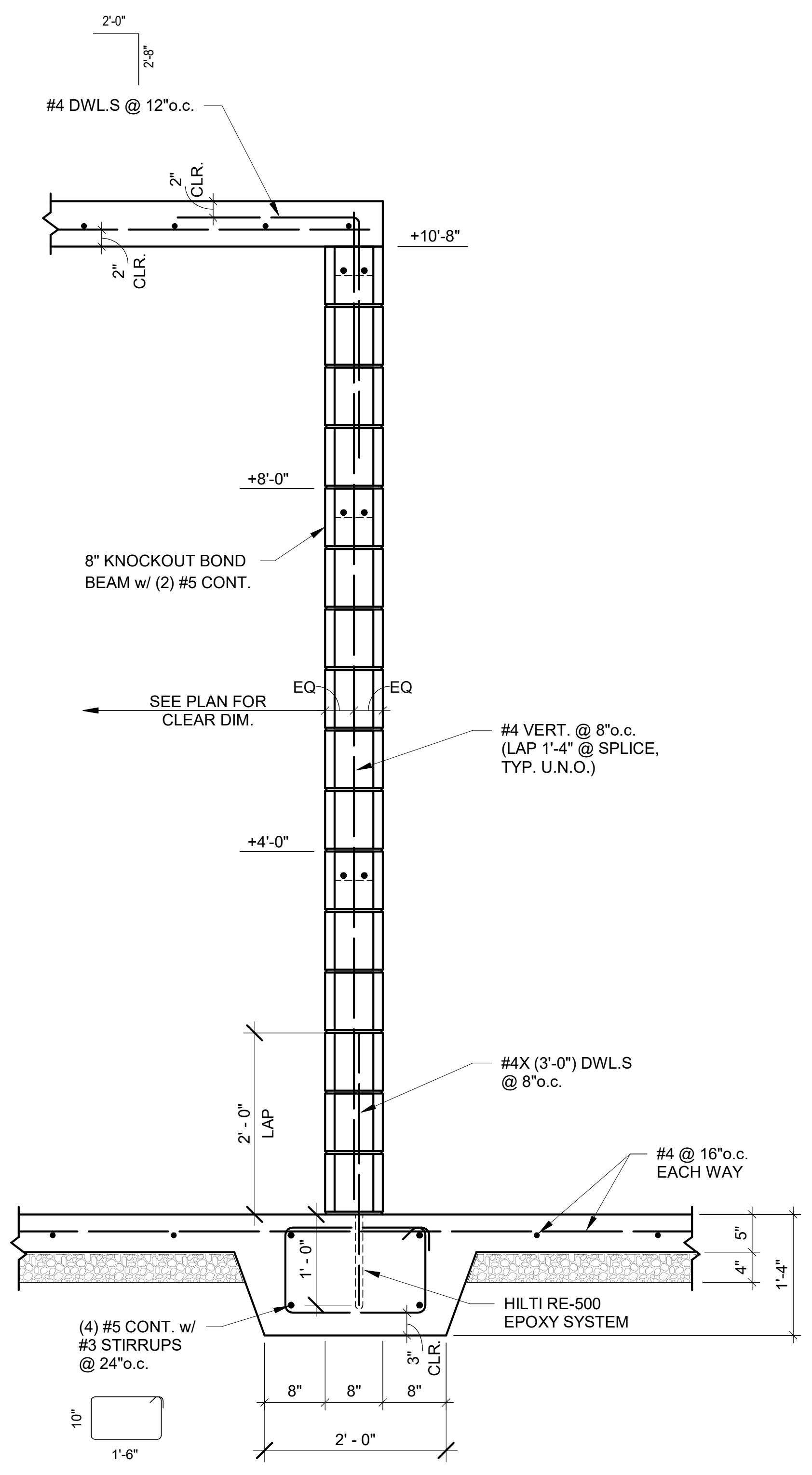
③ SECTION
3/4" = 1'-0"



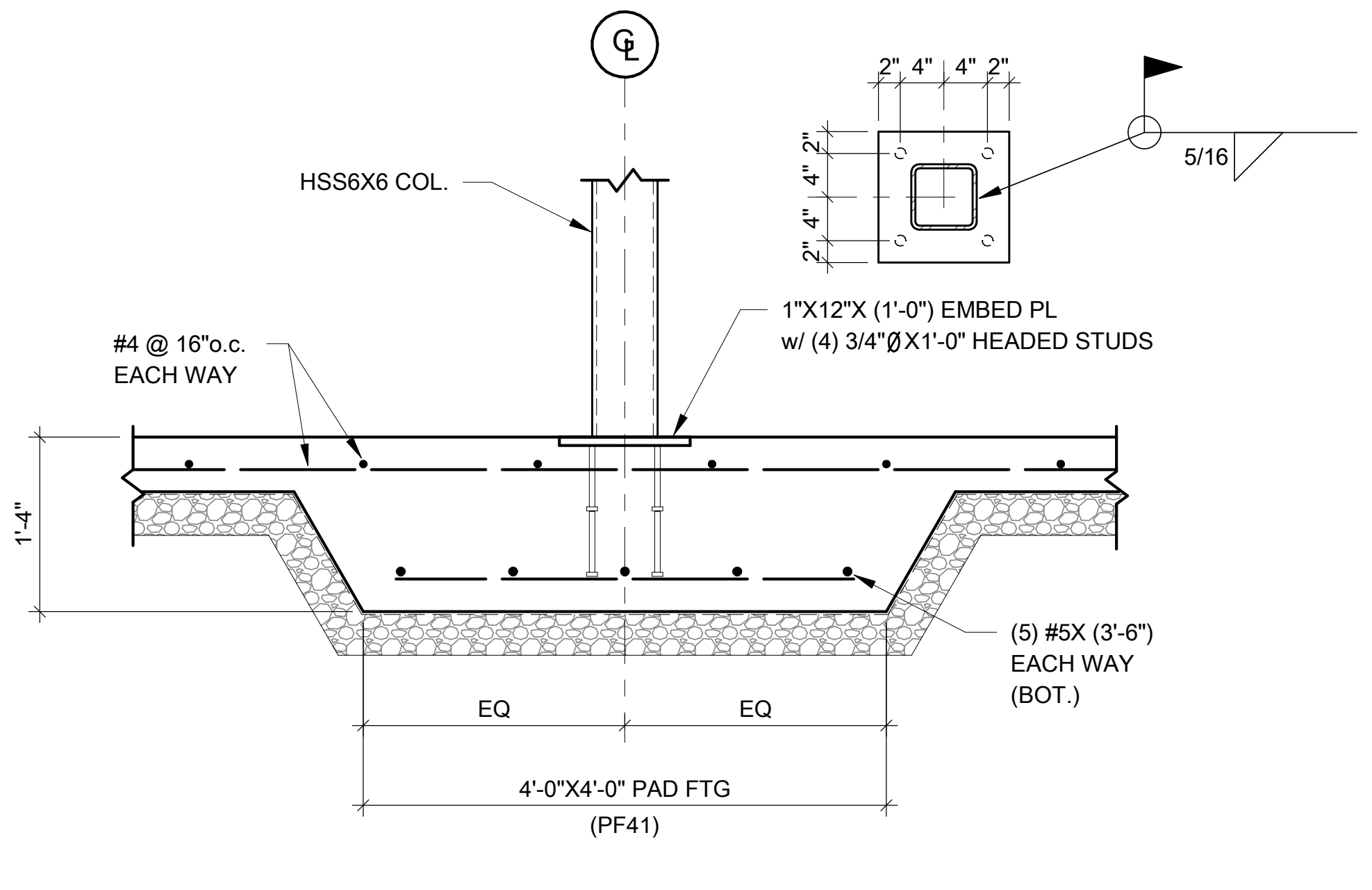
④ SECTION
3/4" = 1'-0"



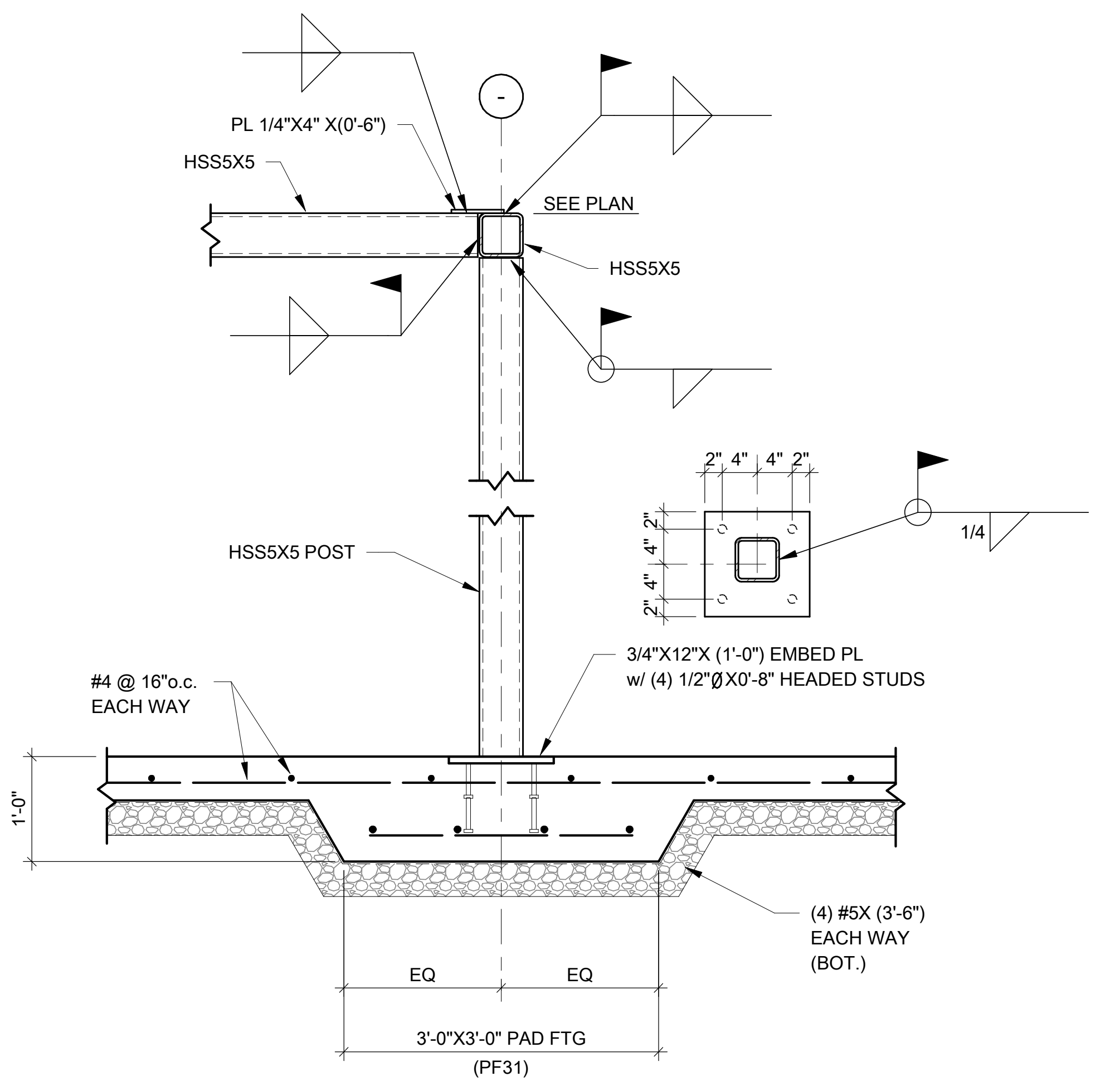
⑤ SECTION
3/4" = 1'-0"


2'-0"
2'-8"
#4 DWL.S @ 12"o.c.
2" CLR.
+10'-8"
+8'-0"
8" KNOCKOUT BOND BEAM w/ (2) #5 CONT.
EQ
EQ
SEE PLAN FOR CLEAR DIM.
#4 VERT. @ 8"o.c. (LAP 1'-4" @ SPLICE, TYP. U.N.O.)
+4'-0"
#4X (3'-0") DWL.S @ 8"o.c.
2' - 0" LAP
#4 @ 16"o.c. EACH WAY
5"
4"
1'-4"
1' - 0"
HILTI RE-500 EPOXY SYSTEM
(4) #5 CONT. w/ #3 STIRRUPS @ 24"o.c.
3" CLR.
10"
1'-6"
8"
8"
8"
2' - 0"

⑥ SECTION
3/4" = 1'-0"


℄
2" 4" 4" 2"
2" 4" 4" 2"
5/16
HSS6X6 COL.
1"X12"X (1'-0") EMBED PL w/ (4) 3/4"ØX1'-0" HEADED STUDS
#4 @ 16"o.c. EACH WAY
1'-4"
(5) #5X (3'-6") EACH WAY (BOT.)
EQ
EQ
4'-0"X4'-0" PAD FTG (PF41)

⑦ SECTION
3/4" = 1'-0"


PL 1/4"X4" X(0'-6")
HSS5X5
SEE PLAN
HSS5X5
2" 4" 4" 2"
2" 4" 4" 2"
1/4
HSS5X5 POST
3/4"X12"X (1'-0") EMBED PL w/ (4) 1/2"ØX0'-8" HEADED STUDS
#4 @ 16"o.c. EACH WAY
1'-0"
(4) #5X (3'-6") EACH WAY (BOT.)
EQ
EQ
3'-0"X3'-0" PAD FTG (PF31)

⑧ SECTION
3/4" = 1'-0"

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No. 26
ARKANSAS- ENGINEER

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 5920
FRANK M. ALLISON
8/2/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
FOUNDATION DETAILS

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By Author Checked Checker
DATE: JULY 29, 2022

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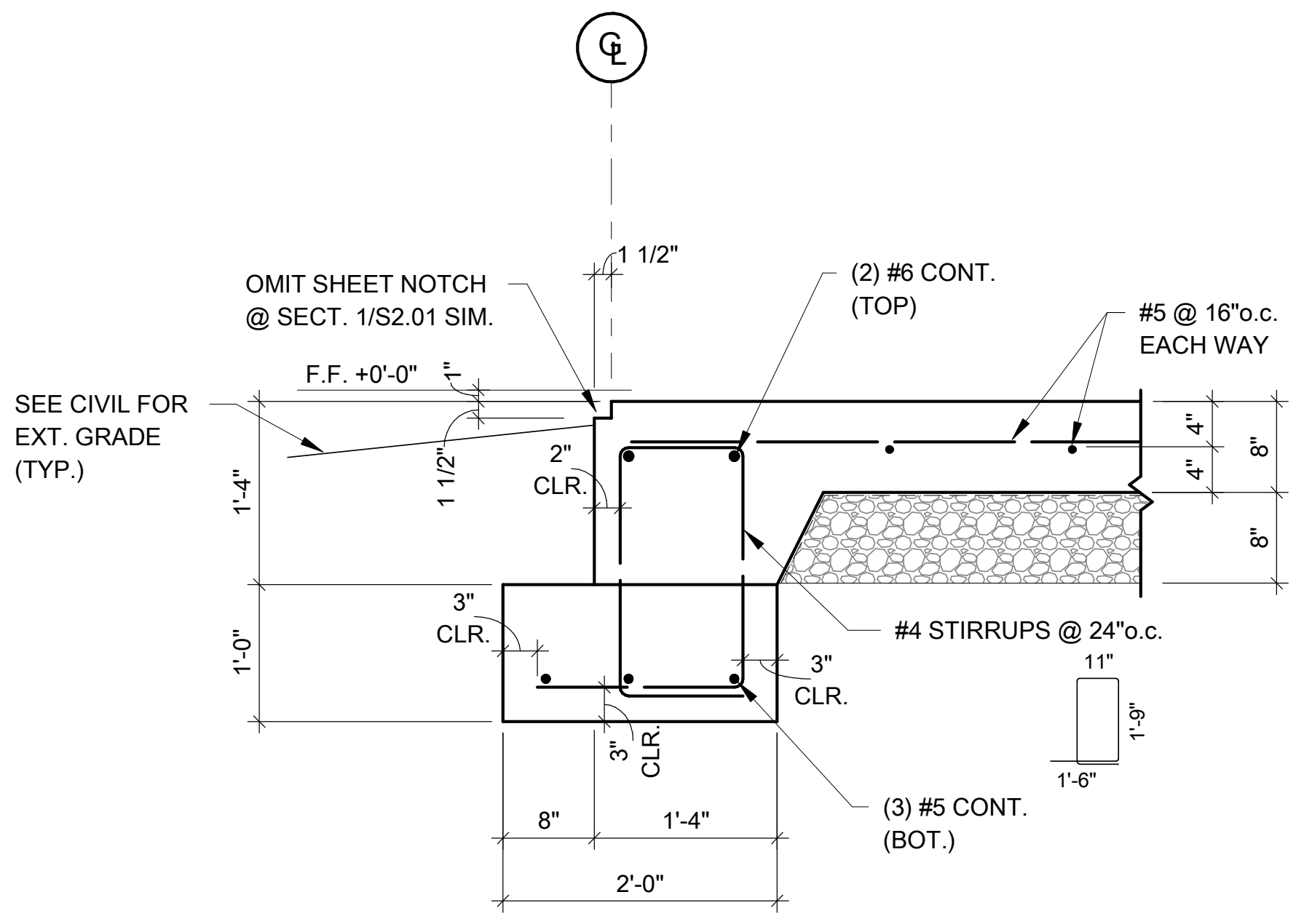
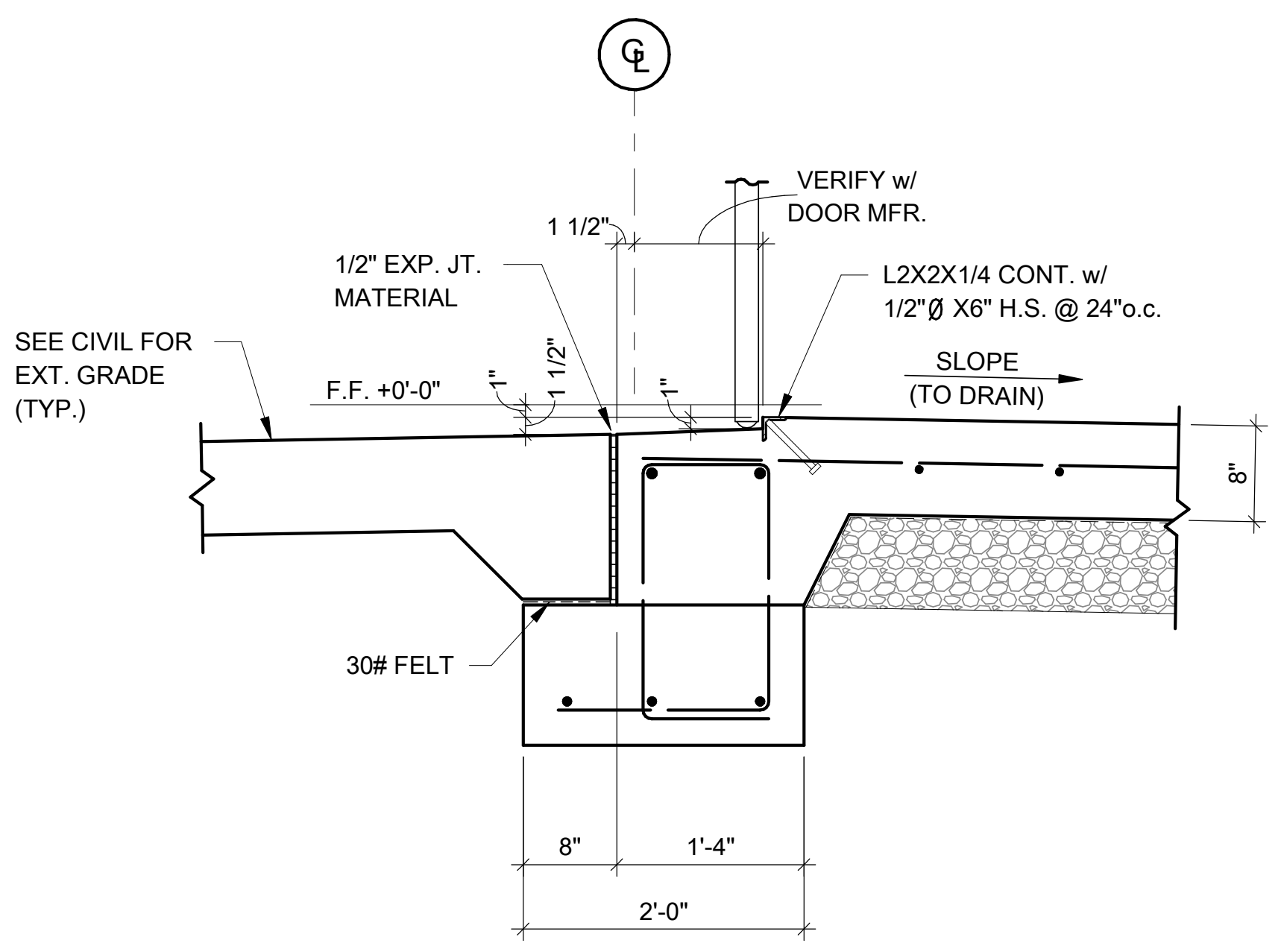
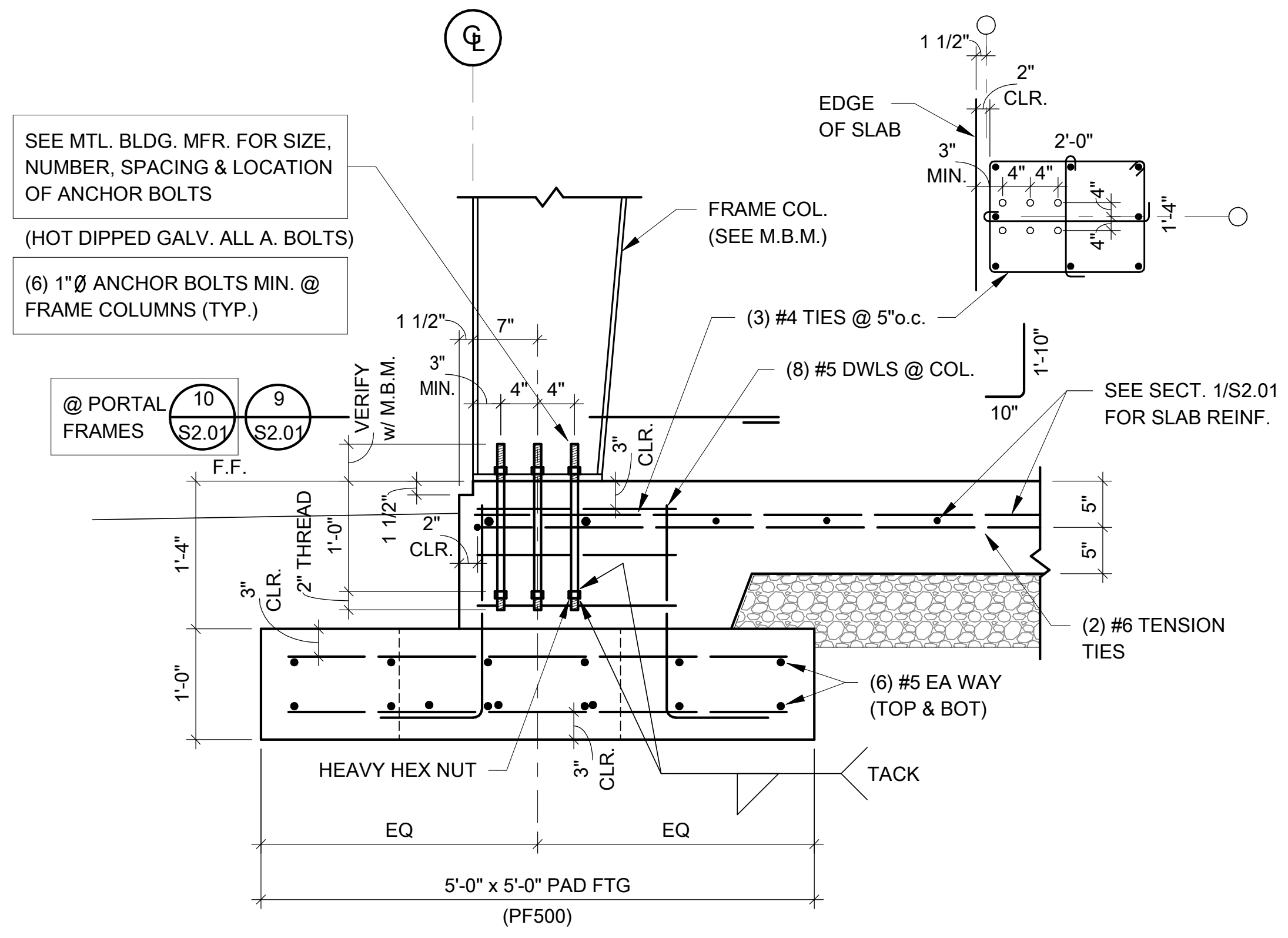


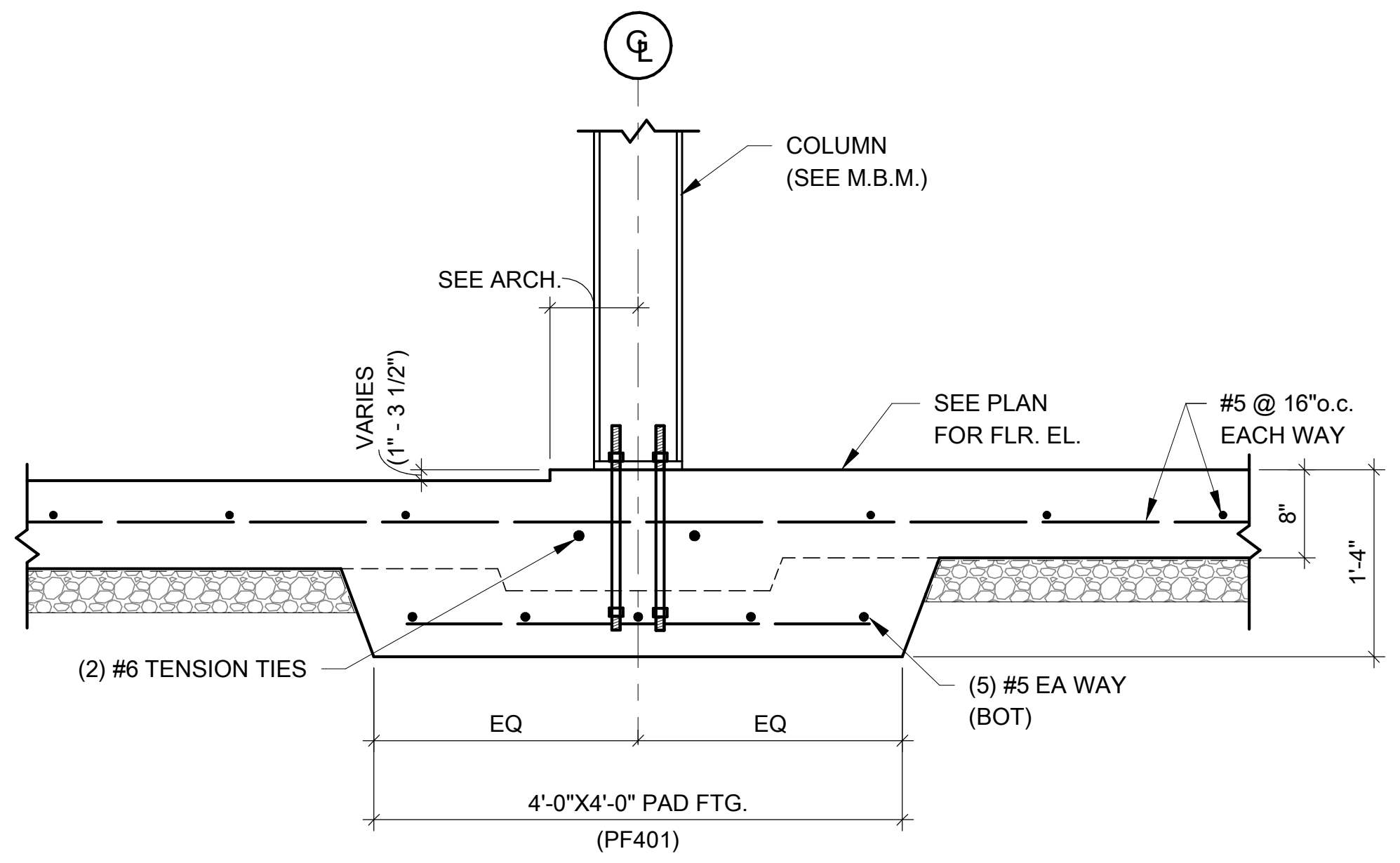
1 SECTION
3/4" = 1'-0"



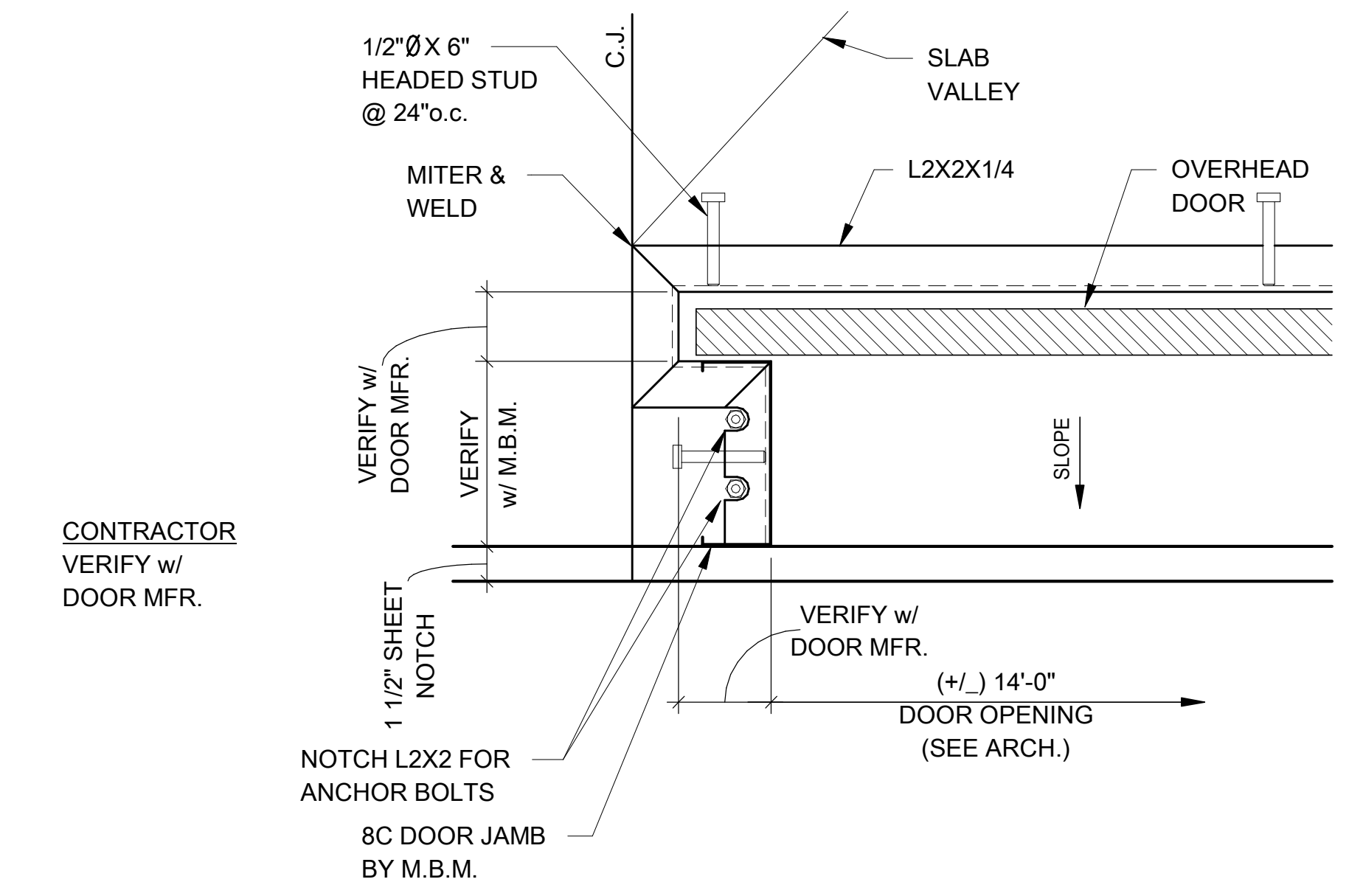
2 SECTION
3/4" = 1'-0"



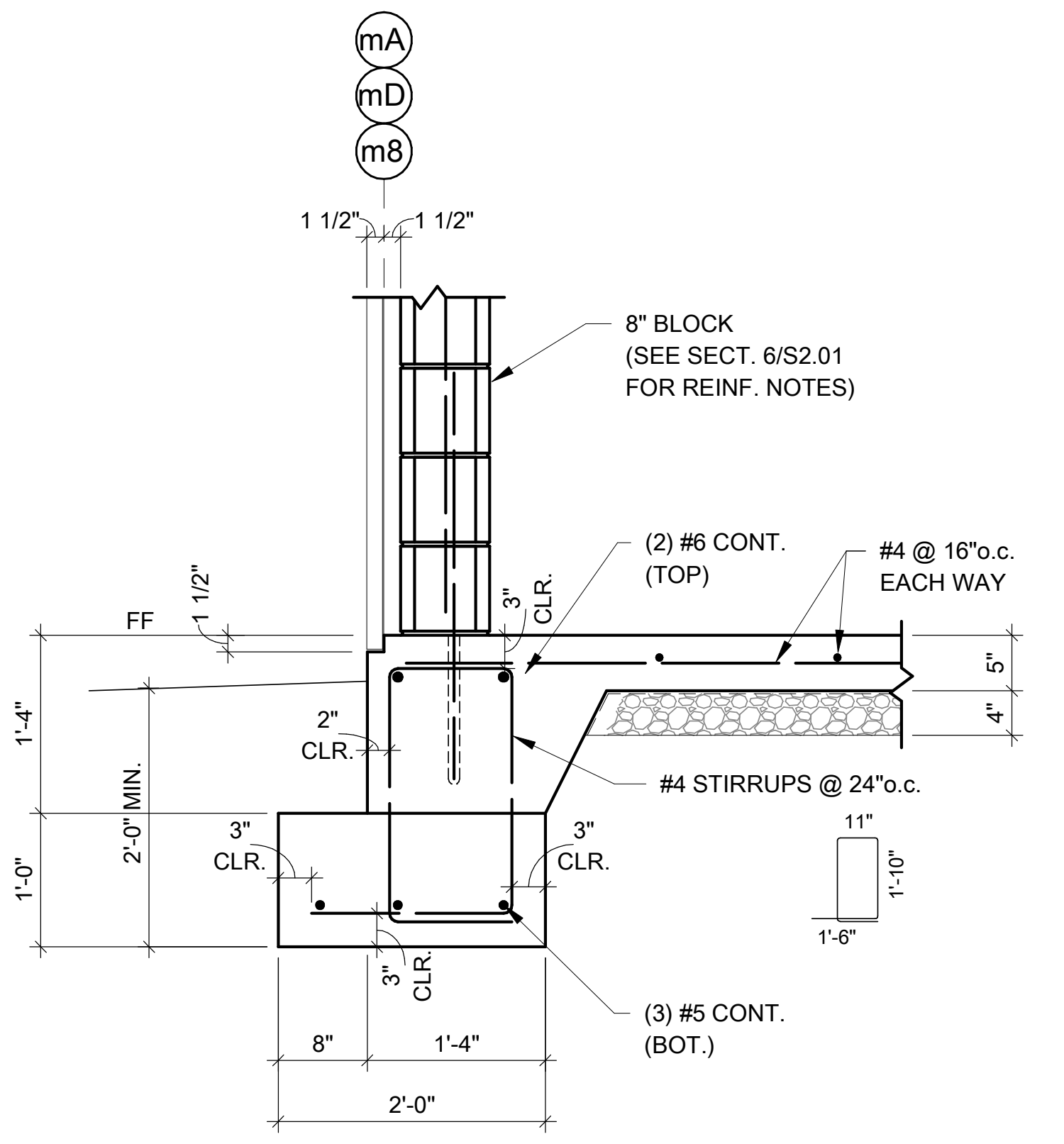
3 SECTION
3/4" = 1'-0"



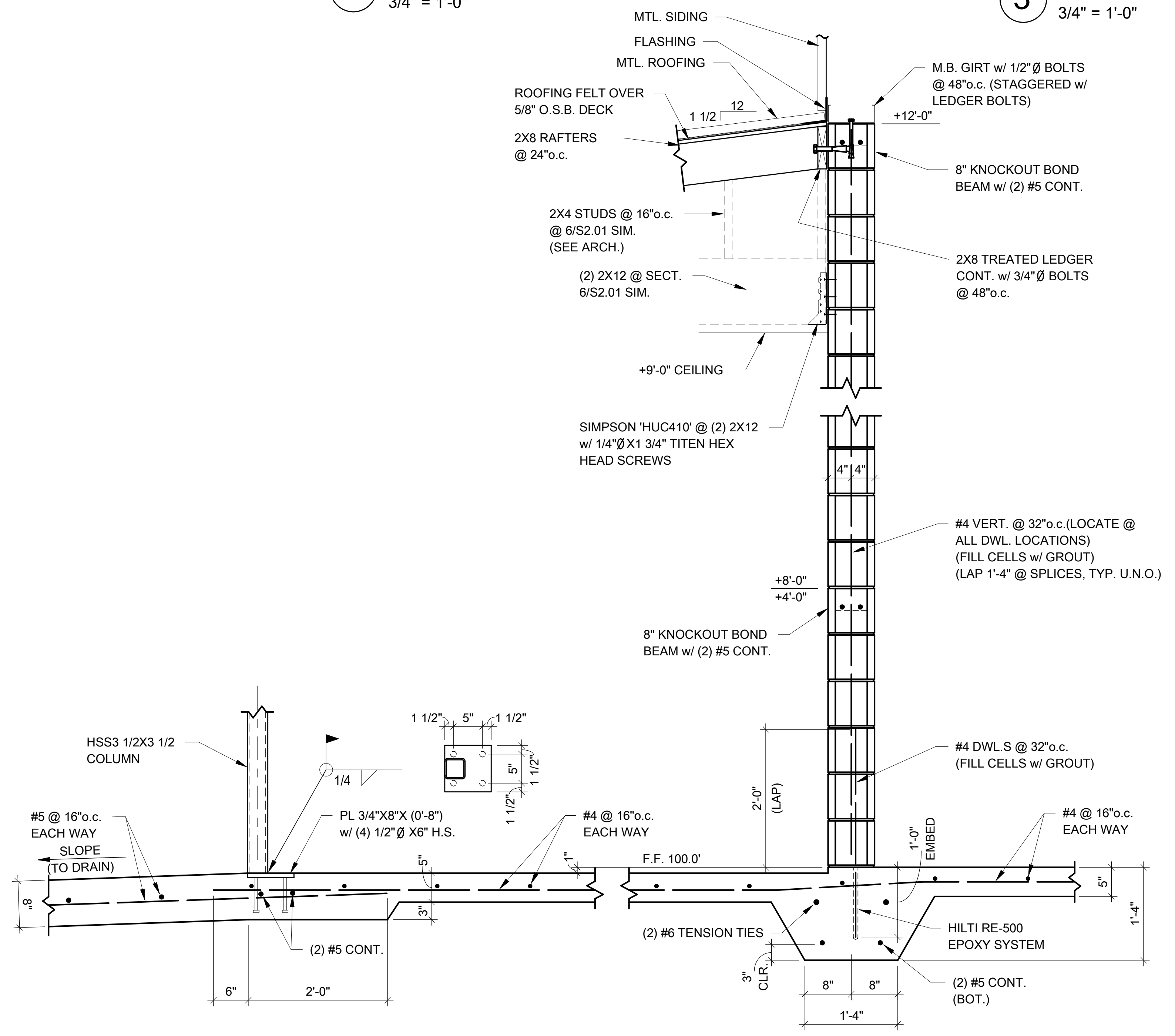
4 SECTION
3/4" = 1'-0"



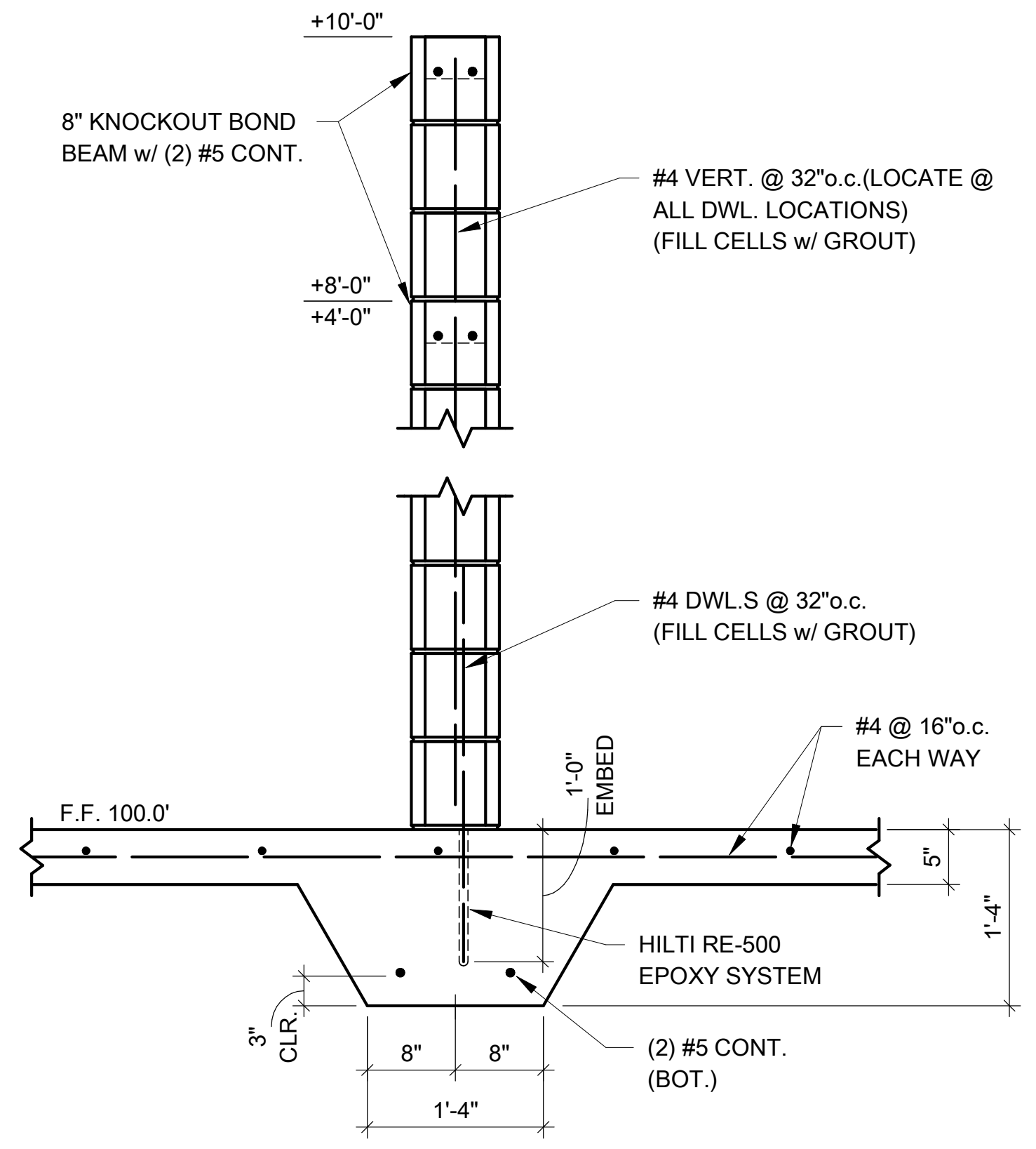
8A PLAN DETAIL
1 1/2" = 1'-0"



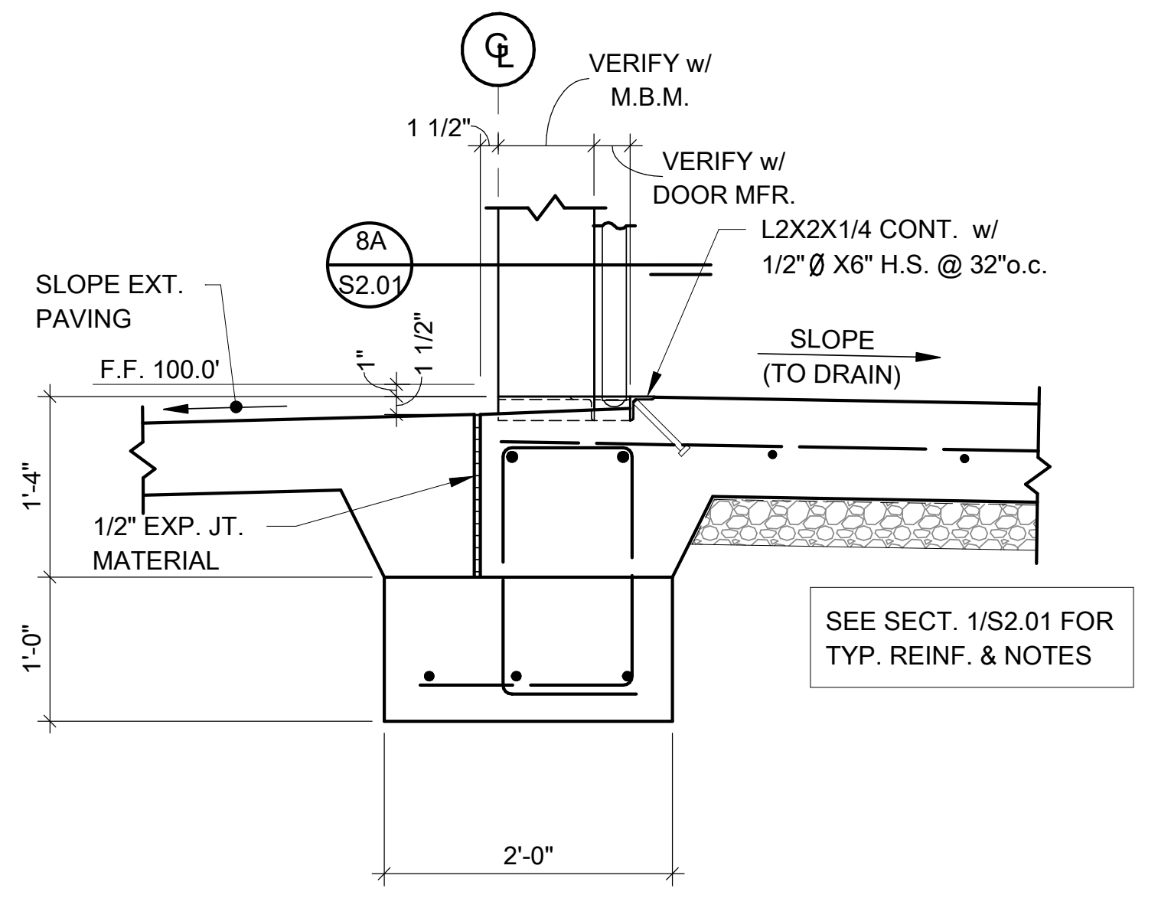
5 SECTION
3/4" = 1'-0"


MTL. SIDING
FLASHING
MTL. ROOFING
ROOFING FELT OVER 5/8" O.S.B. DECK
1 1/2
12
2X8 RAFTERS @ 24"o.c.
M.B. GIRT w/ 1/2"Ø BOLTS @ 48"o.c. (STAGGERED w/ LEDGER BOLTS)
+12'-0"
8" KNOCKOUT BOND BEAM w/ (2) #5 CONT.
2X4 STUDS @ 16"o.c. @ 6/S2.01 SIM. (SEE ARCH.)
2X8 TREATED LEDGER CONT. w/ 3/4"Ø BOLTS @ 48"o.c.
(2) 2X12 @ SECT. 6/S2.01 SIM.
+9'-0" CEILING
SIMPSON 'HUC410' @ (2) 2X12 w/ 1/4"Ø X1 3/4" TITEN HEX HEAD SCREWS
#4 VERT. @ 32"o.c.(LOCATE @ ALL DWL. LOCATIONS) (FILL CELLS w/ GROUT) (LAP 1'-4" @ SPLICES, TYP. U.N.O.)
+8'-0"
+4'-0"
8" KNOCKOUT BOND BEAM w/ (2) #5 CONT.
#4 DWL.S @ 32"o.c. (FILL CELLS w/ GROUT)
2'-0" (LAP)
HSS3 1/2X3 1/2 COLUMN
1 1/2"
5"
1 1/2"
1/4
#5 @ 16"o.c. EACH WAY
SLOPE (TO DRAIN)
PL 3/4"X8"X (0'-8") w/ (4) 1/2"Ø X6" H.S.
#4 @ 16"o.c. EACH WAY
F.F. 100.0'
1'-0" EMBED
#4 @ 16"o.c. EACH WAY
(2) #6 TENSION TIES
HILTI RE-500 EPOXY SYSTEM
(2) #5 CONT.
(2) #5 CONT. (BOT.)
3" CLR.
6"
2'-0"
8"
8"
1'-4"
5"
1'-4"

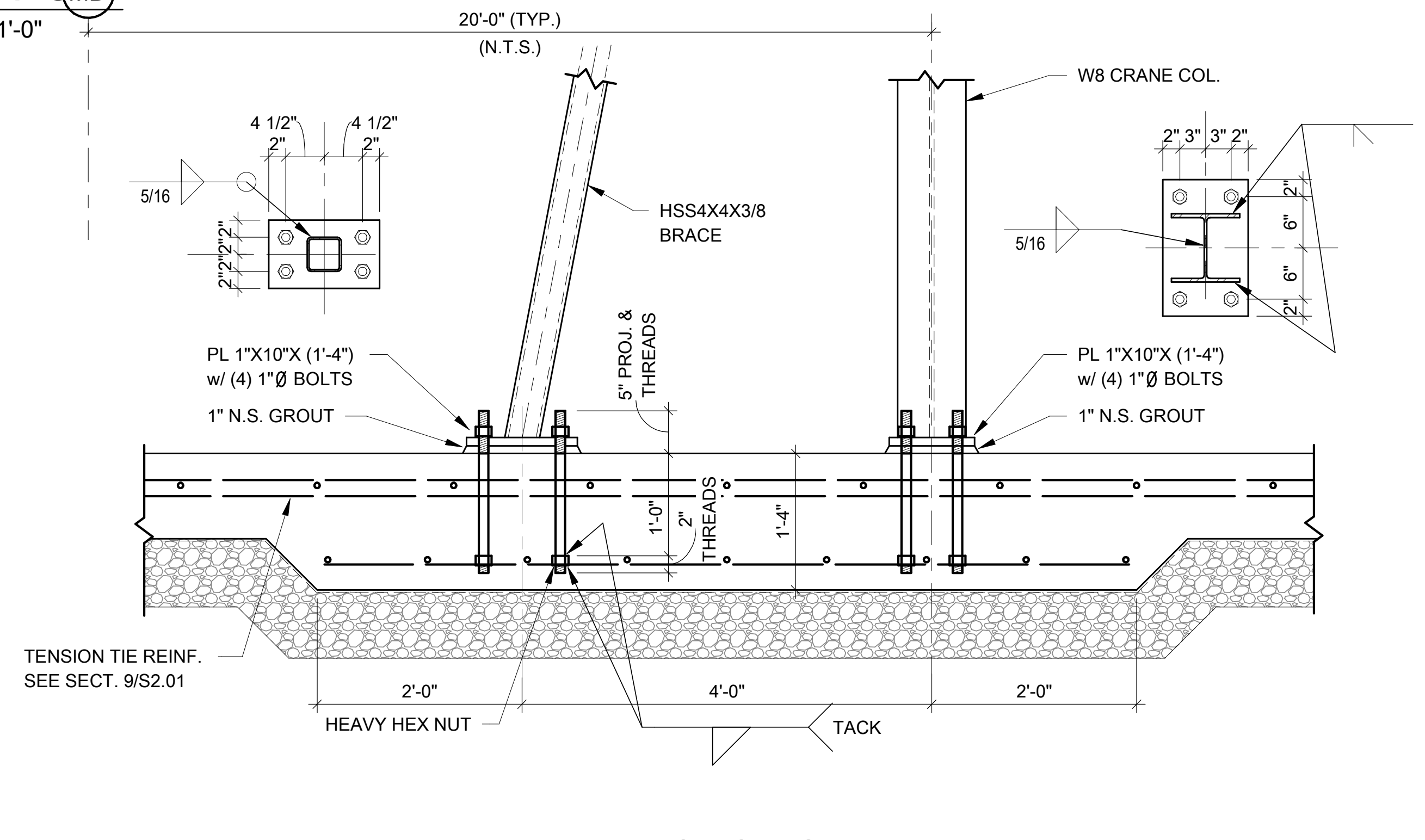
6 SECTION
3/4" = 1'-0"


+10'-0"
8" KNOCKOUT BOND BEAM w/ (2) #5 CONT.
#4 VERT. @ 32"o.c.(LOCATE @ ALL DWL. LOCATIONS) (FILL CELLS w/ GROUT)
+8'-0"
+4'-0"
#4 DWL.S @ 32"o.c. (FILL CELLS w/ GROUT)
#4 @ 16"o.c. EACH WAY
F.F. 100.0'
1'-0" EMBED
HILTI RE-500 EPOXY SYSTEM
(2) #5 CONT. (BOT.)
3" CLR.
8"
8"
1'-4"
5"
1'-4"

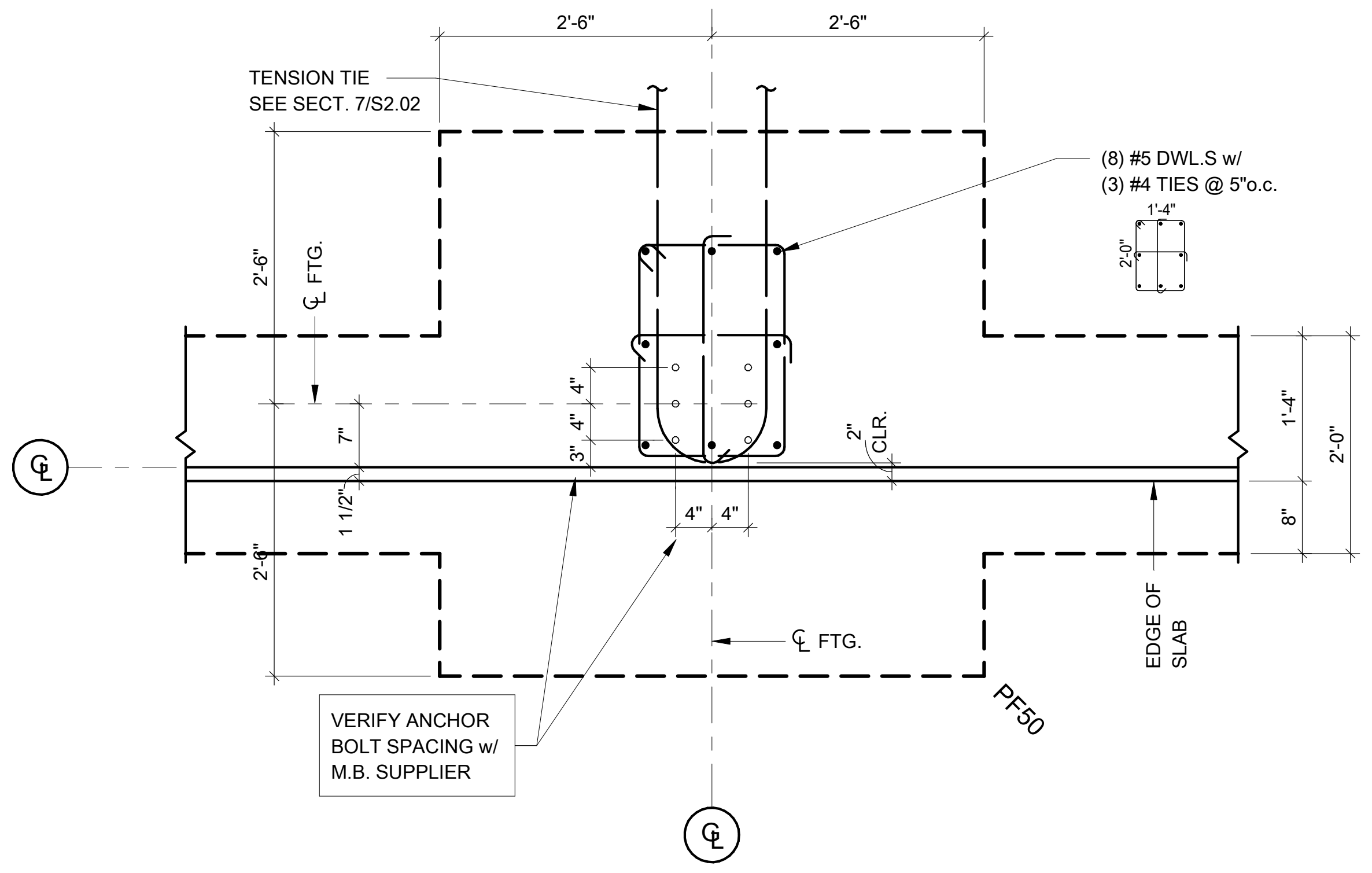
7 SECTION
3/4" = 1'-0"



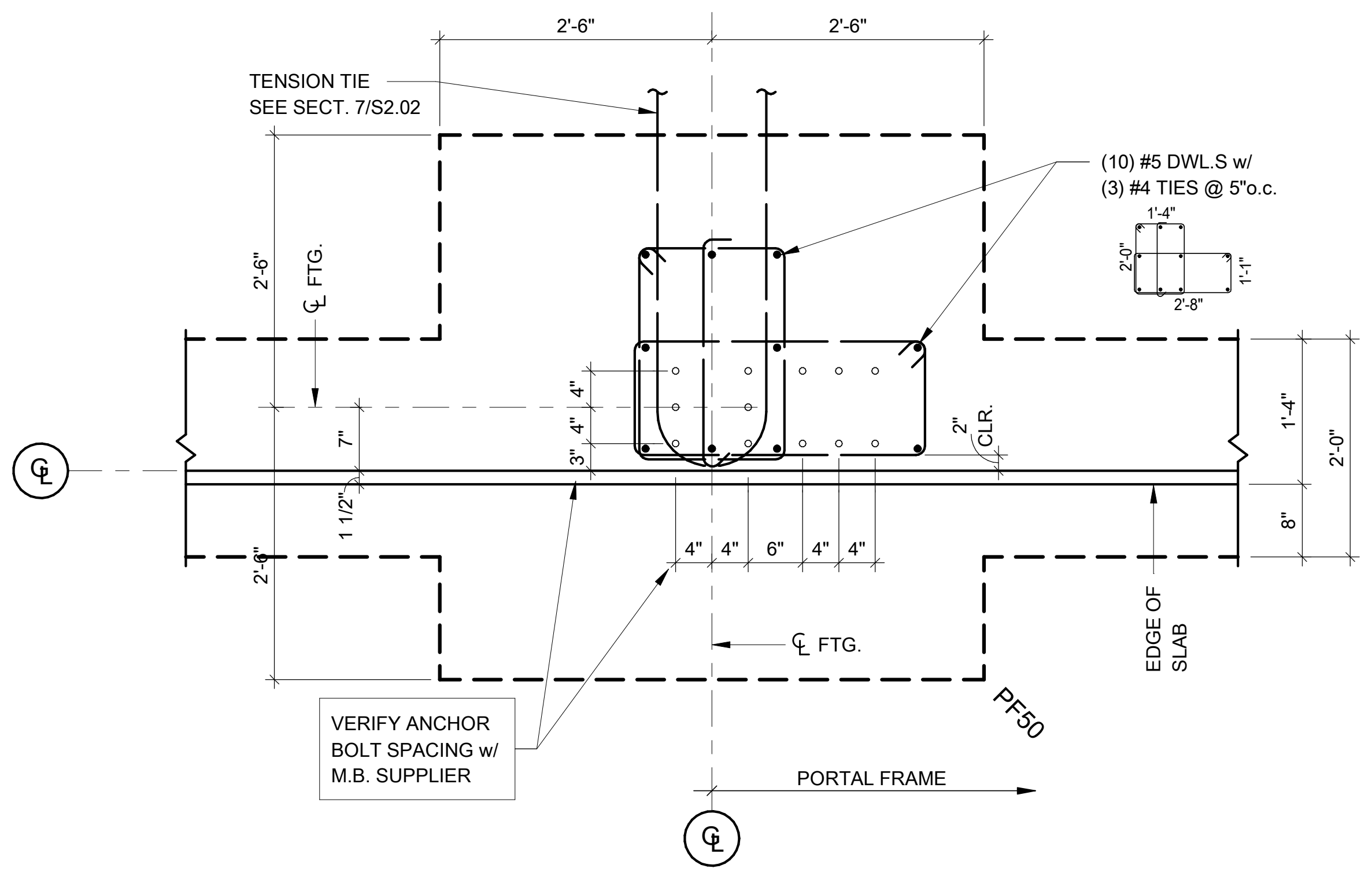
8 SECTION
3/4" = 1'-0"



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


2'-6"
2'-6"
TENSION TIE SEE SECT. 7/S2.02
(8) #5 DWL.S w/ (3) #4 TIES @ 5"o.c.
1'-4"
2'-0"
2'-6"
℄ FTG.
7"
4"
3"
1 1/2"
2" CLR.
4"
4"
1'-4"
2'-0"
8"
℄ FTG.
EDGE OF SLAB
PF50
VERIFY ANCHOR BOLT SPACING w/ M.B. SUPPLIER

9 PLAN DETAIL @ TYP. FRAME
3/4" = 1'-0"


2'-6"
2'-6"
TENSION TIE SEE SECT. 7/S2.02
(10) #5 DWL.S w/ (3) #4 TIES @ 5"o.c.
1'-4"
2'-8"
2'-6"
℄ FTG.
7"
4"
3"
1 1/2"
2" CLR.
4"
4"
6"
4"
4"
1'-4"
2'-0"
8"
℄ FTG.
EDGE OF SLAB
PF50
VERIFY ANCHOR BOLT SPACING w/ M.B. SUPPLIER
PORTAL FRAME

10 PLAN DETAIL @ PORTAL FRAME
3/4" = 1'-0"

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
FOUNDATION DETAILS

Revision

Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
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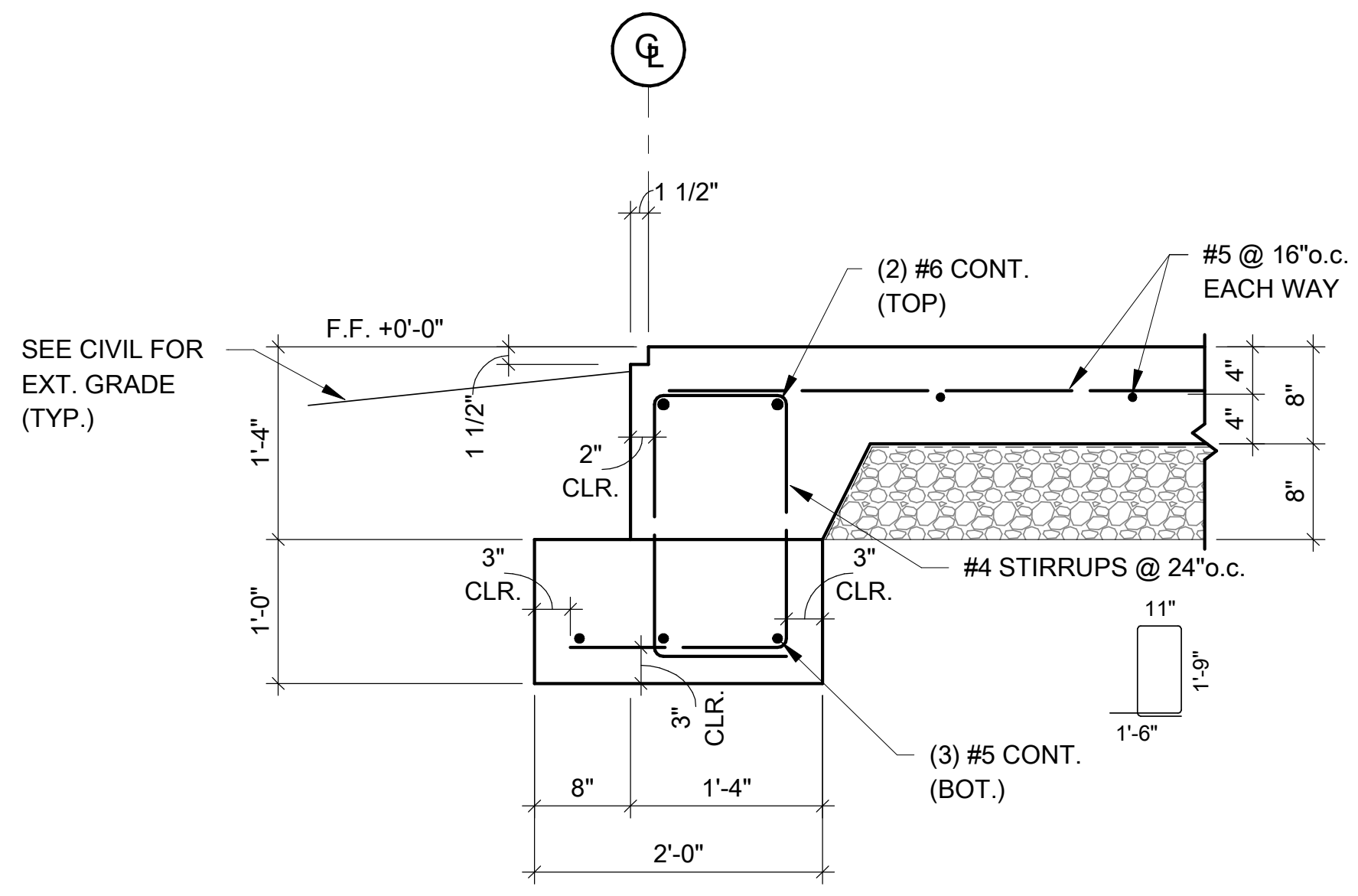
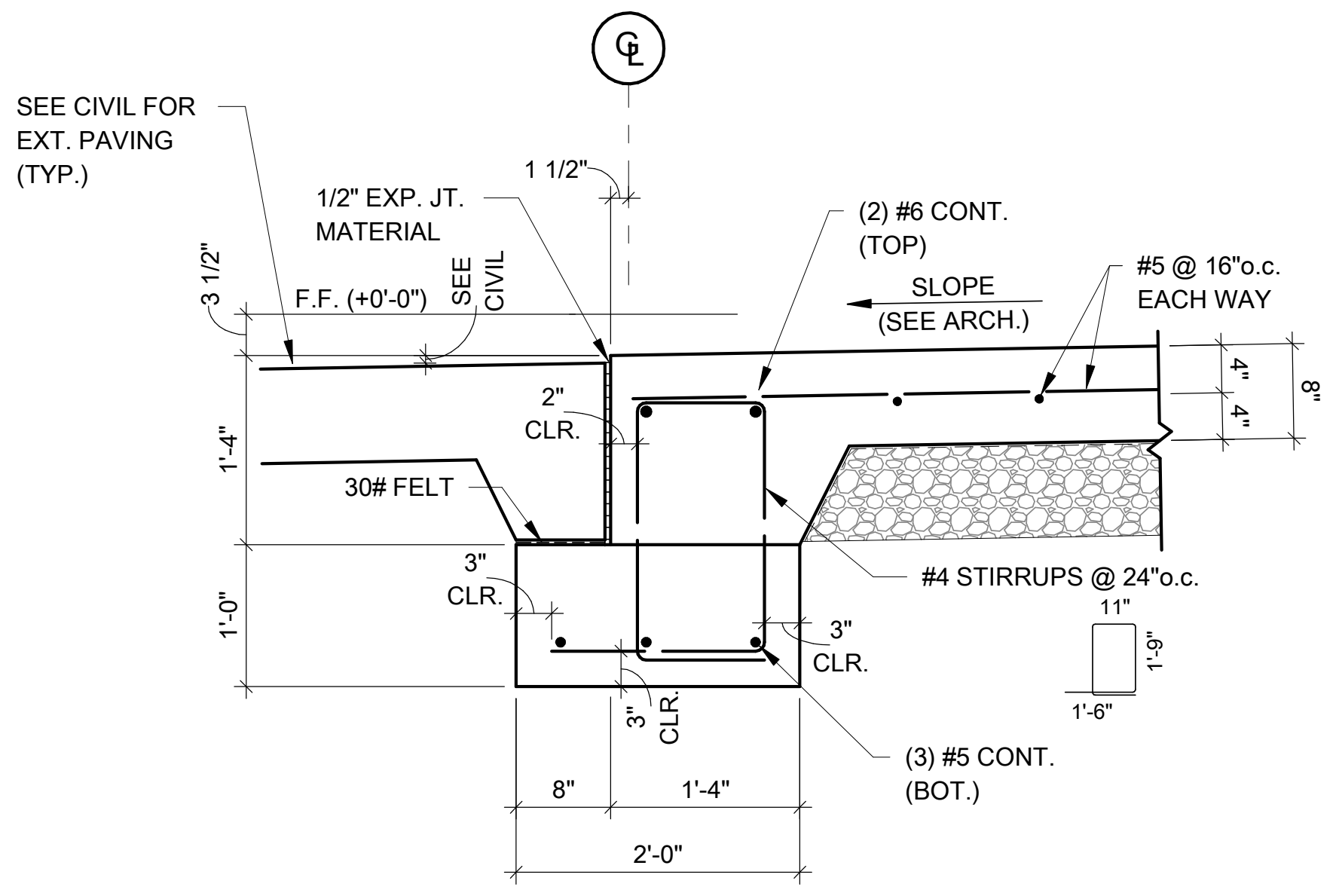
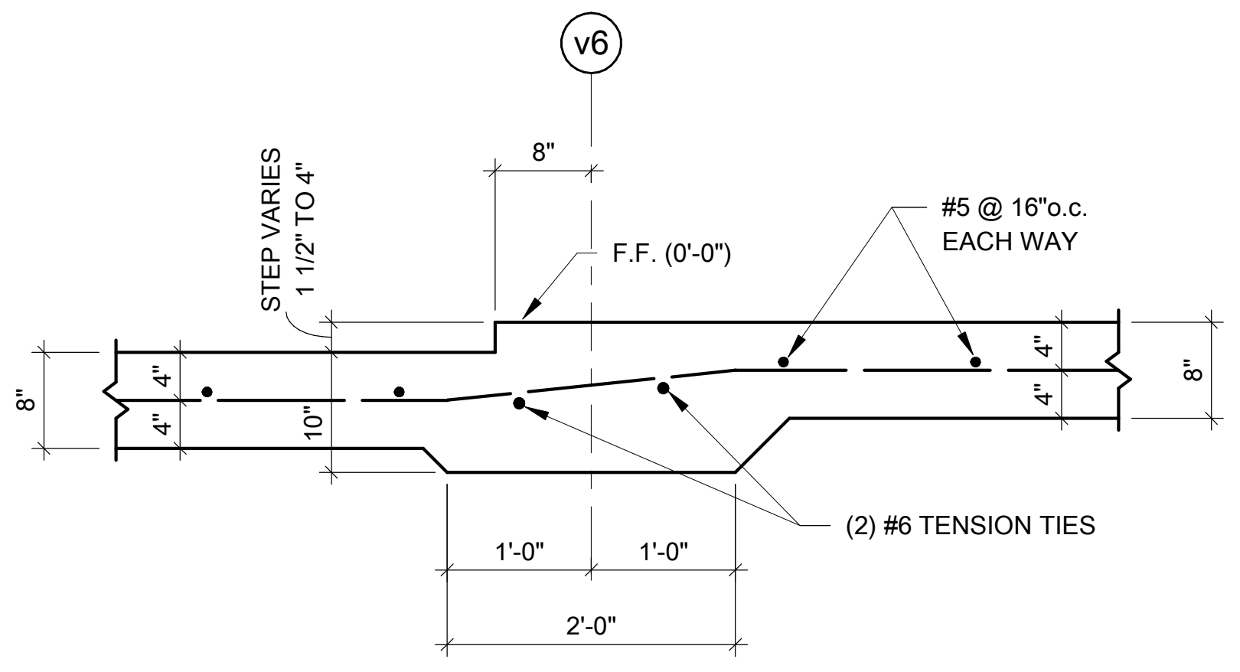


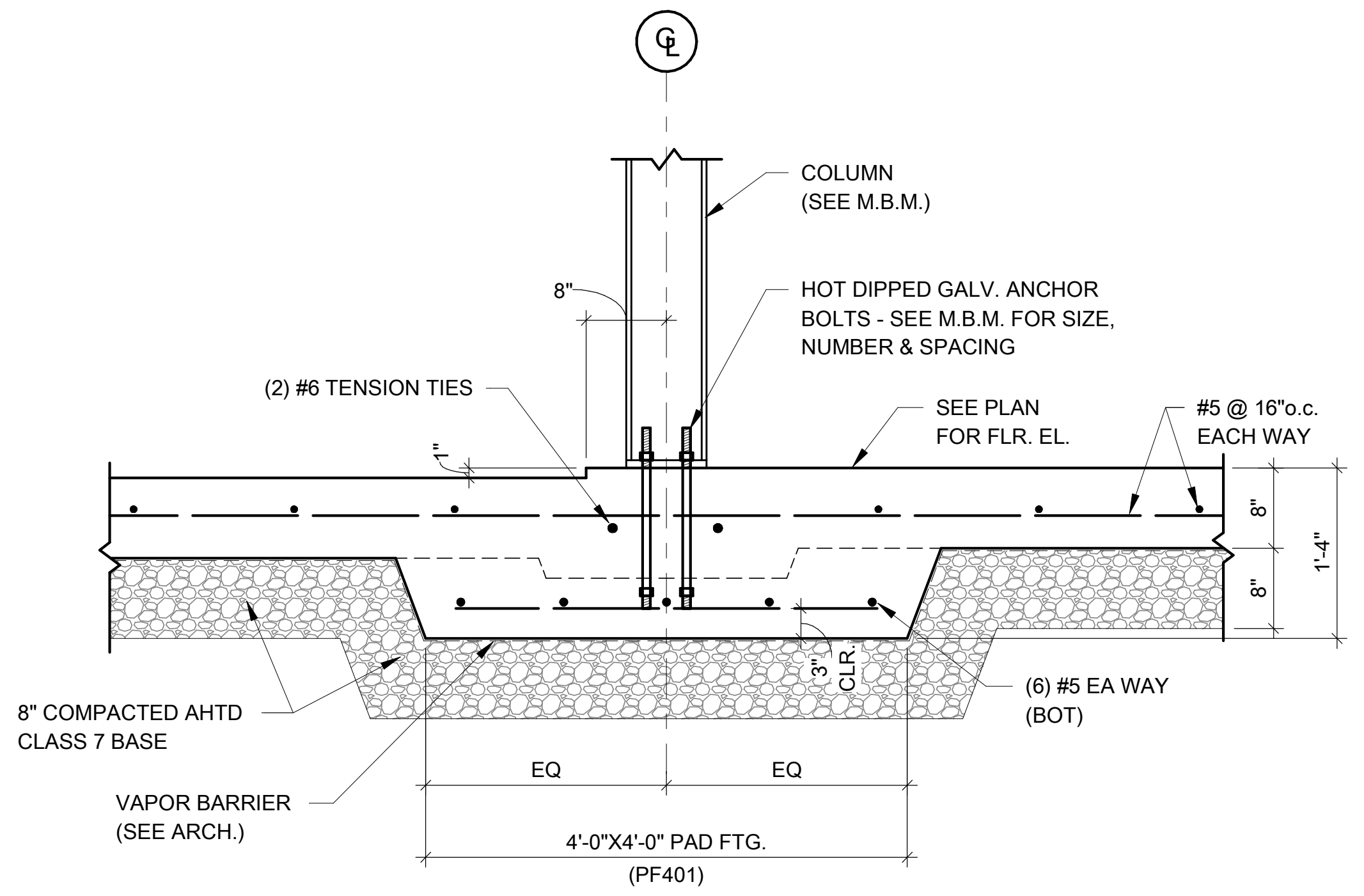
1 SECTION
3/4" = 1'-0"



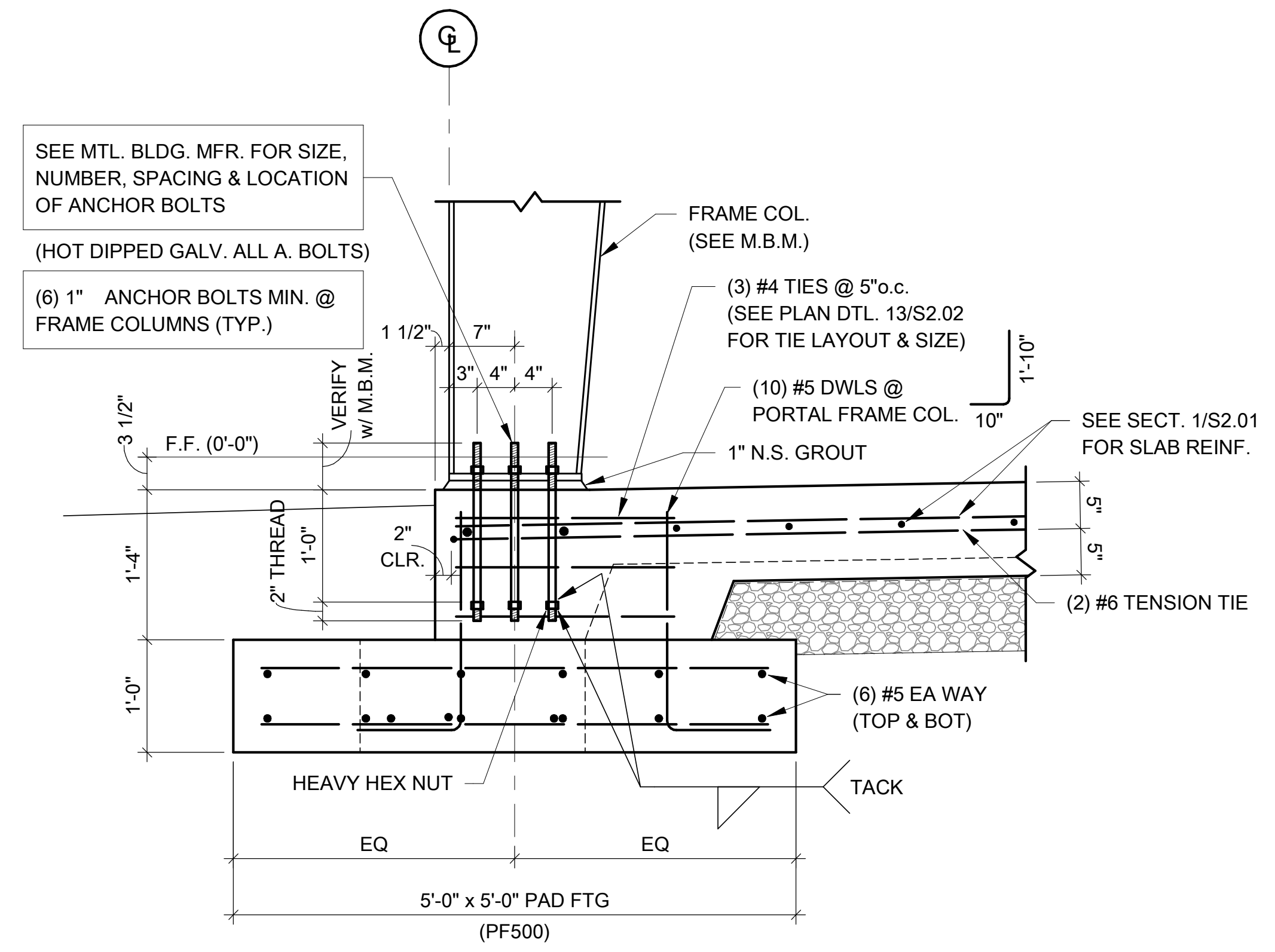
2 SECTION
3/4" = 1'-0"



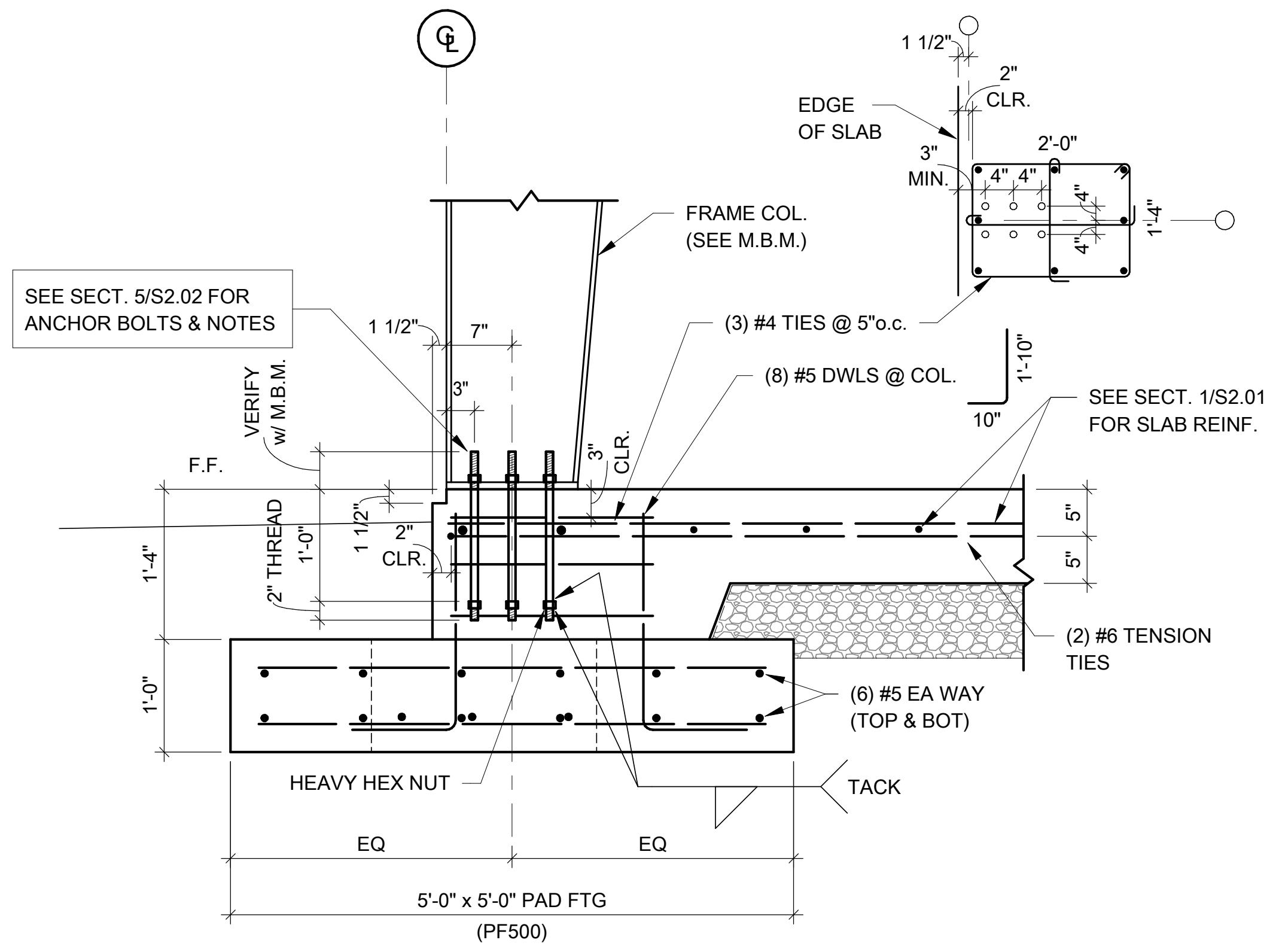
3 SECTION
3/4" = 1'-0"


℄
COLUMN (SEE M.B.M.)
8"
HOT DIPPED GALV. ANCHOR BOLTS - SEE M.B.M. FOR SIZE, NUMBER & SPACING
(2) #6 TENSION TIES
SEE PLAN FOR FLR. EL.
#5 @ 16"o.c. EACH WAY
1"
8"
8"
1'-4"
3" CLR.
8" COMPACTED AHTD CLASS 7 BASE
(6) #5 EA WAY (BOT)
VAPOR BARRIER (SEE ARCH.)
EQ
EQ
4'-0"X4'-0" PAD FTG. (PF401)

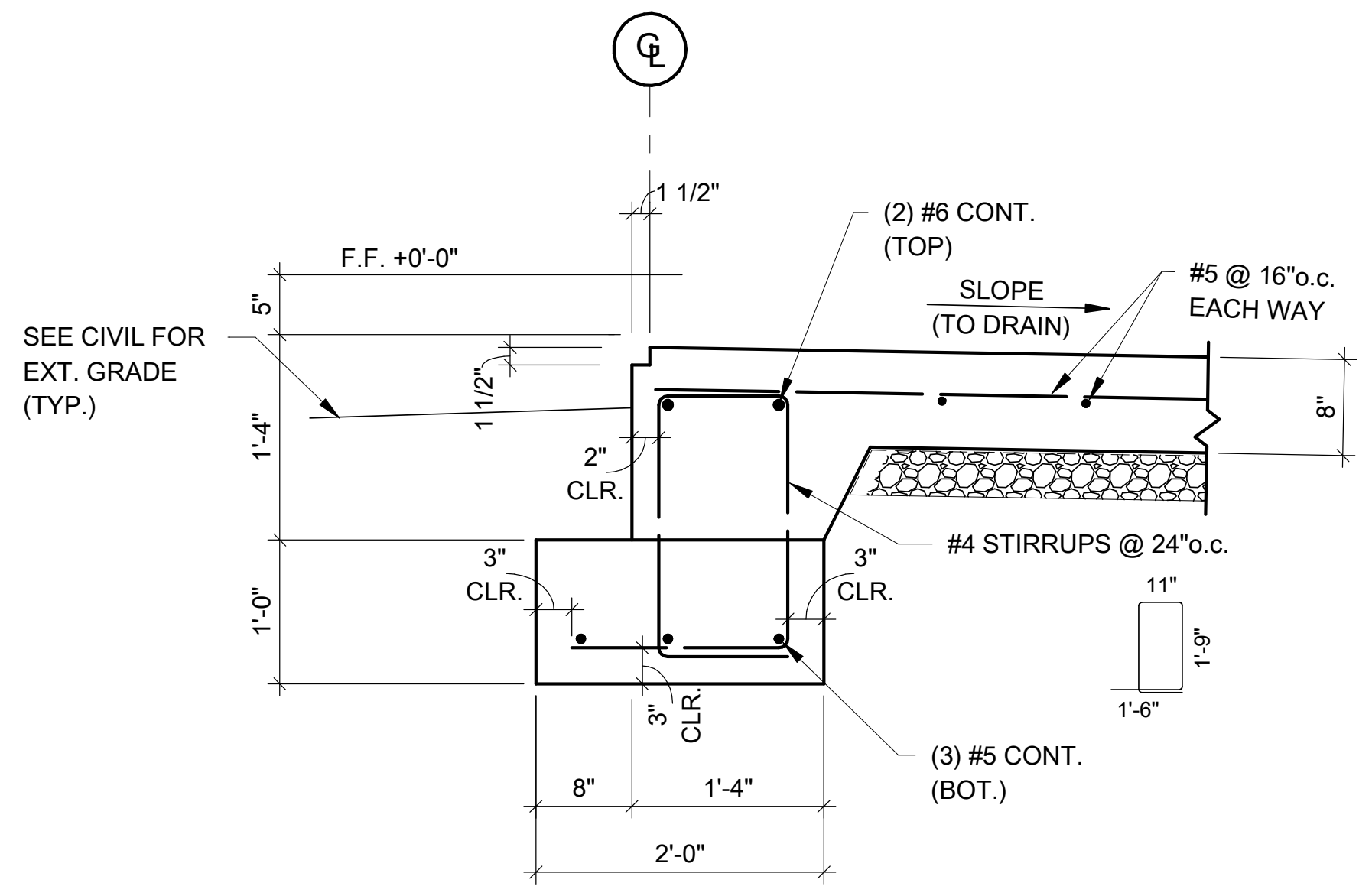
4 SECTION
3/4" = 1'-0"


℄
SEE MTL. BLDG. MFR. FOR SIZE, NUMBER, SPACING & LOCATION OF ANCHOR BOLTS
(HOT DIPPED GALV. ALL A. BOLTS)
(6) 1" ANCHOR BOLTS MIN. @ FRAME COLUMNS (TYP.)
FRAME COL. (SEE M.B.M.)
(3) #4 TIES @ 5"o.c. (SEE PLAN DTL. 13/S2.02 FOR TIE LAYOUT & SIZE)
(10) #5 DWLS @ PORTAL FRAME COL.
1" N.S. GROUT
SEE SECT. 1/S2.01 FOR SLAB REINF.
1 1/2"
7"
3"
4"
4"
VERIFY w/ M.B.M.
1'-10"
10"
3 1/2"
F.F. (0'-0")
1'-4"
2" THREAD
1'-0"
2" CLR.
5"
5"
(2) #6 TENSION TIE
1'-0"
(6) #5 EA WAY (TOP & BOT)
HEAVY HEX NUT
TACK
EQ
EQ
5'-0" x 5'-0" PAD FTG (PF500)

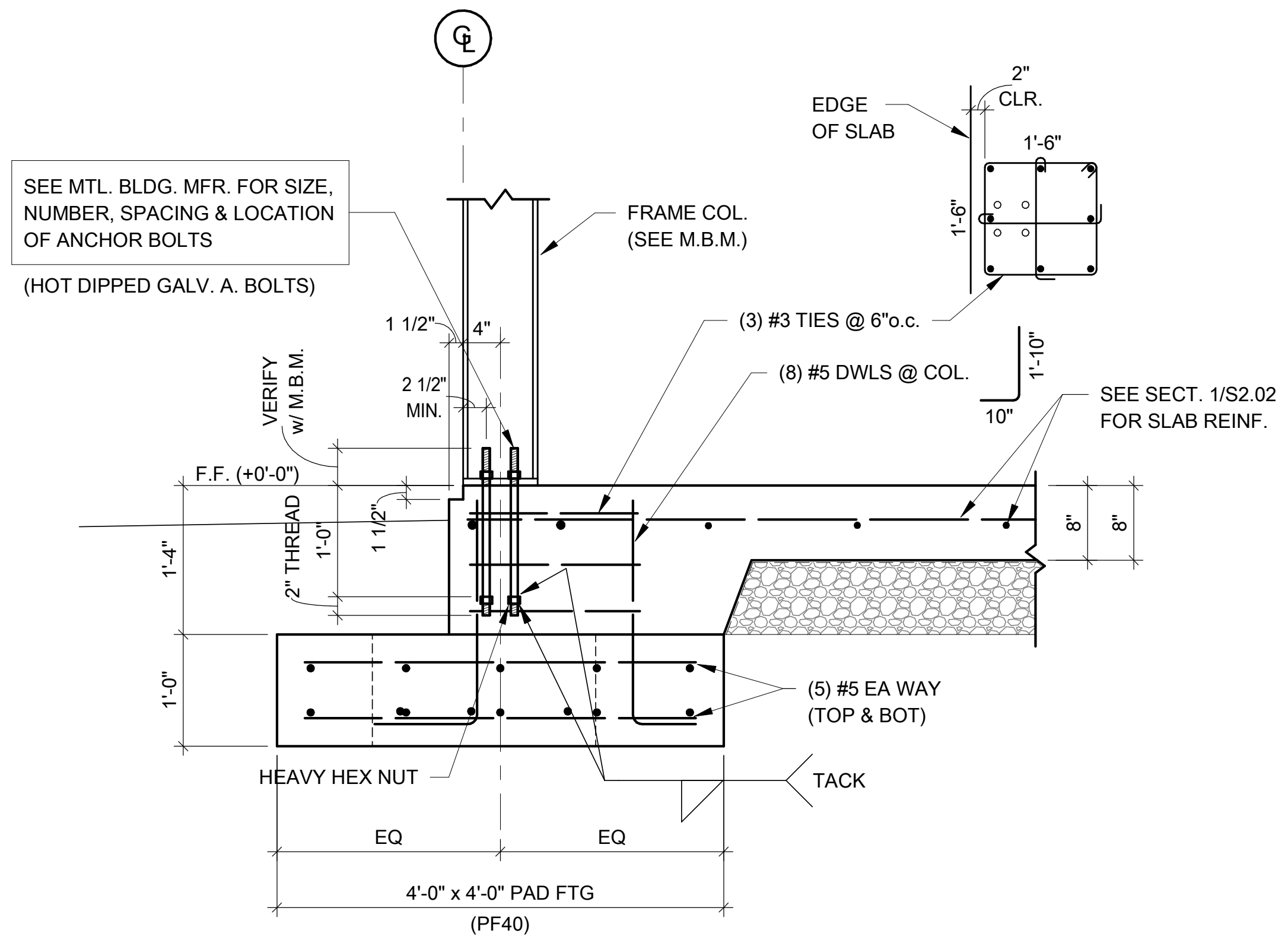
5 SECTION
3/4" = 1'-0"



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



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



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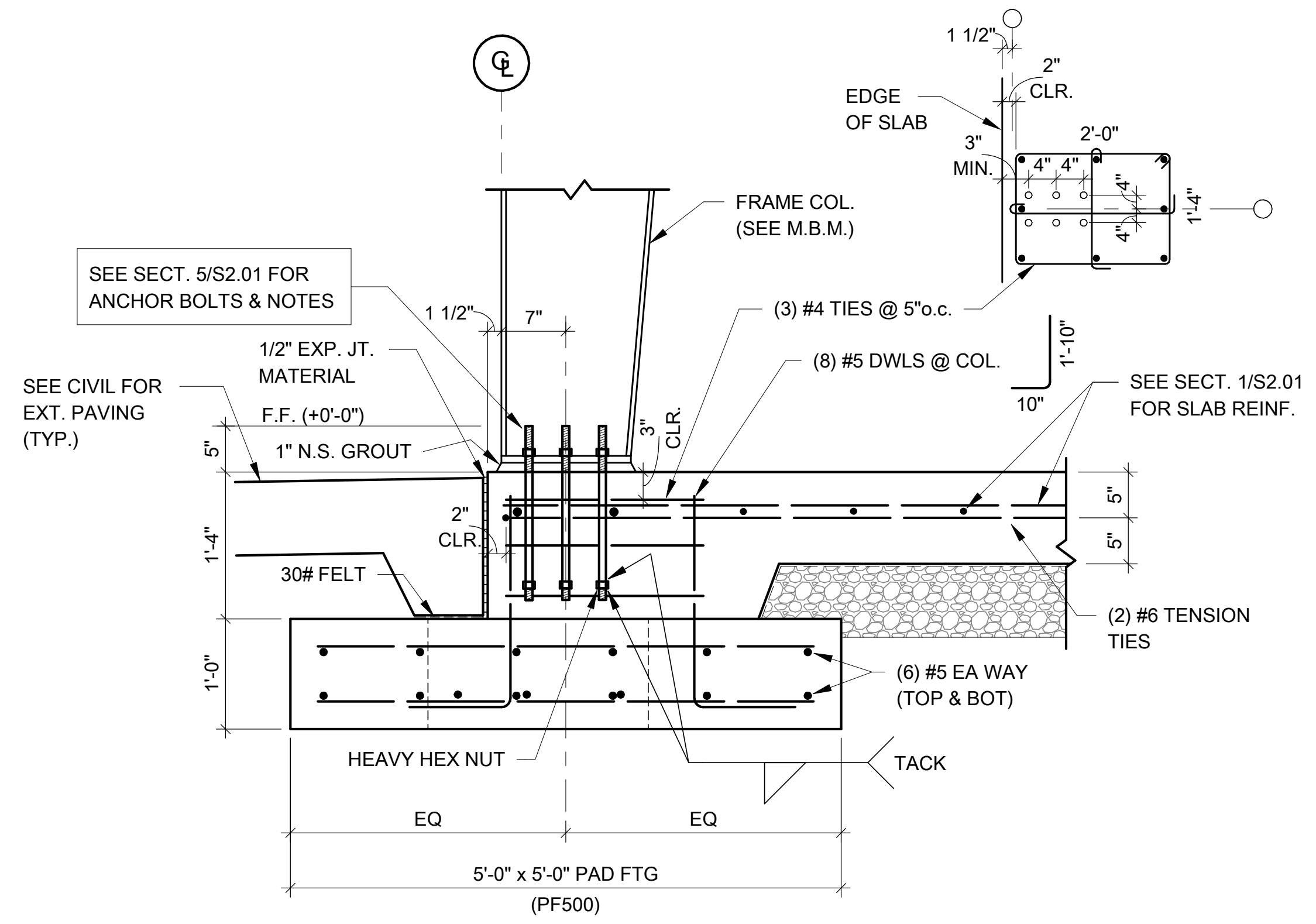
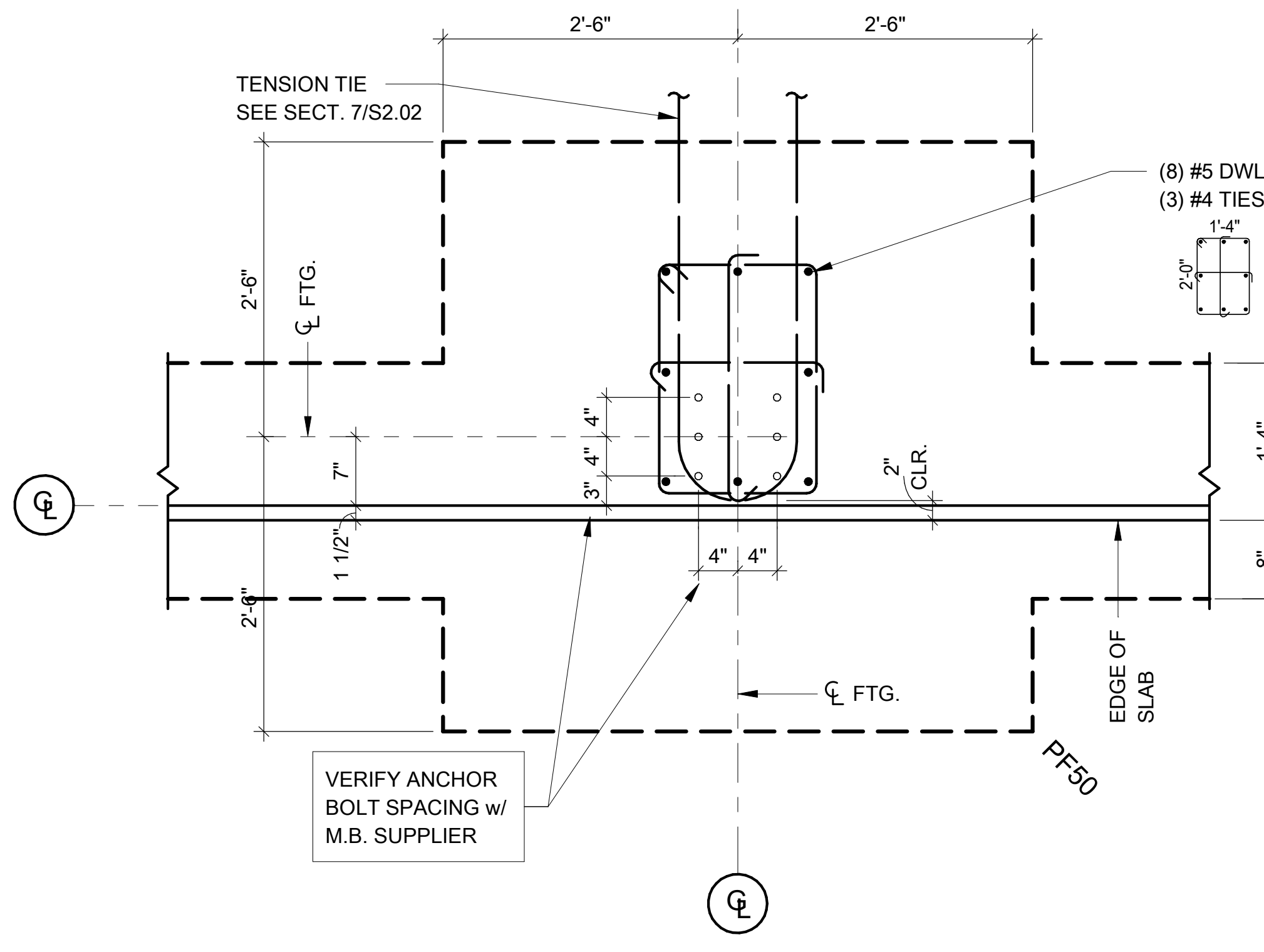
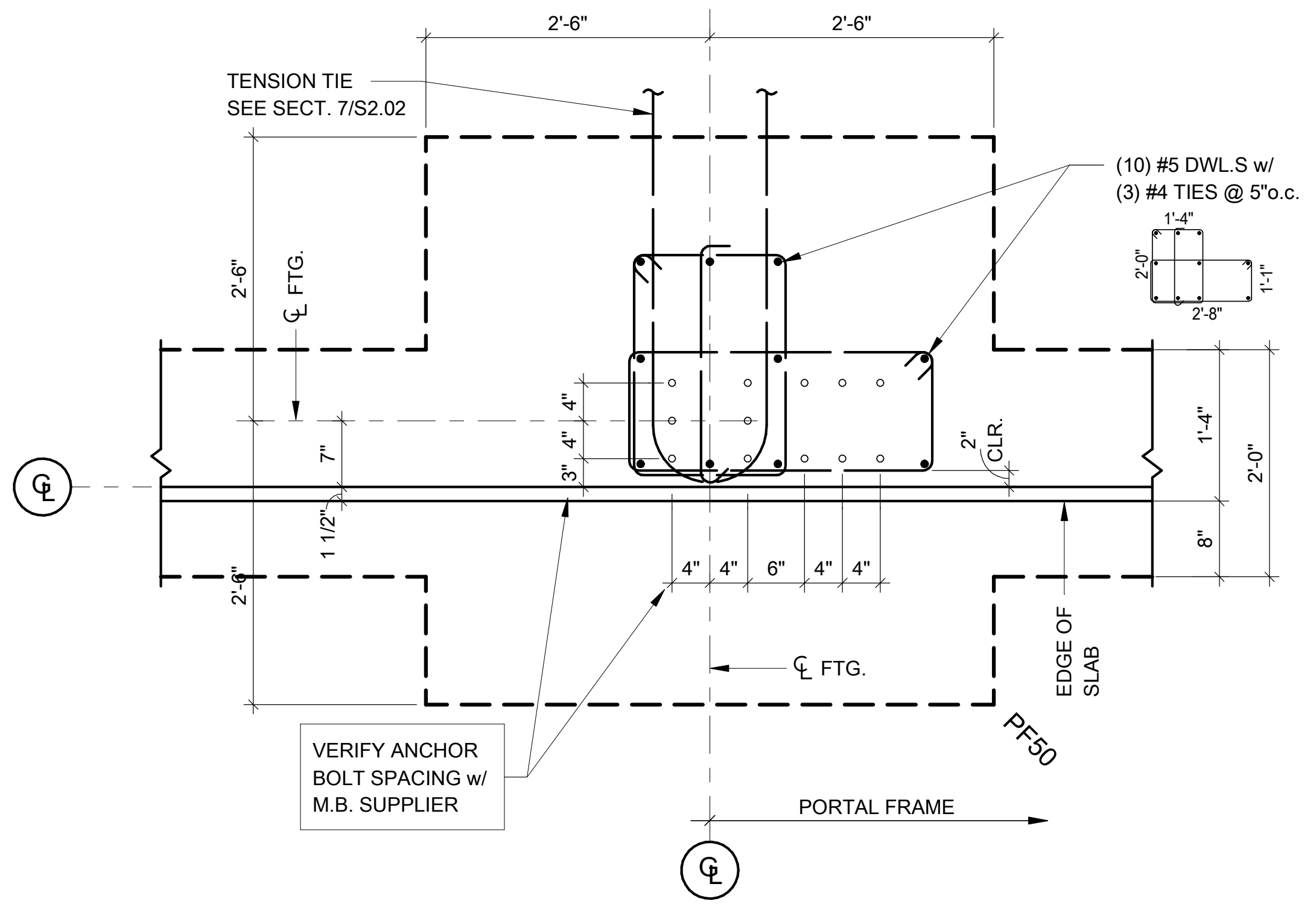
3/4" = 1'-0"



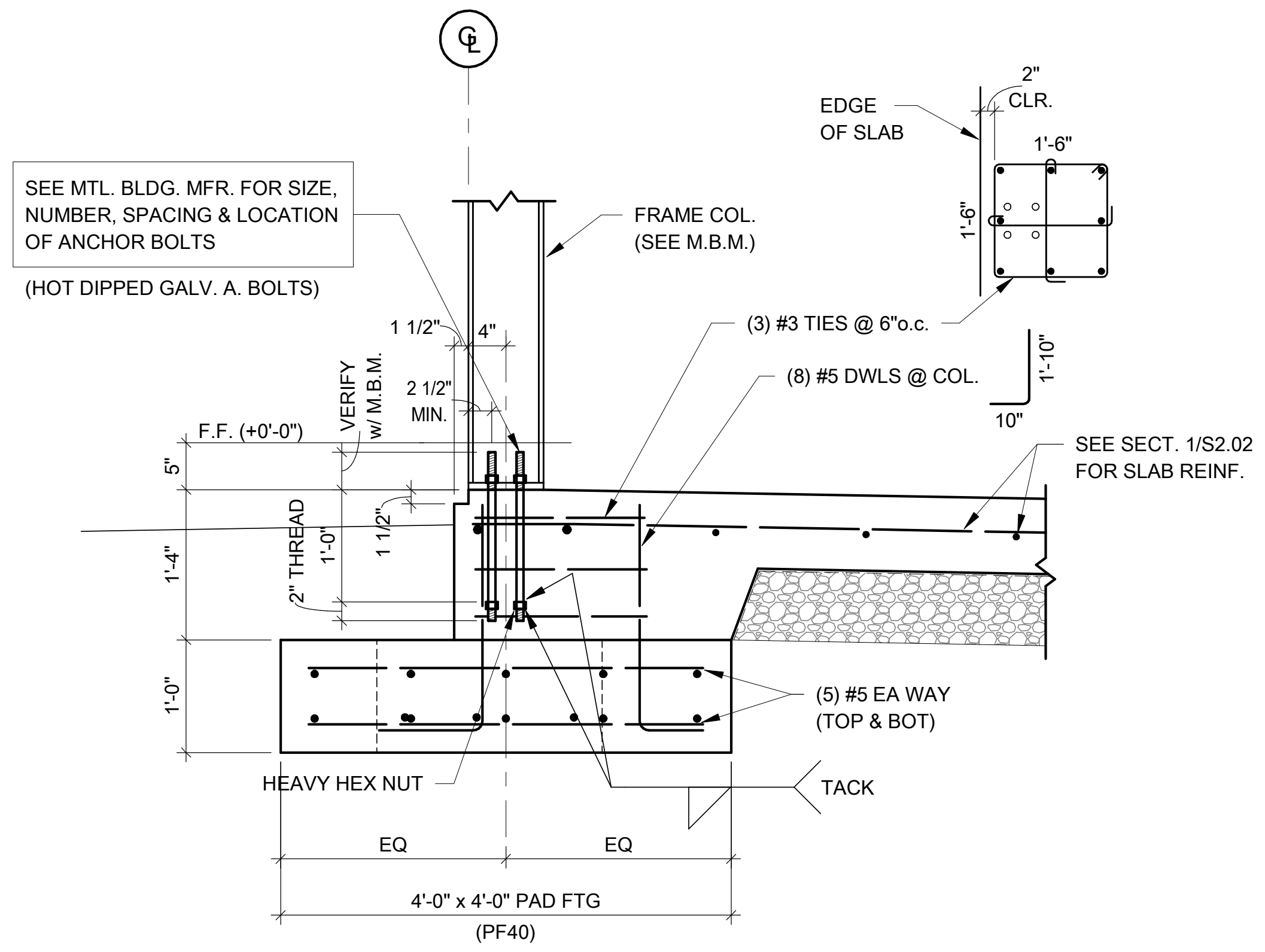
9 SECTION
3/4" = 1'-0"


2'-6"
2'-6"
TENSION TIE SEE SECT. 7/S2.02
(8) #5 DWL.S w/ (3) #4 TIES @ 5"o.c.
1'-4"
2'-2"
2'-6"
℄ FTG.
7"
3"
4"
2" CLR.
1'-4"
2'-0"
1 1/2"
8"
2'-6"
4"
4"
℄
℄ FTG.
EDGE OF SLAB
PF50
VERIFY ANCHOR BOLT SPACING w/ M.B. SUPPLIER
℄

10 PLAN DETAIL @ TYP. FRAME
3/4" = 1'-0"



11 PLAN DETAIL @ PORTAL FRAME
3/4" = 1'-0"



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

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ENGINEERING CONSULTANTS, INC.
No. 26
ARKANSAS- ENGINEER

STAMPS
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 5920
FRANK M. ALLISON
8/2/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
FOUNDATION DETAILS

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: Author
Checked: Checker
DATE: JULY 29, 2022

S2.02

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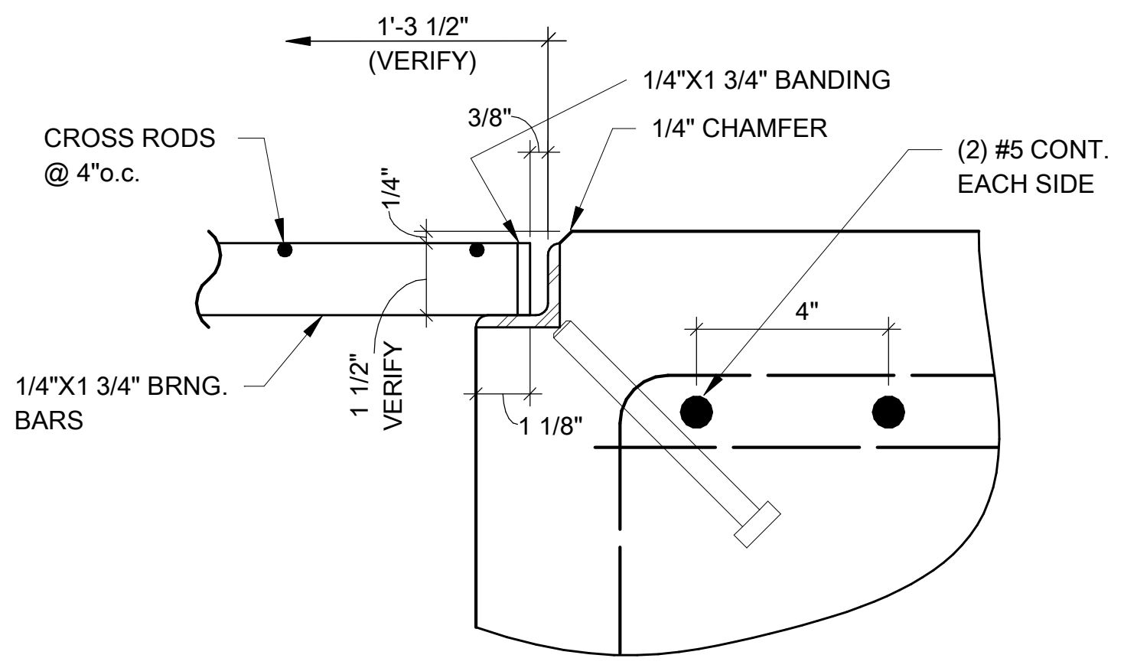
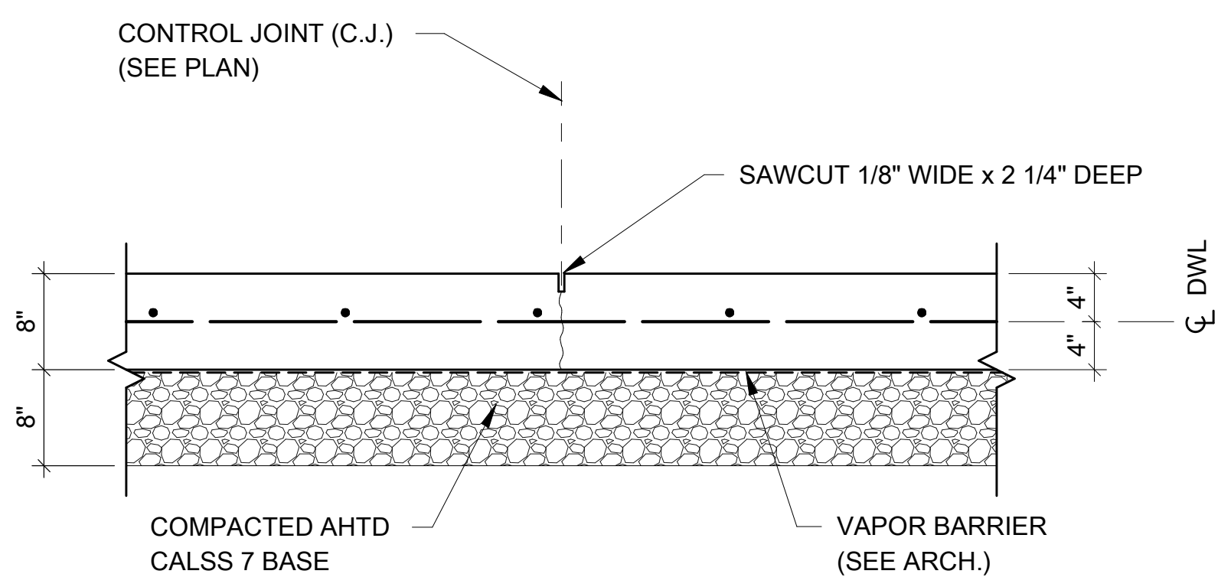
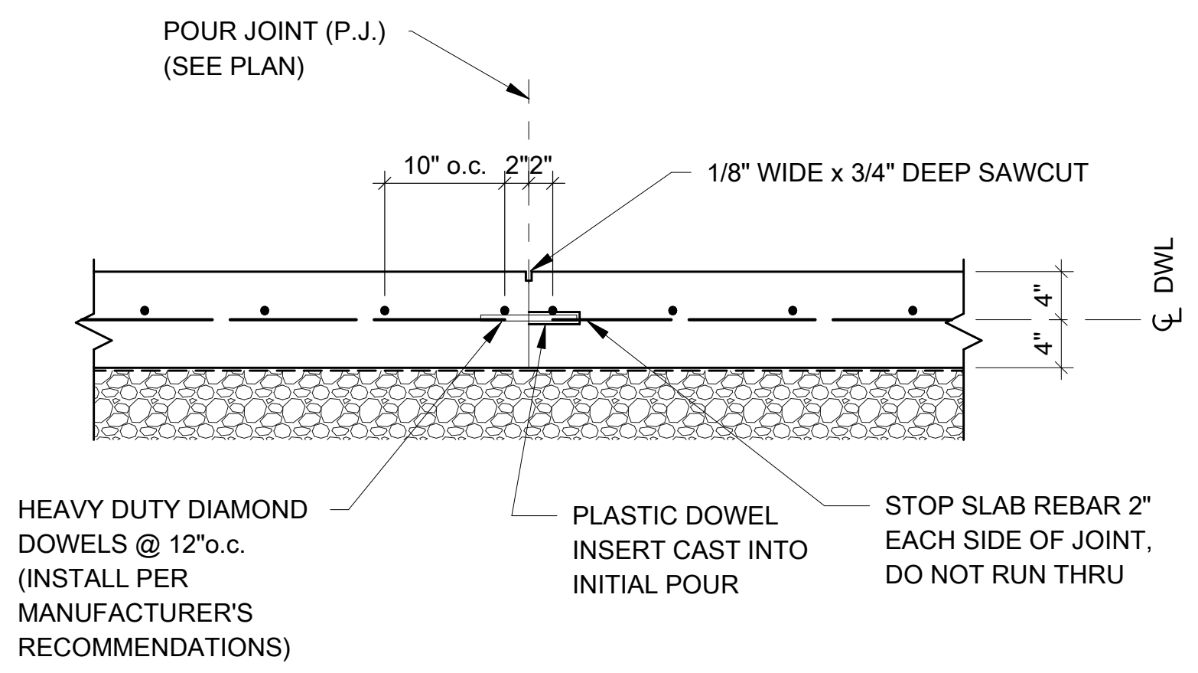


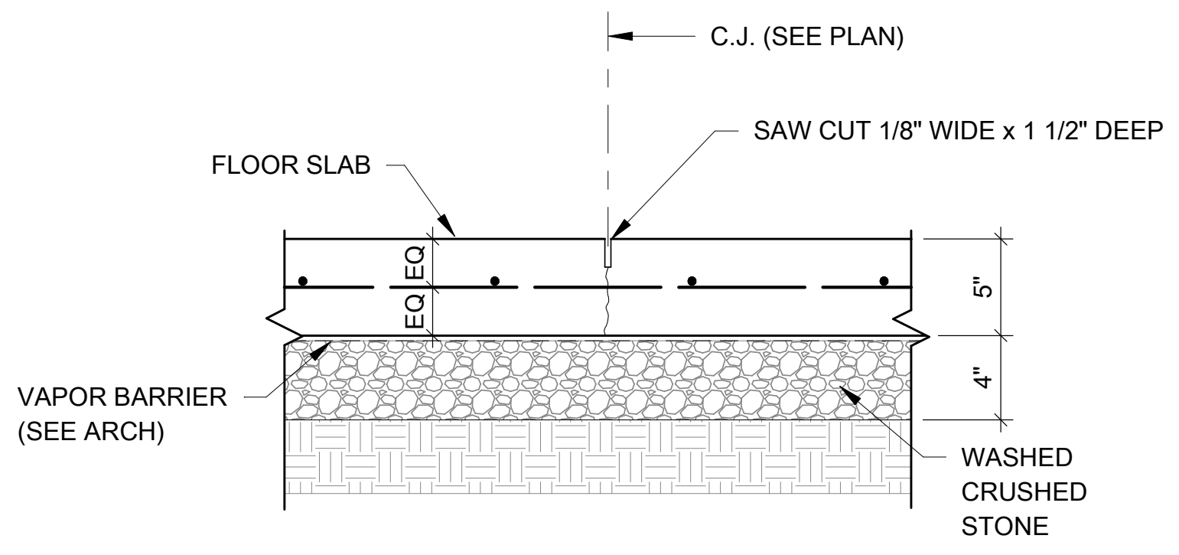
1A SECTION
3" = 1'-0"



2 CONTROL JOINT DETAIL @ 8" SLAB
3/4" = 1'-0"

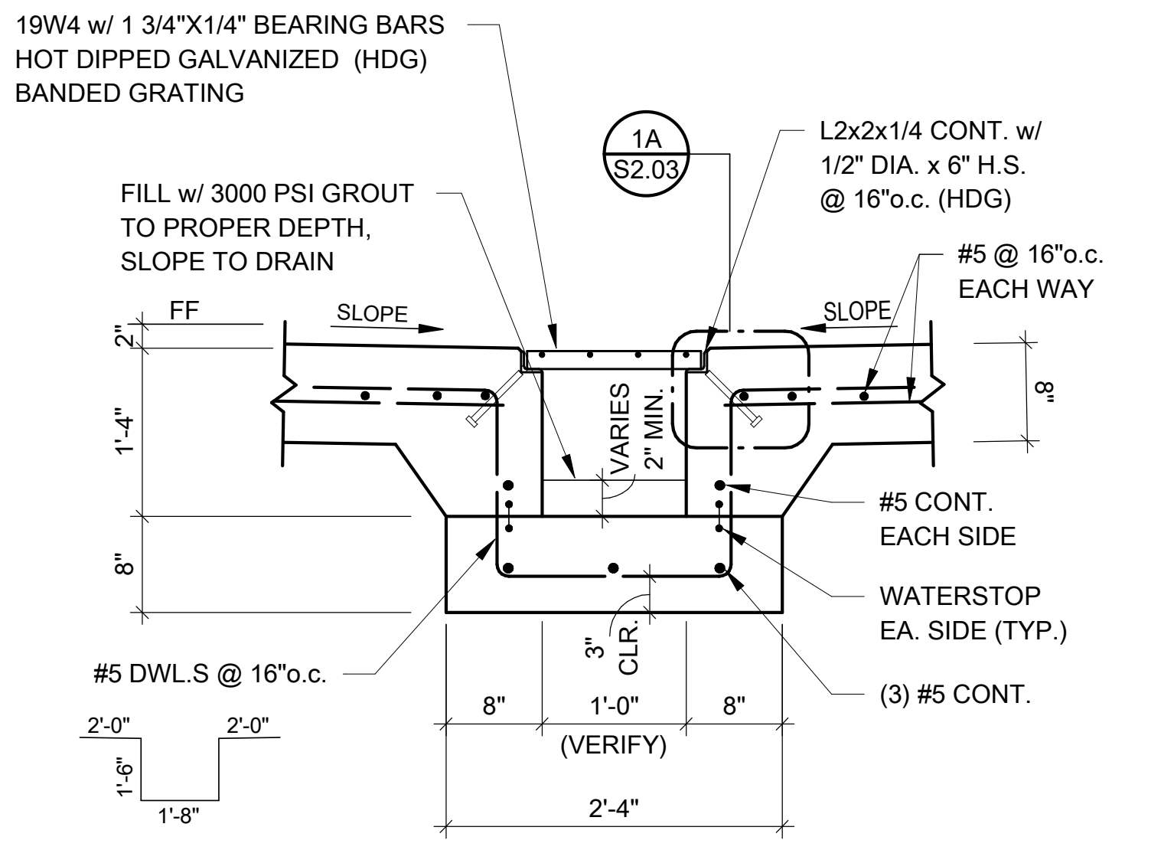


3 POUR JOINT w DOWELS (P.J.)
3/4" = 1'-0"

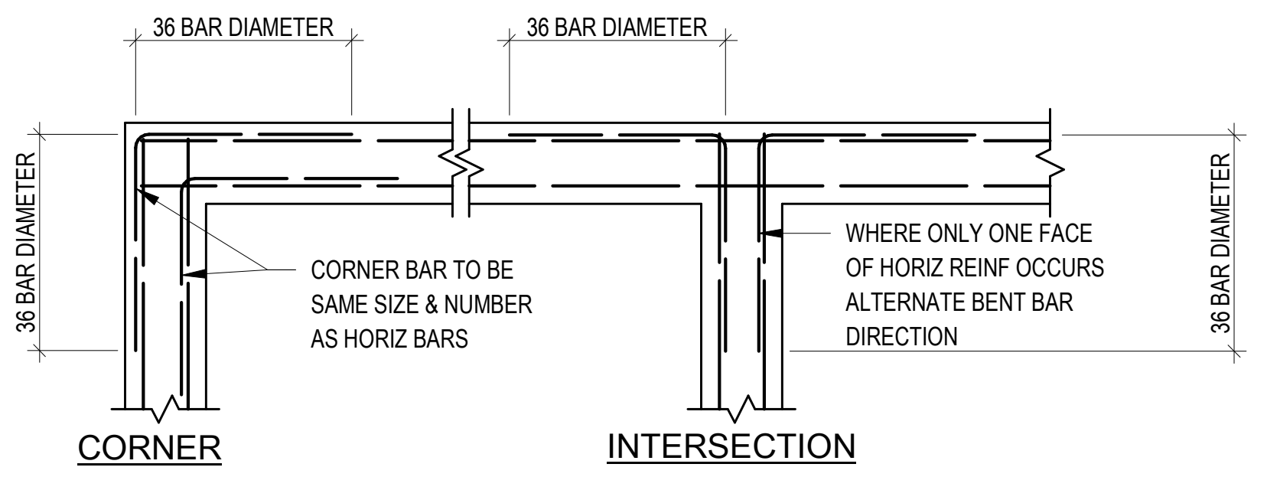


CONTR:
CONTRACTOR IS RESPONSIBLE FOR JOINTS CRACKING AS SHOWN ON PLAN AND DETAIL. SAWING JOINTS SHALL BEGIN AS SOON AS THE SURFACE IS FIRM ENOUGH SO THAT IT WILL NOT BE TORN OR DAMAGED BY THE BLADE. SLABS MUST BE SAWN ON SAME DAY SLAB IS POURED. DO NOT ALLOW SLAB TO CURE OVERNIGHT BEFORE SAWING.

4 CONTROL JOINT DETAIL @ 5" SLAB
N.T.S.

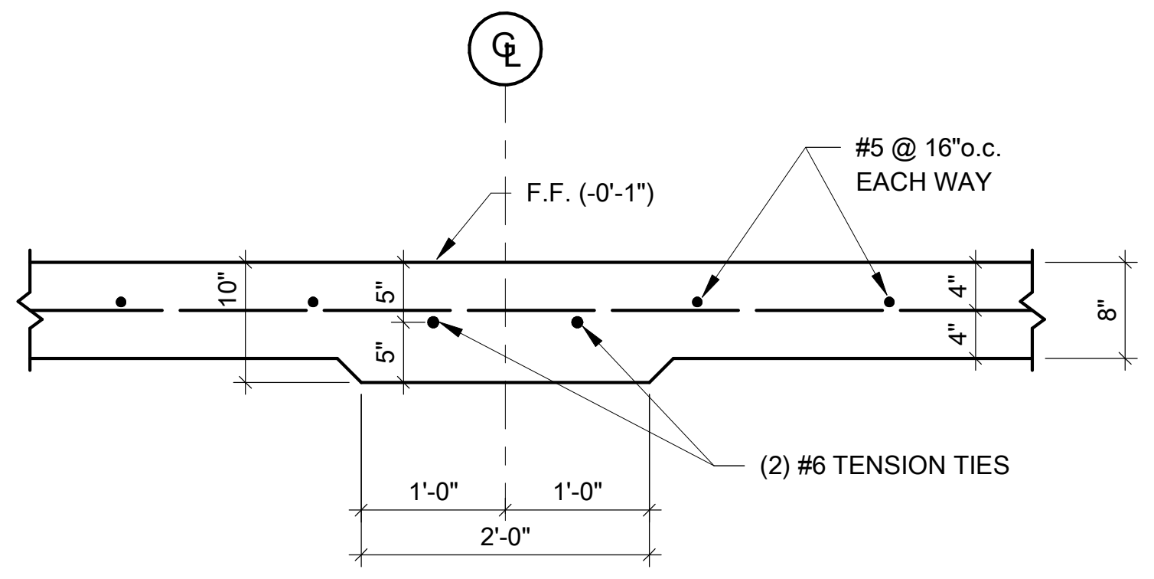


1 SECTION
3/4" = 1'-0"

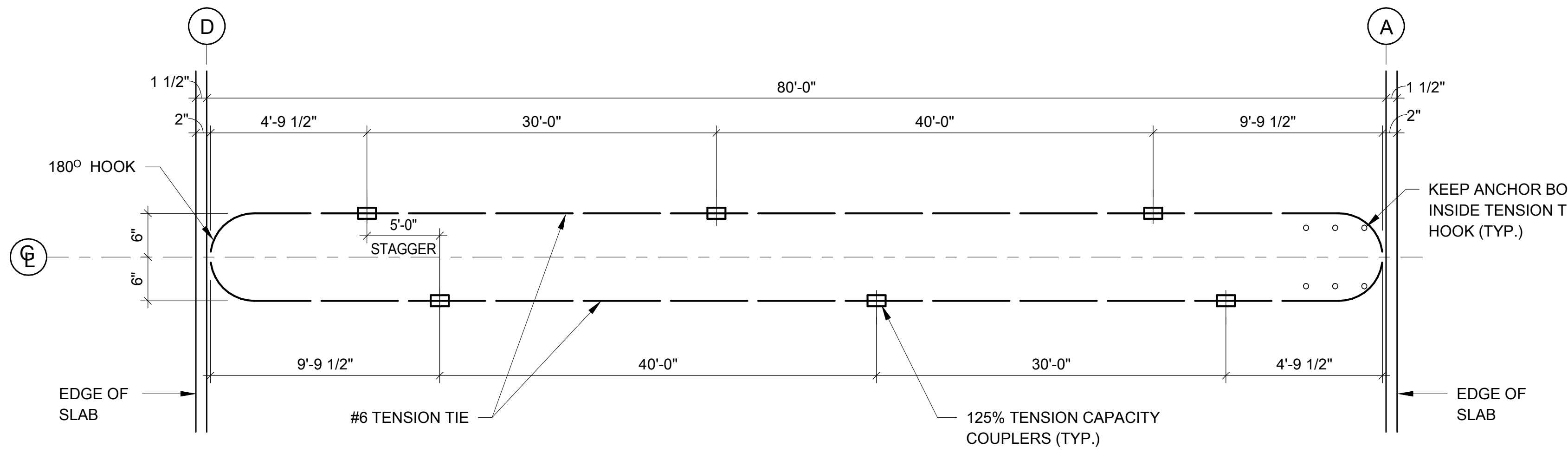


TYPICAL FOR:
- CONC WALLS
- CONC FOOTINGS
- THICKENED SLABS
- BOND BEAMS
- CONC TURNDOWNS

5 TYP. CORNER BAR DETAIL
N.T.S.



6 SECTION @ TENSION TIE
3/4" = 1'-0"



7 TENSION TIE PLAN DETAIL
3/4" = 1'-0"

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FRANK M. ALLISON
8/2/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
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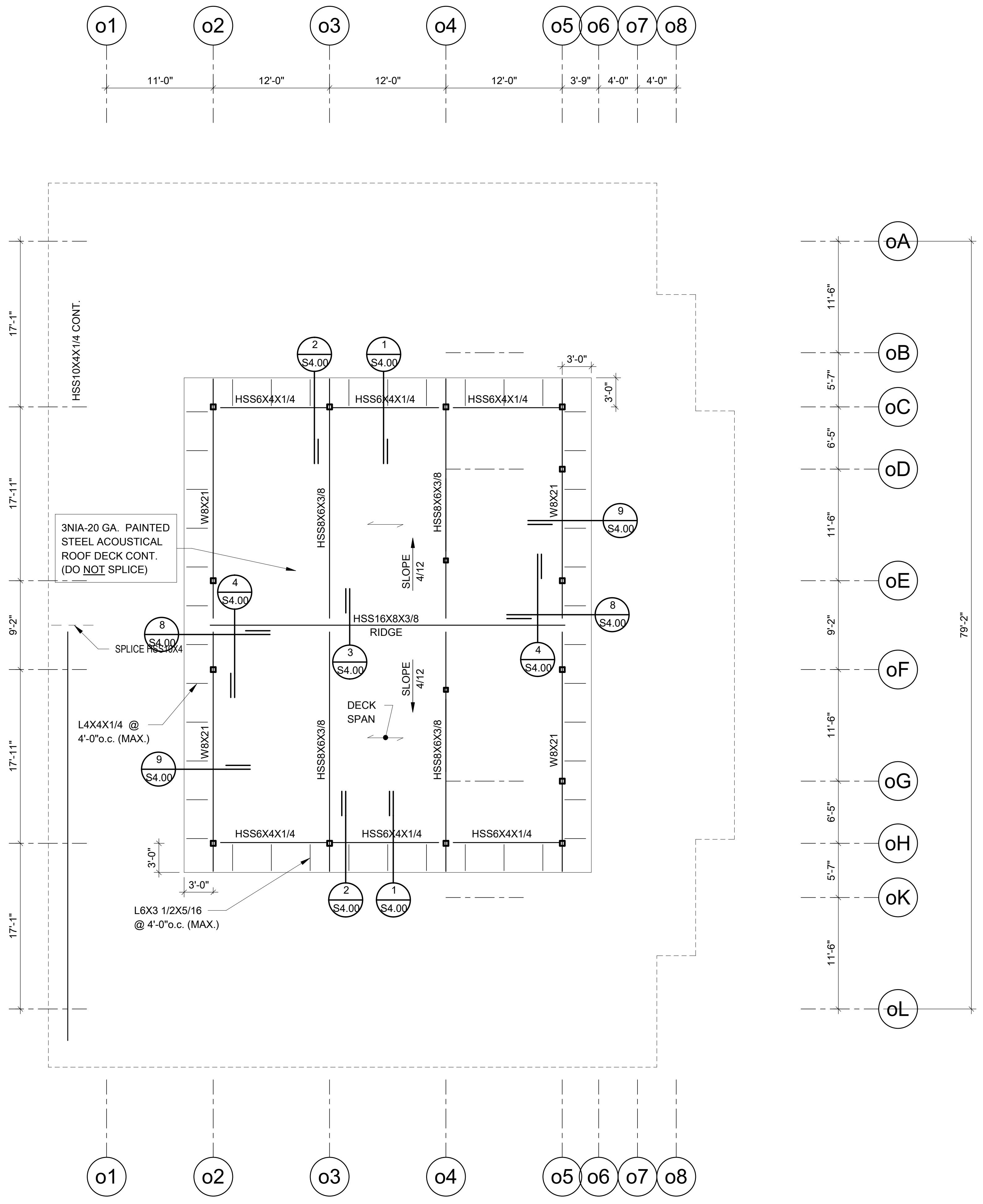
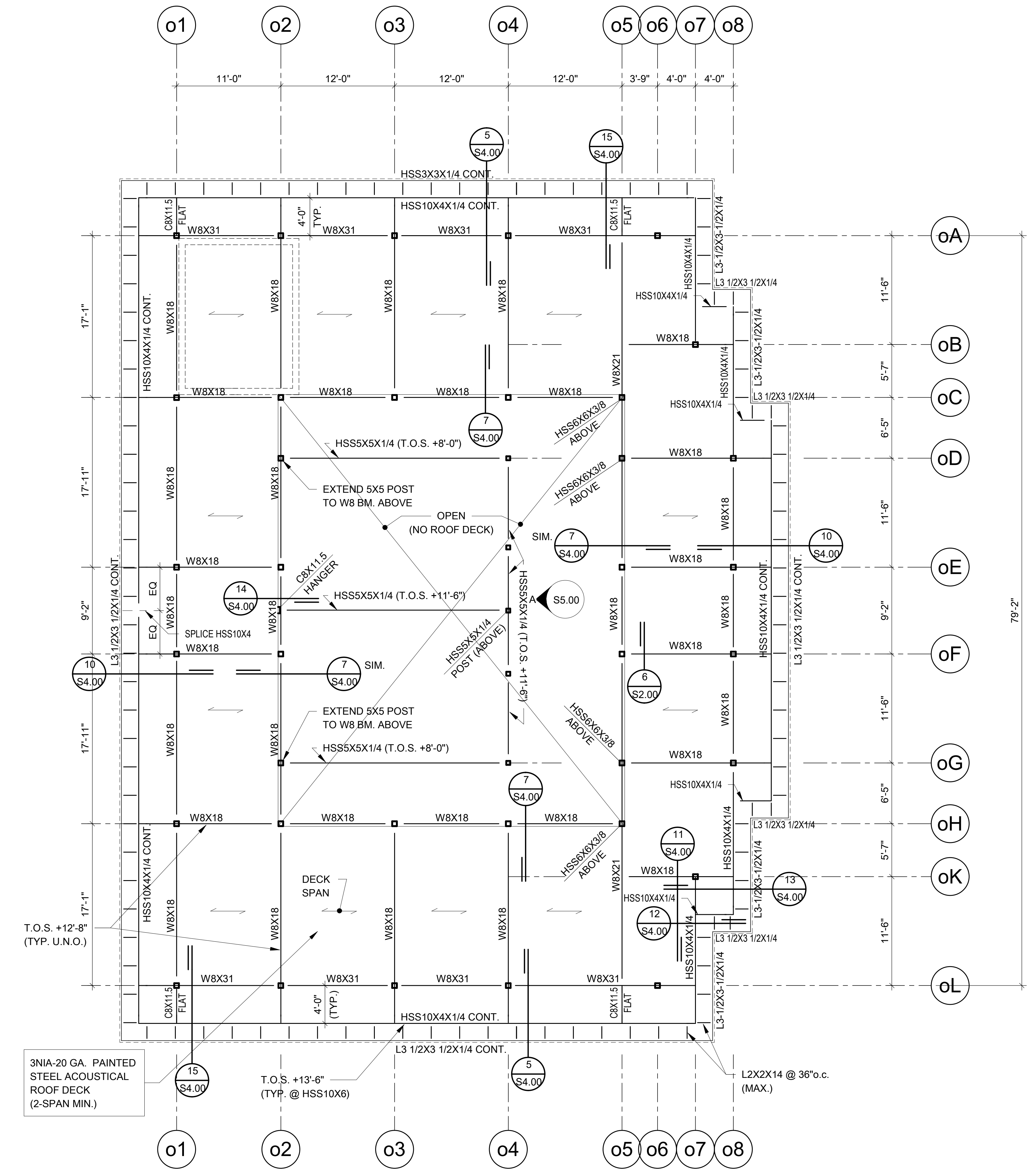


2 OFFICE BUILDING HIGH ROOF FRAMING PLAN

1/8" = 1'-0"



1 OFFICE BUILDING ROOF FRAMING PLAN

1/8" = 1'-0"

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CITY OF BATESVILLE
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
OFFICE BUILDING ROOF FRAMING PLAN

Revision

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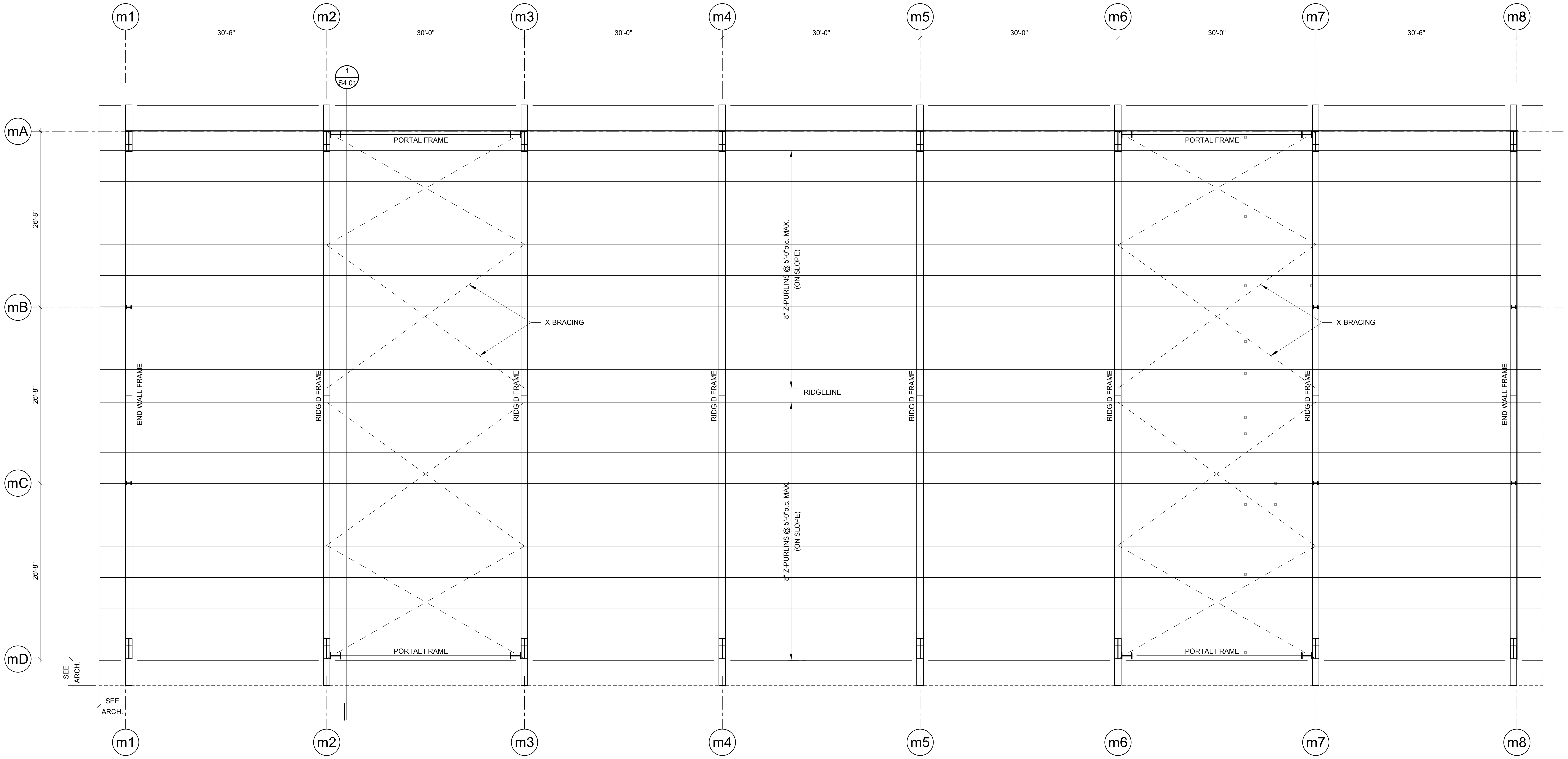

1 MAINTENANCE BUILDING ROOF FRAMING PLAN

1/8" = 1'-0"

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

MAINTENANCE BUILDING ROOF FRAMING PLAN

Revision

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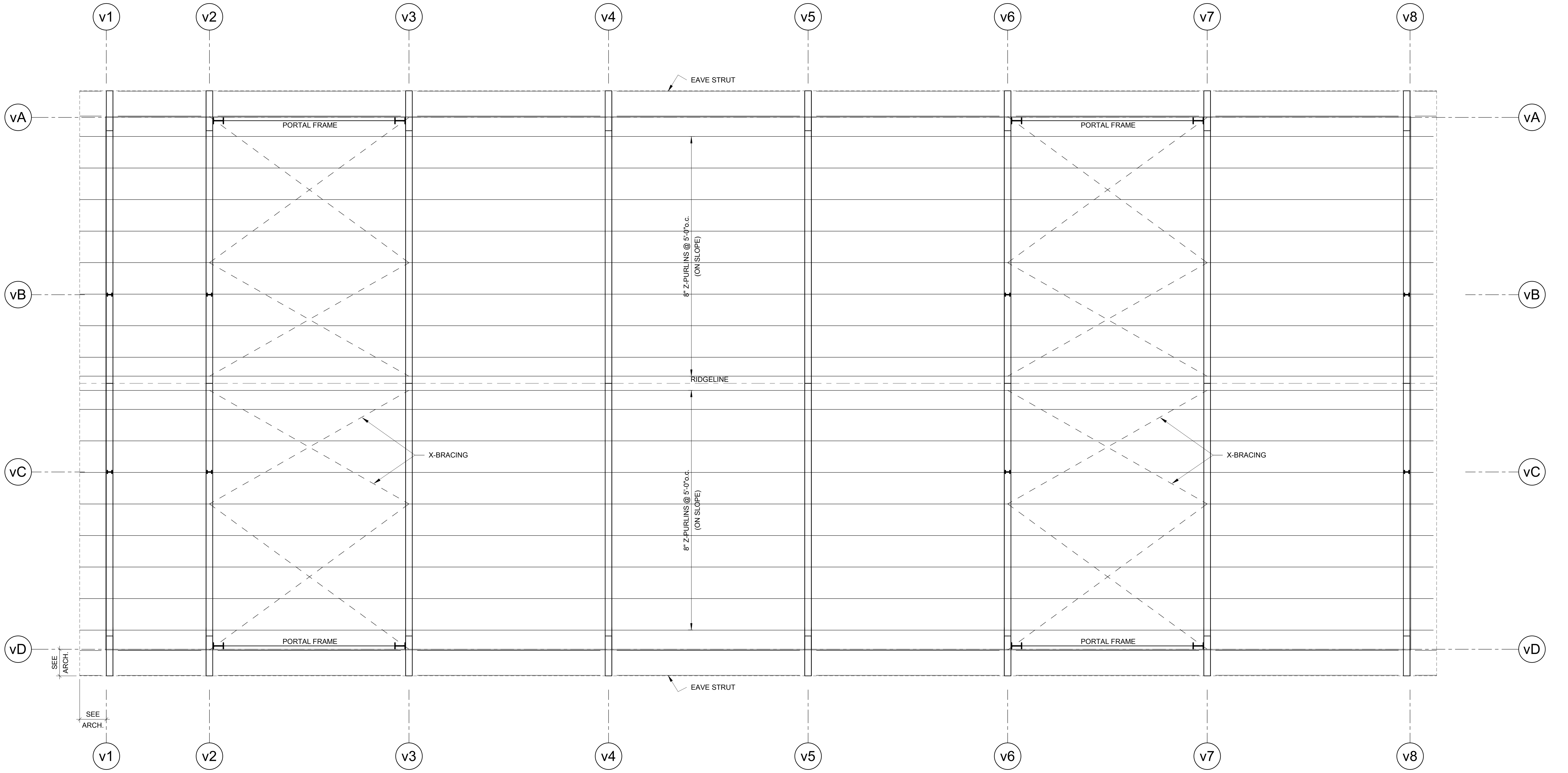

1 VEHICLE STORAGE BUILDING ROOF FRAMING PLAN

1/8" = 1'-0"

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

VEHICLE STORAGE BUILDING ROOF FRAMING PLAN

Revision	
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Project No.: 2106601CBATE

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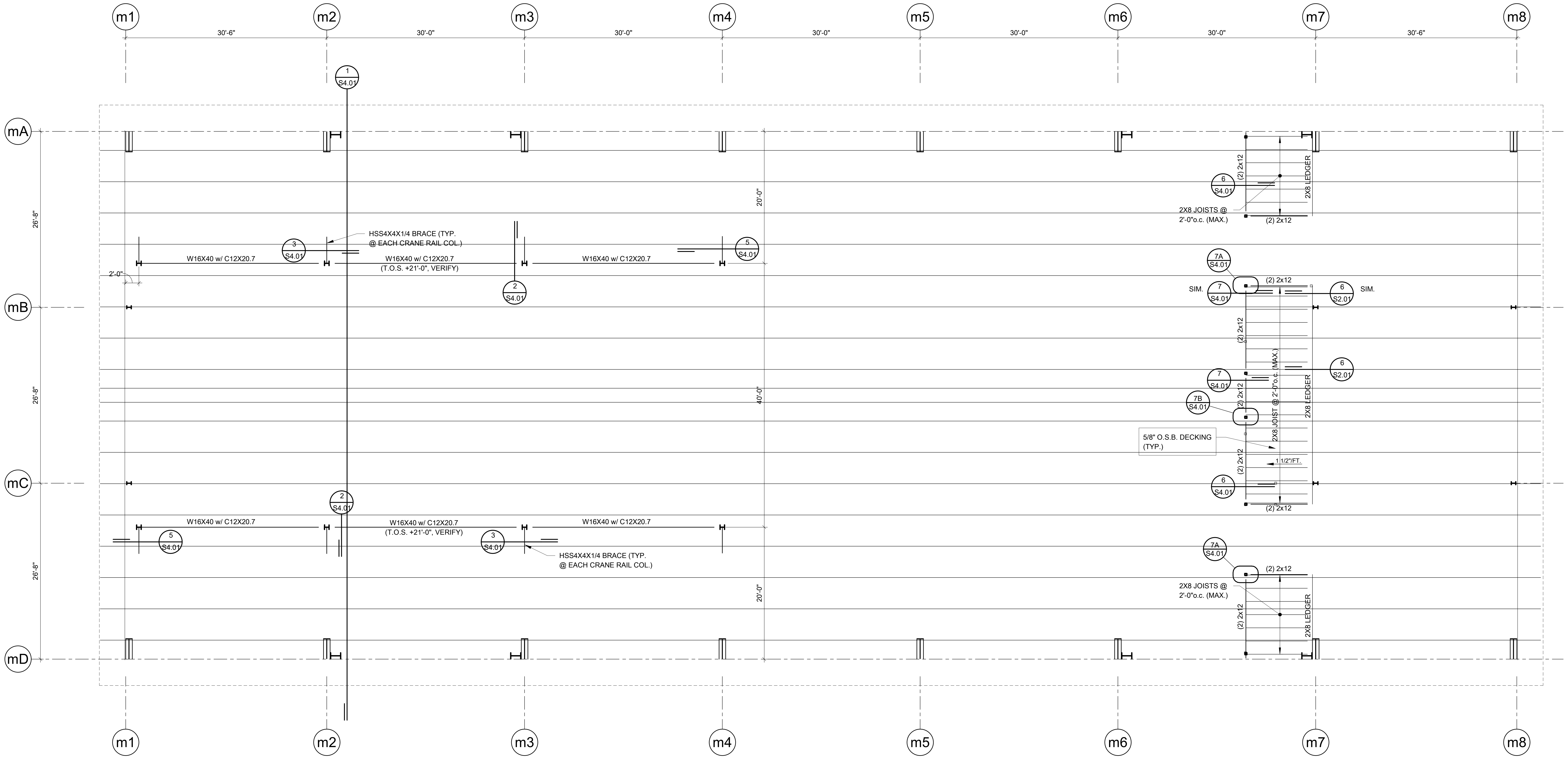

1 MAINTENANCE BUILDING CRANE RAIL FRAMING PLAN

1/8" = 1'-0"

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
MAINTENANCE BUILDING CRANE RAIL FRAMING PLAN

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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Checked By: ECI

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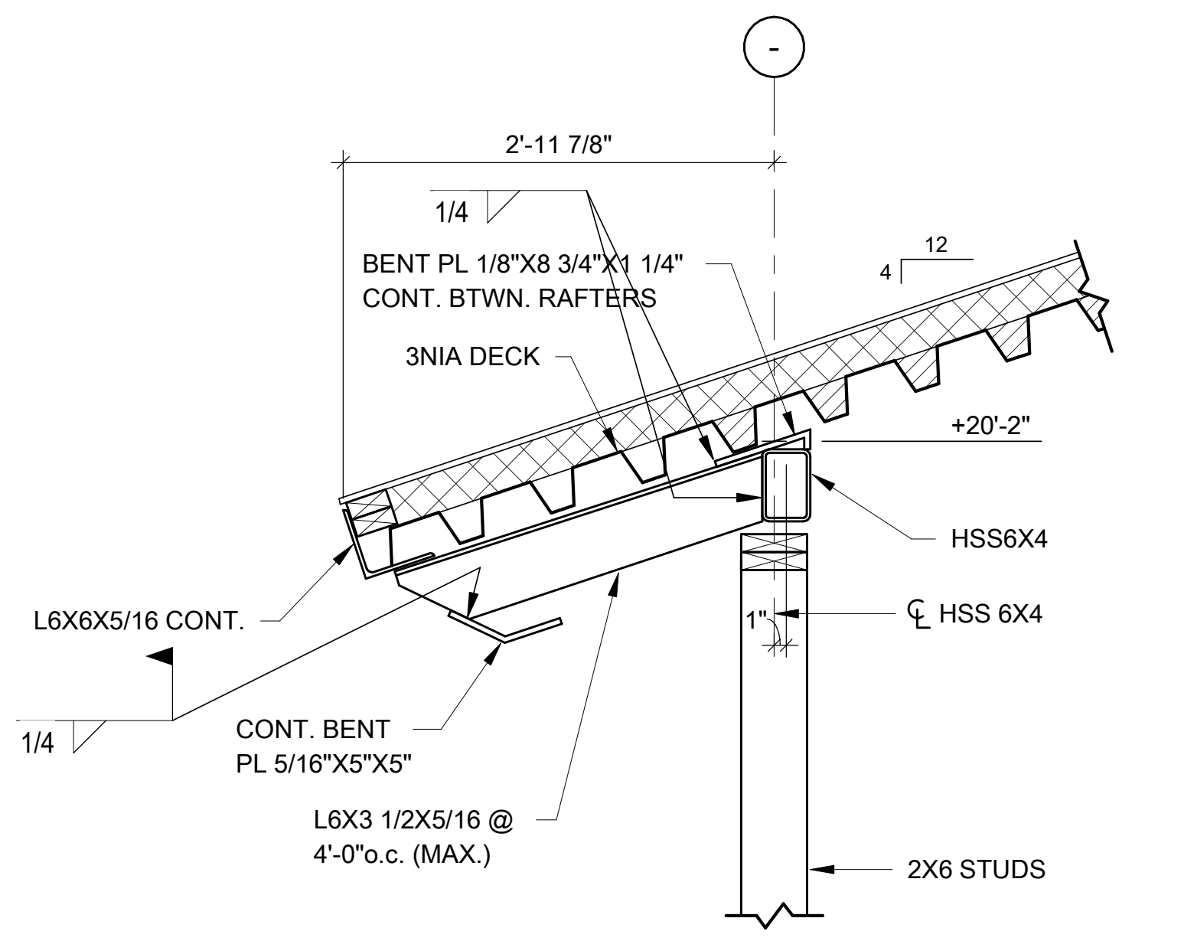
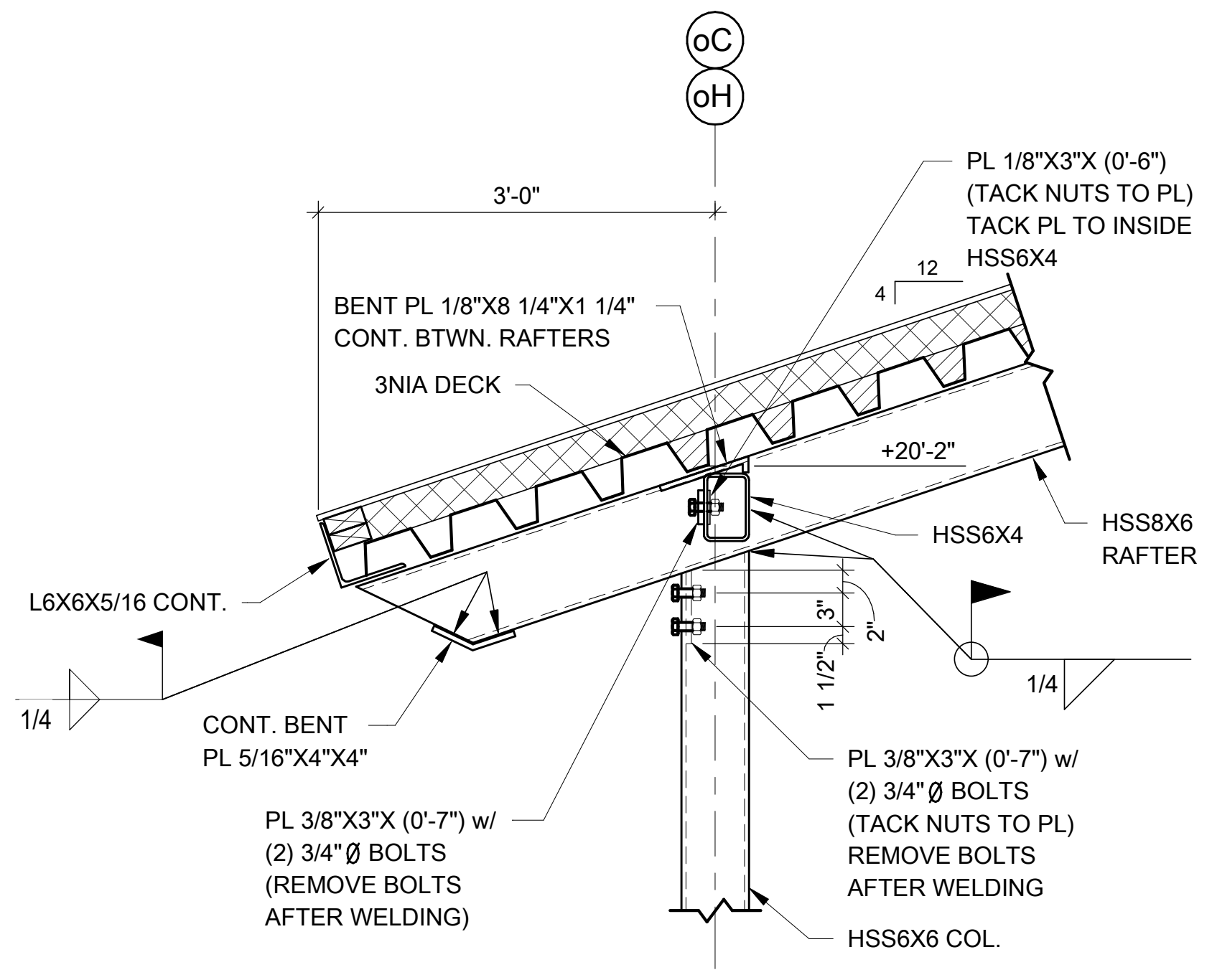
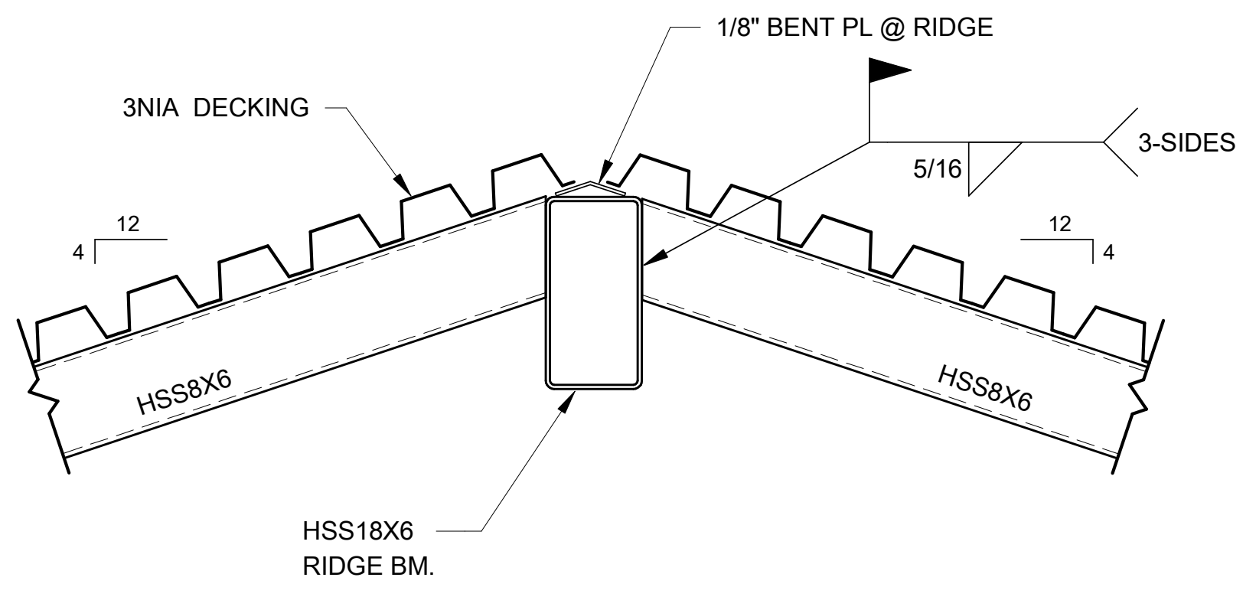


① SECTION
3/4" = 1'-0"



② SECTION
3/4" = 1'-0"



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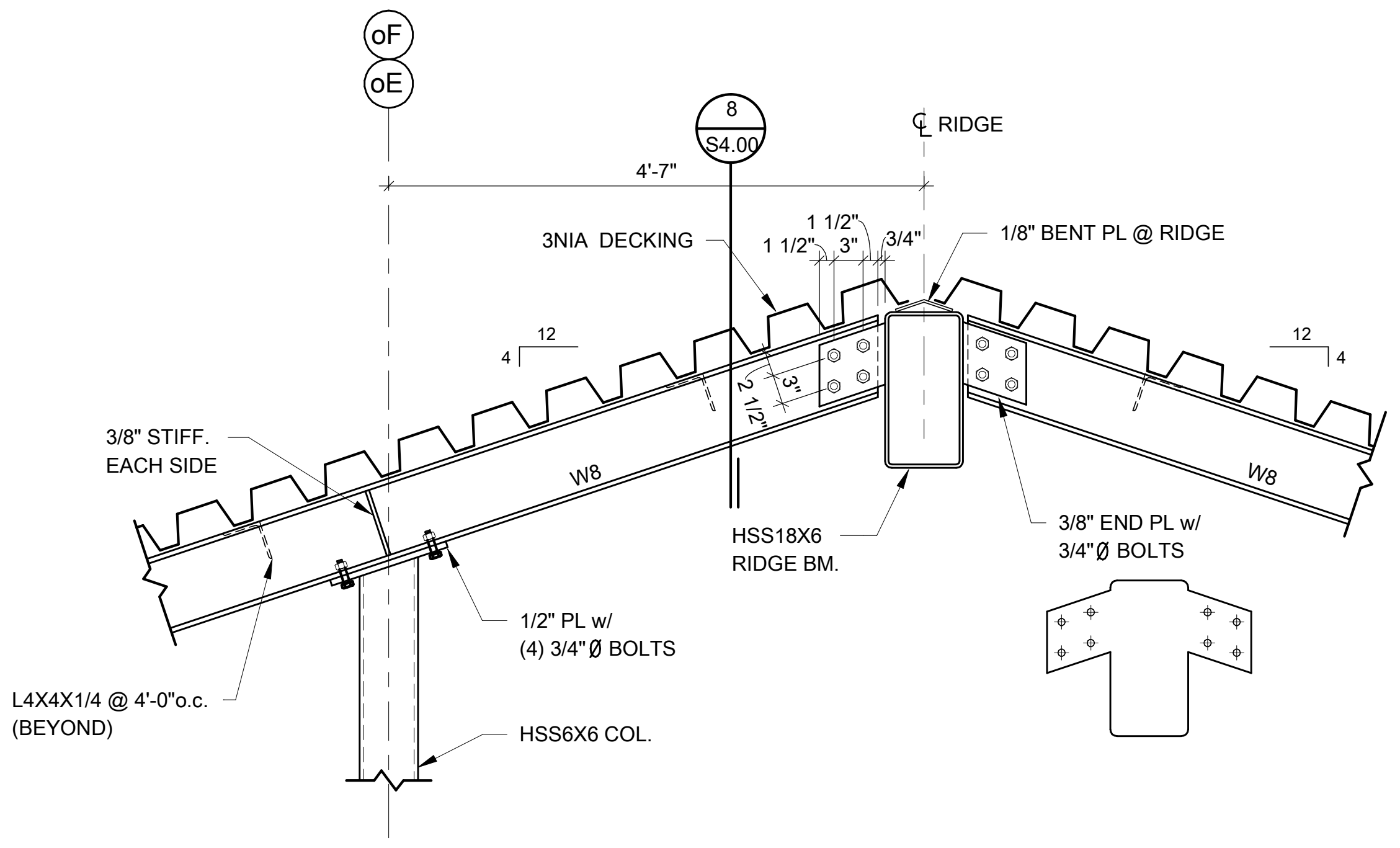
3/4" = 1'-0"



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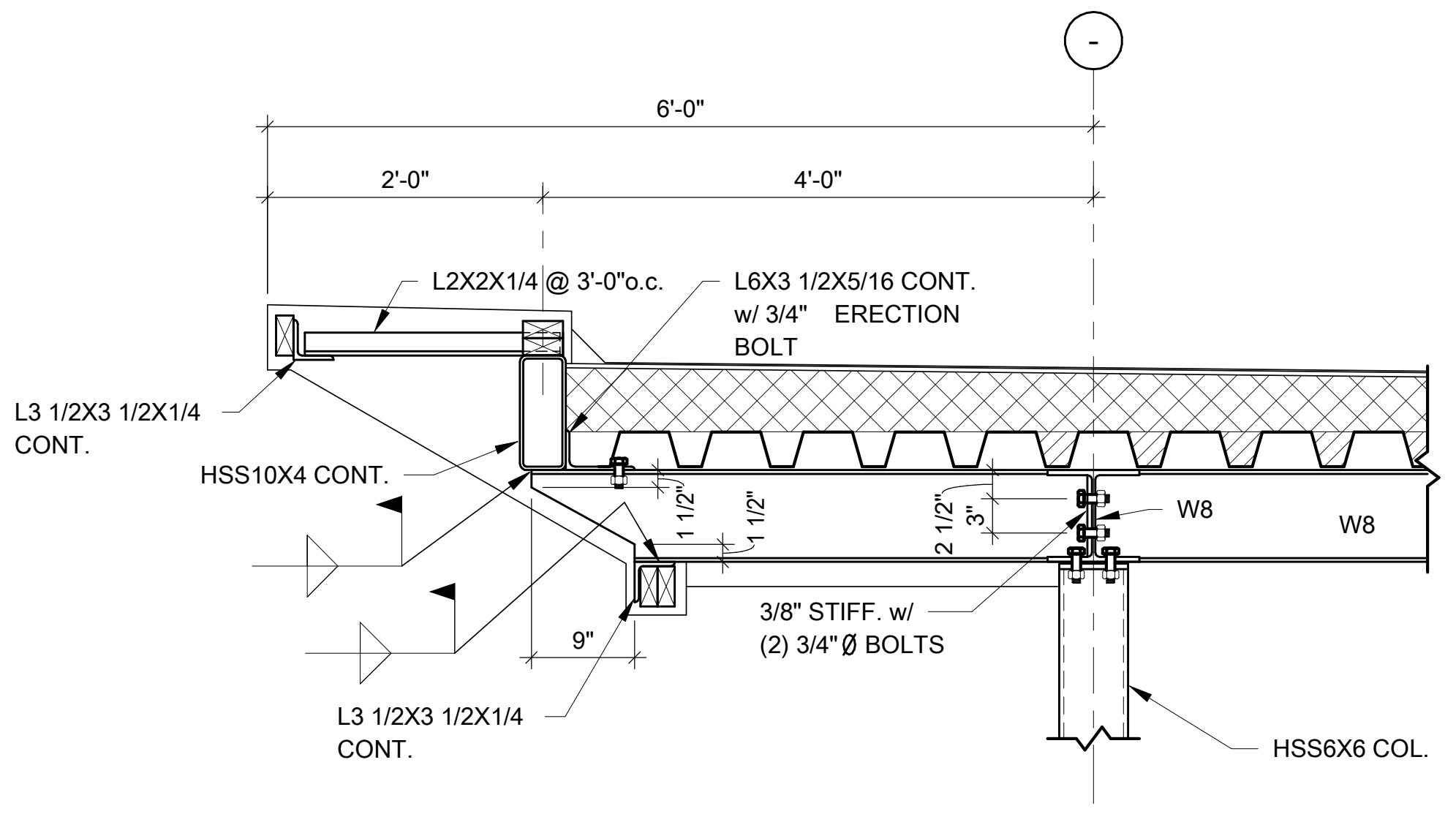

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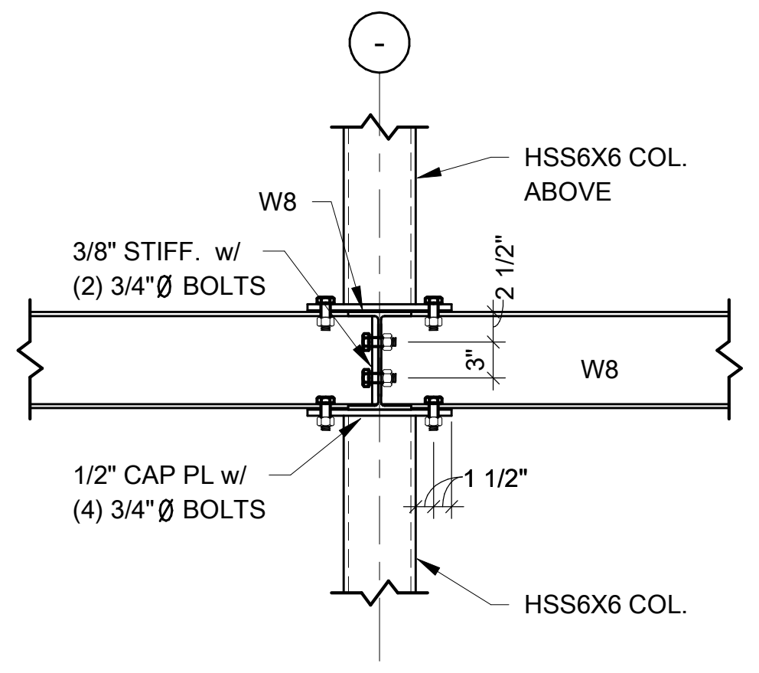

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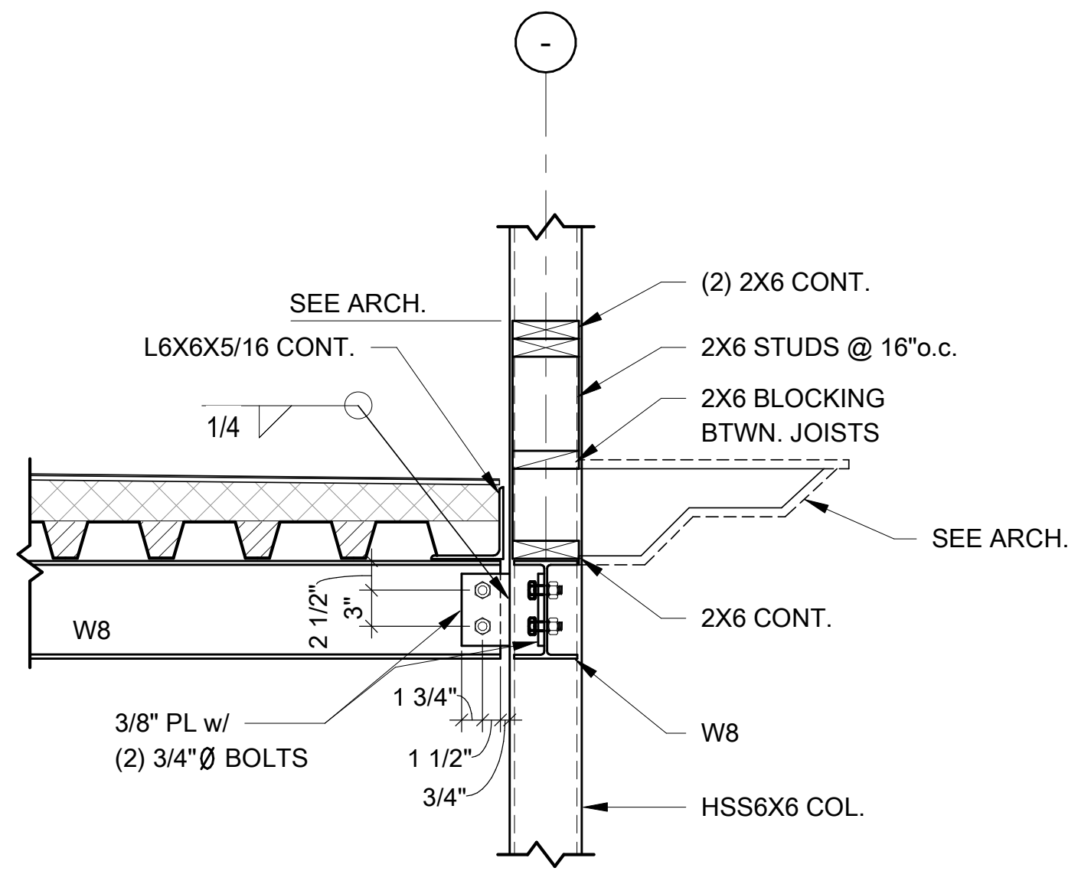

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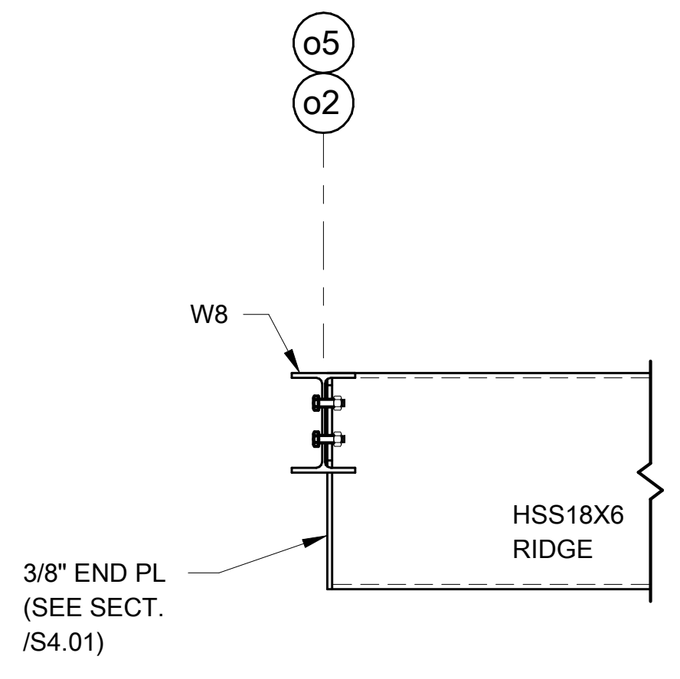

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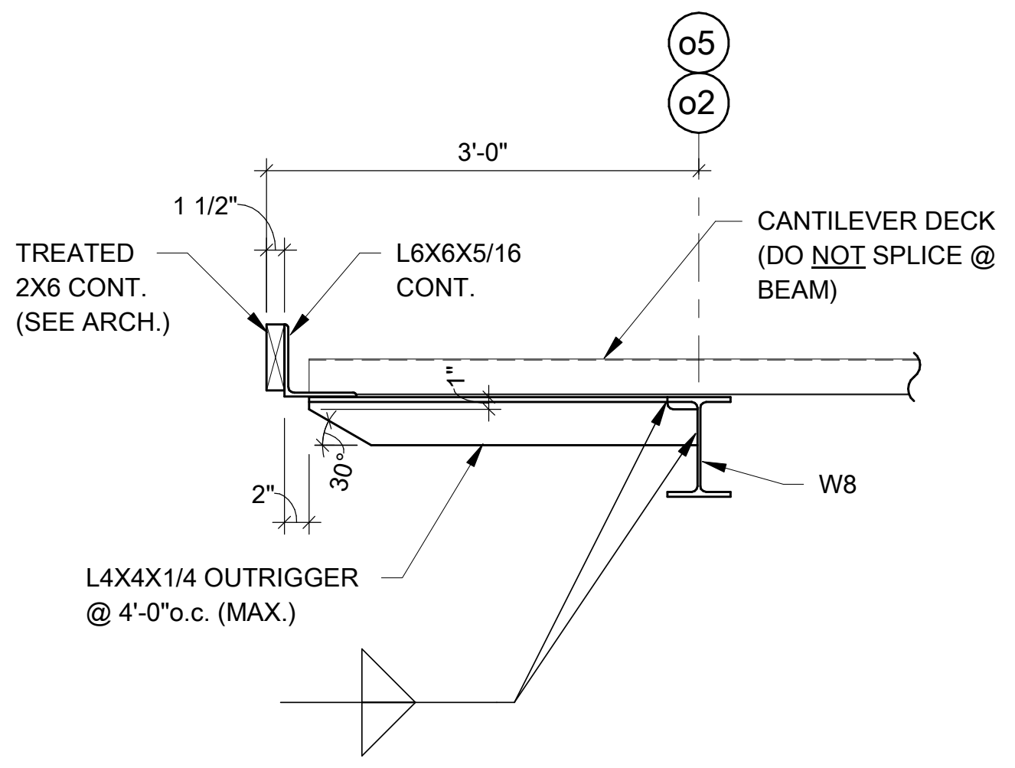

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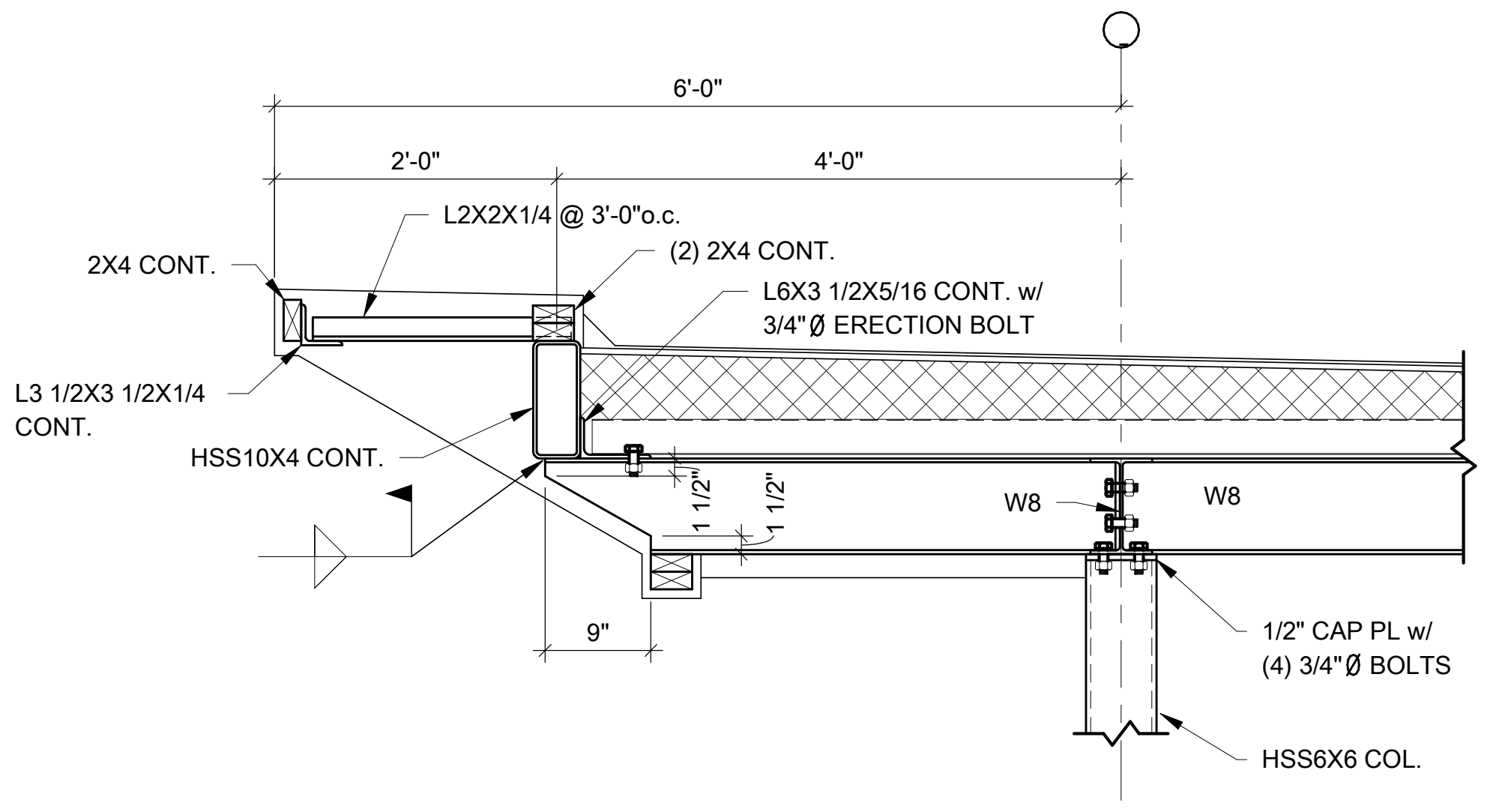
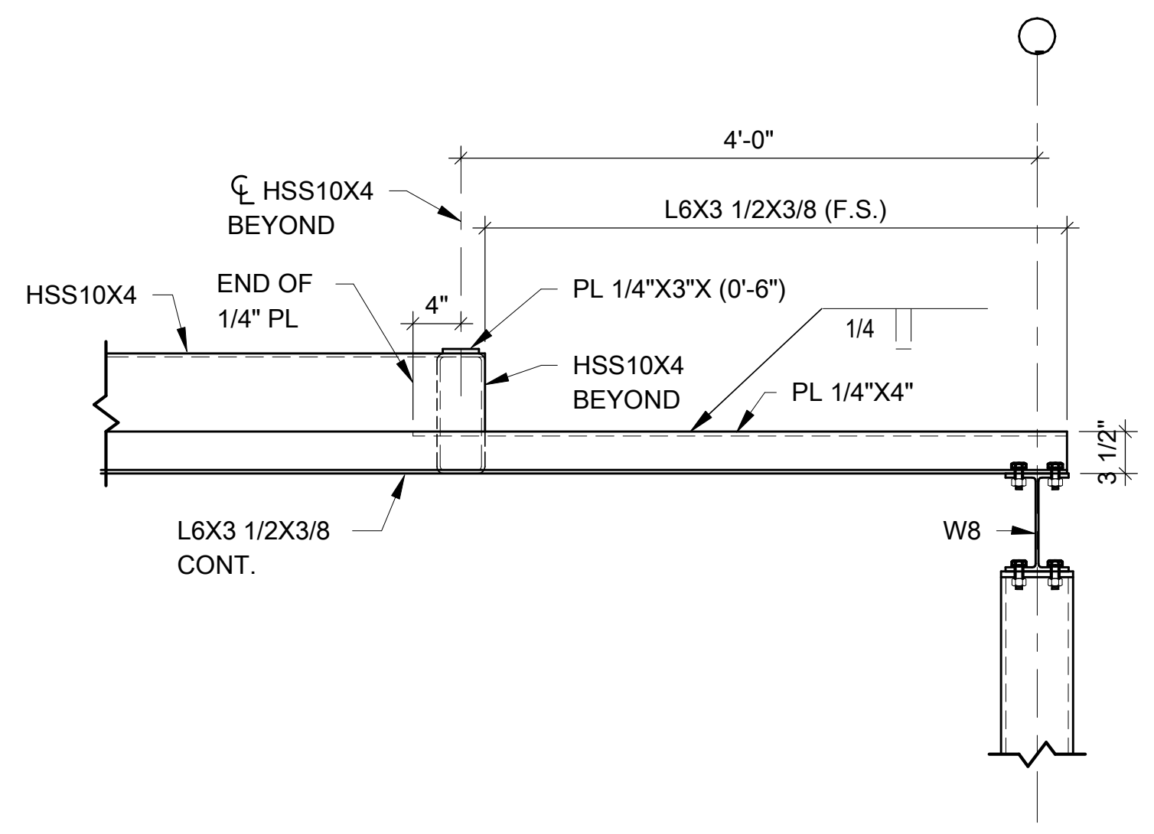
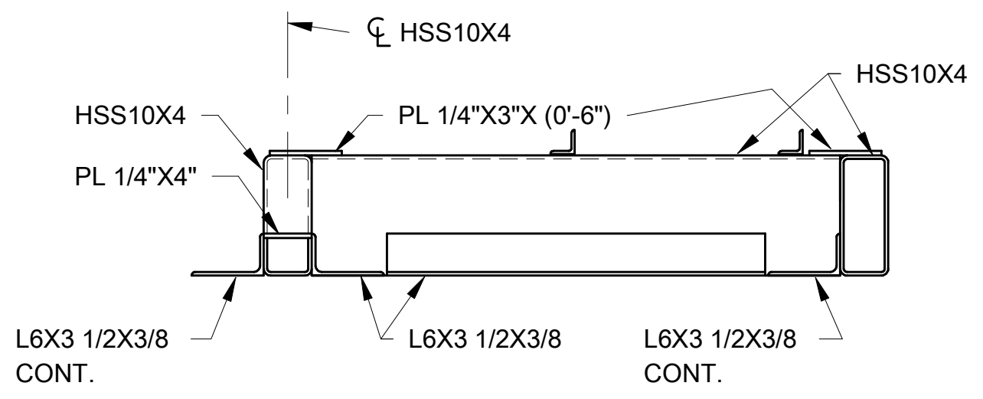


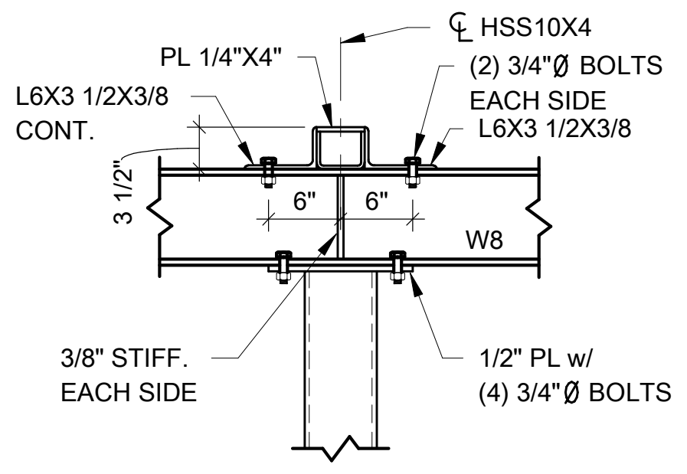
⑩ SECTION
3/4" = 1'-0"



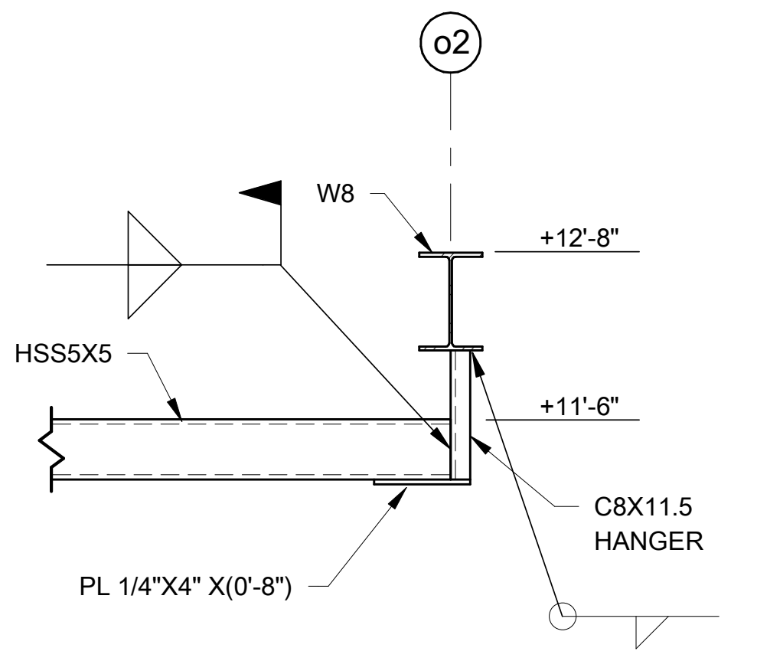
⑪ SECTION
3/4" = 1'-0"



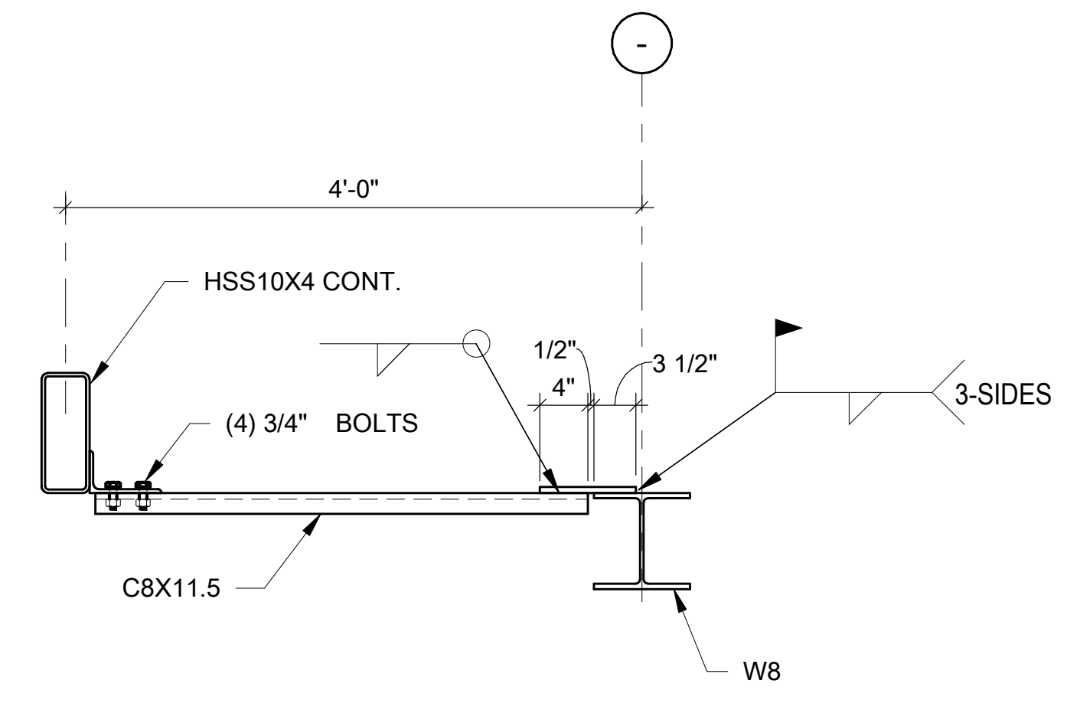
⑫ SECTION
3/4" = 1'-0"



⑬ SECTION
3/4" = 1'-0"



⑭ SECTION
3/4" = 1'-0"



⑮ SECTION
3/4" = 1'-0"

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No. 5920
FRANK M. ALLISON
8/2/22

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CITY OF BATESVILLE
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

FRAMING DETAILS

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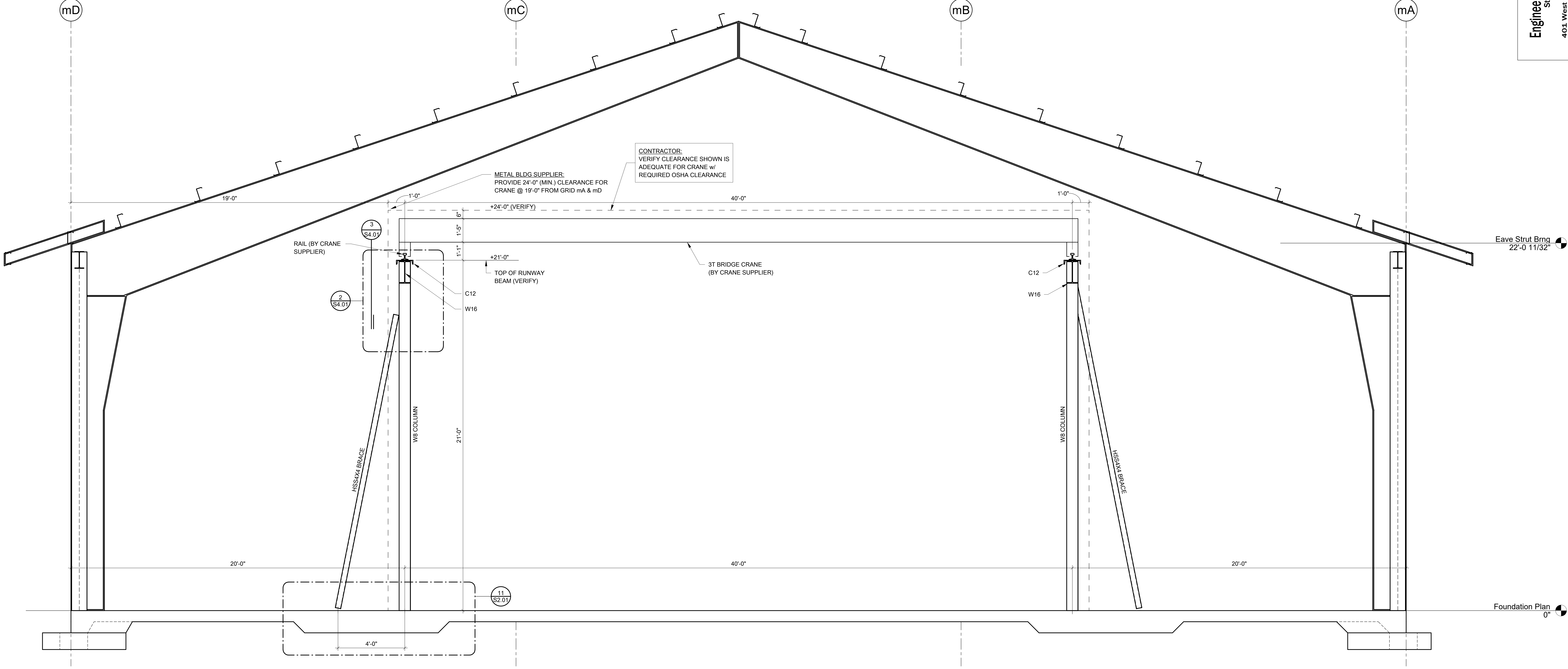
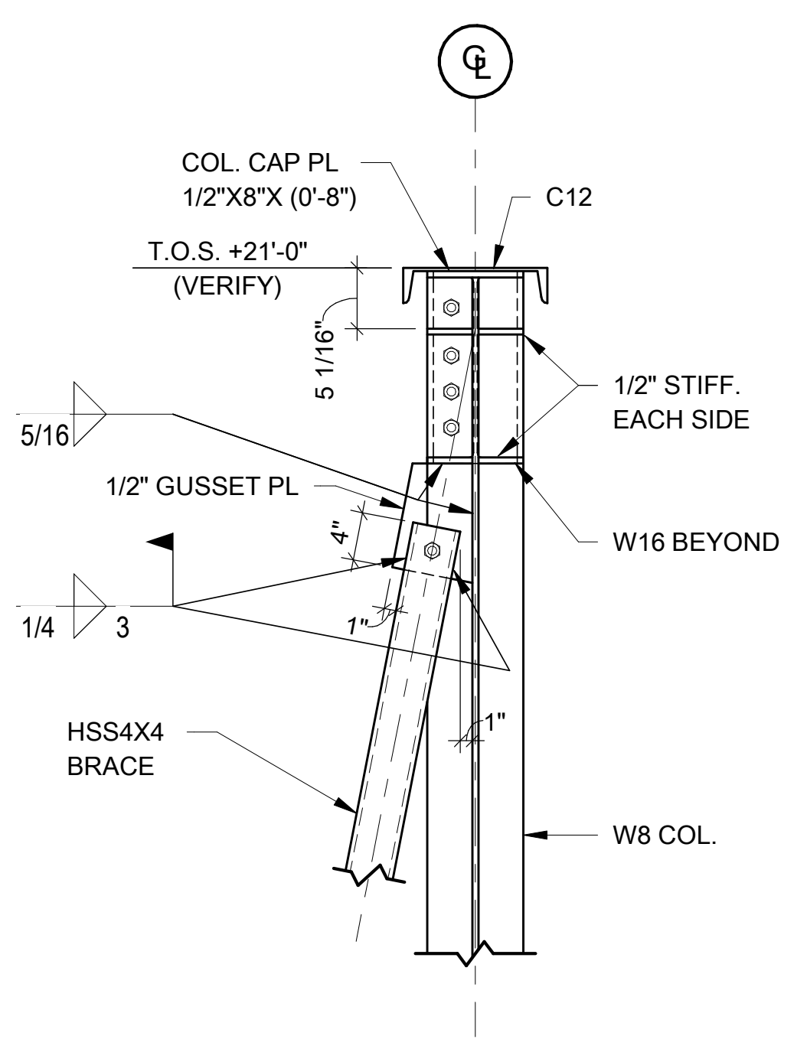


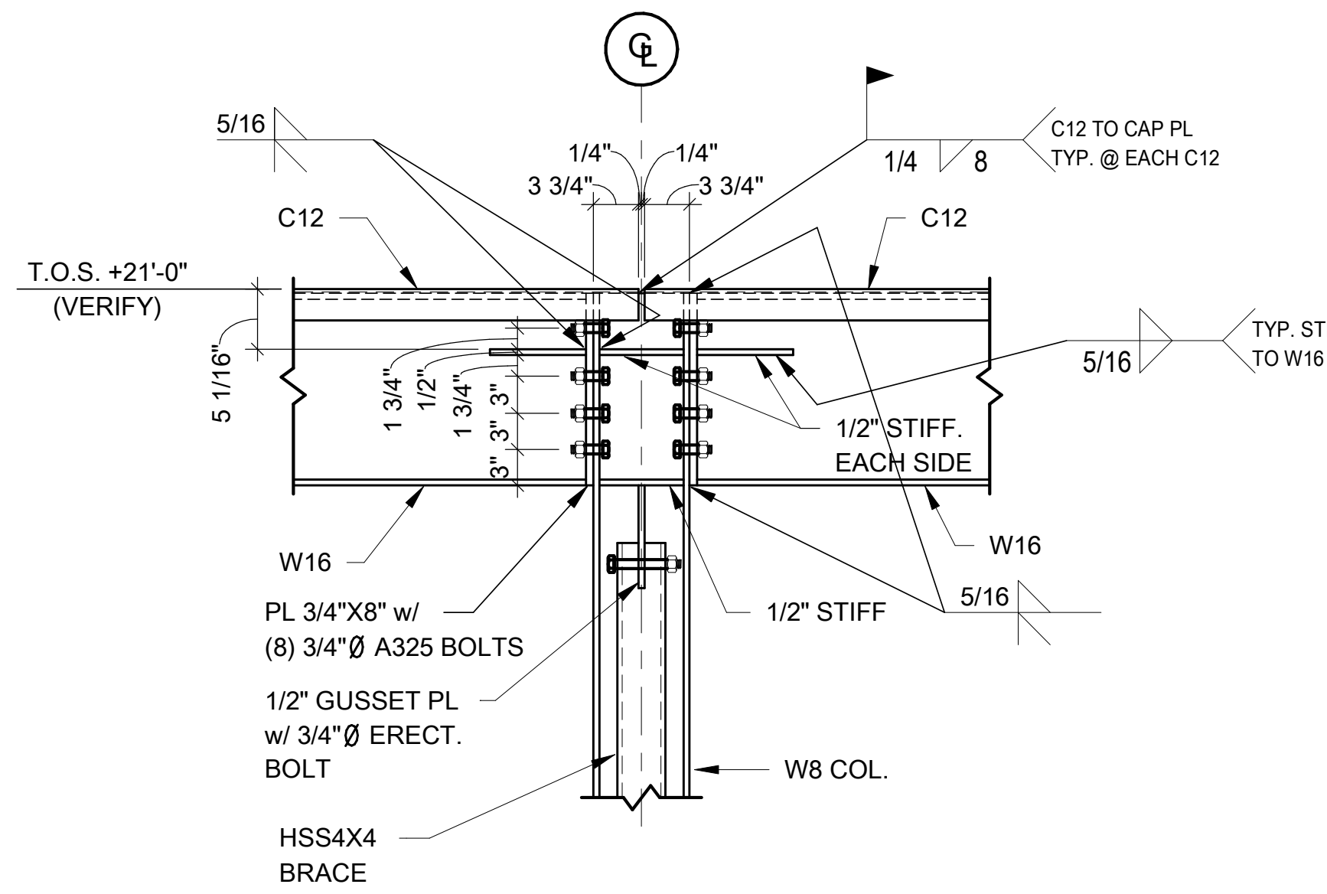
METAL BLDG SUPPLIER:
PROVIDE 24'-0" (MIN.) CLEARANCE FOR CRANE @ 19'-0" FROM GRID mA & mD

CONTRACTOR:
VERIFY CLEARANCE SHOWN IS ADEQUATE FOR CRANE w/ REQUIRED OSHA CLEARANCE

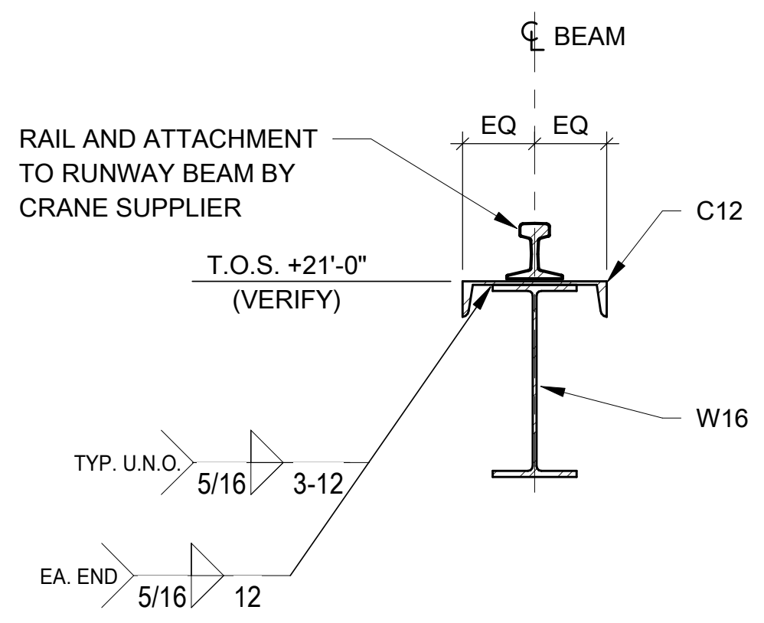
1 BUILDING SECTION @ CRAIN RAIL
3/8" = 1'-0"



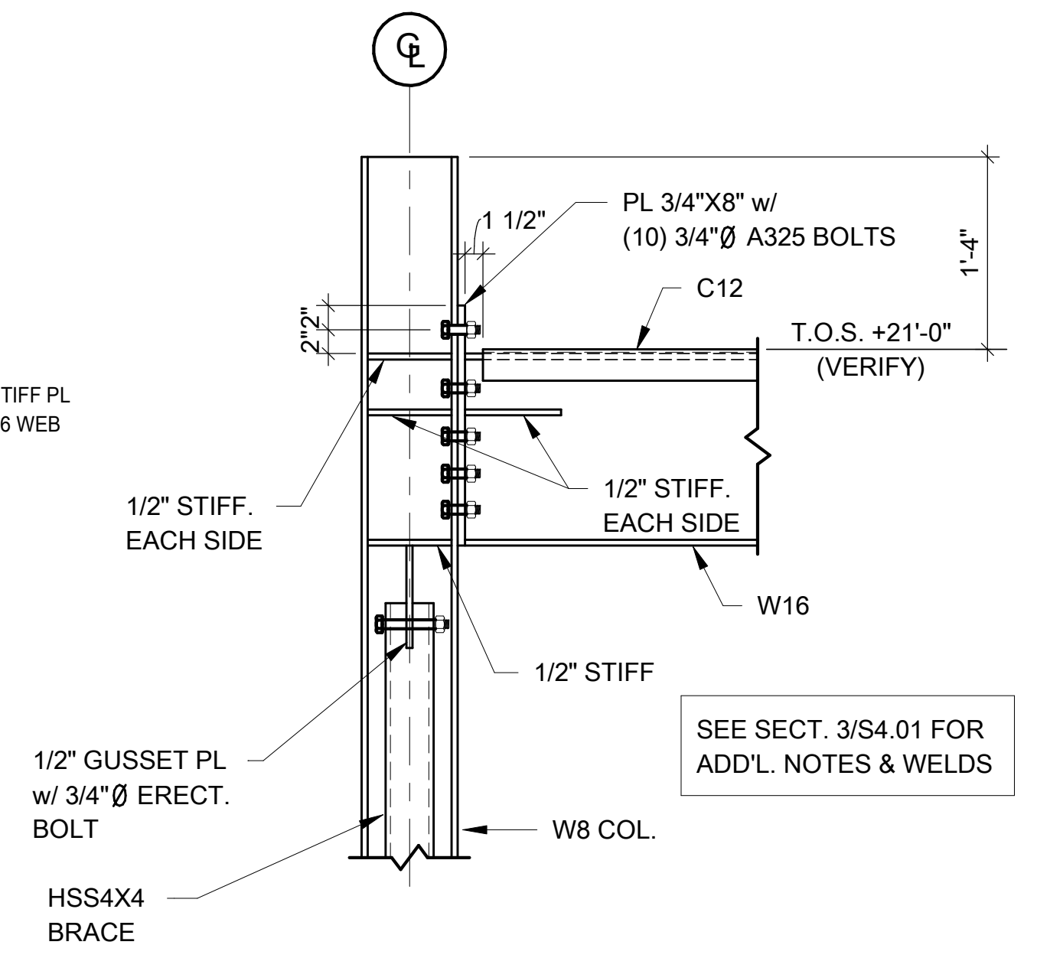
2 SECTION
3/4" = 1'-0"



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

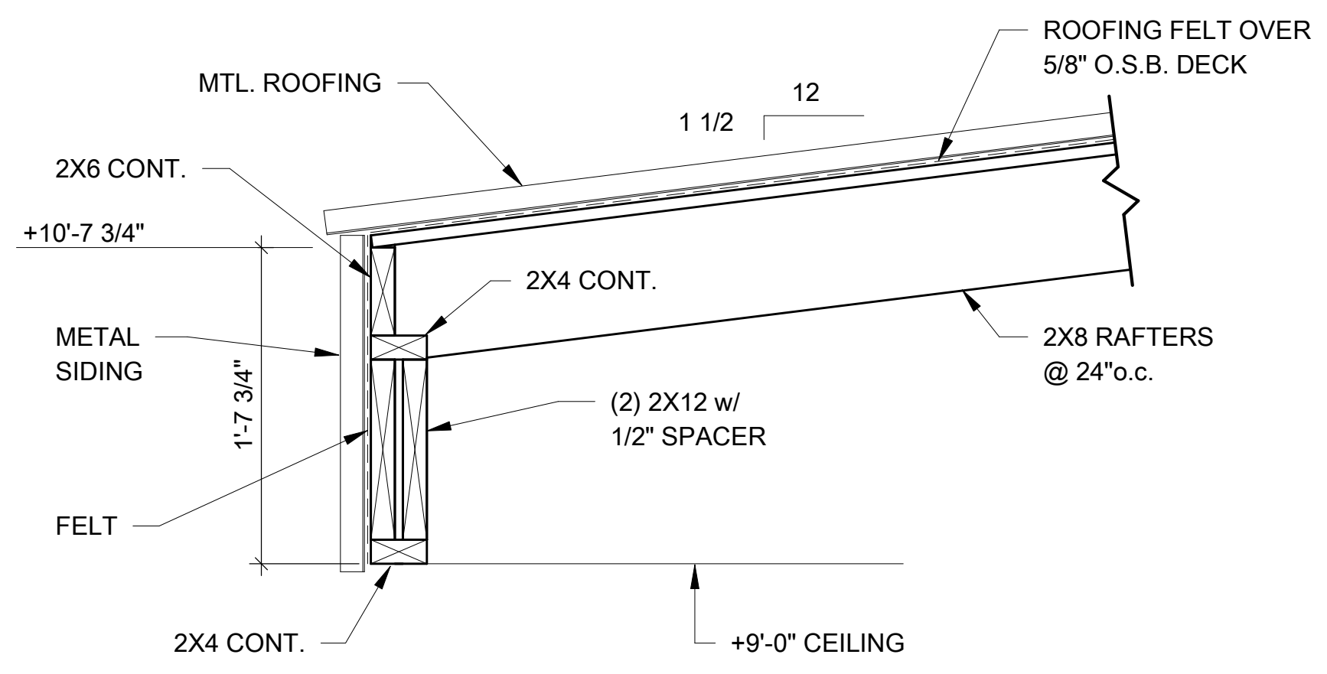


4 SECTION
3/4" = 1'-0"

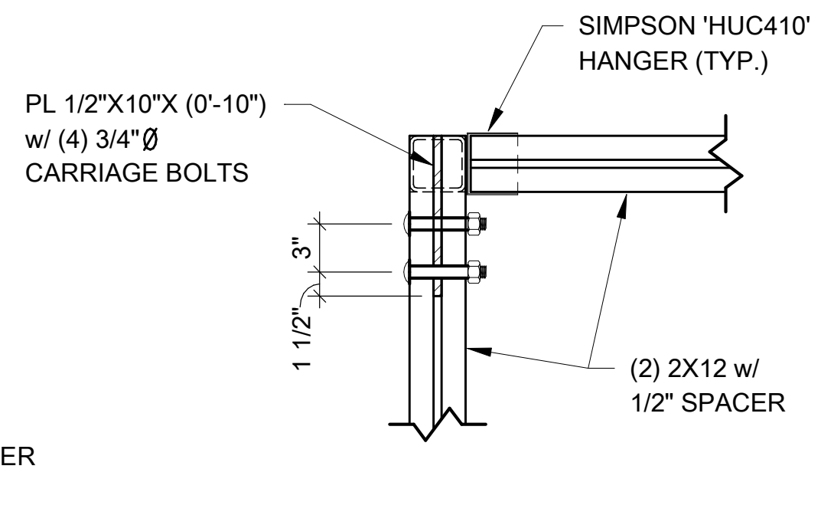


SEE SECT. 3/S4.01 FOR ADD'L. NOTES & WELDS

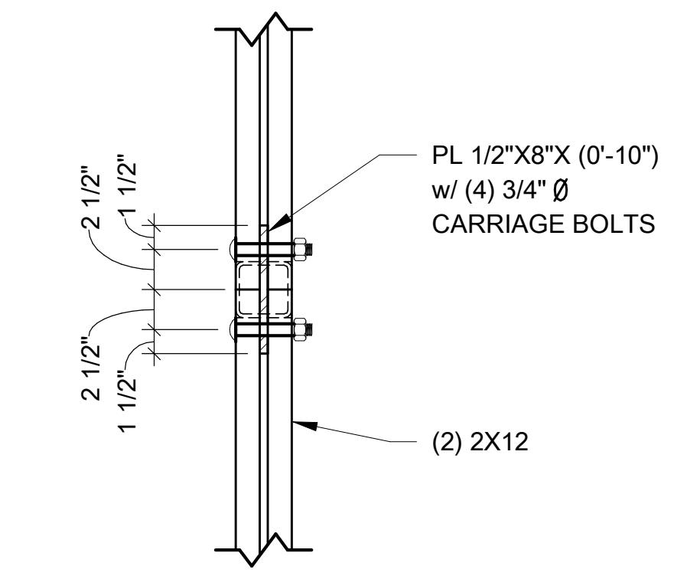
5 SECTION
3/4" = 1'-0"



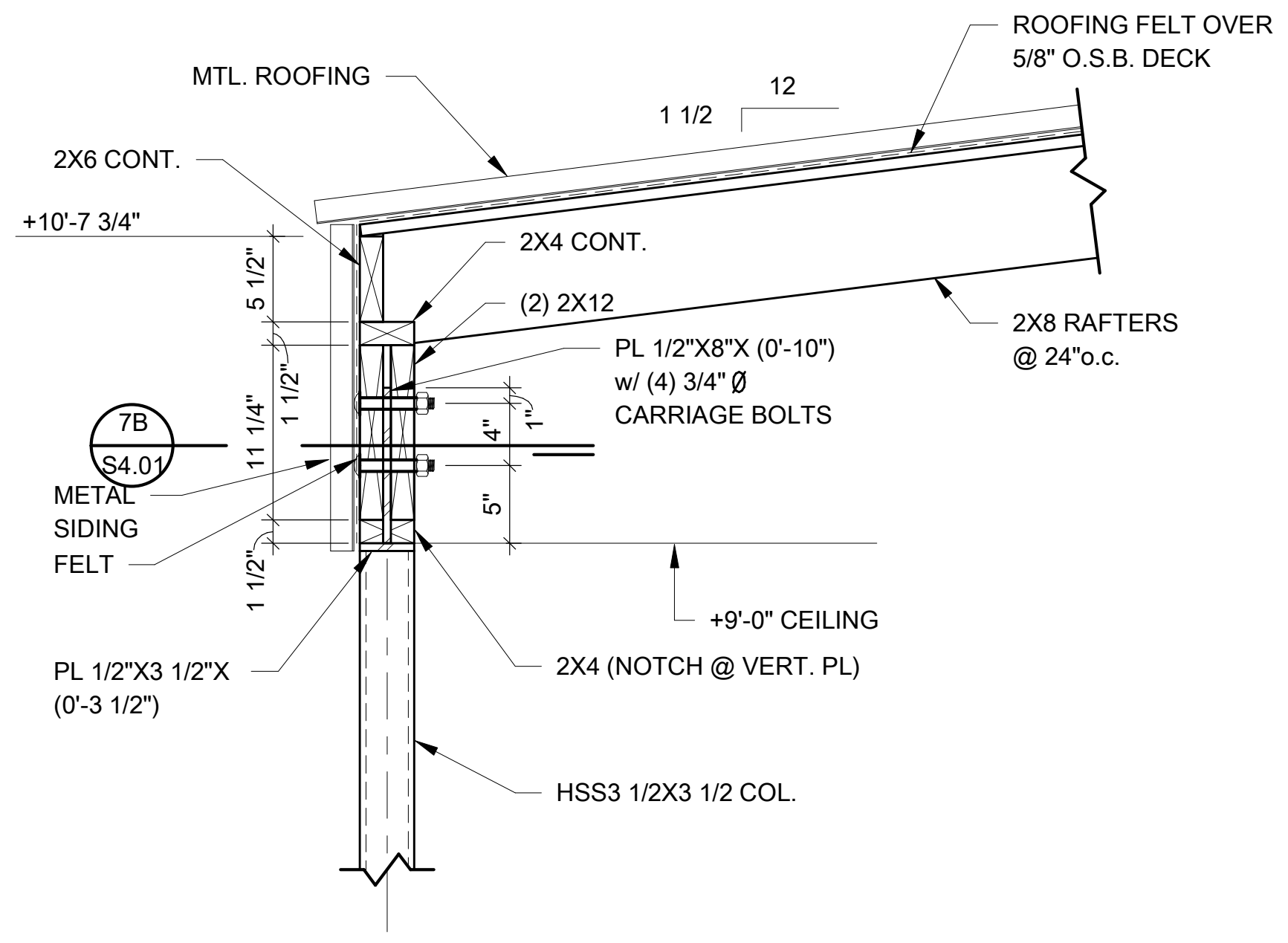
6 SECTION
1" = 1'-0"


SIMPSON 'HUC410' HANGER (TYP.)
PL 1/2"X10"X (0'-10") w/ (4) 3/4"Ø CARRIAGE BOLTS
3"
1 1/2"
(2) 2X12 w/ 1/2" SPACER

7A PLAN DETAIL
1" = 1'-0"



7B PLAN DETAIL
1" = 1'-0"



7 SECTION
1" = 1'-0"

Engineering Consultants, Inc.
Structural Engineers
401 West Capitol Avenue, Suite 305
Little Rock, Arkansas 72201-3401
Phone No: (501) 376-3752

ECI Job No: 21-235

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ENGINEERING CONSULTANTS, INC.
No. 26
ARKANSAS- ENGINEER

STAMPS
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 5920
FRANK M. ALLISON
8/2/22

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
FRAMING DETAILS

Revision

Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By Author
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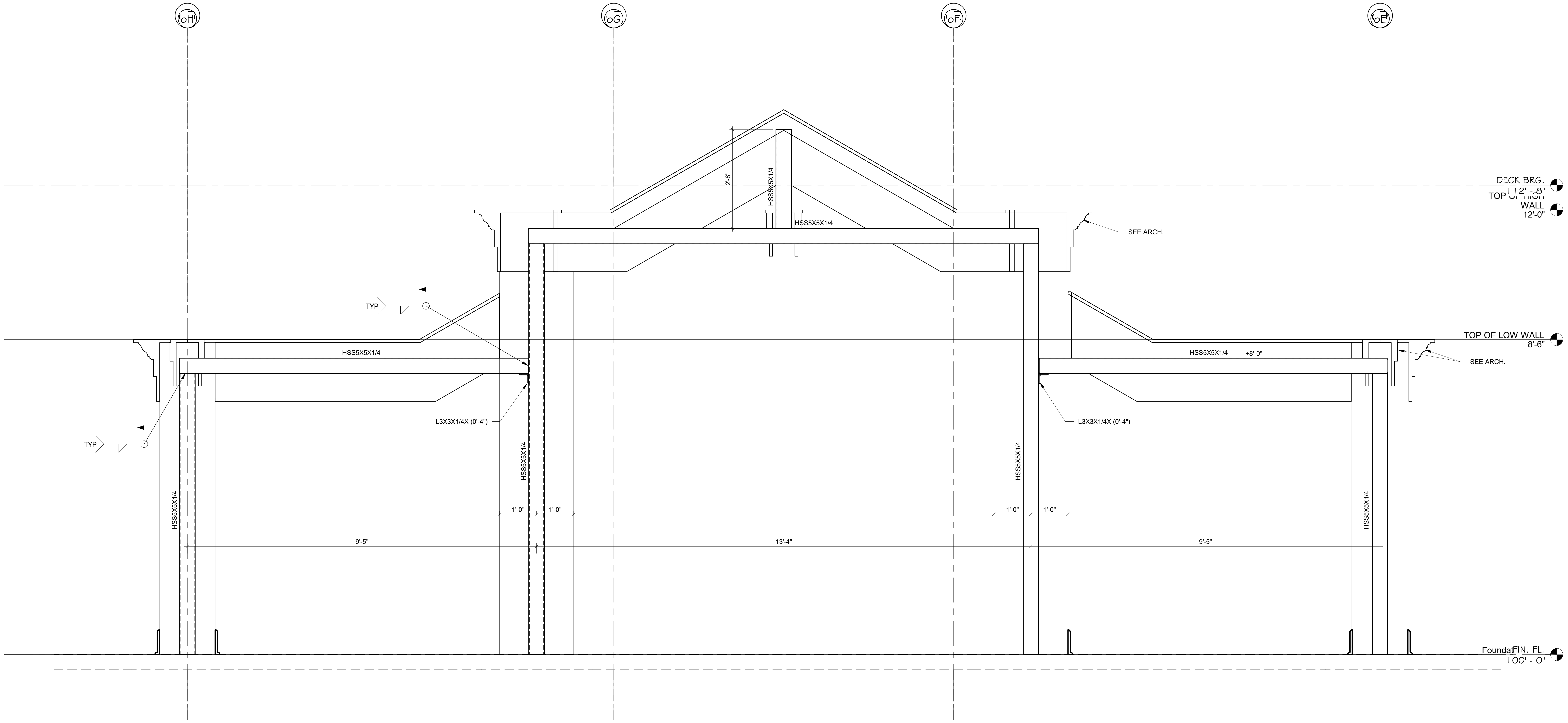

A FRAMING ELEVATION

3/4" = 1'-0"

Engineering Consultants, Inc.
Structural Engineers

401 West Capitol Avenue, Suite 305
Little Rock, Arkansas 72201-3401
Phone No: (501) 376-3752

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FRAMING ELEVATION

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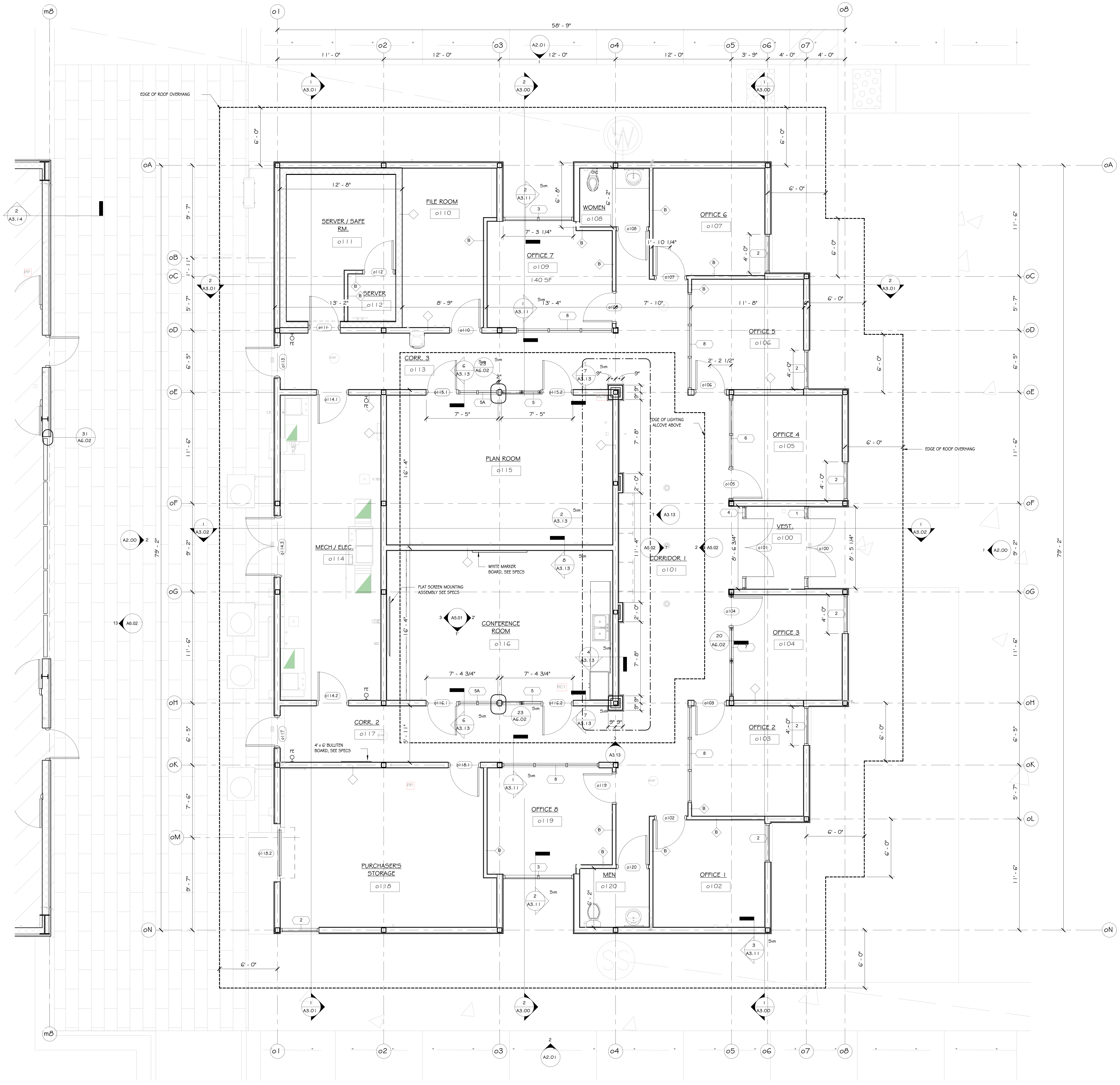

OFFICE BUILDING FLOOR PLAN

1/4" = 1'-0"

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No. C-462

STAMPS

CARL F. MENYHART, JR.
No. 7007
7/29/22

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
OFFICE BUILDING FLOOR PLAN

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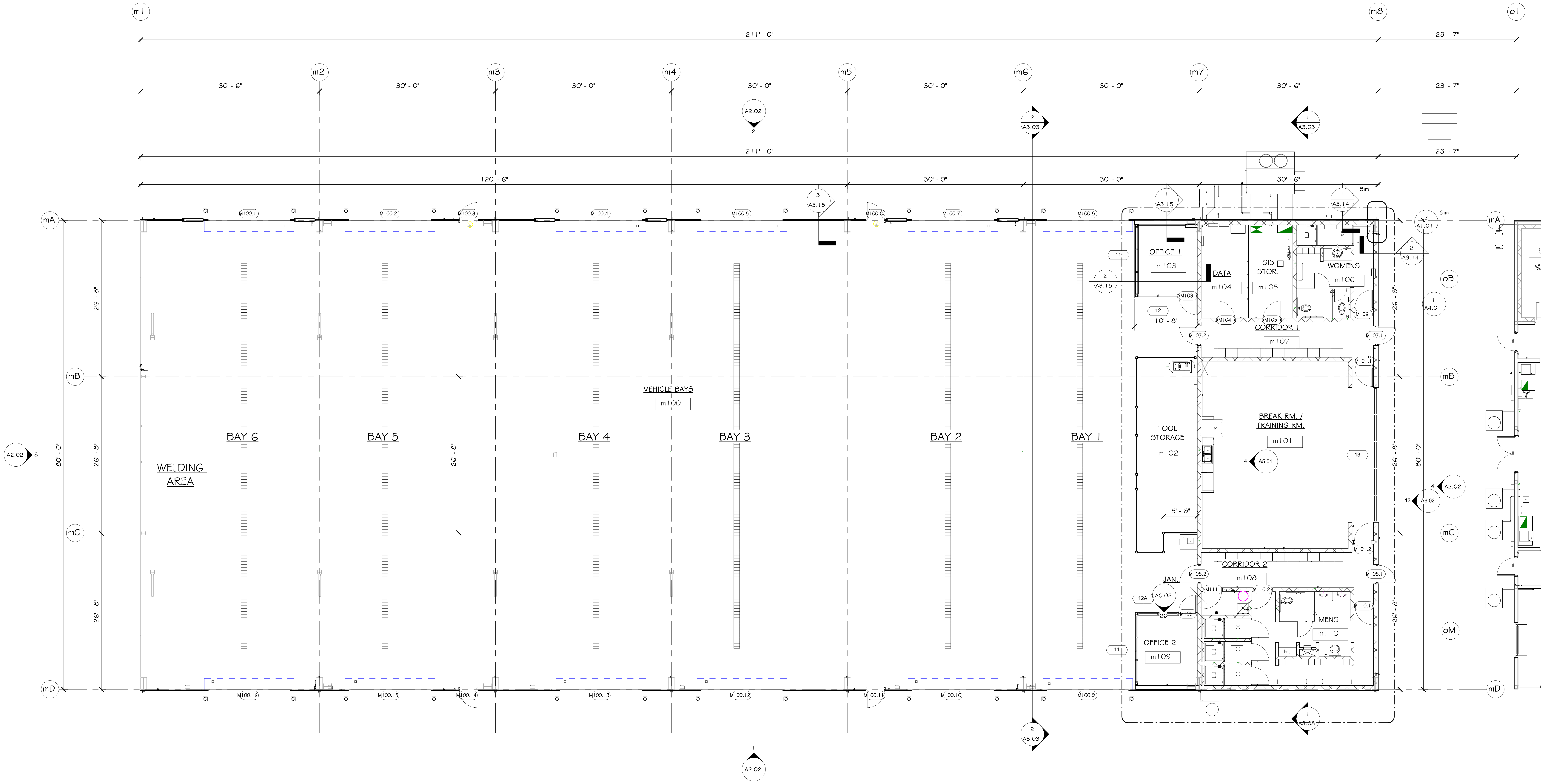
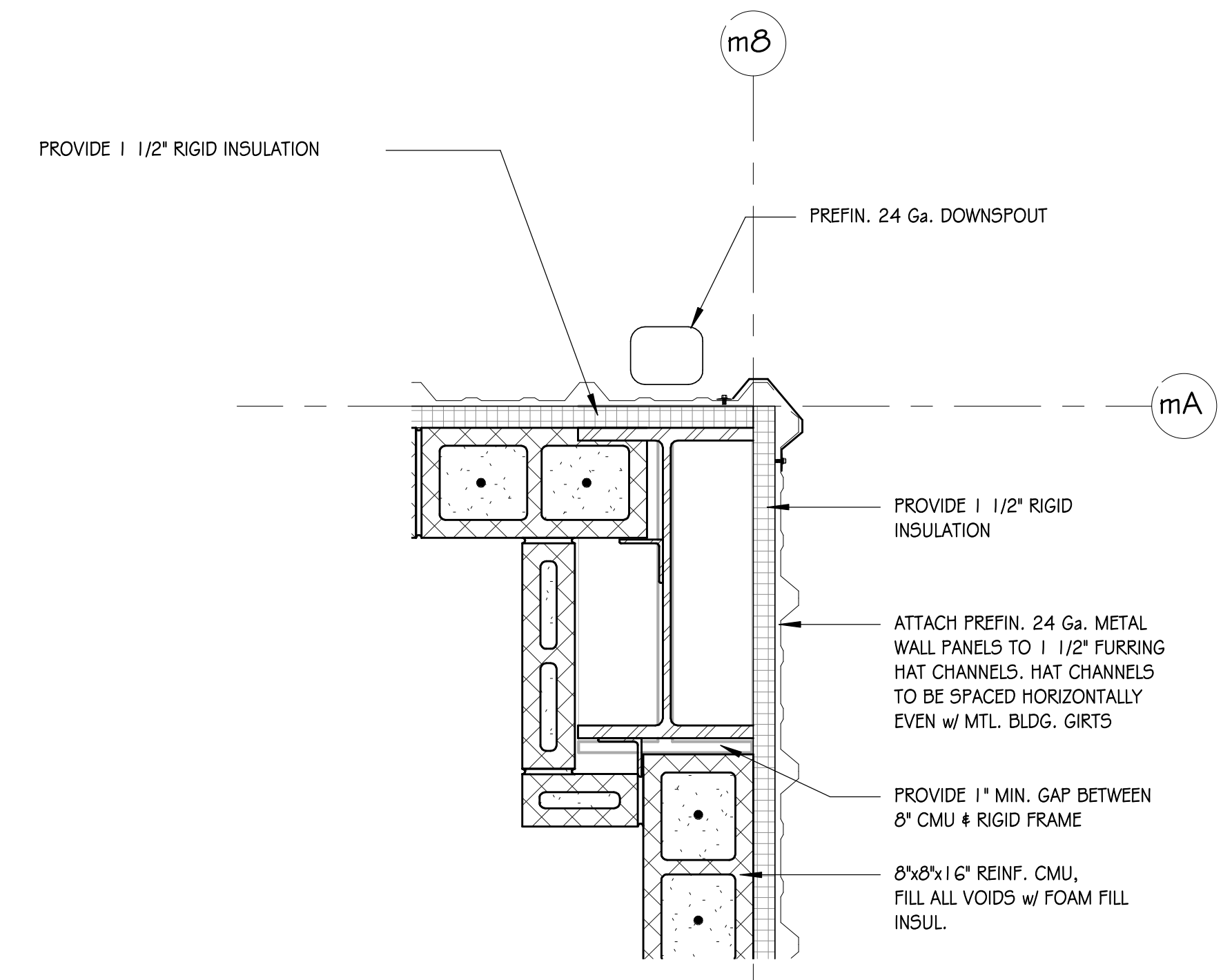


1 MAINTENANCE BLDG. FLOOR PLAN
1/8" = 1'-0"


m8
mA
PROVIDE 1 1/2" RIGID INSULATION
PREFIN. 24 Ga. DOWNSPOUT
PROVIDE 1 1/2" RIGID INSULATION
ATTACH PREFIN. 24 Ga. METAL WALL PANELS TO 1 1/2" FURRING HAT CHANNELS. HAT CHANNELS TO BE SPACED HORIZONTALLY EVEN w/ MTL. BLDG. GIRTS
PROVIDE 1" MIN. GAP BETWEEN 8" CMU & RIGID FRAME
8"x8"x16" REINF. CMU, FILL ALL VOIDS w/ FOAM FILL INSUL.

2 CORNER DTL. @ GRIDLINE m8
1" = 1'-0"

STAMPS

No. C-462

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CARL F. MENYHART, JR.
No. 1007
7/29/22

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MAINTENANCE BUILDING FLOOR PLAN

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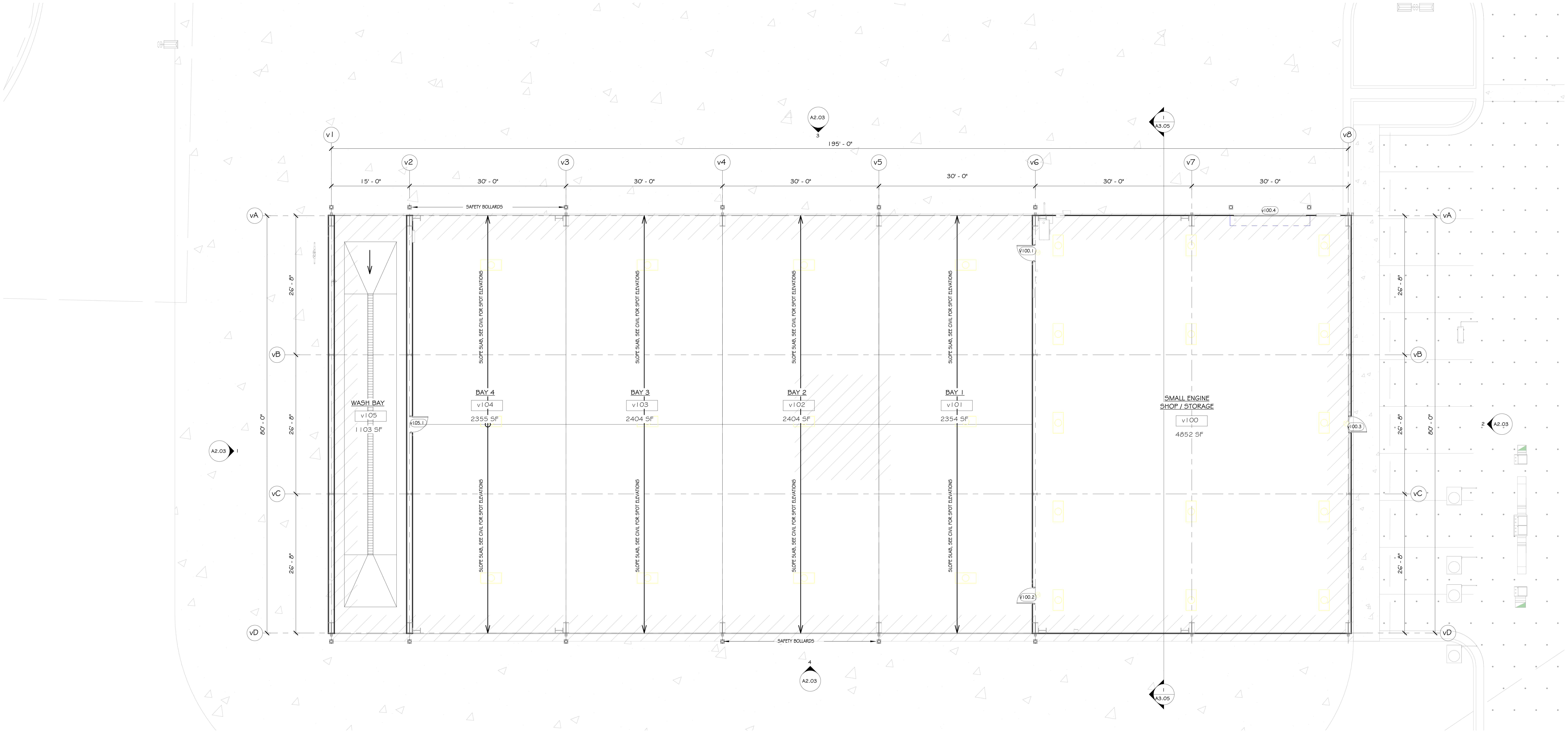

1 VEHICLE STORAGE BLDG. FLOOR PLAN
1/8" = 1'-0"

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ETC Engineers & Architects, Inc.
No. C-462
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

VEHICLE STORAGE BUILDING FLOOR PLAN

Revision

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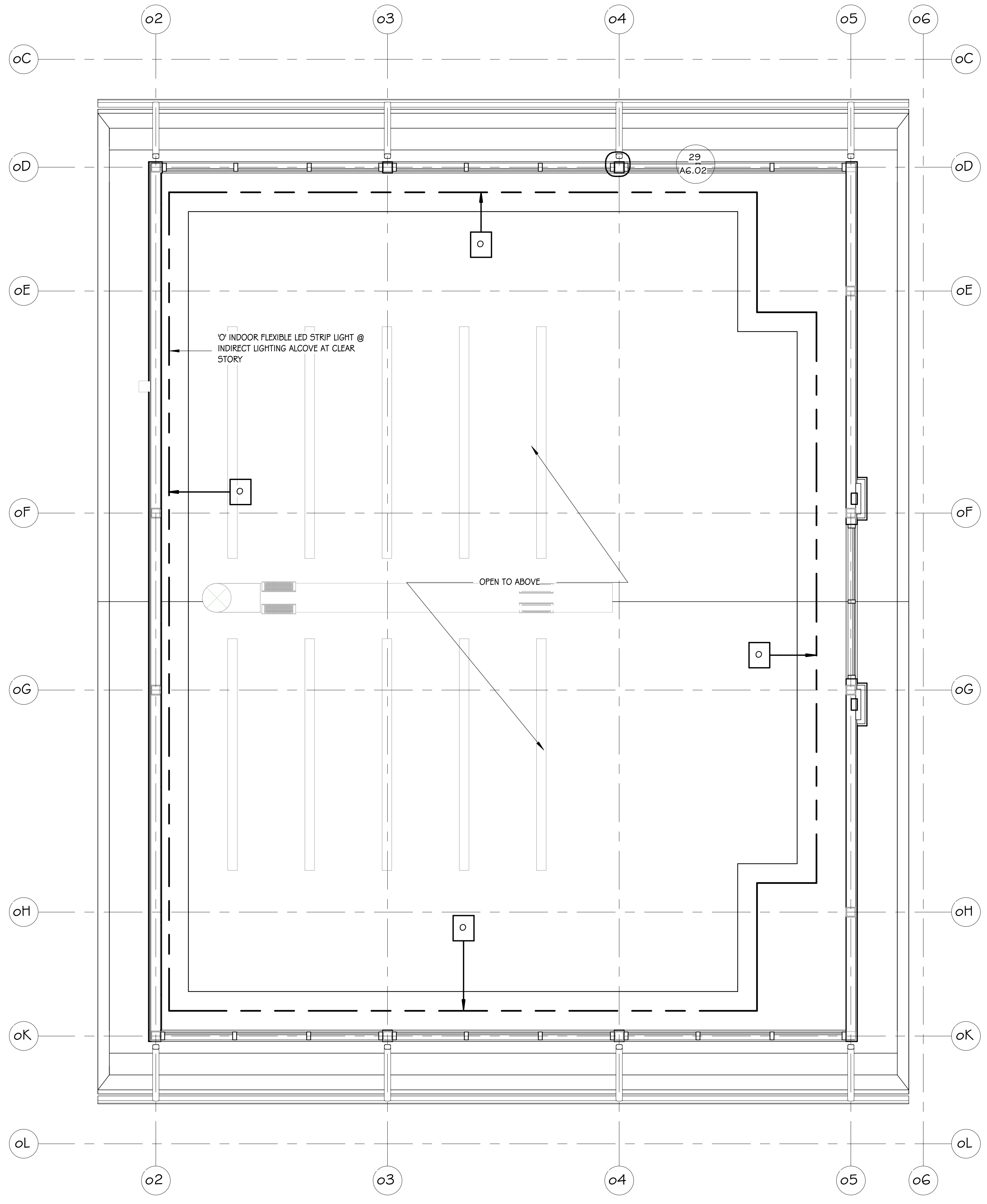
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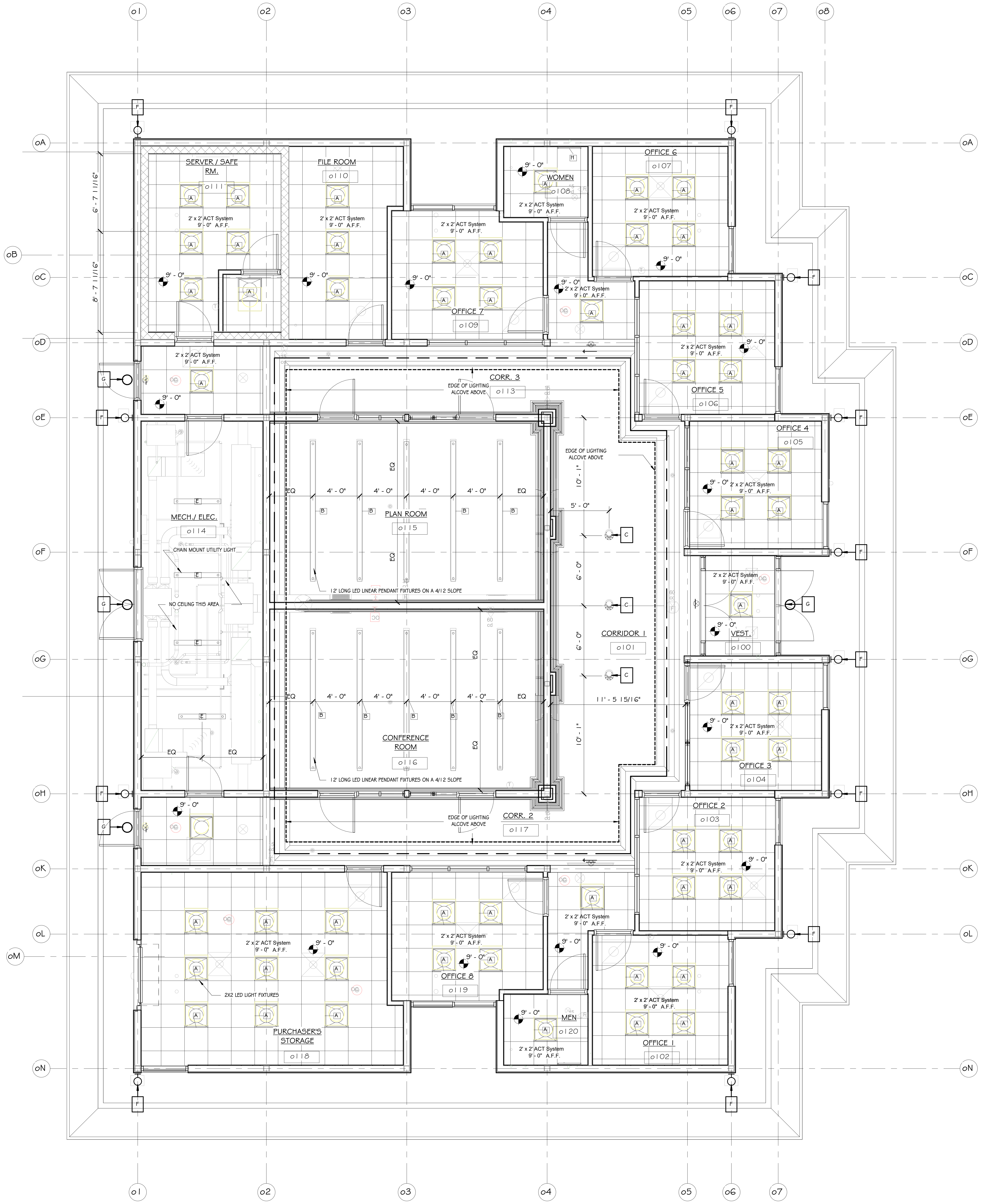
A6.02
O
'O' INDOOR FLEXIBLE LED STRIP LIGHT @ INDIRECT LIGHTING ALCOVE AT CLEAR STORY
OPEN TO ABOVE

2 RCP -UPPER LEVEL INDIRECT LIGHTING ALCOVE
1/4" = 1'-0"



1 RCP - OFFICE BUILDING
1/4" = 1'-0"

REFLECTED CEILING LEGEND

A	2' X 2' LED LIGHT FIXTURE	D	LED SRTIP LIGHT	G		▨	GYPSUM BOARD CEILING UNLESS OTHERWISE NOTED
B	LINEAR PENDANT FIXTURE	E	UTILITY LIGHT	⊗	EXIT SIGN	⊞	2' X 2' LAY-IN ACOUSTICAL CEILING BOARD
C		F		‖‖	LINEAR MTL. CEILING PANELS	☒	HVAC REGISTERS

GENERAL NOTES:

1. VERIFY WITH MECHANICAL DRAWINGS, CEILING REGISTER SIZE, TYPE, AND DENSITY.
2. VERIFY WITH ELECTRICAL DRAWINGS, LIGHT FIXTURE SIZE, TYPE AND QUANTITY.

RCP LEGEND 1
1/8" = 1'-0"

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Carl Menyhart Jr.

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CITY OF BATESVILLE
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
RCP - OFFICE BUILDING

Revision

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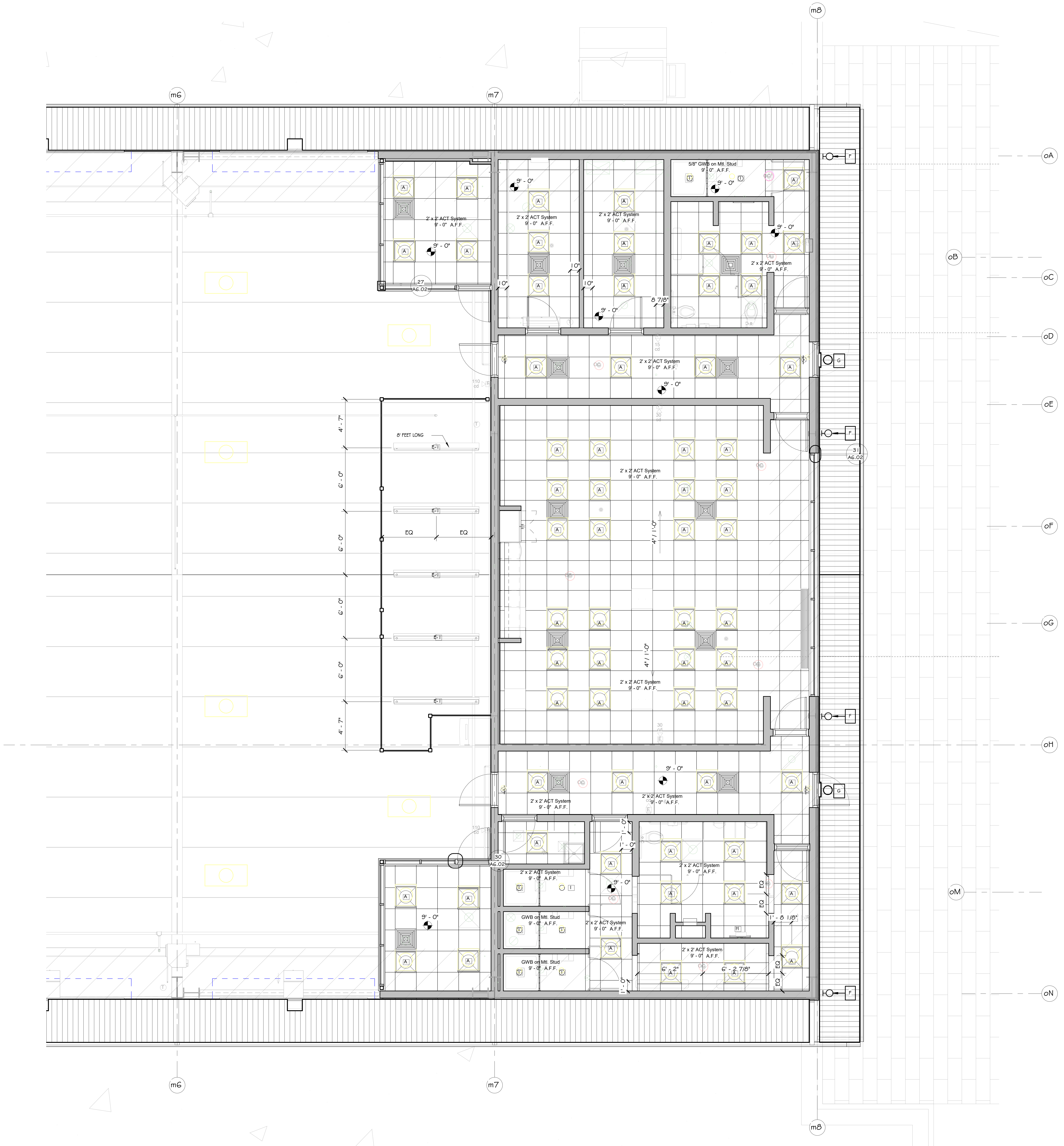

1 RCP - MAINTENANCE BUILDING
1/4" = 1'-0"

REFLECTED CEILING LEGEND

░	GYPSUM BOARD CEILING UNLESS OTHERWISE NOTED	‖	LINEAR MTL. CEILING PANELS	▭	LIGHT FIXTURE - SUSPENDED	▣	HVAC SUPPLY
⊞	2' X 2' LAY-IN ACOUSTICAL CEILING BOARD	⊗	EXIT SIGN	▬	RECESSED LINEAR LIGHT	⊠	HVAC RETURN
▭	2' X 4' LED LIGHT FIXTURE	▧	NO CEILING	⊡	2' X 2' LED LIGHT FIXTURE	⊠ ⊠ ⊠	HVAC REGISTERS
▒	RATED GYP. BOARD CEILING PER CODE	W.P.	EXTERIOR WALL PACK	C.J.	GYP. CEILING CONTROL JOINT	☰	GYM LIGHT FIXTURE

GENERAL NOTES:
1. VERIFY WITH MECHANICAL DRAWINGS, CEILING REGISTER SIZE, TYPE, AND DENSITY.
2. VERIFY WITH ELECTRICAL DRAWINGS, LIGHT FIXTURE SIZE, TYPE AND QUANTITY.

STAMPS

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CITY OF BATESVILLE
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
RCP - MAINTENANCE BUILDING

Revision	
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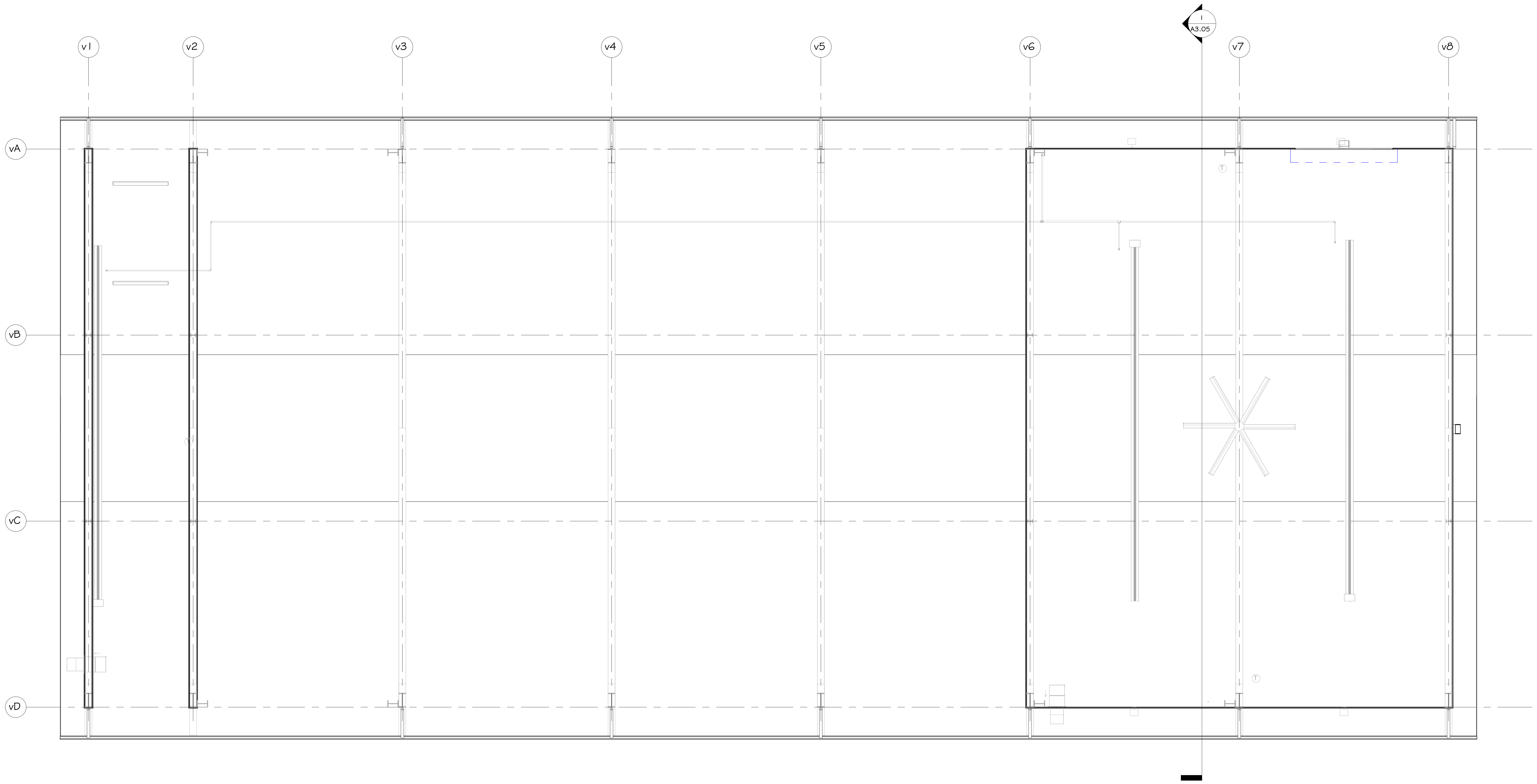

1 RCP - VEHICLE STORAGE
1/8" = 1'-0"

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ETC Engineers
& Architects, Inc.
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Carl Menyhart Jr.
No. 1007
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CITY OF BATESVILLE
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

RCP - VEHICLE STORAGE

Revision

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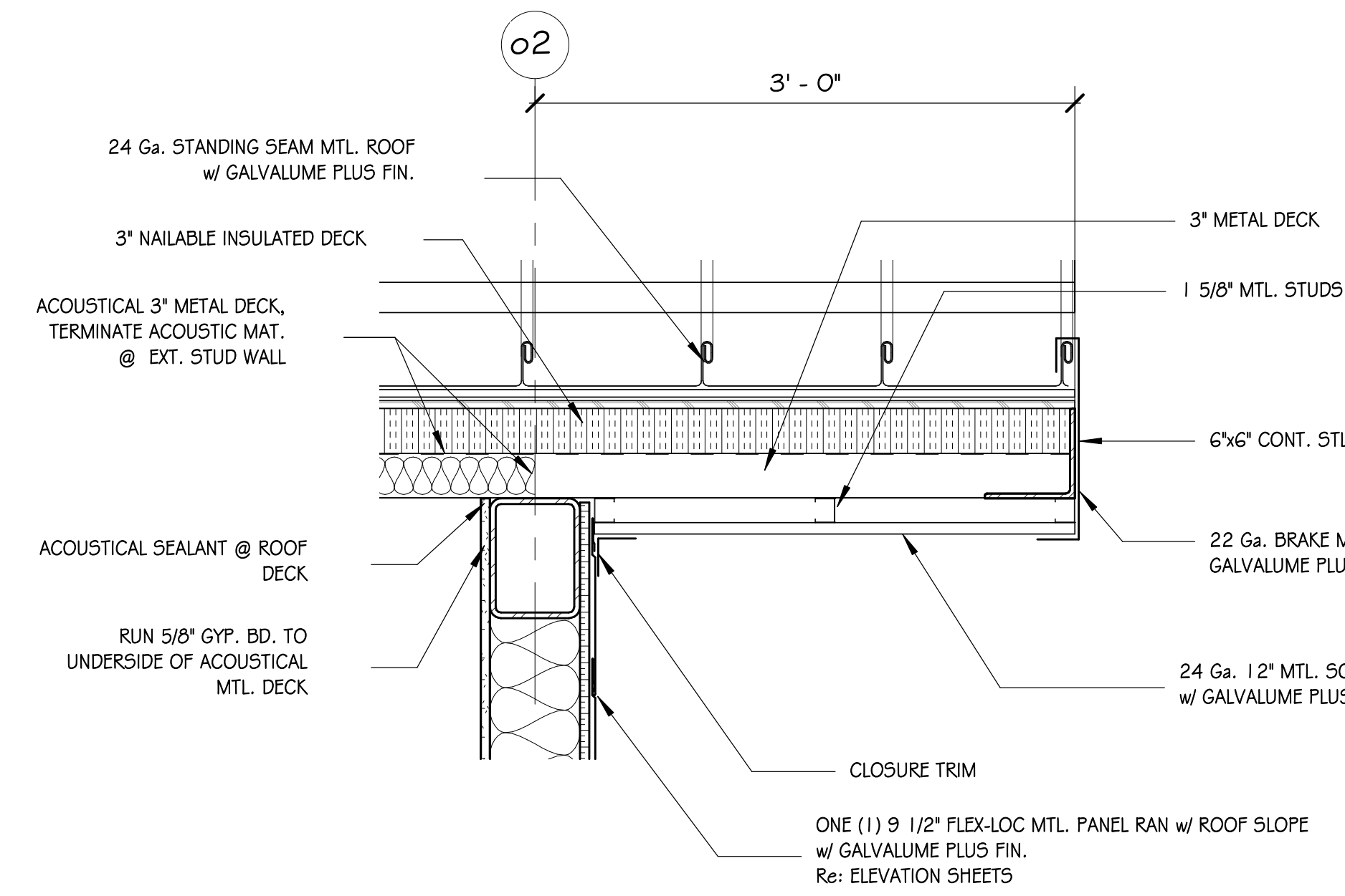
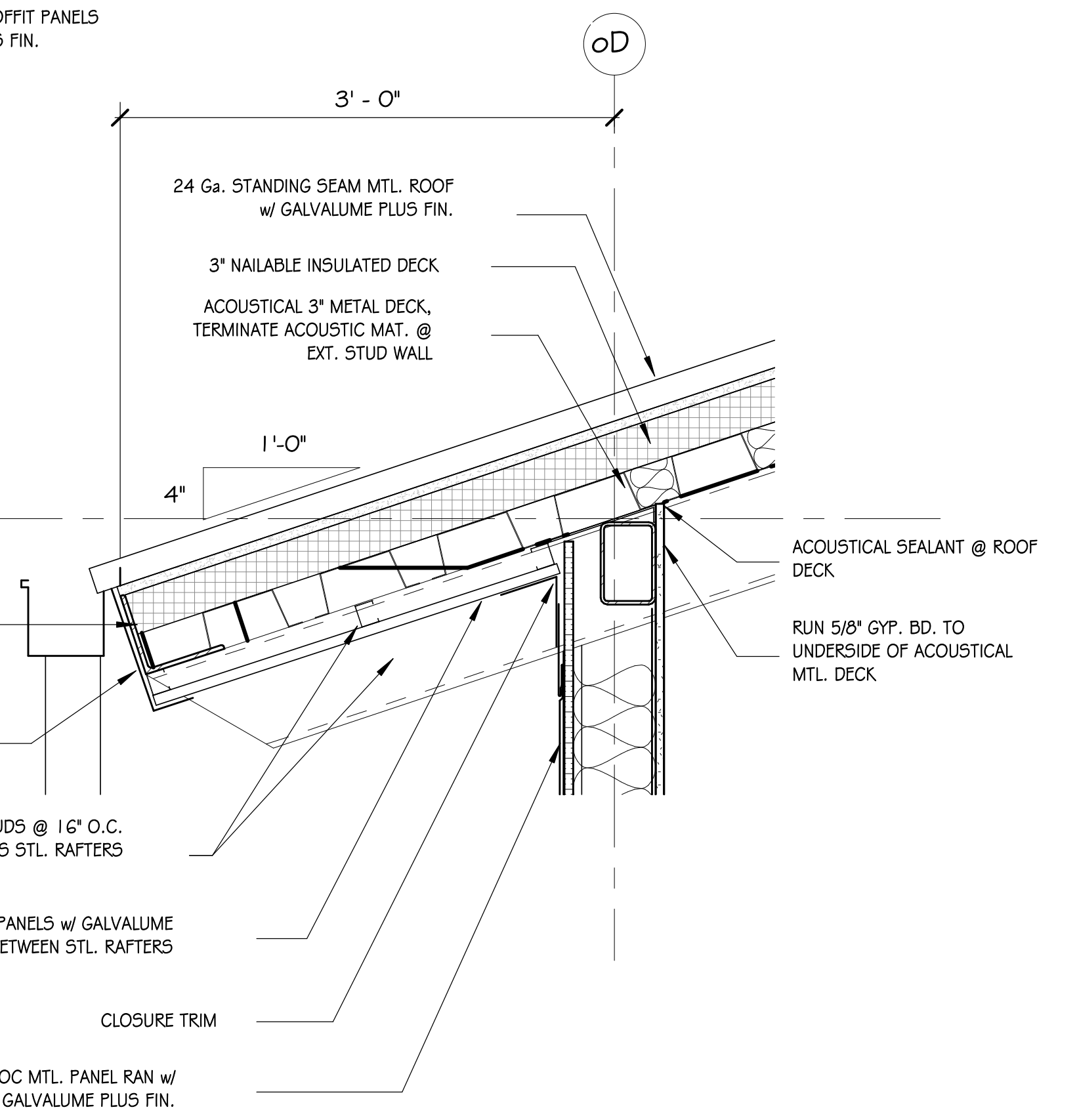
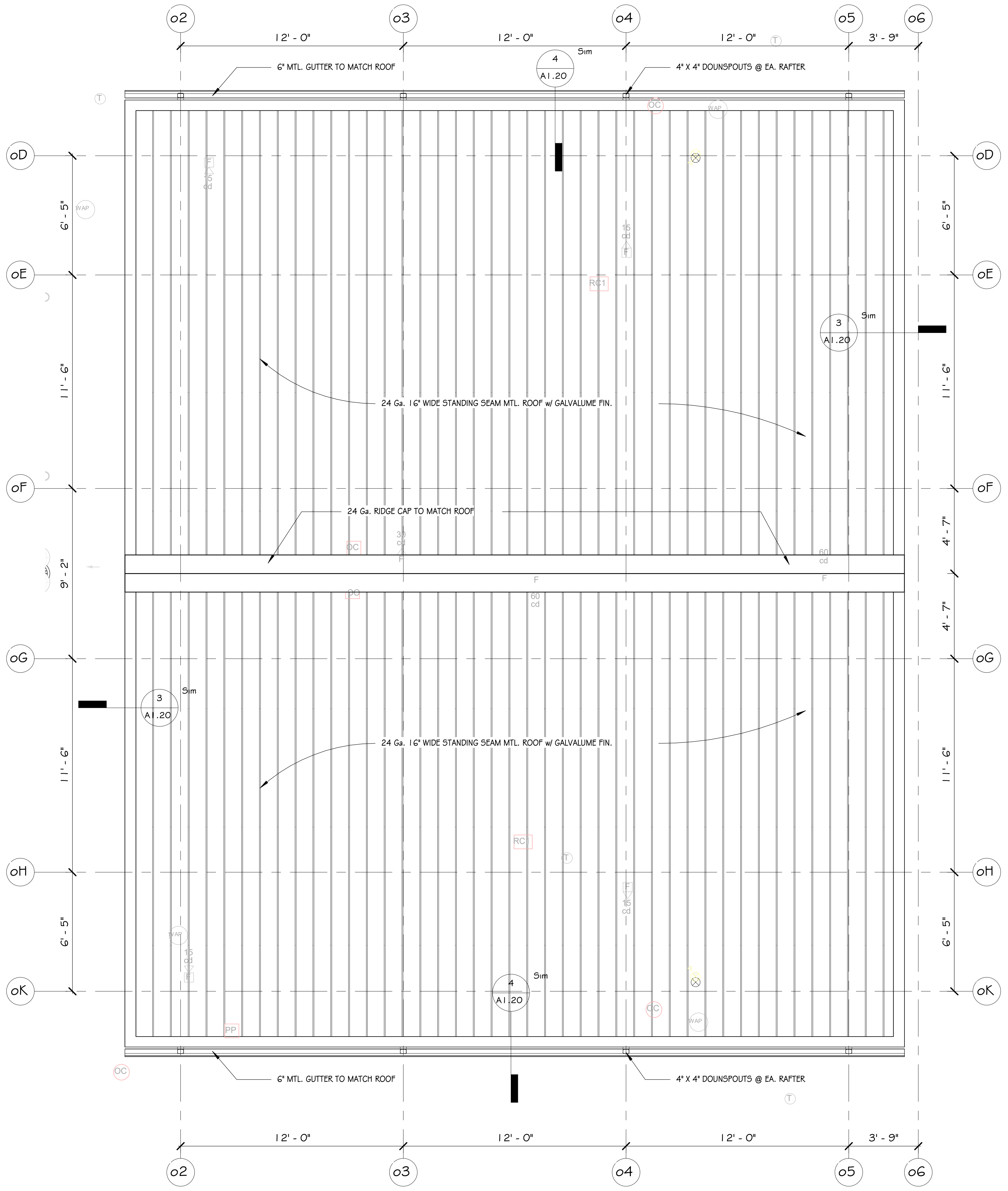

o2
3' - 0"
24 Ga. STANDING SEAM MTL. ROOF w/ GALVALUME PLUS FIN.
3" NAILABLE INSULATED DECK
ACOUSTICAL 3" METAL DECK, TERMINATE ACOUSTIC MAT. @ EXT. STUD WALL
3" METAL DECK
1 5/8" MTL. STUDS @ 16" O.C.
6"x6" CONT. STL. ANGLE
ACOUSTICAL SEALANT @ ROOF DECK
22 Ga. BRAKE MTL. FASCIA w/ GALVALUME PLUS FIN.
RUN 5/8" GYP. BD. TO UNDERSIDE OF ACOUSTICAL MTL. DECK
24 Ga. 12" MTL. SOFFIT PANELS w/ GALVALUME PLUS FIN.
CLOSURE TRIM
ONE (1) 9 1/2" FLEX-LOC MTL. PANEL RAN w/ ROOF SLOPE w/ GALVALUME PLUS FIN. Re: ELEVATION SHEETS

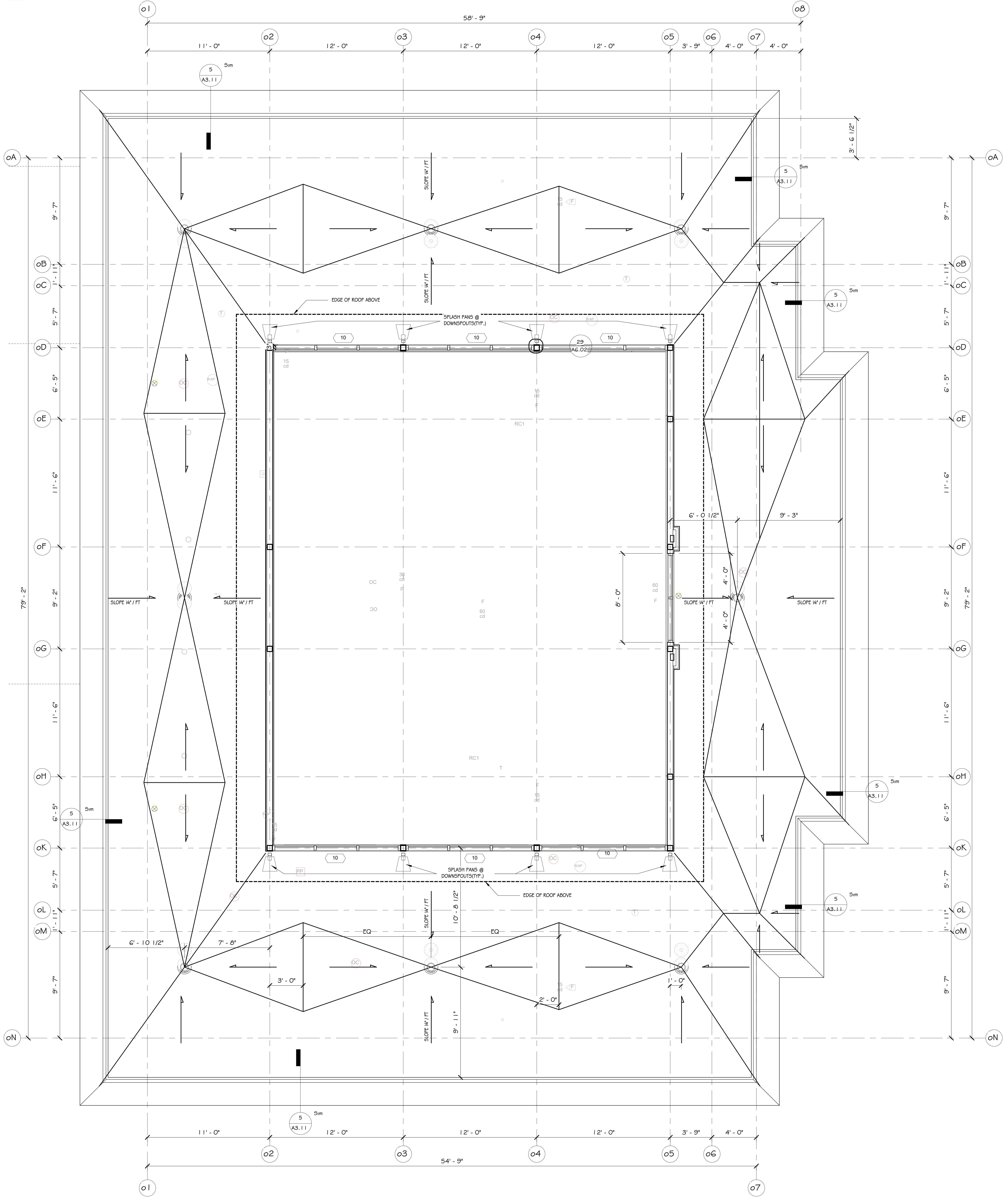
3 UPPER ROOF OVERHANG DTL. @ RAKE
1" = 1'-0"


oD
3' - 0"
24 Ga. STANDING SEAM MTL. ROOF w/ GALVALUME PLUS FIN.
3" NAILABLE INSULATED DECK
ACOUSTICAL 3" METAL DECK, TERMINATE ACOUSTIC MAT. @ EXT. STUD WALL
1'-0"
4"
T.O. RAFTER
120' - 2"
ACOUSTICAL SEALANT @ ROOF DECK
6"x6" CONT. STL. ANGLE
RUN 5/8" GYP. BD. TO UNDERSIDE OF ACOUSTICAL MTL. DECK
22 Ga. BRAKE MTL. FASCIA w/ GALVALUME PLUS FIN.
1 5/8" MTL. STUDS @ 16" O.C. BETWEEN HSS STL. RAFTERS
24 Ga. 12" MTL. SOFFIT PANELS w/ GALVALUME PLUS FIN. BETWEEN STL. RAFTERS
CLOSURE TRIM
ONE (1) 9 1/2" FLEX-LOC MTL. PANEL RAN w/ ROOF SLOPE w/ GALVALUME PLUS FIN.

4 UPPER ROOF OVERHANG DTL.
1" = 1'-0"


o2
o3
o4
o5
o6
12' - 0"
12' - 0"
12' - 0"
3' - 9"
6" MTL. GUTTER TO MATCH ROOF
4 A1.20
4" X 4" DOWNSPOUTS @ EA. RAFTER
oD
oE
oF
oG
oH
oK
6' - 5"
11' - 6"
9' - 2"
4' - 7"
4' - 7"
11' - 6"
6' - 5"
3 A1.20
24 Ga. 16" WIDE STANDING SEAM MTL. ROOF w/ GALVALUME FIN.
24 Ga. RIDGE CAP TO MATCH ROOF
3 A1.20
24 Ga. 16" WIDE STANDING SEAM MTL. ROOF w/ GALVALUME FIN.
4 A1.20
6" MTL. GUTTER TO MATCH ROOF
4" X 4" DOWNSPOUTS @ EA. RAFTER

2 UPPER LEVEL ROOF PLAN - OFFICE BUILDING CLERESTORY
1/4" = 1'-0"



1 ROOF PLAN - OFFICE BUILDING
1/4" = 1'-0"

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REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STAMPS

CARL F. MENYHART, JR.
No. 1007
7/29/22

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CITY OF BATESVILLE
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
ROOF PLAN - OFFICE BUILDING

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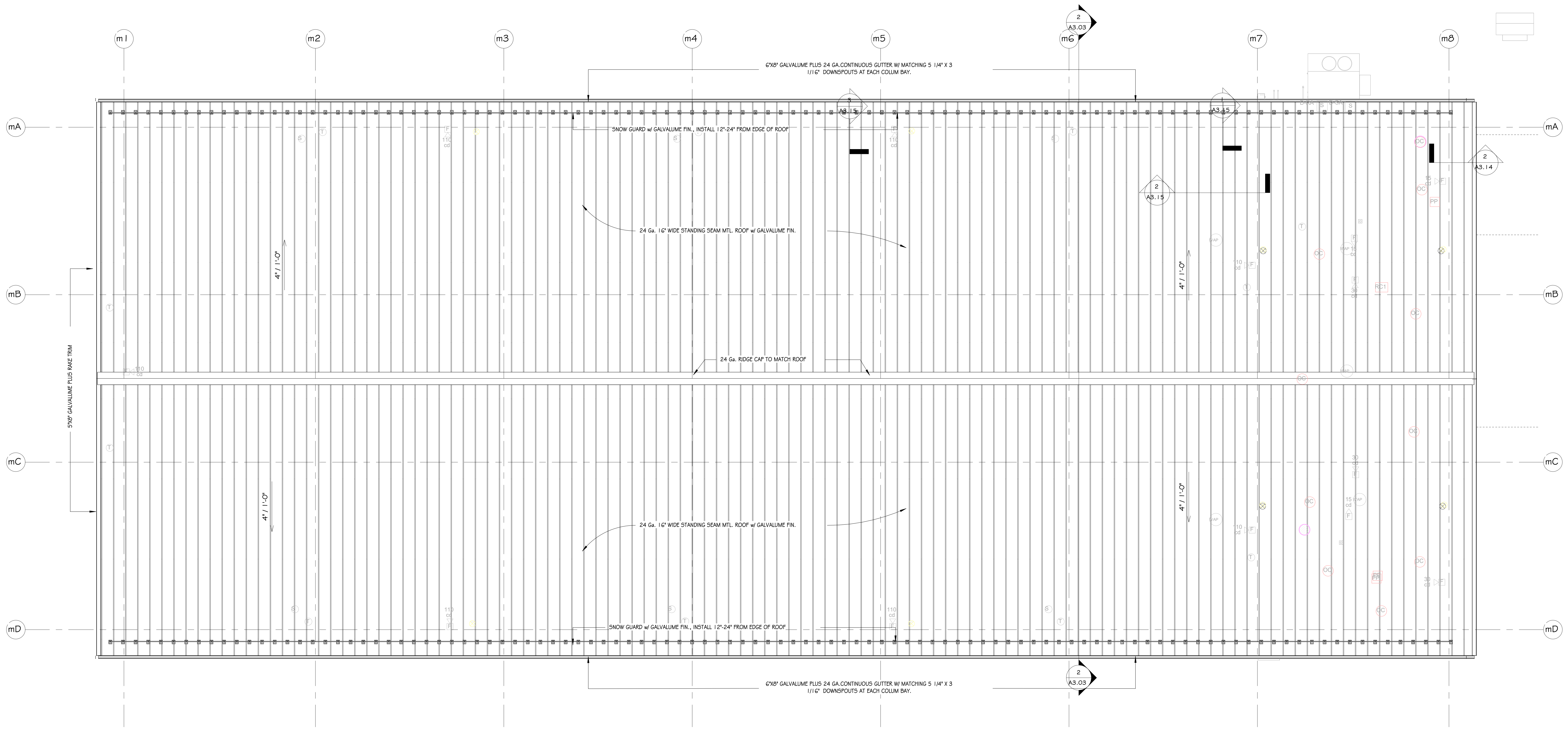
m1
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m6
m7
m8
mA
mB
mC
mD
6"X8" GALVALUME PLUS 24 GA.CONTINUOUS GUTTER W/ MATCHING 5 1/4" X 3 1/16" DOWNSPOUTS AT EACH COLUM BAY.
SNOW GUARD w/ GALVALUME FIN., INSTALL 12"-24" FROM EDGE OF ROOF
24 Ga. 16" WIDE STANDING SEAM MTL. ROOF w/ GALVALUME FIN.
24 Ga. RIDGE CAP TO MATCH ROOF
5"X8" GALVALUME PLUS RAKE TRIM
4" / 1'-0"
2
A3.03
3
A3.15
2
A3.15
2
A3.14

1 ROOF PLAN - MAINTENANCE BUILDING
1/8" = 1'-0"

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Carl Menyhart Jr.

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CITY OF BATESVILLE
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
ROOF PLAN - MAINTENANCE BUILDING

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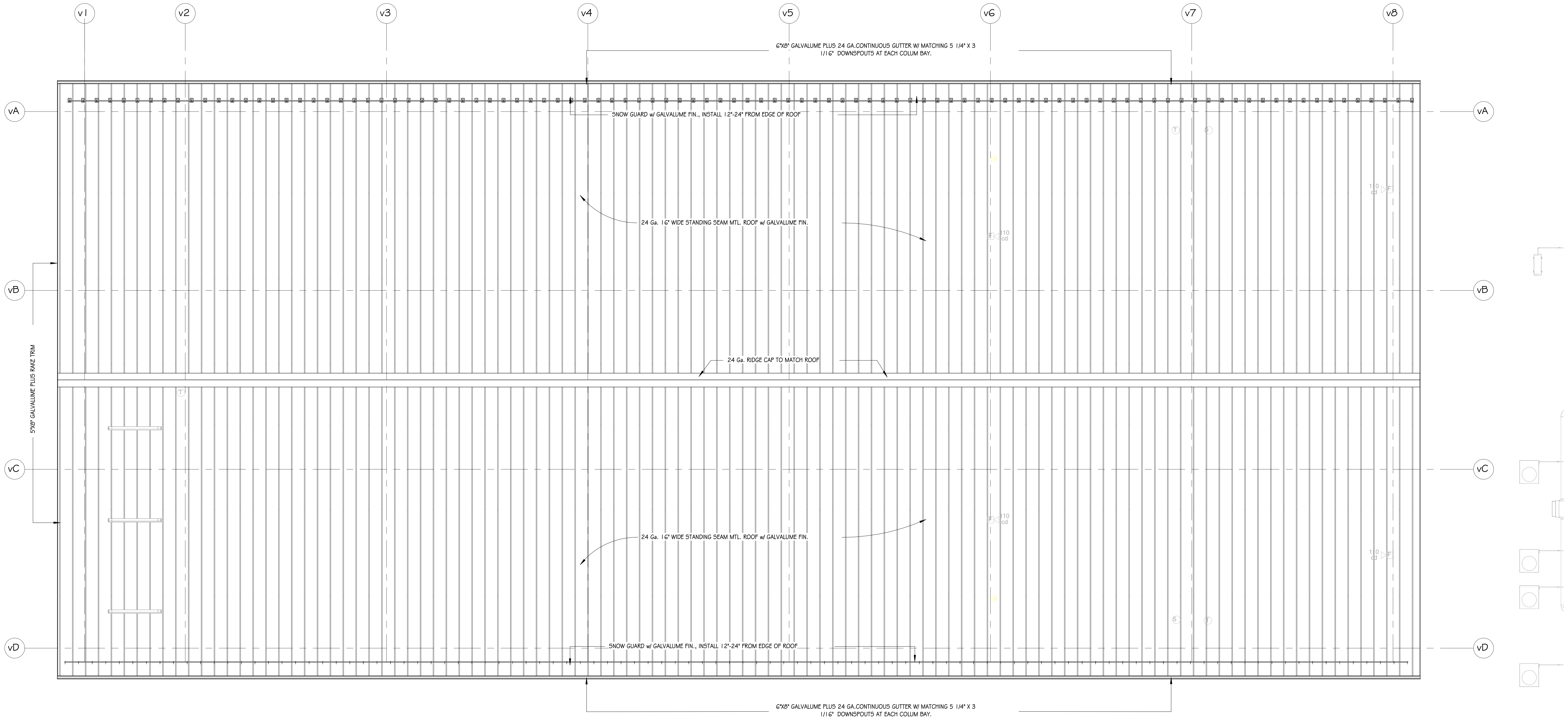
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v3
v4
v5
v6
v7
v8
vA
vB
vC
vD
6"X8" GALVALUME PLUS 24 GA.CONTINUOUS GUTTER W/ MATCHING 5 1/4" X 3 1/16" DOWNSPOUTS AT EACH COLUM BAY.
SNOW GUARD w/ GALVALUME FIN., INSTALL 12"-24" FROM EDGE OF ROOF
24 Ga. 16" WIDE STANDING SEAM MTL. ROOF w/ GALVALUME FIN.
24 Ga. RIDGE CAP TO MATCH ROOF
5"X8" GALVALUME PLUS RAKE TRIM
24 Ga. 16" WIDE STANDING SEAM MTL. ROOF w/ GALVALUME FIN.
SNOW GUARD w/ GALVALUME FIN., INSTALL 12"-24" FROM EDGE OF ROOF
6"X8" GALVALUME PLUS 24 GA.CONTINUOUS GUTTER W/ MATCHING 5 1/4" X 3 1/16" DOWNSPOUTS AT EACH COLUM BAY.

1 ROOF PLAN - VEHICLE STORAGE
1/8" = 1'-0"

STAMPS

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STAMPS

Carl F. Menyhart, Jr.
No. 1007
7/29/22

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

ROOF PLAN - VEHICLE STORAGE

Revision

Date	Description

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Project Phase: CONSTRUCTION DOCUMENTS

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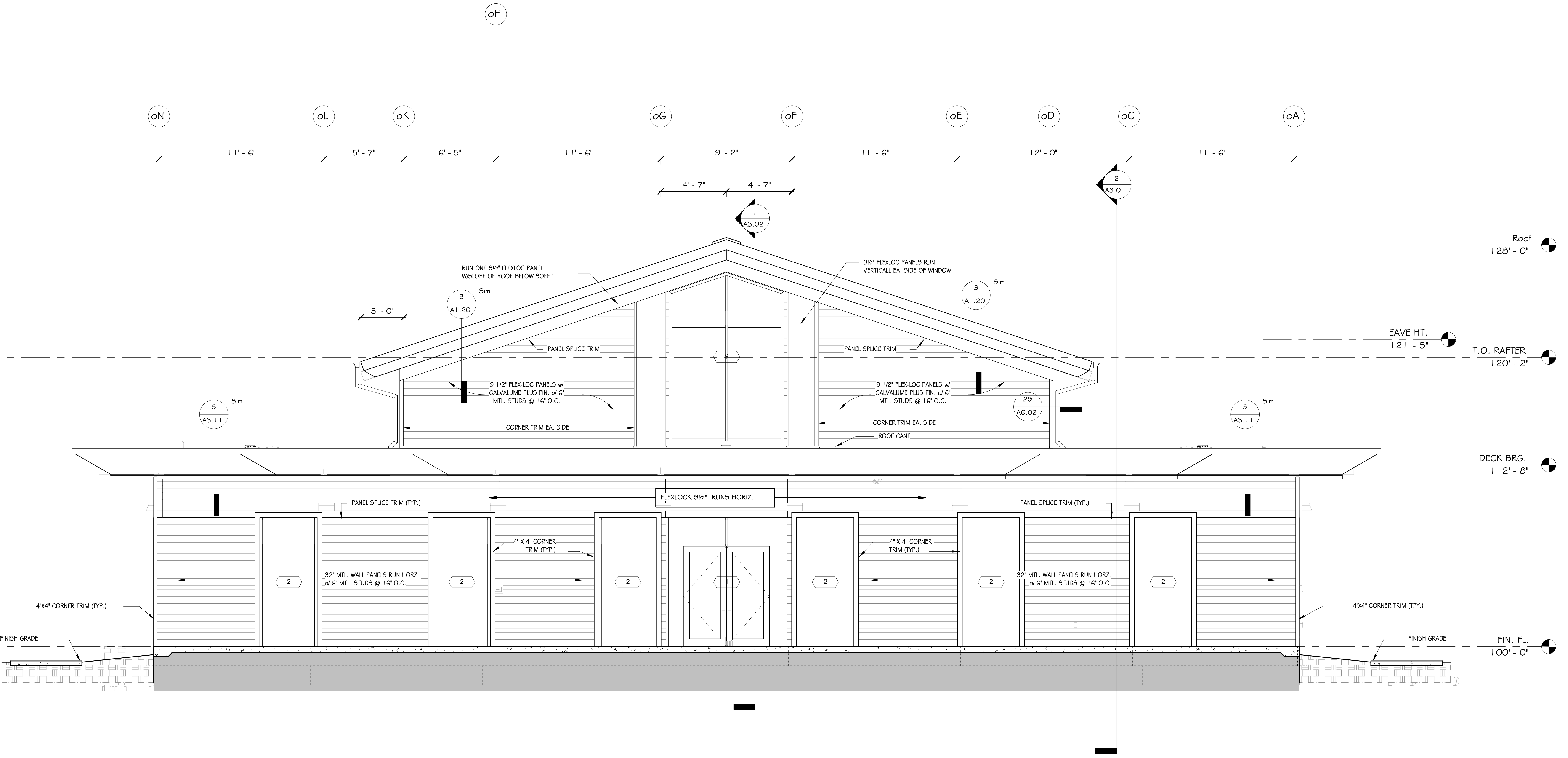
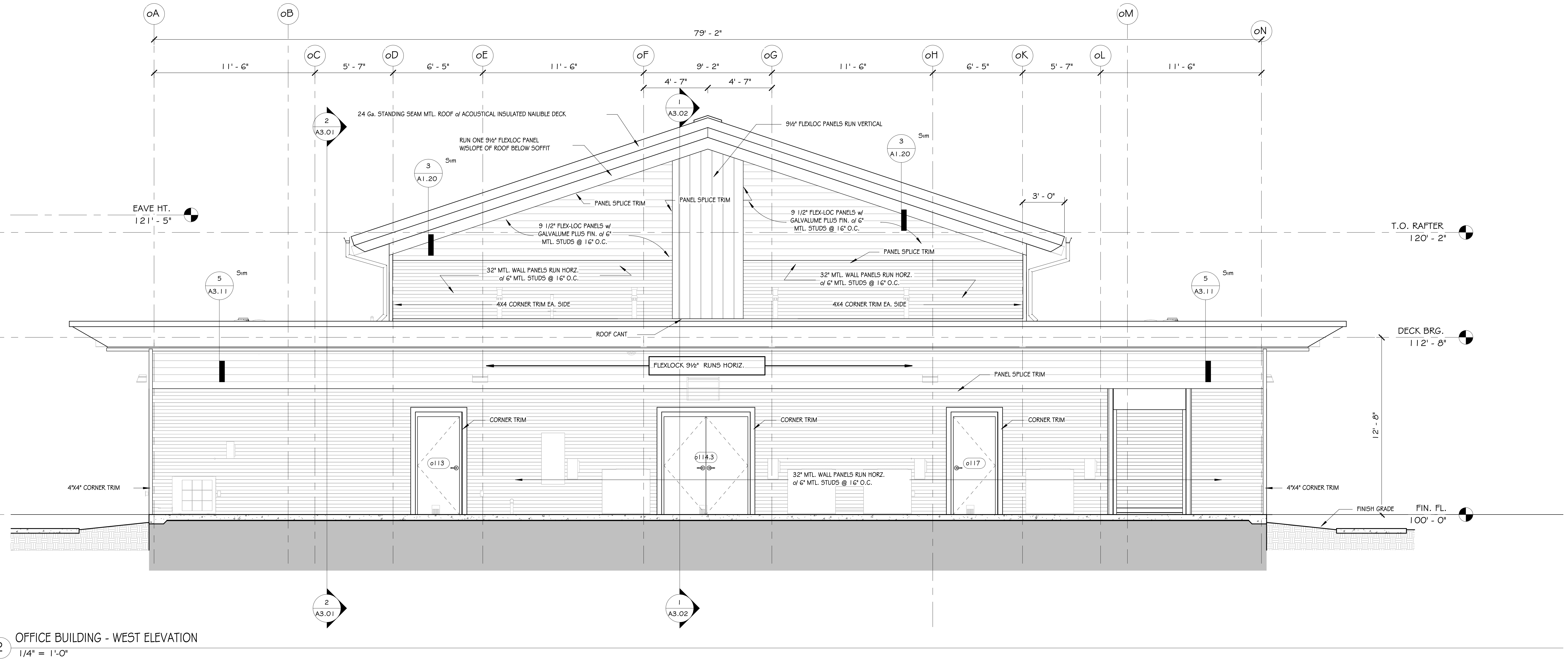


1 OFFICE BUILDING - EAST ELEVATION
1/4" = 1'-0"



2 OFFICE BUILDING - WEST ELEVATION
1/4" = 1'-0"

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No. C-462

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CARL F. MENYHART, JR.
No. 1007
7/29/22

Carl Menyhart Jr.

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

EXTERIOR ELEVATIONS - OFFICE BLDG.

Revision	
Date	Description

Project No.: 2106601CBATE

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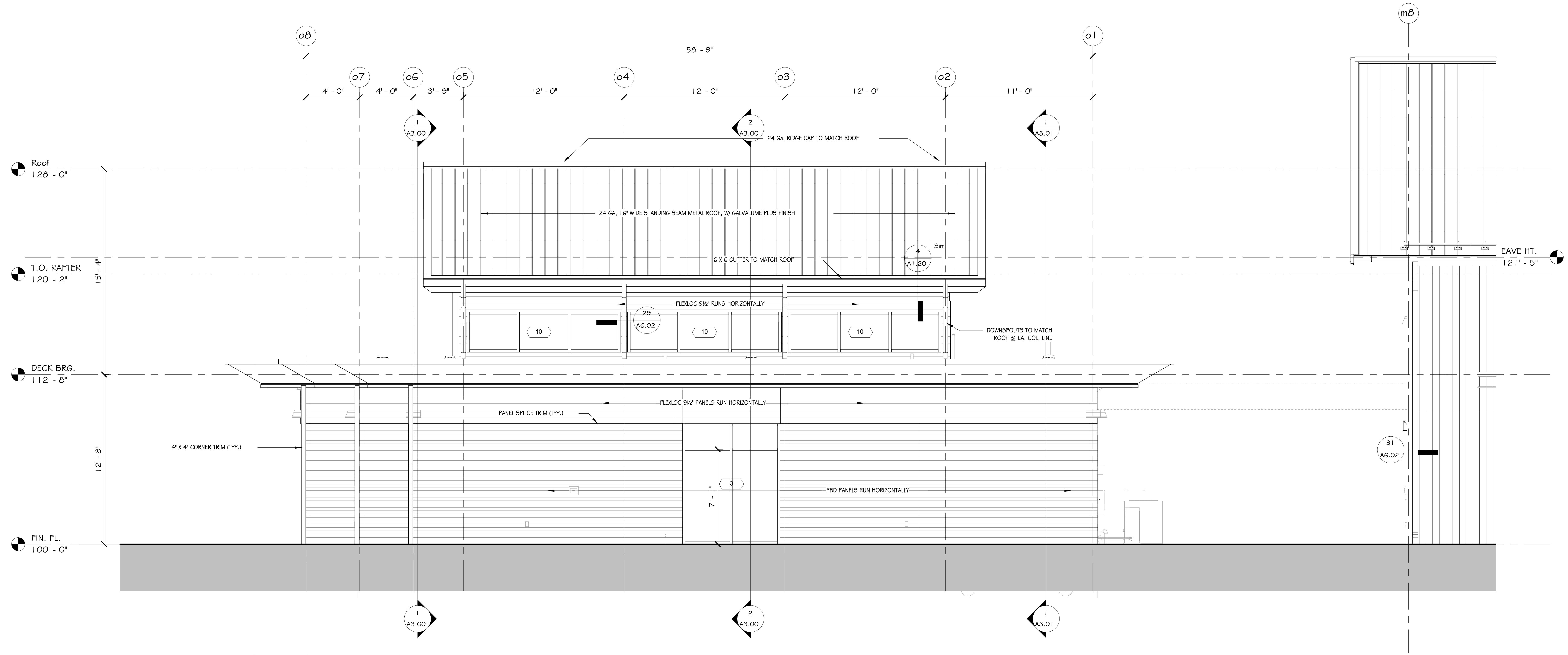
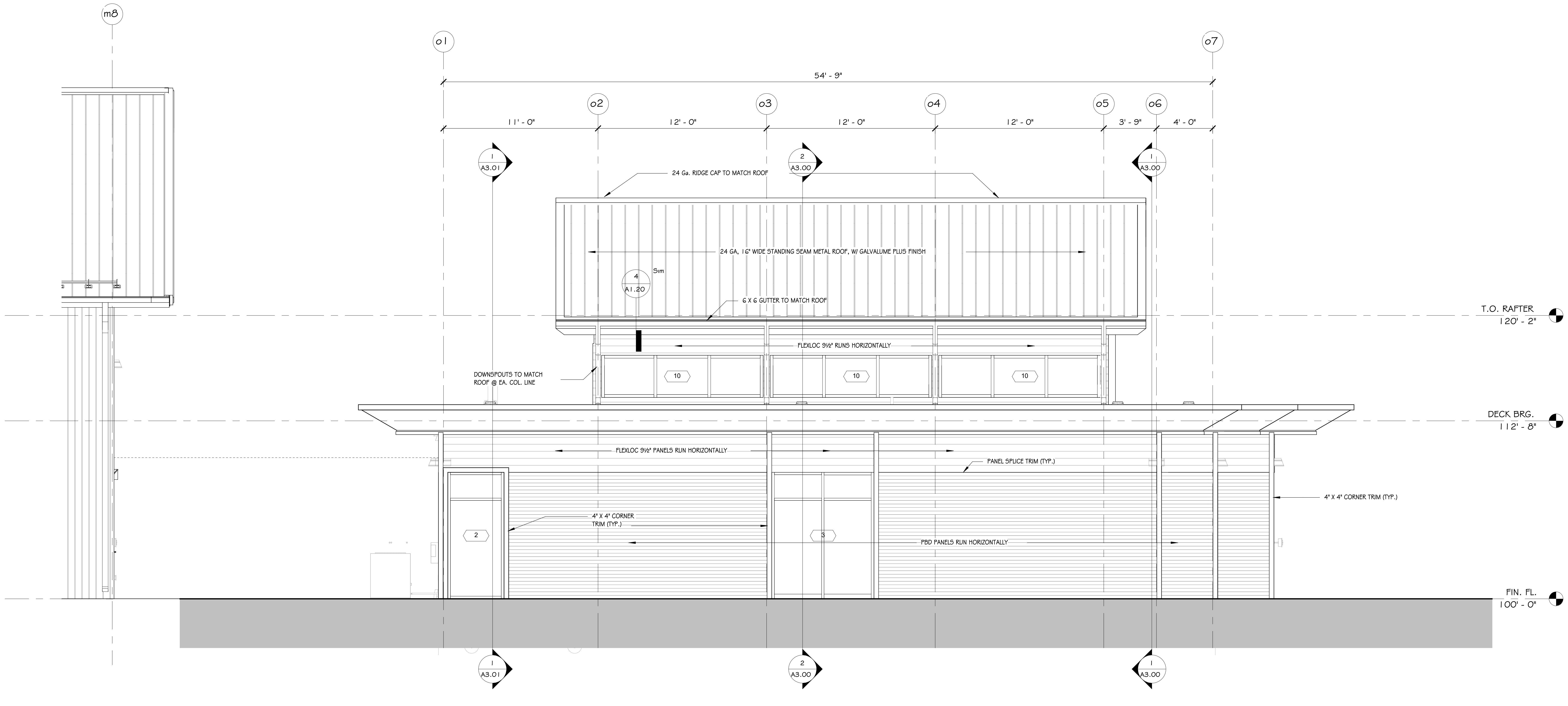

o8
o7
o6
o5
o4
o3
o2
o1
m8
58' - 9"
4' - 0"
4' - 0"
3' - 9"
12' - 0"
12' - 0"
12' - 0"
11' - 0"
1 A3.00
2 A3.00
1 A3.01
Roof 128' - 0"
T.O. RAFTER 120' - 2"
DECK BRG. 112' - 8"
FIN. FL. 100' - 0"
EAVE HT. 121' - 5"
15' - 4"
12' - 8"
24 Ga. RIDGE CAP TO MATCH ROOF
24 GA, 16" WIDE STANDING SEAM METAL ROOF, W/ GALVALUME PLUS FINISH
6 X 6 GUTTER TO MATCH ROOF
4 A1.20 Sim
FLEXLOC 9½" RUNS HORIZONTALLY
29 A6.02
10
10
10
DOWNSPOUTS TO MATCH ROOF @ EA. COL. LINE
FLEXLOC 9½" PANELS RUN HORIZONTALLY
PANEL SPLICE TRIM (TYP.)
4" X 4" CORNER TRIM (TYP.)
3
7' - 1"
PBD PANELS RUN HORIZONTALLY
31 A6.02

① OFFICE BUILDING - NORTH ELEVATION
1/4" = 1'-0"


m8
o1
o7
54' - 9"
o2
o3
o4
o5
o6
11' - 0"
12' - 0"
12' - 0"
12' - 0"
3' - 9"
4' - 0"
1 A3.01
2 A3.00
1 A3.00
24 Ga. RIDGE CAP TO MATCH ROOF
24 GA, 16" WIDE STANDING SEAM METAL ROOF, W/ GALVALUME PLUS FINISH
4 A1.20 Sim
6 X 6 GUTTER TO MATCH ROOF
T.O. RAFTER 120' - 2"
FLEXLOC 9½" RUNS HORIZONTALLY
DOWNSPOUTS TO MATCH ROOF @ EA. COL. LINE
10
10
10
DECK BRG. 112' - 8"
FLEXLOC 9½" PANELS RUN HORIZONTALLY
PANEL SPLICE TRIM (TYP.)
4" X 4" CORNER TRIM (TYP.)
4" X 4" CORNER TRIM (TYP.)
2
3
PBD PANELS RUN HORIZONTALLY
FIN. FL. 100' - 0"

② OFFICE BUILDING - SOUTH ELEVATION
1/4" = 1'-0"

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No. C-462

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No. 1007
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

EXTERIOR ELEVATIONS - OFFICE BLDG.

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase:
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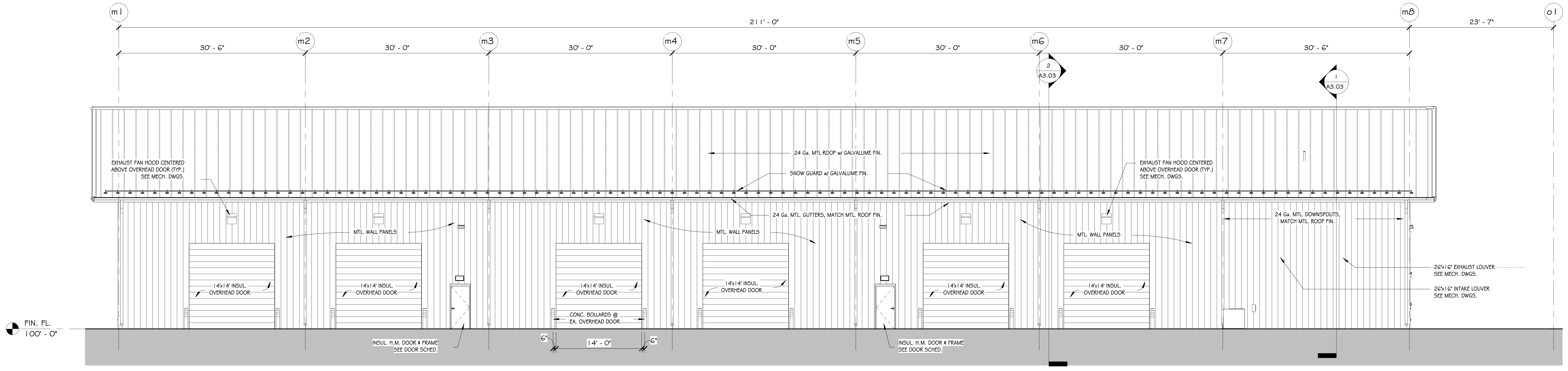
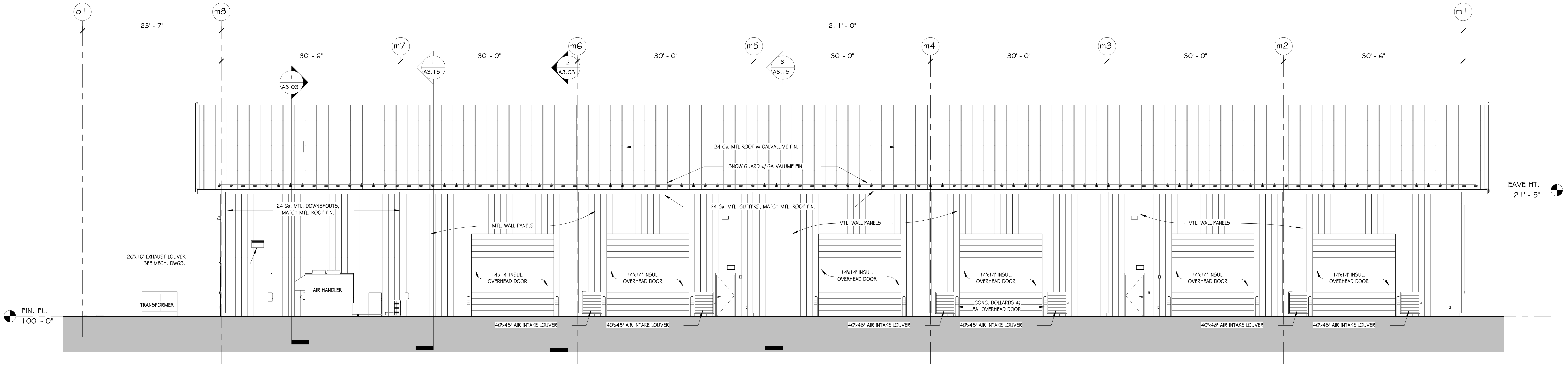
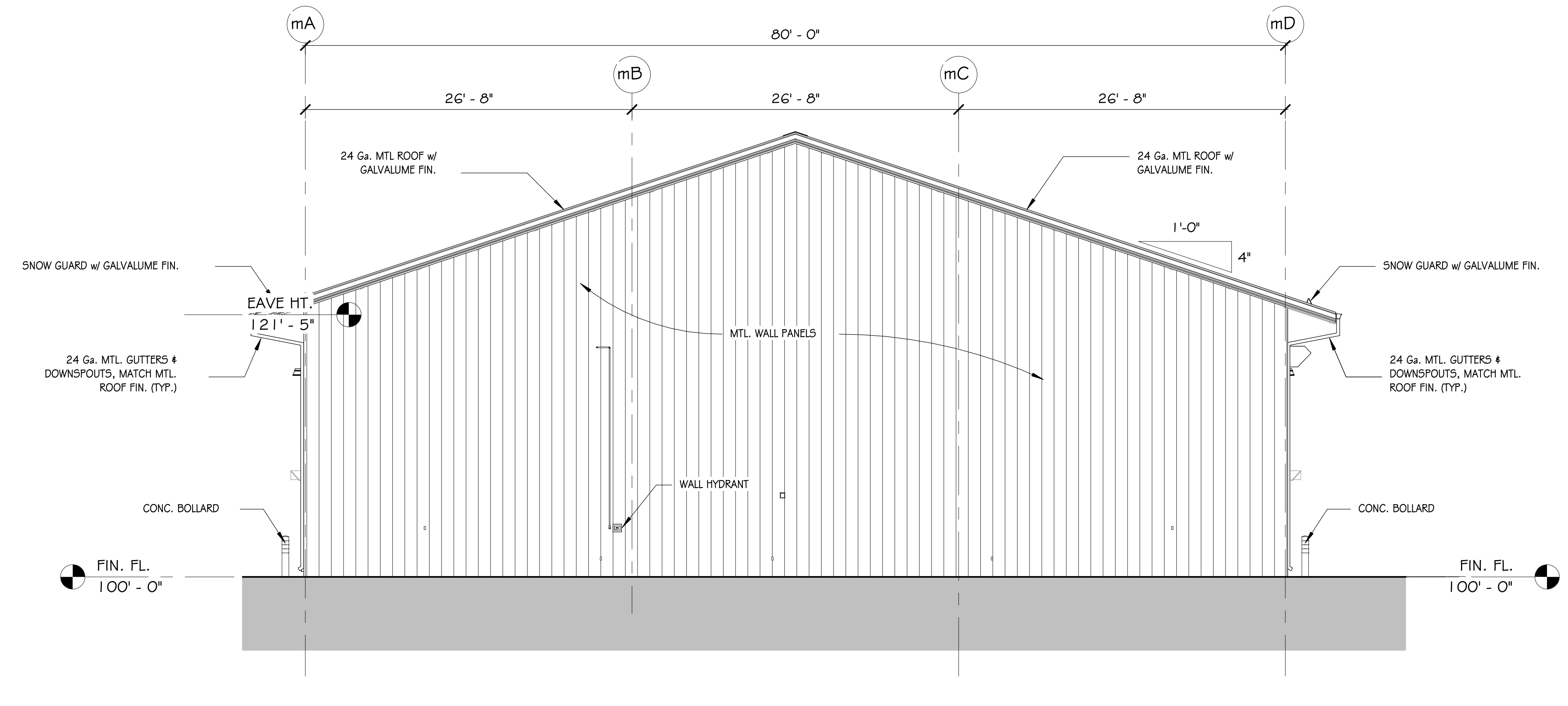

m1
m2
m3
m4
m5
m6
m7
m8
o1
211' - 0"
23' - 7"
30' - 6"
30' - 0"
30' - 0"
30' - 0"
30' - 0"
30' - 0"
30' - 6"
2
A3.03
1
A3.03
EXHAUST FAN HOOD CENTERED ABOVE OVERHEAD DOOR (TYP.) SEE MECH. DWGS.
24 Ga. MTL ROOF w/ GALVALUME FIN.
SNOW GUARD w/ GALVALUME FIN.
24 Ga. MTL. GUTTERS, MATCH MTL. ROOF FIN.
24 Ga. MTL. DOWNSPOUTS, MATCH MTL. ROOF FIN.
MTL. WALL PANELS
14'x14' INSUL. OVERHEAD DOOR
26"x16" EXHAUST LOUVER SEE MECH. DWGS.
26"x16" INTAKE LOUVER SEE MECH. DWGS.
FIN. FL.
100' - 0"
CONC. BOLLARDS @ EA. OVERHEAD DOOR
6"
14' - 0"
INSUL. H.M. DOOR & FRAME SEE DOOR SCHED.

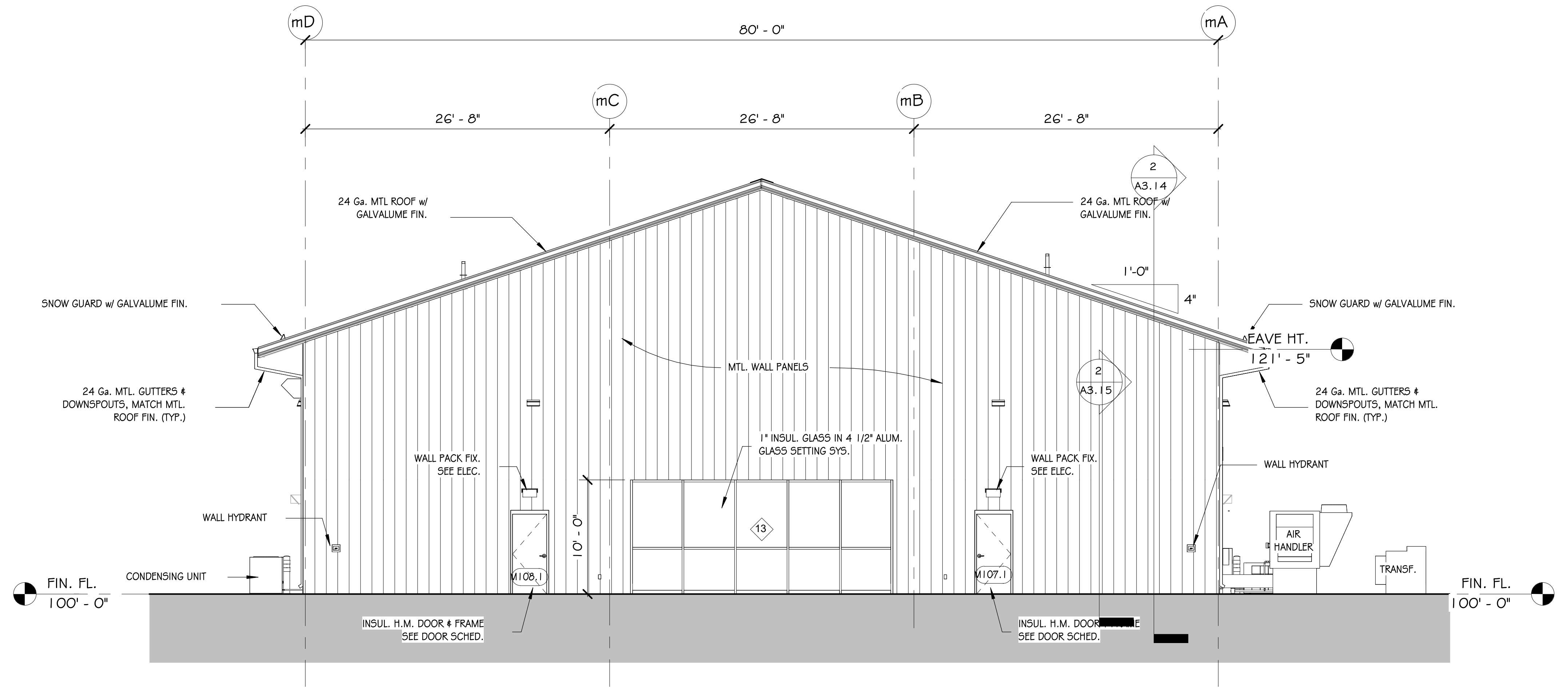
① MAINTENANCE BUILDING - SOUTH ELEVATION
1/8" = 1'-0"


o1
m8
m7
m6
m5
m4
m3
m2
m1
23' - 7"
211' - 0"
30' - 6"
30' - 0"
30' - 0"
30' - 0"
30' - 0"
30' - 0"
30' - 6"
1
A3.03
1
A3.15
2
A3.03
3
A3.15
24 Ga. MTL ROOF w/ GALVALUME FIN.
SNOW GUARD w/ GALVALUME FIN.
EAVE HT.
121' - 5"
24 Ga. MTL. DOWNSPOUTS, MATCH MTL. ROOF FIN.
24 Ga. MTL. GUTTERS, MATCH MTL. ROOF FIN.
MTL. WALL PANELS
26"x16" EXHAUST LOUVER SEE MECH. DWGS.
AIR HANDLER
TRANSFORMER
14'x14' INSUL. OVERHEAD DOOR
CONC. BOLLARDS @ EA. OVERHEAD DOOR
40"x48" AIR INTAKE LOUVER
FIN. FL.
100' - 0"

② MAINTENANCE BUILDING - NORTH ELEVATION
1/8" = 1'-0"


mA
mB
mC
mD
80' - 0"
26' - 8"
26' - 8"
26' - 8"
24 Ga. MTL ROOF w/ GALVALUME FIN.
1'-0"
4"
SNOW GUARD w/ GALVALUME FIN.
EAVE HT.
121' - 5"
24 Ga. MTL. GUTTERS & DOWNSPOUTS, MATCH MTL. ROOF FIN. (TYP.)
MTL. WALL PANELS
WALL HYDRANT
CONC. BOLLARD
FIN. FL.
100' - 0"

③ MAINTENANCE BUILDING - WEST ELEVATION I
1/8" = 1'-0"


mD
mC
mB
mA
80' - 0"
26' - 8"
26' - 8"
26' - 8"
2
A3.14
24 Ga. MTL ROOF w/ GALVALUME FIN.
1'-0"
4"
SNOW GUARD w/ GALVALUME FIN.
EAVE HT.
121' - 5"
24 Ga. MTL. GUTTERS & DOWNSPOUTS, MATCH MTL. ROOF FIN. (TYP.)
MTL. WALL PANELS
2
A3.15
1" INSUL. GLASS IN 4 1/2" ALUM. GLASS SETTING SYS.
WALL PACK FIX. SEE ELEC.
WALL HYDRANT
10' - 0"
13
AIR HANDLER
TRANSF.
CONDENSING UNIT
M108.1
M107.1
FIN. FL.
100' - 0"
INSUL. H.M. DOOR & FRAME SEE DOOR SCHED.
INSUL. H.M. DOOR [illegible] SEE DOOR SCHED.

④ MAINTENANCE BUILDING - EAST ELEVATION I
1/8" = 1'-0"

STAMPS

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STAMPS

CARL F. MENYHART, JR.
No. 1007
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

EXTERIOR ELEVATIONS - MAINTENANCE BLDG.

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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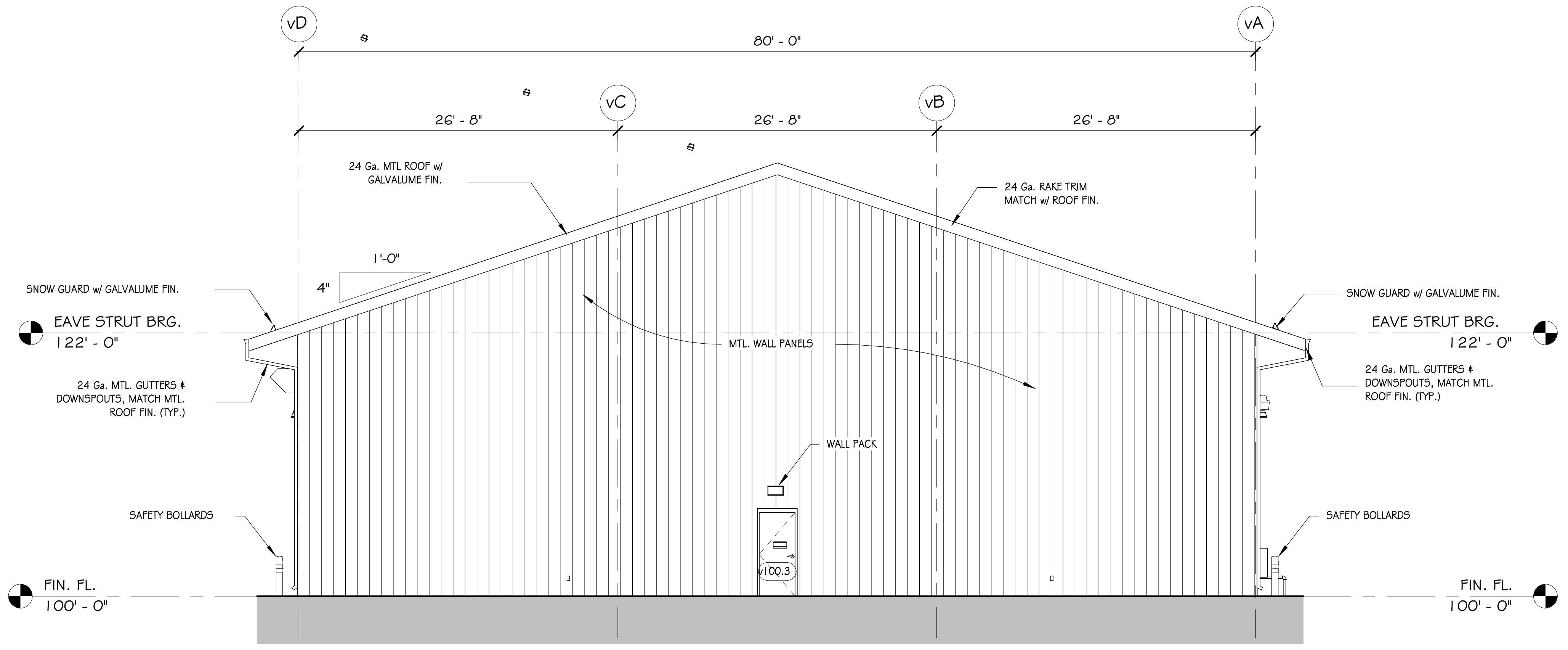
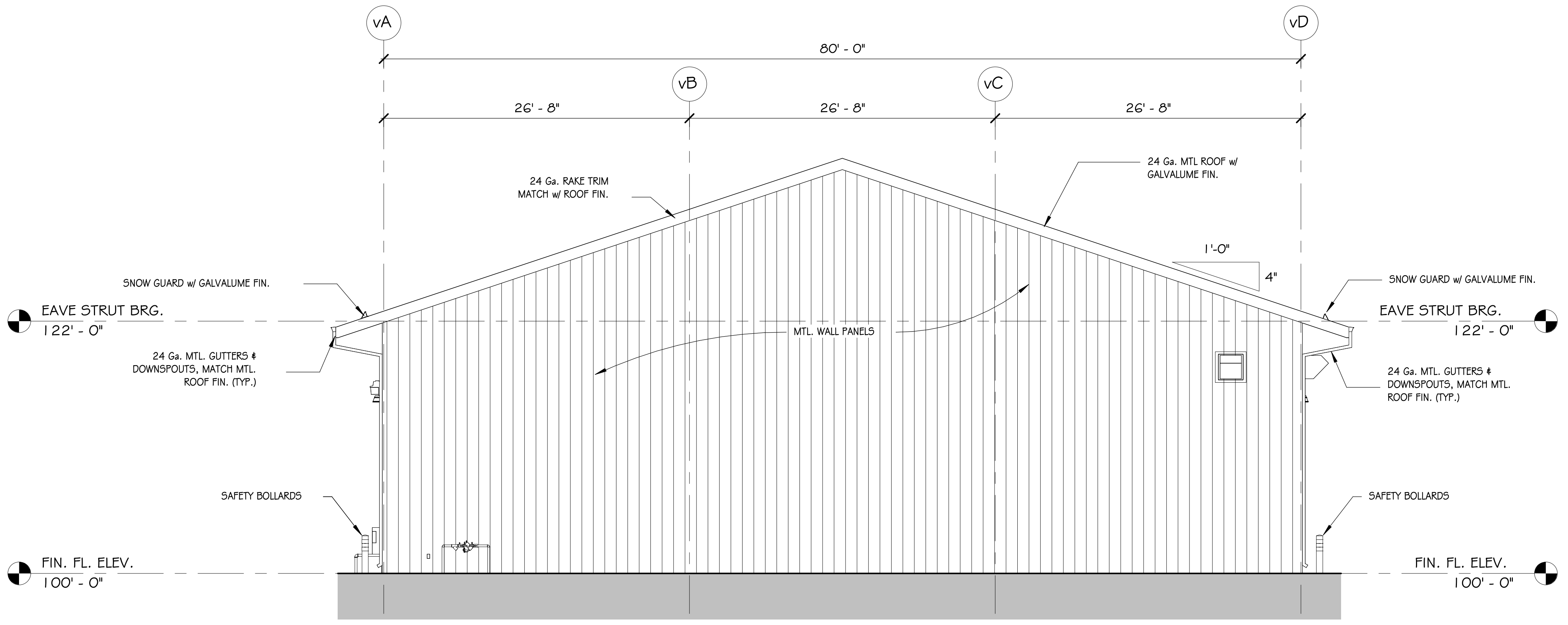
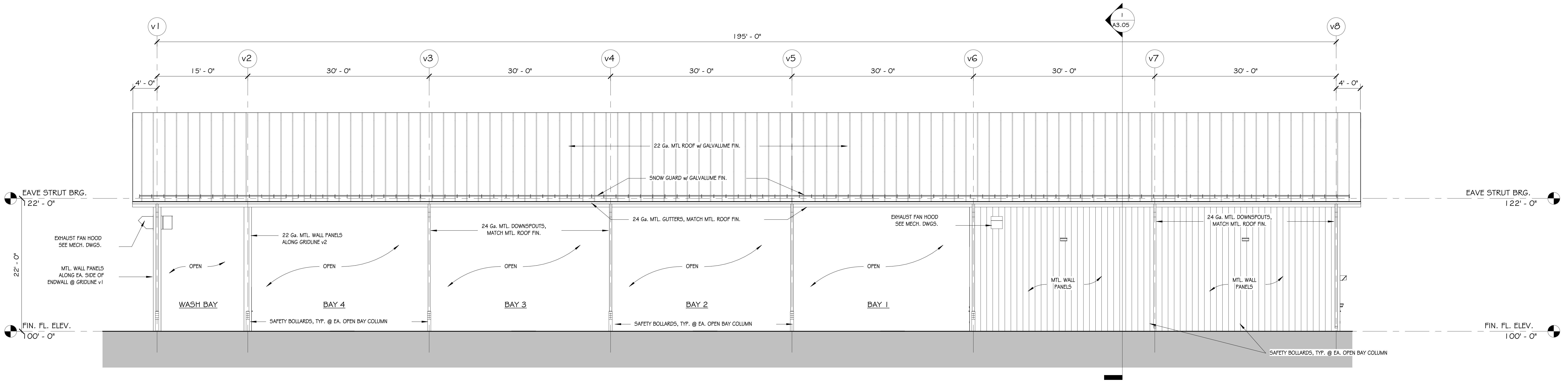

vD
vA
80' - 0"
vC
vB
26' - 8"
26' - 8"
26' - 8"
24 Ga. MTL ROOF w/ GALVALUME FIN.
24 Ga. RAKE TRIM MATCH w/ ROOF FIN.
1'-0"
4"
SNOW GUARD w/ GALVALUME FIN.
EAVE STRUT BRG.
122' - 0"
MTL. WALL PANELS
24 Ga. MTL. GUTTERS & DOWNSPOUTS, MATCH MTL. ROOF FIN. (TYP.)
WALL PACK
SAFETY BOLLARDS
v100.3
FIN. FL.
100' - 0"

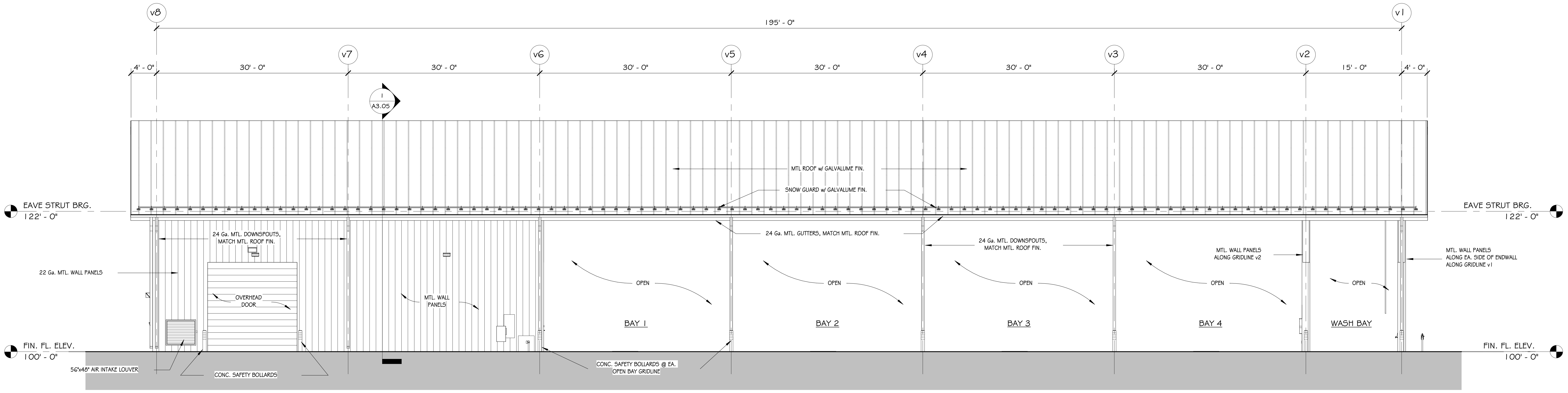
2 VEHICLE STORAGE - EAST ELEVATION @ SMALL ENGINE SHOP
1/8" = 1'-0"


vA
vD
80' - 0"
vB
vC
26' - 8"
26' - 8"
26' - 8"
24 Ga. RAKE TRIM MATCH w/ ROOF FIN.
24 Ga. MTL ROOF w/ GALVALUME FIN.
1'-0"
4"
SNOW GUARD w/ GALVALUME FIN.
EAVE STRUT BRG.
122' - 0"
MTL. WALL PANELS
24 Ga. MTL. GUTTERS & DOWNSPOUTS, MATCH MTL. ROOF FIN. (TYP.)
SAFETY BOLLARDS
FIN. FL. ELEV.
100' - 0"

1 VEHCLE STORAGE - WEST ELEVATION @ WASH BAY
1/8" = 1'-0"


1
A3.05
v1
v8
195' - 0"
v2
v3
v4
v5
v6
v7
4' - 0"
15' - 0"
30' - 0"
30' - 0"
30' - 0"
30' - 0"
30' - 0"
30' - 0"
4' - 0"
22 Ga. MTL ROOF w/ GALVALUME FIN.
SNOW GUARD w/ GALVALUME FIN.
EAVE STRUT BRG.
122' - 0"
24 Ga. MTL. GUTTERS, MATCH MTL. ROOF FIN.
EXHAUST FAN HOOD SEE MECH. DWGS.
22 Ga. MTL. WALL PANELS ALONG GRIDLINE v2
24 Ga. MTL. DOWNSPOUTS, MATCH MTL. ROOF FIN.
22' - 0"
MTL. WALL PANELS ALONG EA. SIDE OF ENDWALL @ GRIDLINE v1
OPEN
WASH BAY
BAY 4
BAY 3
BAY 2
BAY 1
MTL. WALL PANELS
SAFETY BOLLARDS, TYP. @ EA. OPEN BAY COLUMN
FIN. FL. ELEV.
100' - 0"

4 VEHICLE STORAGE -SOUTH ELEVATION
1/8" = 1'-0"


v8
v1
195' - 0"
v7
v6
v5
v4
v3
v2
4' - 0"
30' - 0"
30' - 0"
30' - 0"
30' - 0"
30' - 0"
30' - 0"
15' - 0"
4' - 0"
1
A3.05
MTL ROOF w/ GALVALUME FIN.
SNOW GUARD w/ GALVALUME FIN.
EAVE STRUT BRG.
122' - 0"
24 Ga. MTL. DOWNSPOUTS, MATCH MTL. ROOF FIN.
24 Ga. MTL. GUTTERS, MATCH MTL. ROOF FIN.
22 Ga. MTL. WALL PANELS
OVERHEAD DOOR
MTL. WALL PANELS
MTL. WALL PANELS ALONG GRIDLINE v2
MTL. WALL PANELS ALONG EA. SIDE OF ENDWALL ALONG GRIDLINE v1
OPEN
BAY 1
BAY 2
BAY 3
BAY 4
WASH BAY
FIN. FL. ELEV.
100' - 0"
56"x48" AIR INTAKE LOUVER
CONC. SAFETY BOLLARDS
CONC. SAFETY BOLLARDS @ EA. OPEN BAY GRIDLINE

3 VEHICLE STORAGE - NORTH ELEVATION
1/8" = 1'-0"

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ETC Engineers & Architects, Inc.
No. C-462

STAMPS

CARL F. MENYHART, JR.
No. 1007
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
EXTERIOR ELEVATIONS - VEHICLE STORAGE

Revision	
Date	Description

Project No.: 2106601CBATE
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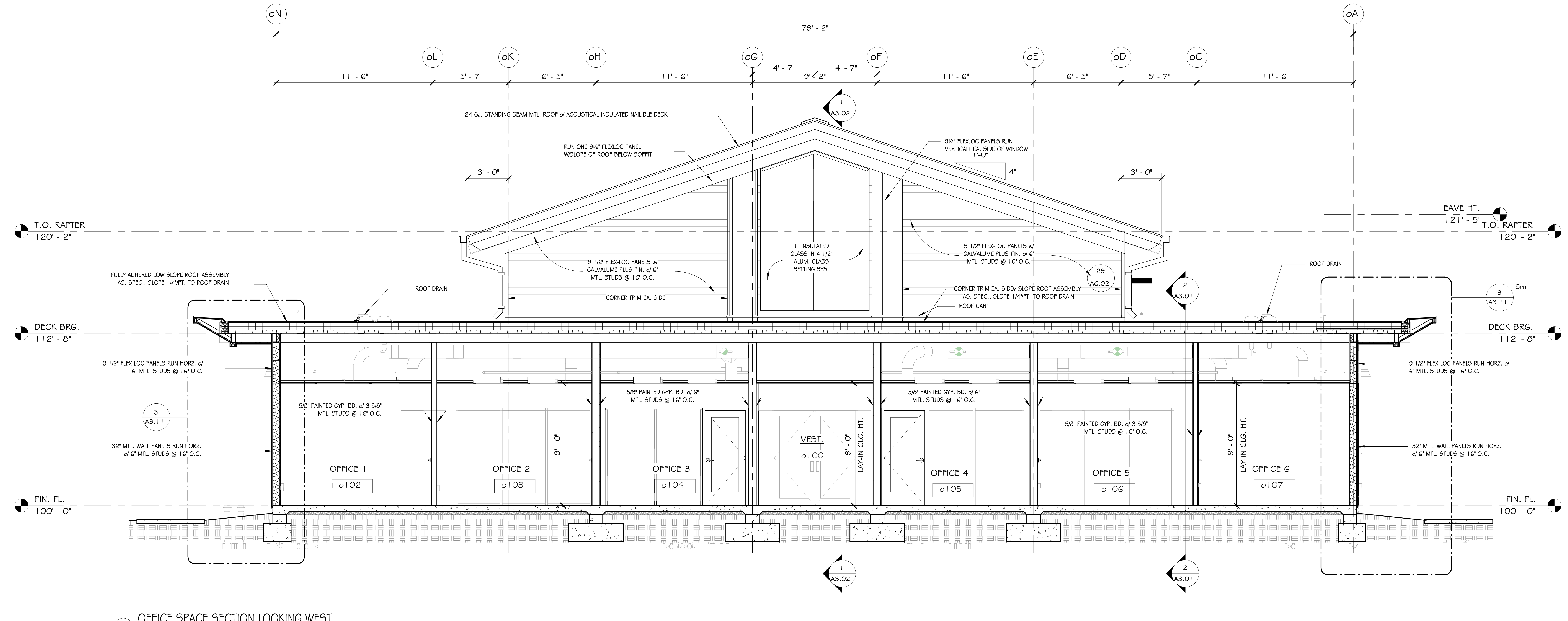
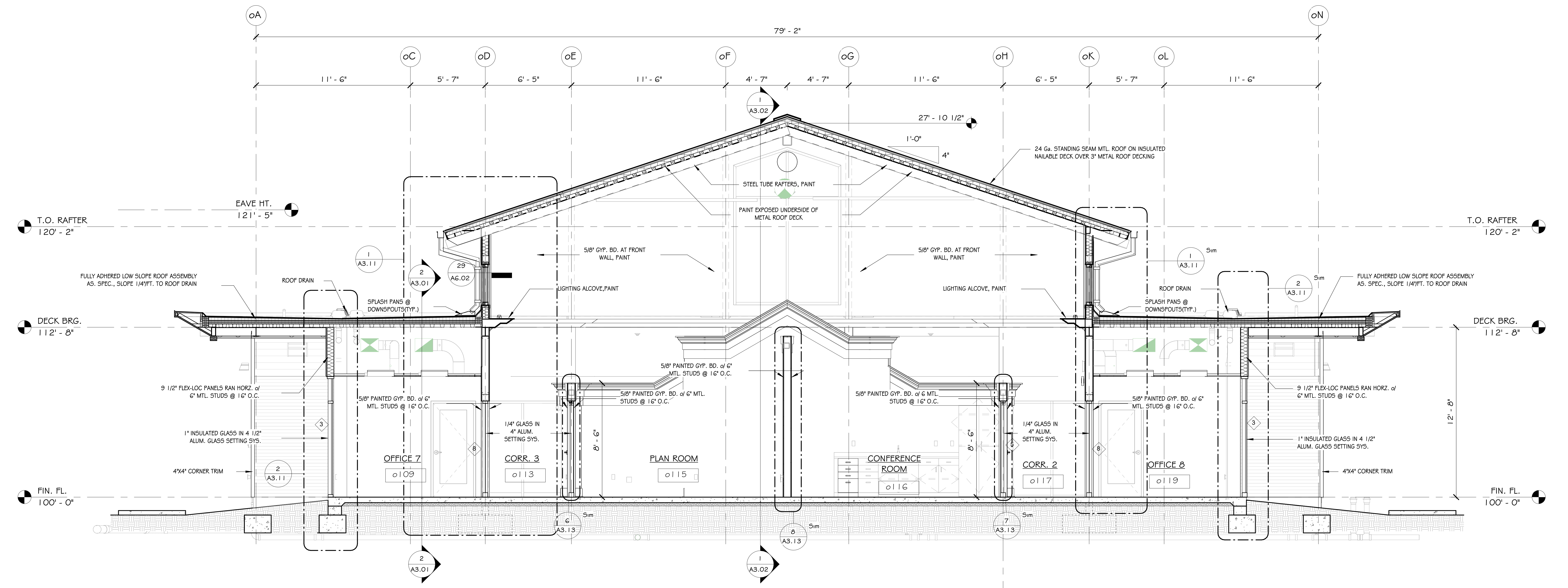

oN
oA
79' - 2"
oL
oK
oH
oG
oF
oE
oD
oC
11' - 6"
5' - 7"
6' - 5"
4' - 7"
9' 4 2"
24 Ga. STANDING SEAM MTL. ROOF o/ ACOUSTICAL INSULATED NAILIBLE DECK
RUN ONE 9½" FLEXLOC PANEL W/SLOPE OF ROOF BELOW SOFFIT
9½" FLEXLOC PANELS RUN VERTICALL EA. SIDE OF WINDOW
1'-0"
4"
3' - 0"
1 A3.02
EAVE HT. 121' - 5"
T.O. RAFTER 120' - 2"
1" INSULATED GLASS IN 4 1/2" ALUM. GLASS SETTING SYS.
9 1/2" FLEX-LOC PANELS w/ GALVALUME PLUS FIN. o/ 6" MTL. STUDS @ 16" O.C.
29 A6.02
FULLY ADHERED LOW SLOPE ROOF ASSEMBLY AS. SPEC., SLOPE 1/4"/FT. TO ROOF DRAIN
ROOF DRAIN
CORNER TRIM EA. SIDE
CORNER TRIM EA. SIDEV SLOPE ROOF ASSEMBLY AS. SPEC., SLOPE 1/4"/FT. TO ROOF DRAIN
ROOF CANT
2 A3.01
3 A3.11 Sim
DECK BRG. 112' - 8"
9 1/2" FLEX-LOC PANELS RUN HORZ. o/ 6" MTL. STUDS @ 16" O.C.
5/8" PAINTED GYP. BD. o/ 3 5/8" MTL. STUDS @ 16" O.C.
5/8" PAINTED GYP. BD. o/ 6" MTL. STUDS @ 16" O.C.
3 A3.11
32" MTL. WALL PANELS RUN HORZ. o/ 6" MTL. STUDS @ 16" O.C.
9' - 0"
LAY-IN CLG. HT.
OFFICE 1
o102
OFFICE 2
o103
OFFICE 3
o104
VEST.
o100
OFFICE 4
o105
OFFICE 5
o106
OFFICE 6
o107
FIN. FL. 100' - 0"

1 OFFICE SPACE SECTION LOOKING WEST
1/4" = 1'-0"


oA
oN
79' - 2"
oC
oD
oE
oF
oG
oH
oK
oL
11' - 6"
5' - 7"
6' - 5"
4' - 7"
1 A3.02
27' - 10 1/2"
1'-0"
4"
24 Ga. STANDING SEAM MTL. ROOF ON INSULATED NAILABLE DECK OVER 3" METAL ROOF DECKING
STEEL TUBE RAFTERS, PAINT
PAINT EXPOSED UNDERSIDE OF METAL ROOF DECK
EAVE HT. 121' - 5"
T.O. RAFTER 120' - 2"
1 A3.11
2 A3.01
29 A6.02
5/8" GYP. BD. AT FRONT WALL, PAINT
1 A3.11 Sim
2 A3.11 Sim
FULLY ADHERED LOW SLOPE ROOF ASSEMBLY AS. SPEC., SLOPE 1/4"/FT. TO ROOF DRAIN
ROOF DRAIN
SPLASH PANS @ DOWNSPOUTS(TYP.)
LIGHTING ALCOVE,PAINT
LIGHTING ALCOVE, PAINT
DECK BRG. 112' - 8"
5/8" PAINTED GYP. BD. o/ 6" MTL. STUDS @ 16" O.C.
5/8" PAINTED GYP. BD. o/ 6" MTL. STUDS @ 16" O.C.
5/8" PAINTED GYP. BD. o/ 6 MTL. STUDS @ 16" O.C.
9 1/2" FLEX-LOC PANELS RAN HORZ. o/ 6" MTL. STUDS @ 16" O.C.
1/4" GLASS IN 4" ALUM. SETTING SYS.
1" INSULATED GLASS IN 4 1/2" ALUM. GLASS SETTING SYS.
4"X4" CORNER TRIM
2 A3.11
3
8
5
8' - 6"
12' - 8"
OFFICE 7
o109
CORR. 3
o113
PLAN ROOM
o115
CONFERENCE ROOM
o116
CORR. 2
o117
OFFICE 8
o119
FIN. FL. 100' - 0"
6 A3.13 Sim
8 A3.13 Sim
7 A3.13 Sim
2 A3.01
1 A3.02

2 CLERESTORY SECTION LOOKING EAST
1/4" = 1'-0"

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

BUILDING SECTIONS - OFFICE BLDG.

Revision

Date	Description

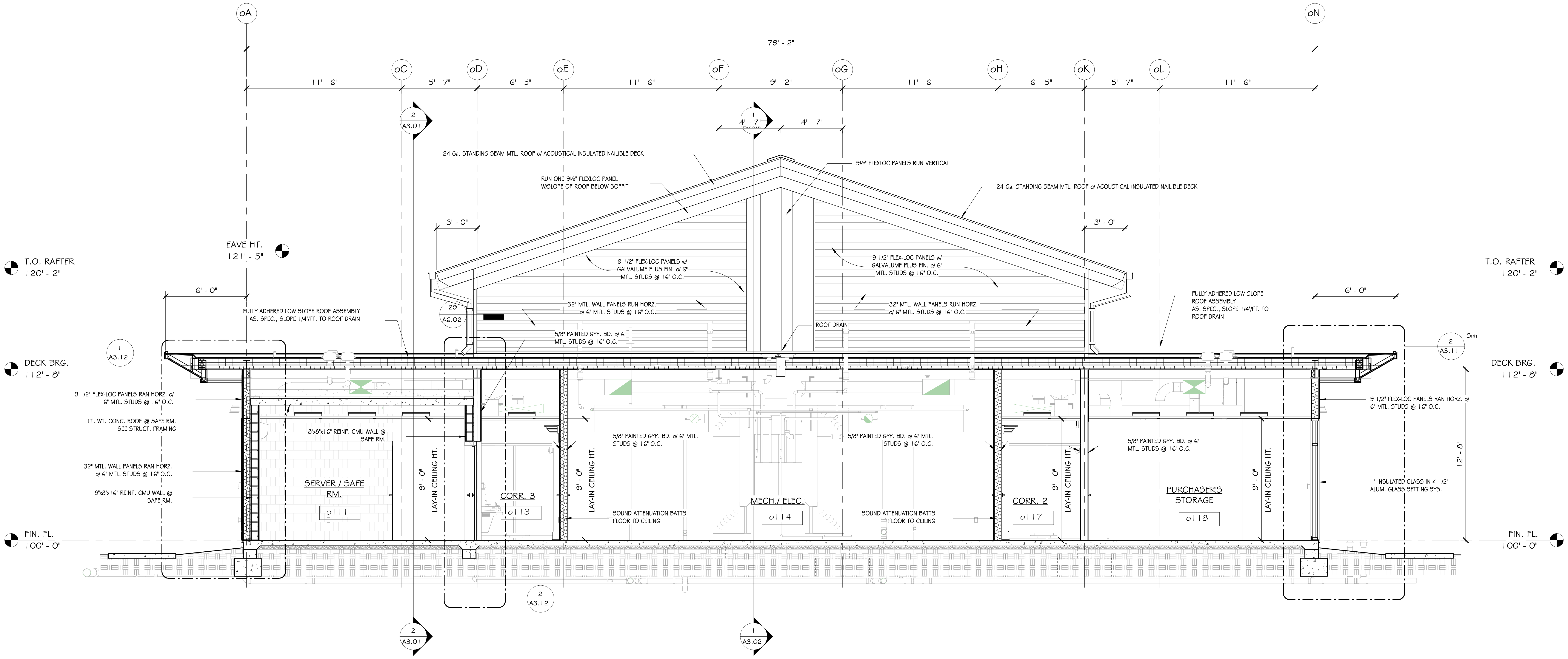
Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

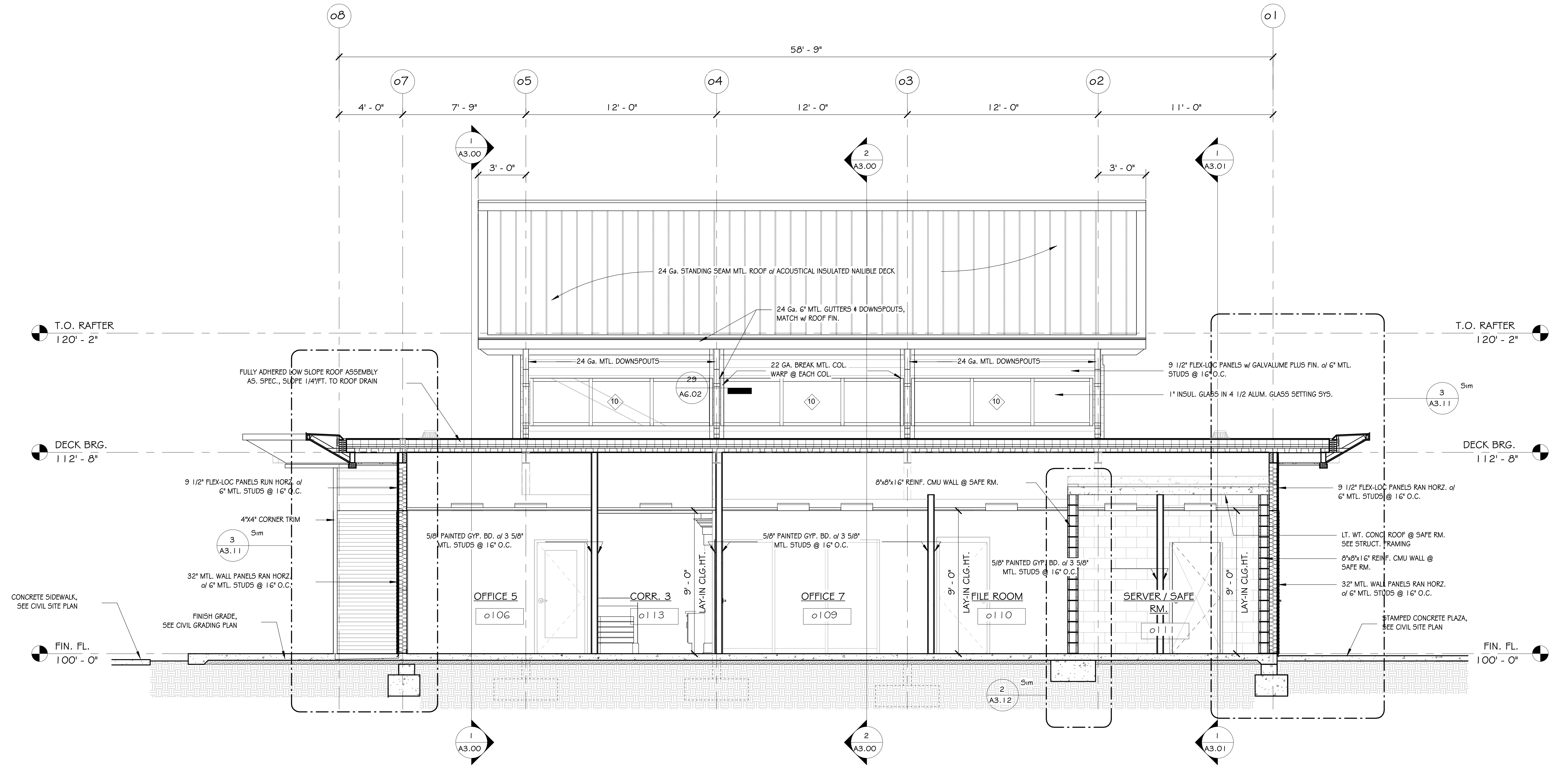
Drawn By: Author **Checked By:** Checker

DATE: JULY 29, 2022

A3.00


oA
oN
79' - 2"
oC
oD
oE
oF
oG
oH
oK
oL
11' - 6"
5' - 7"
6' - 5"
11' - 6"
9' - 2"
11' - 6"
6' - 5"
5' - 7"
11' - 6"
4' - 7"
4' - 7"
2
A3.01
1
A3.02
24 Ga. STANDING SEAM MTL. ROOF o/ ACOUSTICAL INSULATED NAILIBLE DECK
RUN ONE 9½" FLEXLOC PANEL
W/SLOPE OF ROOF BELOW SOFFIT
9½" FLEXLOC PANELS RUN VERTICAL
24 Ga. STANDING SEAM MTL. ROOF o/ ACOUSTICAL INSULATED NAILIBLE DECK
3' - 0"
3' - 0"
EAVE HT.
121' - 5"
T.O. RAFTER
120' - 2"
T.O. RAFTER
120' - 2"
9 1/2" FLEX-LOC PANELS w/
GALVALUME PLUS FIN. o/ 6"
MTL. STUDS @ 16" O.C.
9 1/2" FLEX-LOC PANELS w/
GALVALUME PLUS FIN. o/ 6"
MTL. STUDS @ 16" O.C.
6' - 0"
6' - 0"
FULLY ADHERED LOW SLOPE ROOF ASSEMBLY
AS. SPEC., SLOPE 1/4"/FT. TO ROOF DRAIN
29
A6.02
32" MTL. WALL PANELS RUN HORZ.
o/ 6" MTL. STUDS @ 16" O.C.
32" MTL. WALL PANELS RUN HORZ.
o/ 6" MTL. STUDS @ 16" O.C.
FULLY ADHERED LOW SLOPE
ROOF ASSEMBLY
AS. SPEC., SLOPE 1/4"/FT. TO
ROOF DRAIN
5/8" PAINTED GYP. BD. o/ 6"
MTL. STUDS @ 16" O.C.
ROOF DRAIN
1
A3.12
2
Sim
A3.11
DECK BRG.
112' - 8"
DECK BRG.
112' - 8"
9 1/2" FLEX-LOC PANELS RAN HORZ. o/
6" MTL. STUDS @ 16" O.C.
9 1/2" FLEX-LOC PANELS RAN HORZ. o/
6" MTL. STUDS @ 16" O.C.
LT. WT. CONC. ROOF @ SAFE RM.
SEE STRUCT. FRAMING
8"x8"x16" REINF. CMU WALL @
SAFE RM.
5/8" PAINTED GYP. BD. o/ 6" MTL.
STUDS @ 16" O.C.
5/8" PAINTED GYP. BD. o/ 6" MTL.
STUDS @ 16" O.C.
5/8" PAINTED GYP. BD. o/ 6"
MTL. STUDS @ 16" O.C.
12' - 8"
32" MTL. WALL PANELS RAN HORZ.
o/ 6" MTL. STUDS @ 16" O.C.
1" INSULATED GLASS IN 4 1/2"
ALUM. GLASS SETTING SYS.
8"x8"x16" REINF. CMU WALL @
SAFE RM.
SERVER / SAFE
RM.
o111
9' - 0"
LAY-IN CEILING HT.
CORR. 3
o113
9' - 0"
LAY-IN CEILING HT.
MECH./ ELEC.
o114
SOUND ATTENUATION BATTS
FLOOR TO CEILING
SOUND ATTENUATION BATTS
FLOOR TO CEILING
CORR. 2
o117
9' - 0"
LAY-IN CEILING HT.
PURCHASER'S
STORAGE
o118
9' - 0"
LAY-IN CEILING HT.
FIN. FL.
100' - 0"
FIN. FL.
100' - 0"
2
A3.12
2
A3.01
1
A3.02

1 SERVER / MECH. / STOR. RM. SECTION LOOKING EAST
1/4" = 1'-0"



2 SECTION THRU SERVER RM. / FILE RM. / OFFICES 5 & 7 LOOKING SOUTH
1/4" = 1'-0"

STAMPS

C-462

STAMPS

CARL F. MENYHART, JR.
No. 1007
7/29/22
Carl Menyhart Jr.

ETC ENGINEERS &
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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

BUILDING SECTIONS - OFFICE BLDG.

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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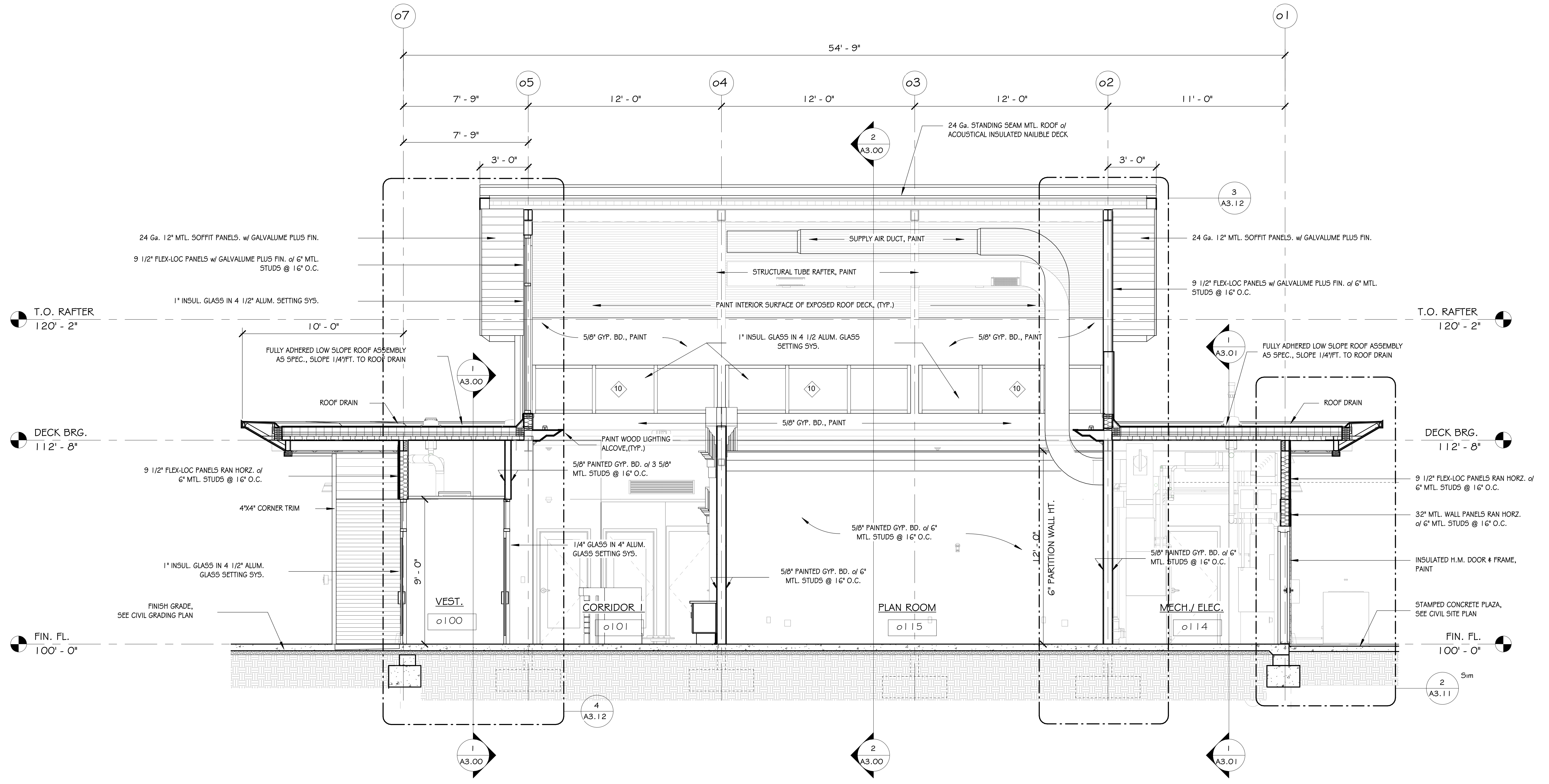
o7
o1
54' - 9"
o5
o4
o3
o2
7' - 9"
12' - 0"
12' - 0"
12' - 0"
11' - 0"
7' - 9"
3' - 0"
3' - 0"
24 Ga. STANDING SEAM MTL. ROOF o/ ACOUSTICAL INSULATED NAILIBLE DECK
2 A3.00
3 A3.12
24 Ga. 12" MTL. SOFFIT PANELS. w/ GALVALUME PLUS FIN.
9 1/2" FLEX-LOC PANELS w/ GALVALUME PLUS FIN. o/ 6" MTL. STUDS @ 16" O.C.
1" INSUL. GLASS IN 4 1/2" ALUM. SETTING SYS.
SUPPLY AIR DUCT, PAINT
STRUCTURAL TUBE RAFTER, PAINT
PAINT INTERIOR SURFACE OF EXPOSED ROOF DECK, (TYP.)
T.O. RAFTER
120' - 2"
10' - 0"
5/8" GYP. BD., PAINT
1" INSUL. GLASS IN 4 1/2 ALUM. GLASS SETTING SYS.
FULLY ADHERED LOW SLOPE ROOF ASSEMBLY AS SPEC., SLOPE 1/4"/FT. TO ROOF DRAIN
1 A3.00
1 A3.01
10
ROOF DRAIN
DECK BRG.
112' - 8"
PAINT WOOD LIGHTING ALCOVE,(TYP.)
5/8" GYP. BD., PAINT
9 1/2" FLEX-LOC PANELS RAN HORZ. o/ 6" MTL. STUDS @ 16" O.C.
5/8" PAINTED GYP. BD. o/ 3 5/8" MTL. STUDS @ 16" O.C.
4"X4" CORNER TRIM
32" MTL. WALL PANELS RAN HORZ. o/ 6" MTL. STUDS @ 16" O.C.
5/8" PAINTED GYP. BD. o/ 6" MTL. STUDS @ 16" O.C.
12' - 0"
6" PARTITION WALL HT.
1/4" GLASS IN 4" ALUM. GLASS SETTING SYS.
5/8" PAINTED GYP. BD. o/ 6" MTL. STUDS @ 16" O.C.
INSULATED H.M. DOOR & FRAME, PAINT
1" INSUL. GLASS IN 4 1/2" ALUM. GLASS SETTING SYS.
9' - 0"
VEST.
o100
CORRIDOR 1
o101
PLAN ROOM
o115
MECH./ ELEC.
o114
FINISH GRADE, SEE CIVIL GRADING PLAN
STAMPED CONCRETE PLAZA, SEE CIVIL SITE PLAN
FIN. FL.
100' - 0"
4 A3.12
2 A3.11
Sim
1 A3.00
2 A3.00
1 A3.01

1 CLERESTORY & ENTRANCE SECTIONS LOOKING SOUTH
1/4" = 1'-0"

STAMPS

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STAMPS

REGISTERED ARCHITECT
CARL F. MENYHART, JR.
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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
BUILDING SECTIONS - OFFICE BLDG.

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: Author
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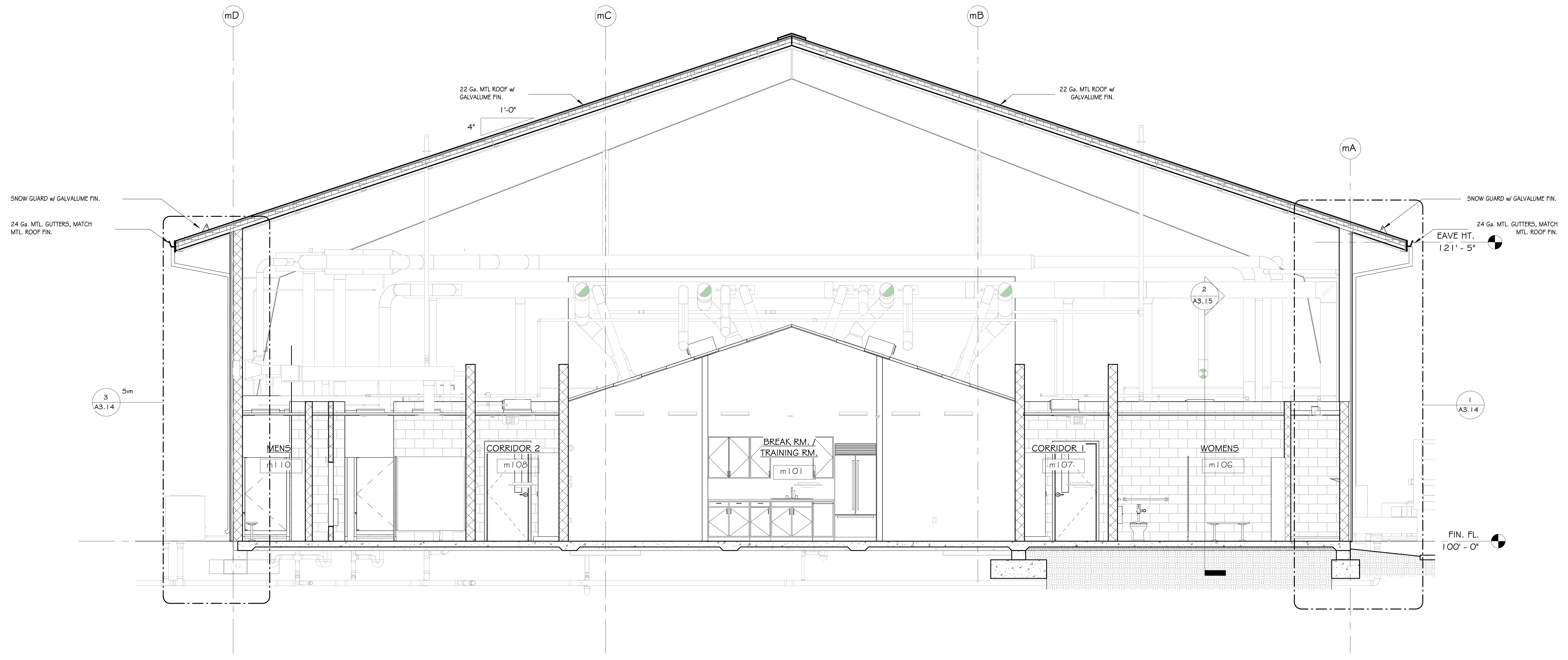
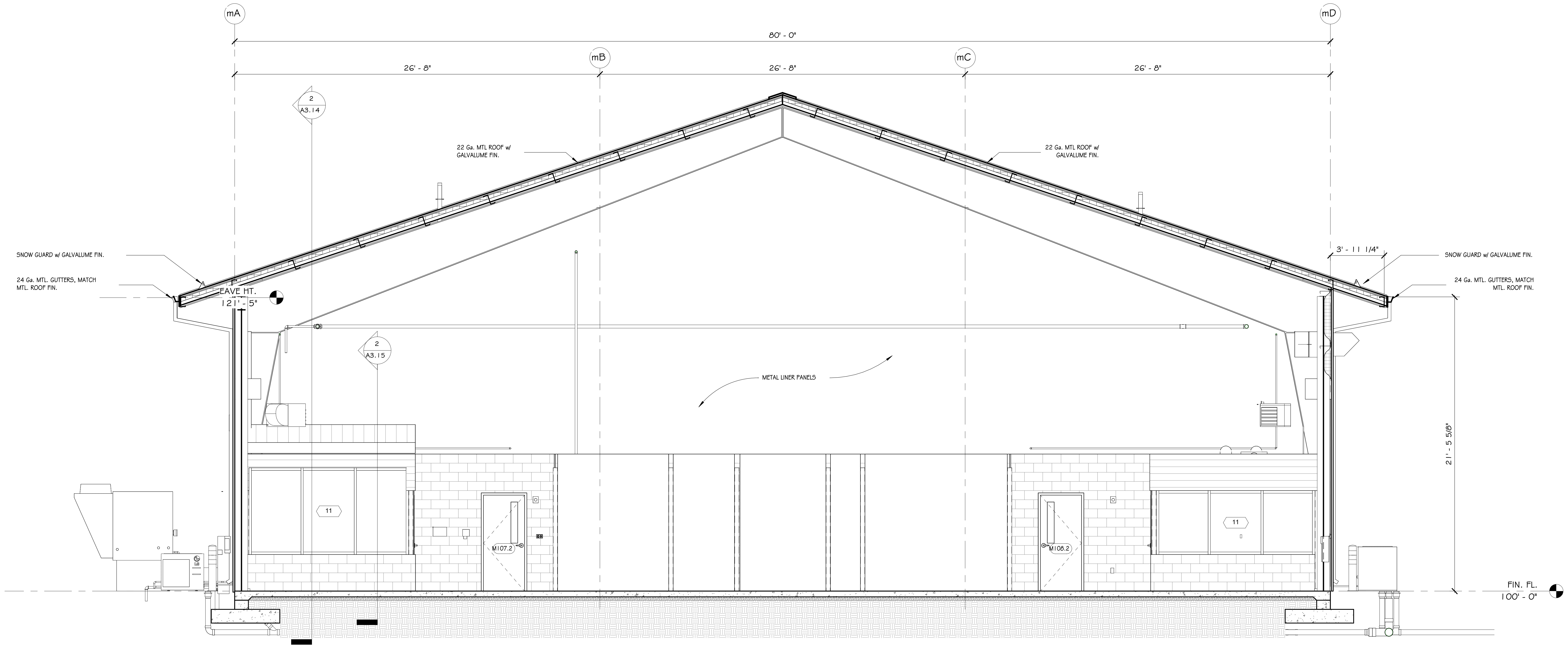

mD
mC
mB
mA
22 Ga. MTL ROOF w/ GALVALUME FIN.
1'-0"
4"
22 Ga. MTL ROOF w/ GALVALUME FIN.
SNOW GUARD w/ GALVALUME FIN.
24 Ga. MTL. GUTTERS, MATCH MTL. ROOF FIN.
SNOW GUARD w/ GALVALUME FIN.
24 Ga. MTL. GUTTERS, MATCH MTL. ROOF FIN.
EAVE HT.
121' - 5"
2
A3.15
3
A3.14
Sim
1
A3.14
MENS
m110
CORRIDOR 2
m108
BREAK RM. / TRAINING RM.
m101
CORRIDOR 1
m107
WOMENS
m106
EXIT
FIN. FL.
100' - 0"

① BUILDING CROSS SECTION BETWEEN GRIDLINES m7 & m8 LOOKING WEST
1/4" = 1'-0"


mA
mD
80' - 0"
mB
mC
26' - 8"
26' - 8"
26' - 8"
2
A3.14
22 Ga. MTL ROOF w/ GALVALUME FIN.
22 Ga. MTL ROOF w/ GALVALUME FIN.
SNOW GUARD w/ GALVALUME FIN.
24 Ga. MTL. GUTTERS, MATCH MTL. ROOF FIN.
EAVE HT.
121' - 5"
3' - 11 1/4"
SNOW GUARD w/ GALVALUME FIN.
24 Ga. MTL. GUTTERS, MATCH MTL. ROOF FIN.
2
A3.15
METAL LINER PANELS
21' - 5 5/8"
11
M107.2
M108.2
11
FIN. FL.
100' - 0"

② BUILDING CROSS SECTION ALONG GRIDLINE m6 LOOKING EAST
1/4" = 1'-0"

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CITY OF BATESVILLE
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

BUILDING SECTIONS - MAINTENANCE BLDG.

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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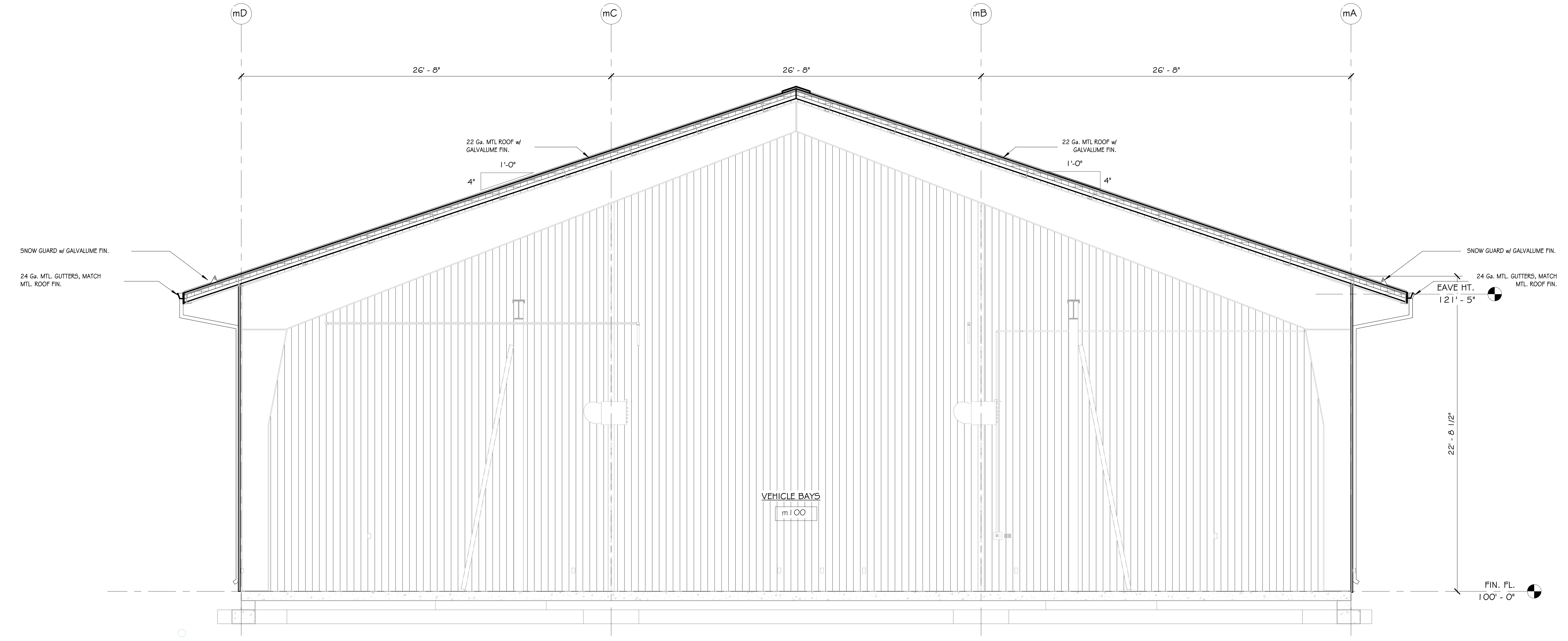
mD
mC
mB
mA
26' - 8"
26' - 8"
26' - 8"
22 Ga. MTL ROOF w/ GALVALUME FIN.
1'-0"
4"
22 Ga. MTL ROOF w/ GALVALUME FIN.
1'-0"
4"
SNOW GUARD w/ GALVALUME FIN.
24 Ga. MTL. GUTTERS, MATCH MTL. ROOF FIN.
SNOW GUARD w/ GALVALUME FIN.
24 Ga. MTL. GUTTERS, MATCH MTL. ROOF FIN.
EAVE HT.
121' - 5"
22' - 8 1/2"
VEHICLE BAYS
m100
FIN. FL.
100' - 0"

1 Section 1
1/4" = 1'-0"

STAMPS

ETC Engineers & Architects, Inc.
No. C-462

STAMPS

Carl F. Menyhart, Jr.
Carl Menyhart Jr.
No. 1007
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

BUILDING SECTIONS - MAINTENANCE BLDG.

Revision

Date	Description

Project No.: 2106601CBATE

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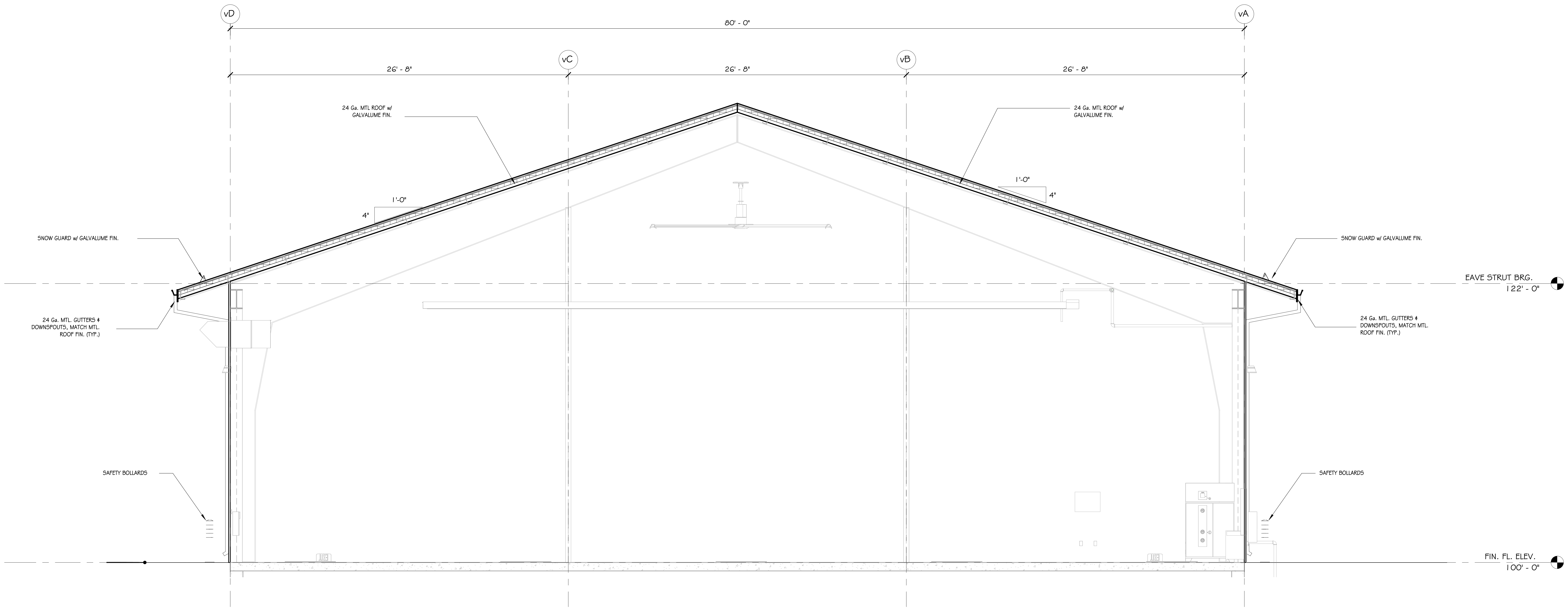
vD
vC
vB
vA
80' - 0"
26' - 8"
26' - 8"
26' - 8"
24 Ga. MTL ROOF w/ GALVALUME FIN.
24 Ga. MTL ROOF w/ GALVALUME FIN.
1'-0"
4"
1'-0"
4"
SNOW GUARD w/ GALVALUME FIN.
SNOW GUARD w/ GALVALUME FIN.
24 Ga. MTL. GUTTERS & DOWNSPOUTS, MATCH MTL. ROOF FIN. (TYP.)
24 Ga. MTL. GUTTERS & DOWNSPOUTS, MATCH MTL. ROOF FIN. (TYP.)
EAVE STRUT BRG.
122' - 0"
SAFETY BOLLARDS
SAFETY BOLLARDS
FIN. FL. ELEV.
100' - 0"

1 VEHICLE STORAGE BLDG. SECTION 1
1/4" = 1'-0"

STAMPS

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STAMPS

CARL F. MENYHART, JR.
No. 1007
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
BUILDING SECTIONS - VEHICLE STORAGE BLDG.

Revision	
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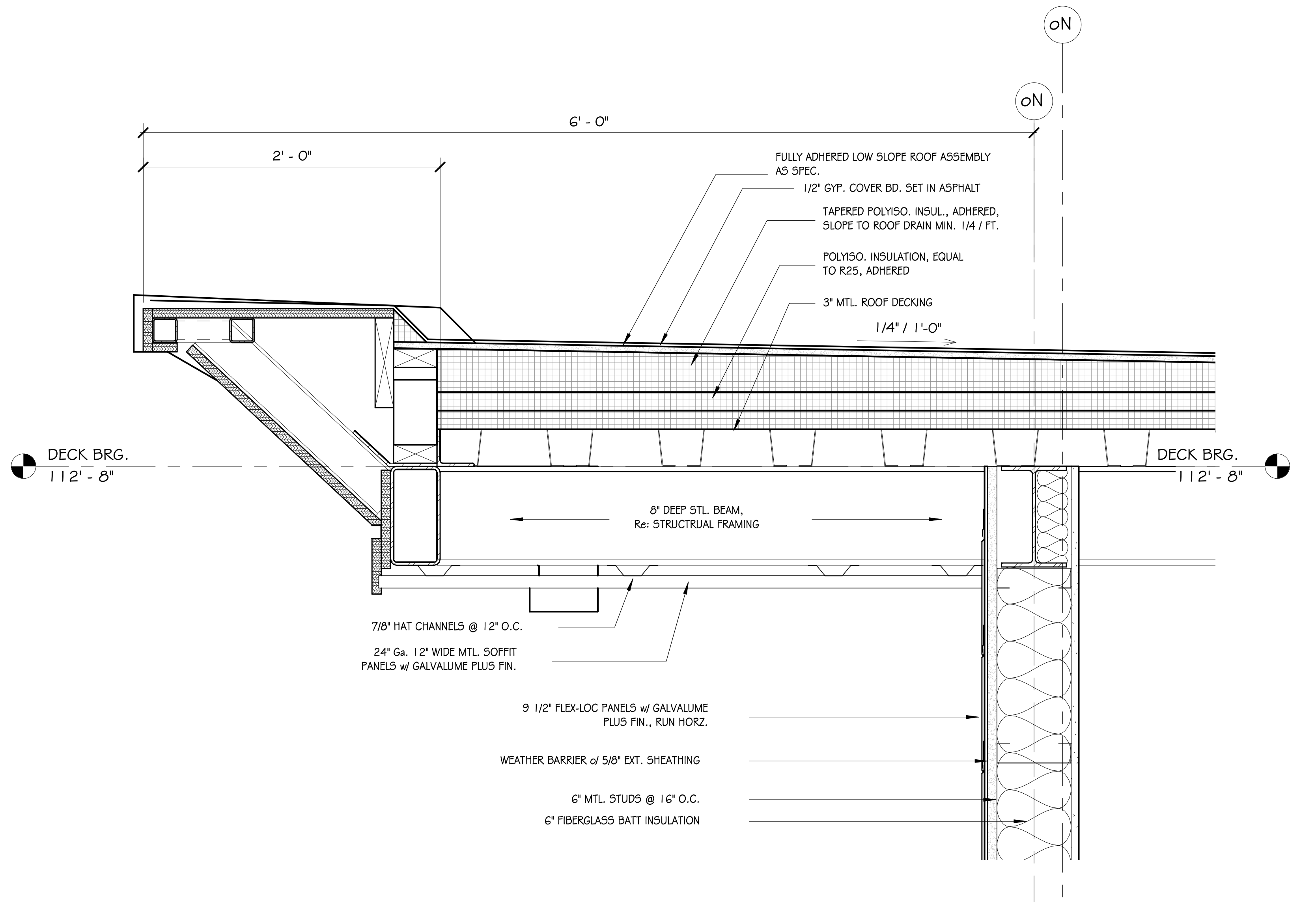
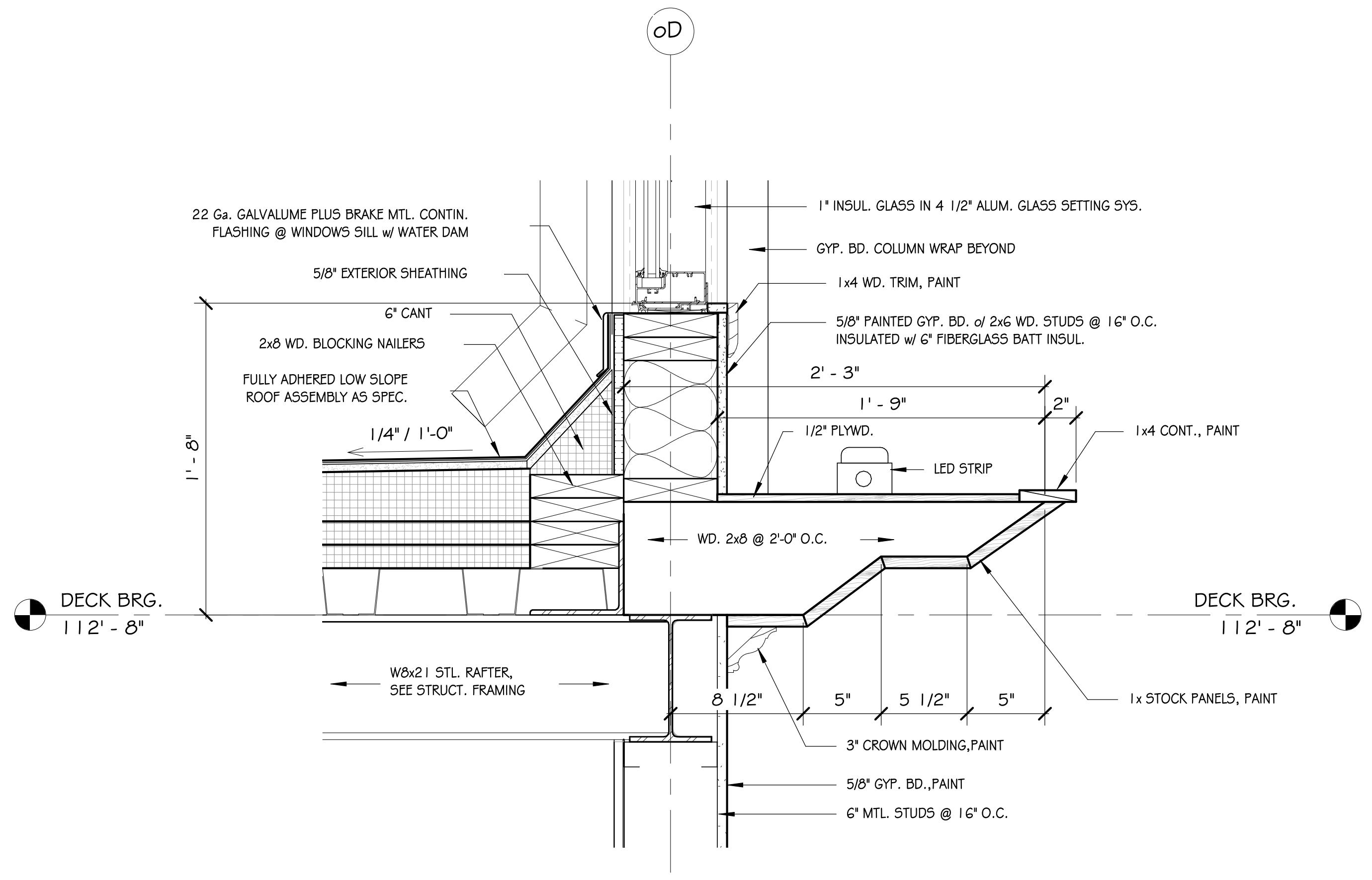
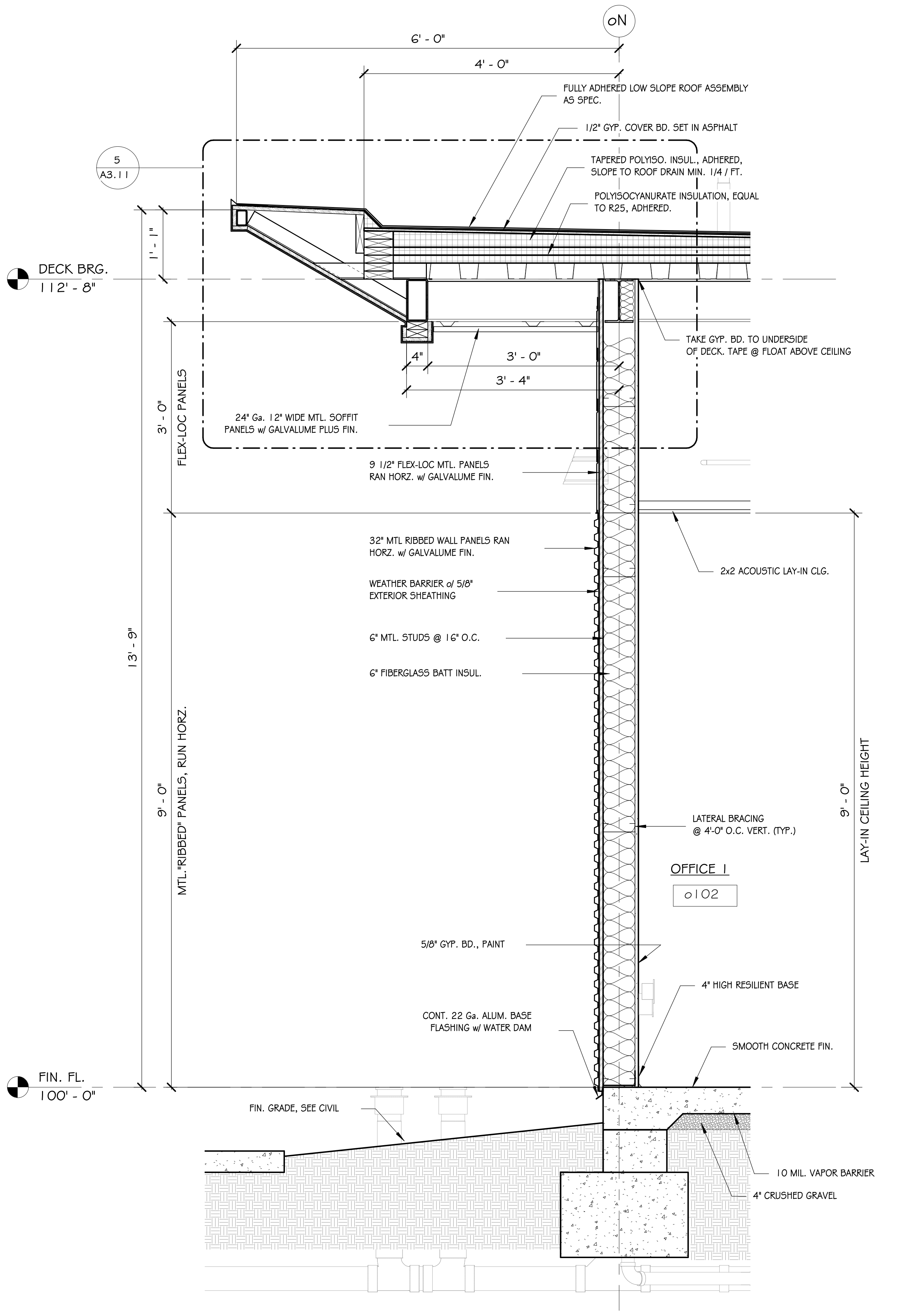

oN
oN
6' - 0"
2' - 0"
FULLY ADHERED LOW SLOPE ROOF ASSEMBLY AS SPEC.
1/2" GYP. COVER BD. SET IN ASPHALT
TAPERED POLYISO. INSUL., ADHERED, SLOPE TO ROOF DRAIN MIN. 1/4 / FT.
POLYISO. INSULATION, EQUAL TO R25, ADHERED
3" MTL. ROOF DECKING
1/4" / 1'-0"
DECK BRG. 112' - 8"
DECK BRG. 112' - 8"
8" DEEP STL. BEAM, Re: STRUCTRUAL FRAMING
7/8" HAT CHANNELS @ 12" O.C.
24" Ga. 12" WIDE MTL. SOFFIT PANELS w/ GALVALUME PLUS FIN.
9 1/2" FLEX-LOC PANELS w/ GALVALUME PLUS FIN., RUN HORZ.
WEATHER BARRIER o/ 5/8" EXT. SHEATHING
6" MTL. STUDS @ 16" O.C.
6" FIBERGLASS BATT INSULATION

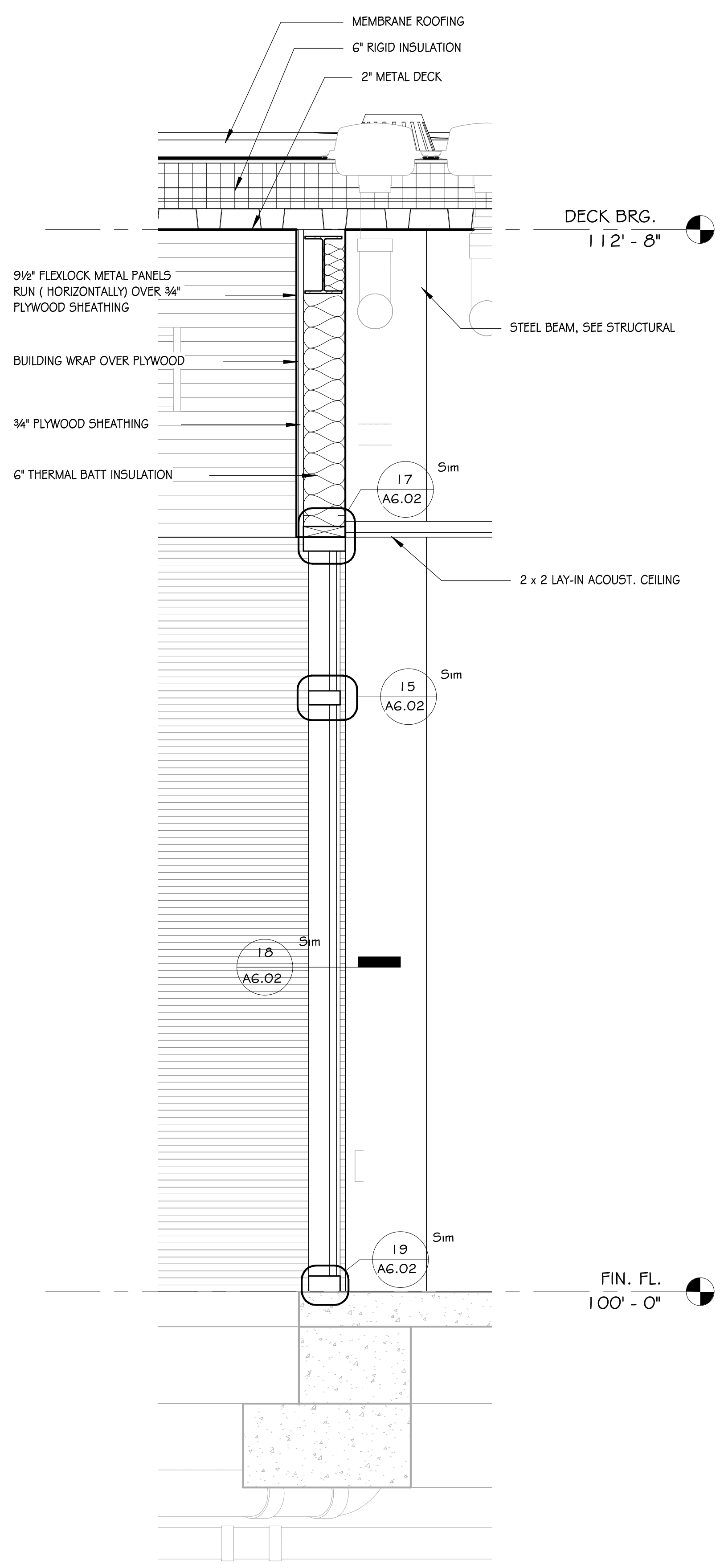
5 TYP. SECTION @ 6'-0" LO ROOF OVERHANG
1 1/2" = 1'-0"


oD
22 Ga. GALVALUME PLUS BRAKE MTL. CONTIN. FLASHING @ WINDOWS SILL w/ WATER DAM
5/8" EXTERIOR SHEATHING
6" CANT
2x8 WD. BLOCKING NAILERS
FULLY ADHERED LOW SLOPE ROOF ASSEMBLY AS SPEC.
1/4" / 1'-0"
1' - 8"
1" INSUL. GLASS IN 4 1/2" ALUM. GLASS SETTING SYS.
GYP. BD. COLUMN WRAP BEYOND
1x4 WD. TRIM, PAINT
5/8" PAINTED GYP. BD. o/ 2x6 WD. STUDS @ 16" O.C. INSULATED w/ 6" FIBERGLASS BATT INSUL.
2' - 3"
1' - 9"
2"
1/2" PLYWD.
LED STRIP
1x4 CONT., PAINT
WD. 2x8 @ 2'-0" O.C.
DECK BRG. 112' - 8"
DECK BRG. 112' - 8"
W8x21 STL. RAFTER, SEE STRUCT. FRAMING
8 1/2"
5"
5 1/2"
5"
1x STOCK PANELS, PAINT
3" CROWN MOLDING,PAINT
5/8" GYP. BD.,PAINT
6" MTL. STUDS @ 16" O.C.

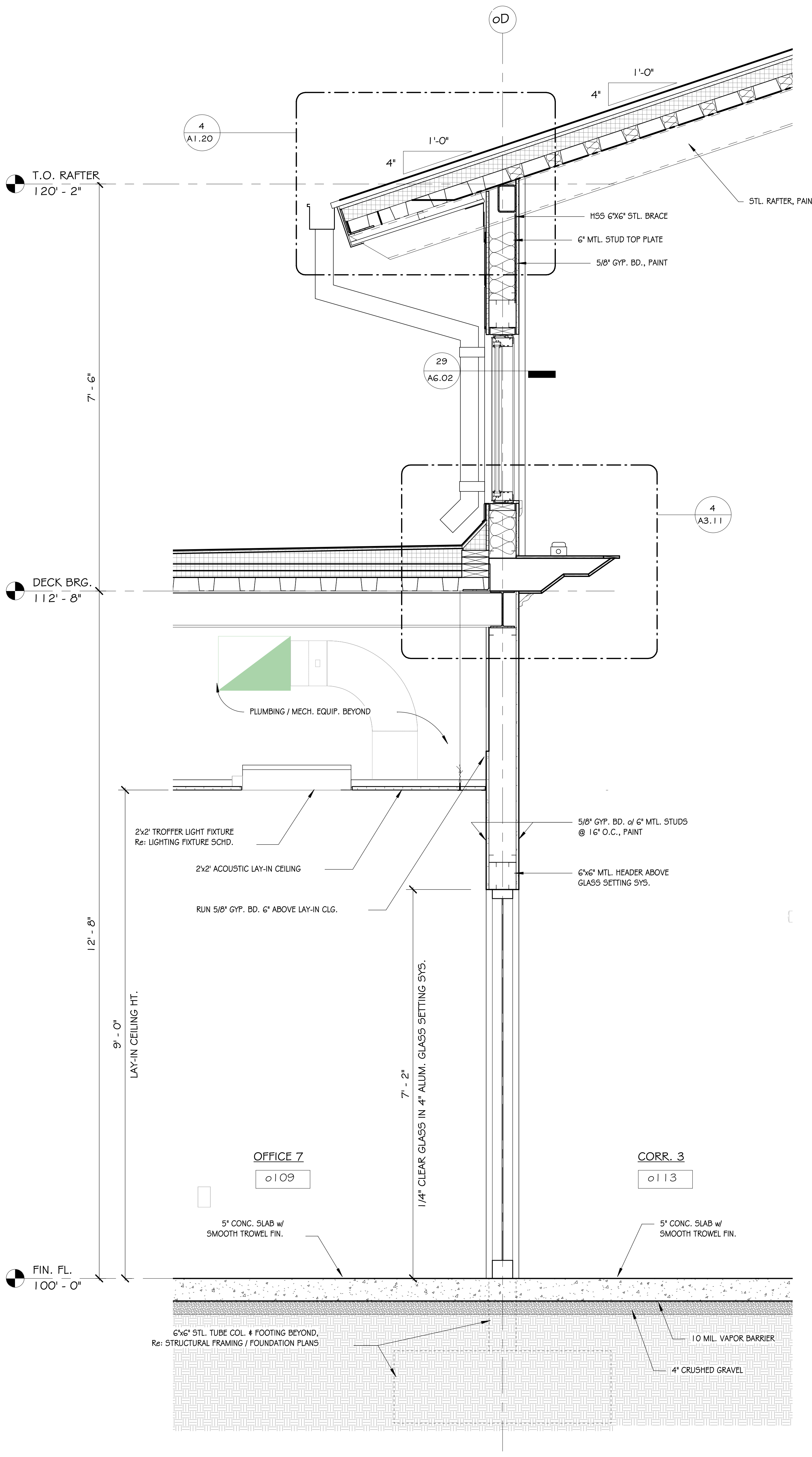
4 LIGHTING ALCOVE / CLERESTORY GLASS SETTING SILL DETAIL
1 1/2" = 1'-0"


oN
6' - 0"
4' - 0"
5
A3.11
FULLY ADHERED LOW SLOPE ROOF ASSEMBLY AS SPEC.
1/2" GYP. COVER BD. SET IN ASPHALT
TAPERED POLYISO. INSUL., ADHERED, SLOPE TO ROOF DRAIN MIN. 1/4 / FT.
POLYISOCYANURATE INSULATION, EQUAL TO R25, ADHERED.
1' - 1"
DECK BRG. 112' - 8"
TAKE GYP. BD. TO UNDERSIDE OF DECK. TAPE @ FLOAT ABOVE CEILING
4"
3' - 0"
3' - 4"
3' - 0"
FLEX-LOC PANELS
24" Ga. 12" WIDE MTL. SOFFIT PANELS w/ GALVALUME PLUS FIN.
9 1/2" FLEX-LOC MTL. PANELS RAN HORZ. w/ GALVALUME FIN.
32" MTL RIBBED WALL PANELS RAN HORZ. w/ GALVALUME FIN.
2x2 ACOUSTIC LAY-IN CLG.
WEATHER BARRIER o/ 5/8" EXTERIOR SHEATHING
6" MTL. STUDS @ 16" O.C.
6" FIBERGLASS BATT INSUL.
13' - 9"
9' - 0"
MTL."RIBBED" PANELS, RUN HORZ.
9' - 0"
LAY-IN CEILING HEIGHT
LATERAL BRACING @ 4'-0" O.C. VERT. (TYP.)
OFFICE 1
o102
5/8" GYP. BD., PAINT
4" HIGH RESILIENT BASE
CONT. 22 Ga. ALUM. BASE FLASHING w/ WATER DAM
SMOOTH CONCRETE FIN.
FIN. FL. 100' - 0"
FIN. GRADE, SEE CIVIL
10 MIL. VAPOR BARRIER
4" CRUSHED GRAVEL

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


MEMBRANE ROOFING
6" RIGID INSULATION
2" METAL DECK
DECK BRG. 112' - 8"
9½" FLEXLOCK METAL PANELS RUN (HORIZONTALLY) OVER ¾" PLYWOOD SHEATHING
STEEL BEAM, SEE STRUCTURAL
BUILDING WRAP OVER PLYWOOD
¾" PLYWOOD SHEATHING
6" THERMAL BATT INSULATION
17
A6.02
Sim
2 x 2 LAY-IN ACOUST. CEILING
15
A6.02
Sim
18
A6.02
Sim
19
A6.02
Sim
FIN. FL. 100' - 0"

2 EXTERIOR WALL SECTION I
3/4" = 1'-0"


oD
1'-0"
4"
4
A1.20
1'-0"
4"
T.O. RAFTER 120' - 2"
STL. RAFTER, PAINT
HSS 6"X6" STL. BRACE
6" MTL. STUD TOP PLATE
5/8" GYP. BD., PAINT
29
A6.02
7' - 6"
4
A3.11
DECK BRG. 112' - 8"
PLUMBING / MECH. EQUIP. BEYOND
2'x2' TROFFER LIGHT FIXTURE Re: LIGHTING FIXTURE SCHD.
2'x2' ACOUSTIC LAY-IN CEILING
RUN 5/8" GYP. BD. 6" ABOVE LAY-IN CLG.
5/8" GYP. BD. o/ 6" MTL. STUDS @ 16" O.C., PAINT
6"x6" MTL. HEADER ABOVE GLASS SETTING SYS.
12' - 8"
9' - 0"
LAY-IN CEILING HT.
7' - 2"
1/4" CLEAR GLASS IN 4" ALUM. GLASS SETTING SYS.
OFFICE 7
o109
CORR. 3
o113
5" CONC. SLAB w/ SMOOTH TROWEL FIN.
5" CONC. SLAB w/ SMOOTH TROWEL FIN.
FIN. FL. 100' - 0"
6"x6" STL. TUBE COL. & FOOTING BEYOND, Re: STRUCTURAL FRAMING / FOUNDATION PLANS
10 MIL. VAPOR BARRIER
4" CRUSHED GRAVEL

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

STAMPS

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ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
WALL SECTIONS - OFFICE BLDG.

Revision

Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: Author
Checked By: Checker
DATE: JULY 29, 2022

A3.11

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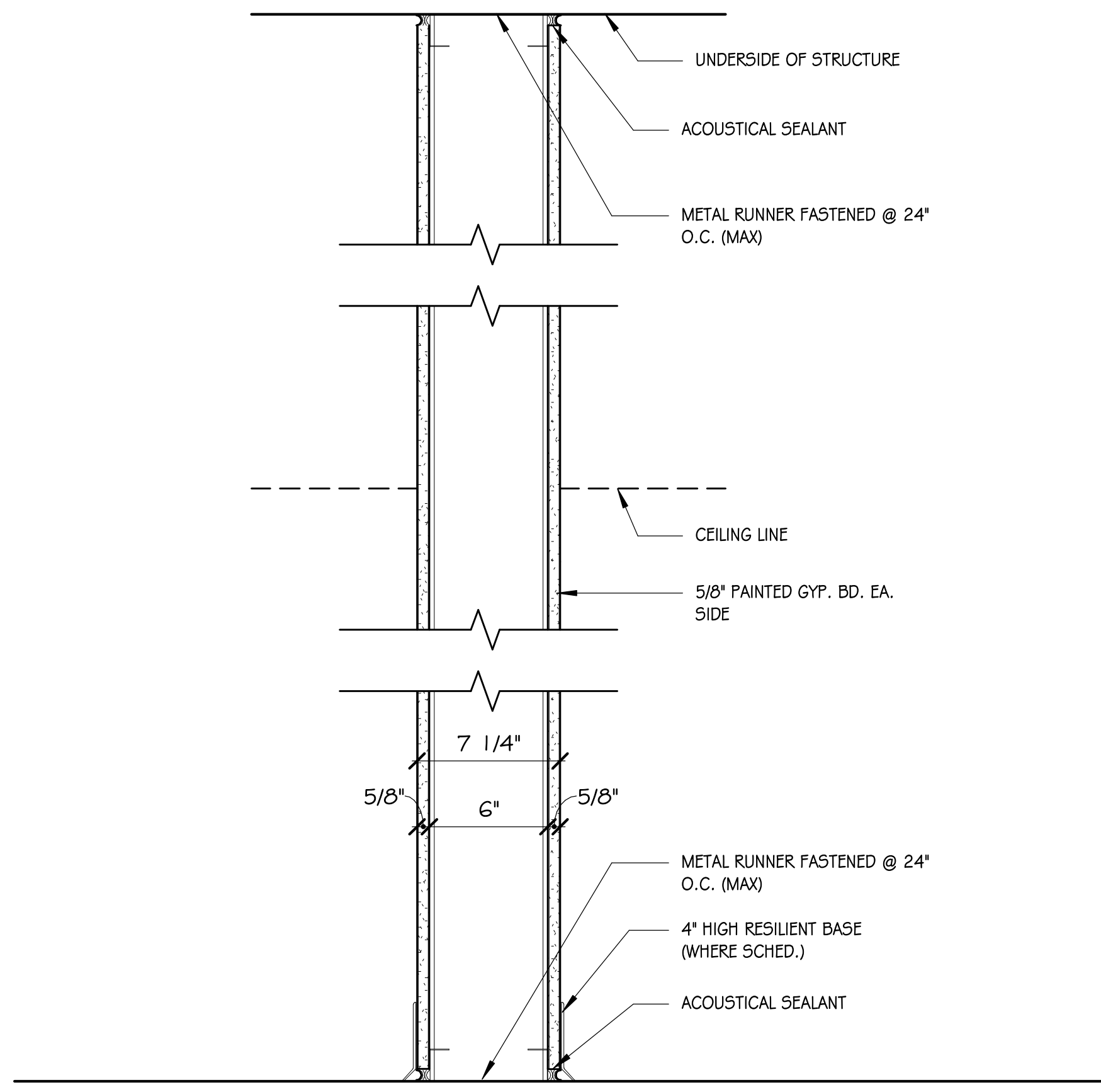
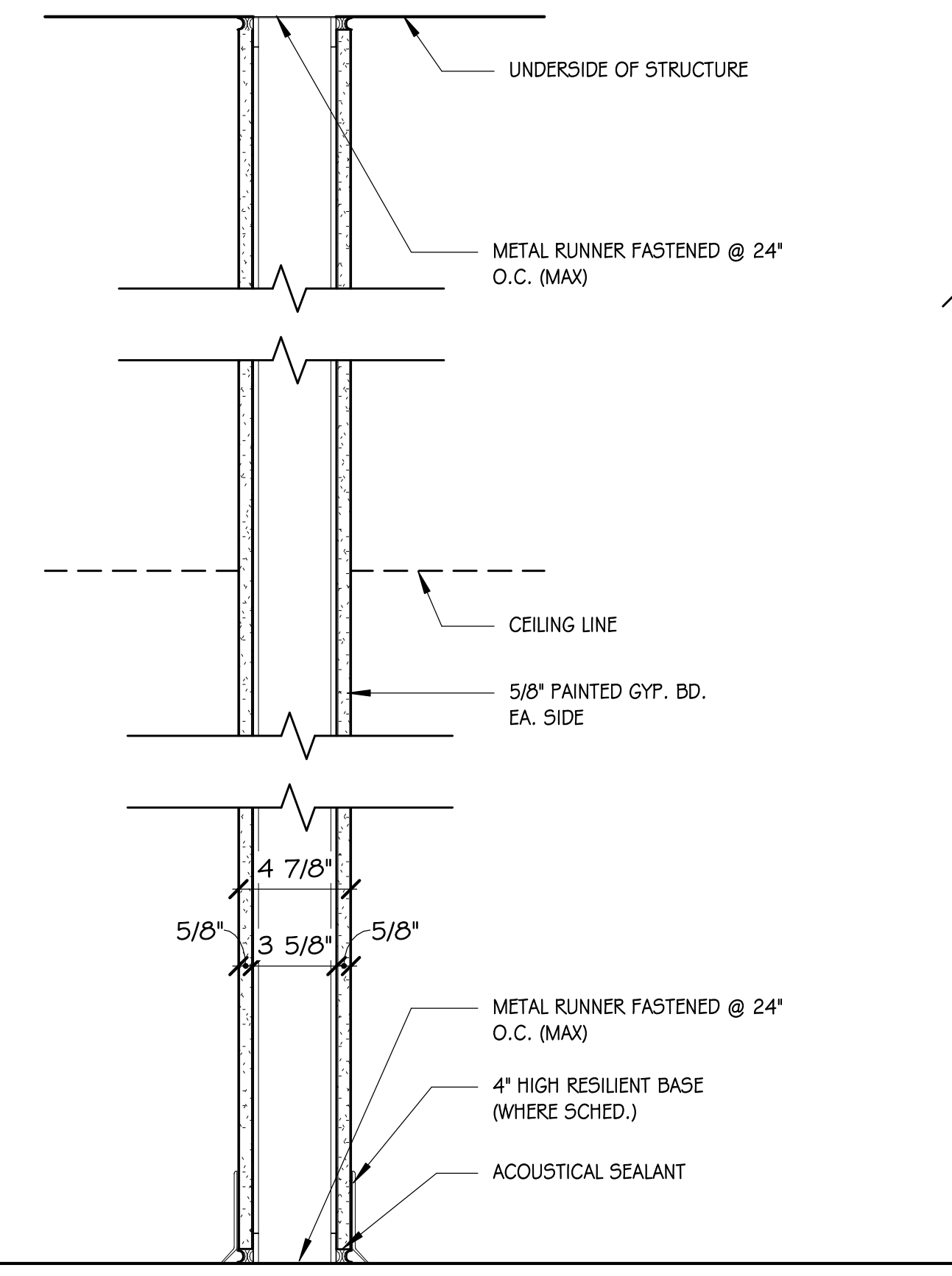
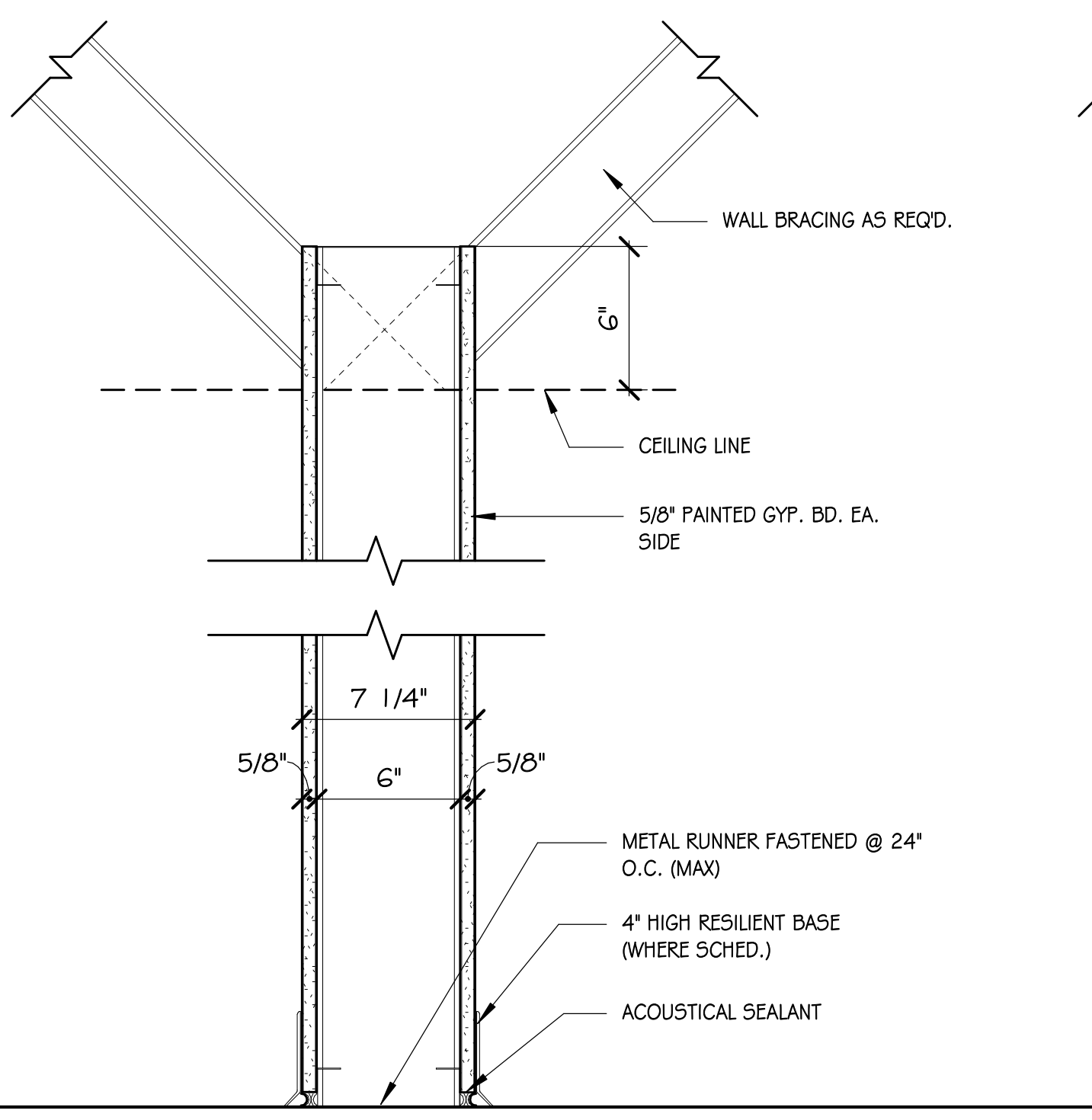

UNDERSIDE OF STRUCTURE
ACOUSTICAL SEALANT
METAL RUNNER FASTENED @ 24" O.C. (MAX)
CEILING LINE
5/8" PAINTED GYP. BD. EA. SIDE
7 1/4"
5/8"
6"
5/8"
METAL RUNNER FASTENED @ 24" O.C. (MAX)
4" HIGH RESILIENT BASE (WHERE SCHED.)
ACOUSTICAL SEALANT

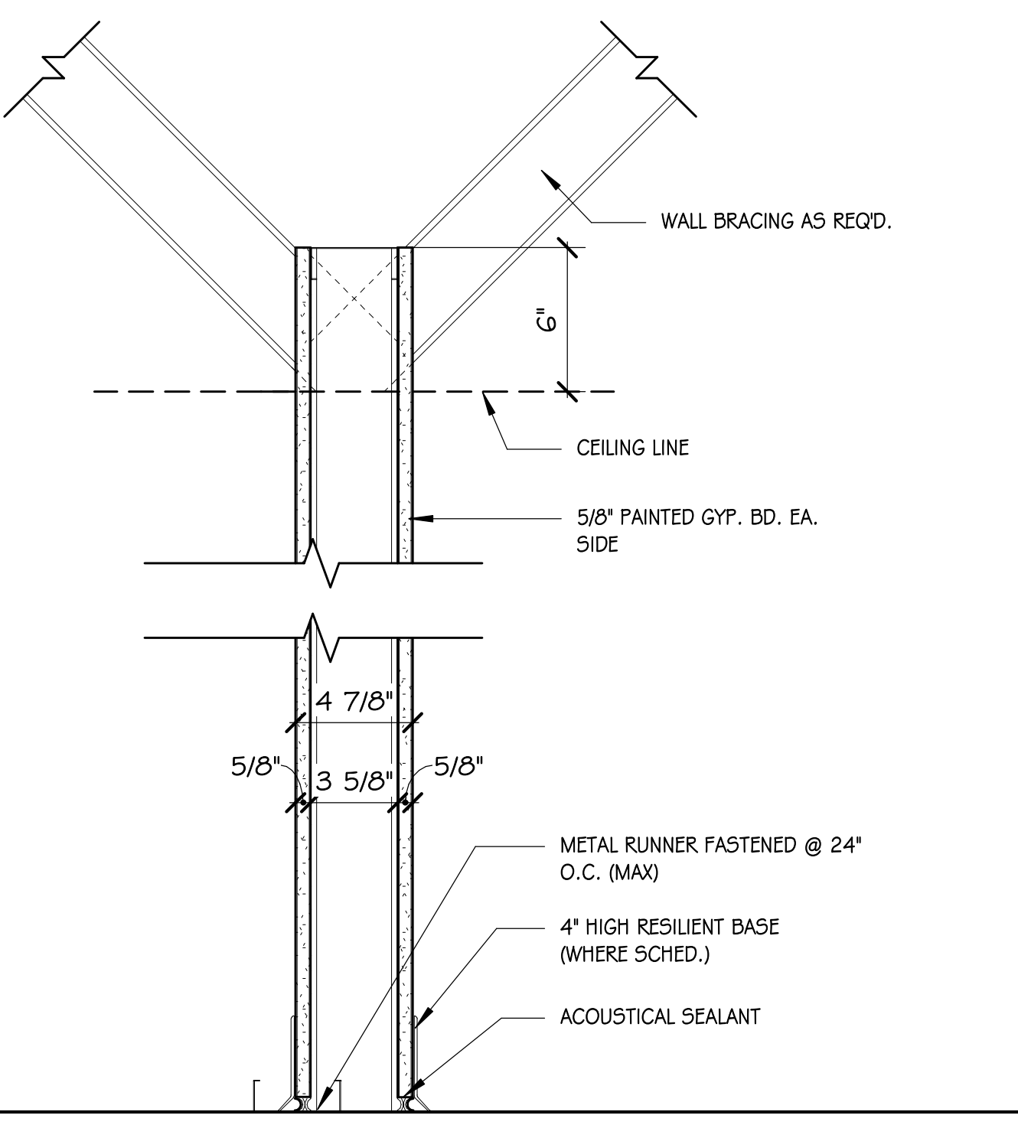
WALL TYPE A -
7 1/4" NON-RATED PARTITION


UNDERSIDE OF STRUCTURE
METAL RUNNER FASTENED @ 24" O.C. (MAX)
CEILING LINE
5/8" PAINTED GYP. BD. EA. SIDE
4 7/8"
5/8"
3 5/8"
5/8"
METAL RUNNER FASTENED @ 24" O.C. (MAX)
4" HIGH RESILIENT BASE (WHERE SCHED.)
ACOUSTICAL SEALANT

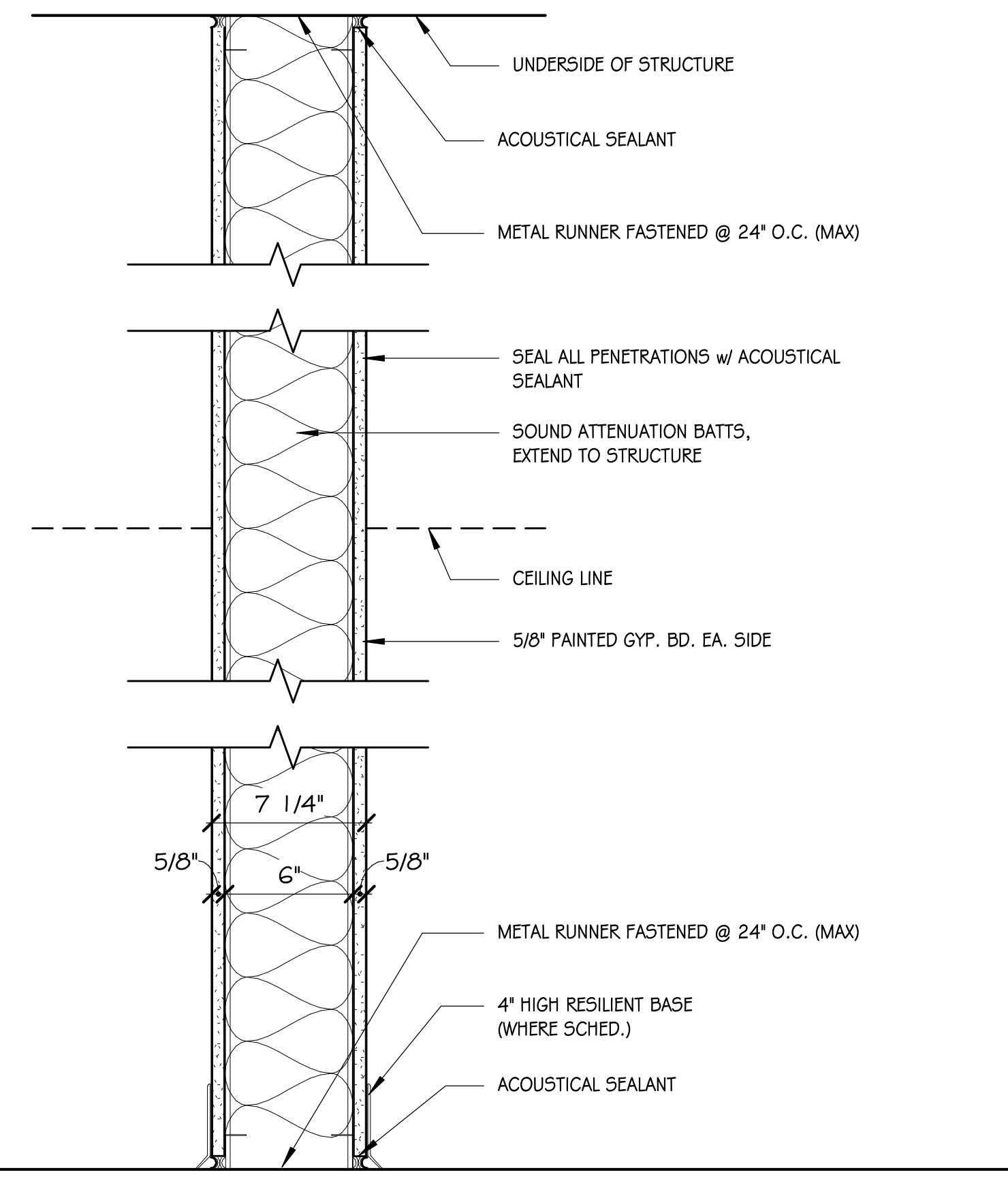
WALL TYPE B -
4 7/8" NON-RATED PARTITION


WALL BRACING AS REQ'D.
6"
CEILING LINE
5/8" PAINTED GYP. BD. EA. SIDE
7 1/4"
5/8"
6"
5/8"
METAL RUNNER FASTENED @ 24" O.C. (MAX)
4" HIGH RESILIENT BASE (WHERE SCHED.)
ACOUSTICAL SEALANT

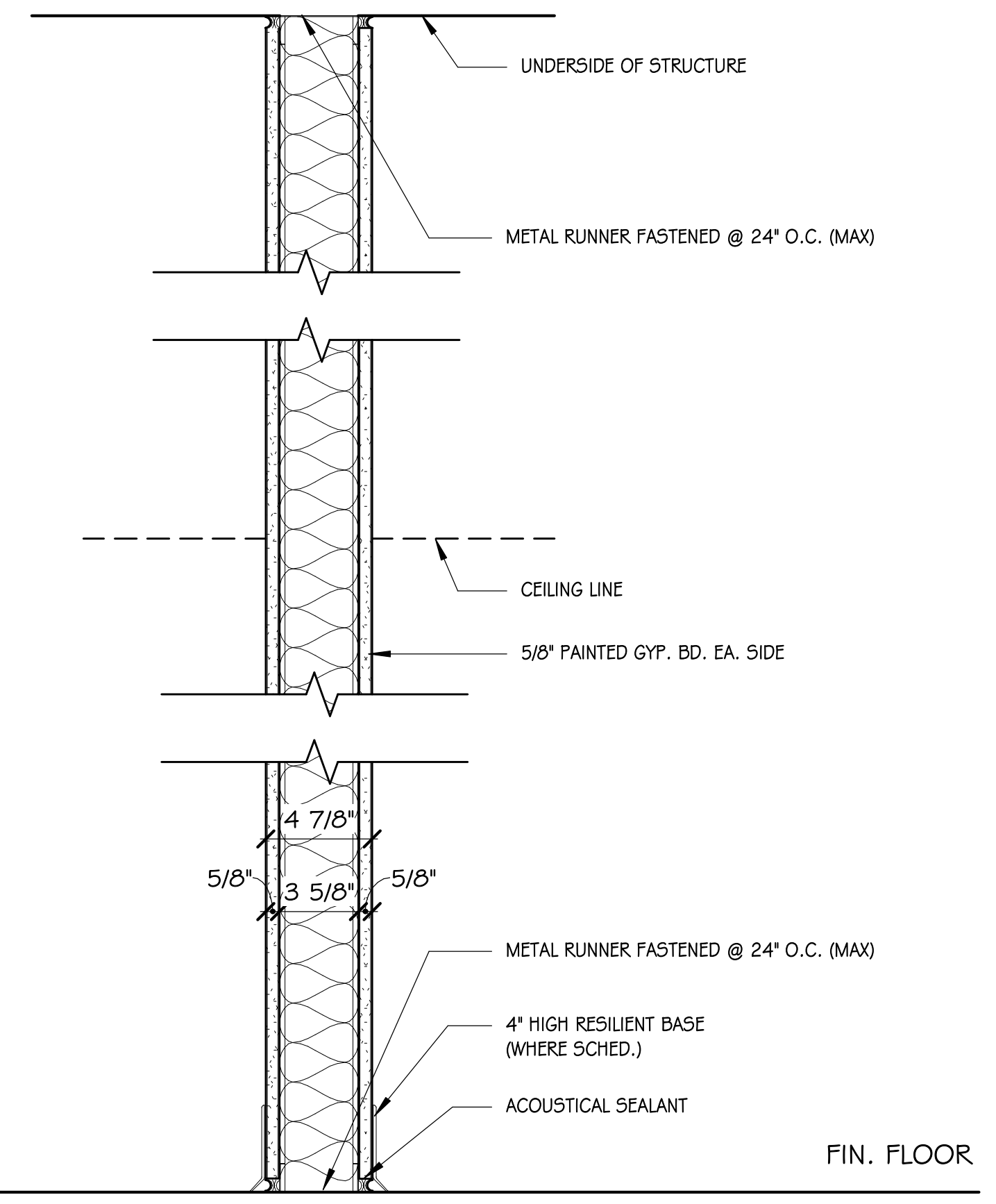
WALL TYPE C -
7 1/4" NON-RATED PARTITION


WALL BRACING AS REQ'D.
6"
CEILING LINE
5/8" PAINTED GYP. BD. EA. SIDE
4 7/8"
5/8"
3 5/8"
5/8"
METAL RUNNER FASTENED @ 24" O.C. (MAX)
4" HIGH RESILIENT BASE (WHERE SCHED.)
ACOUSTICAL SEALANT

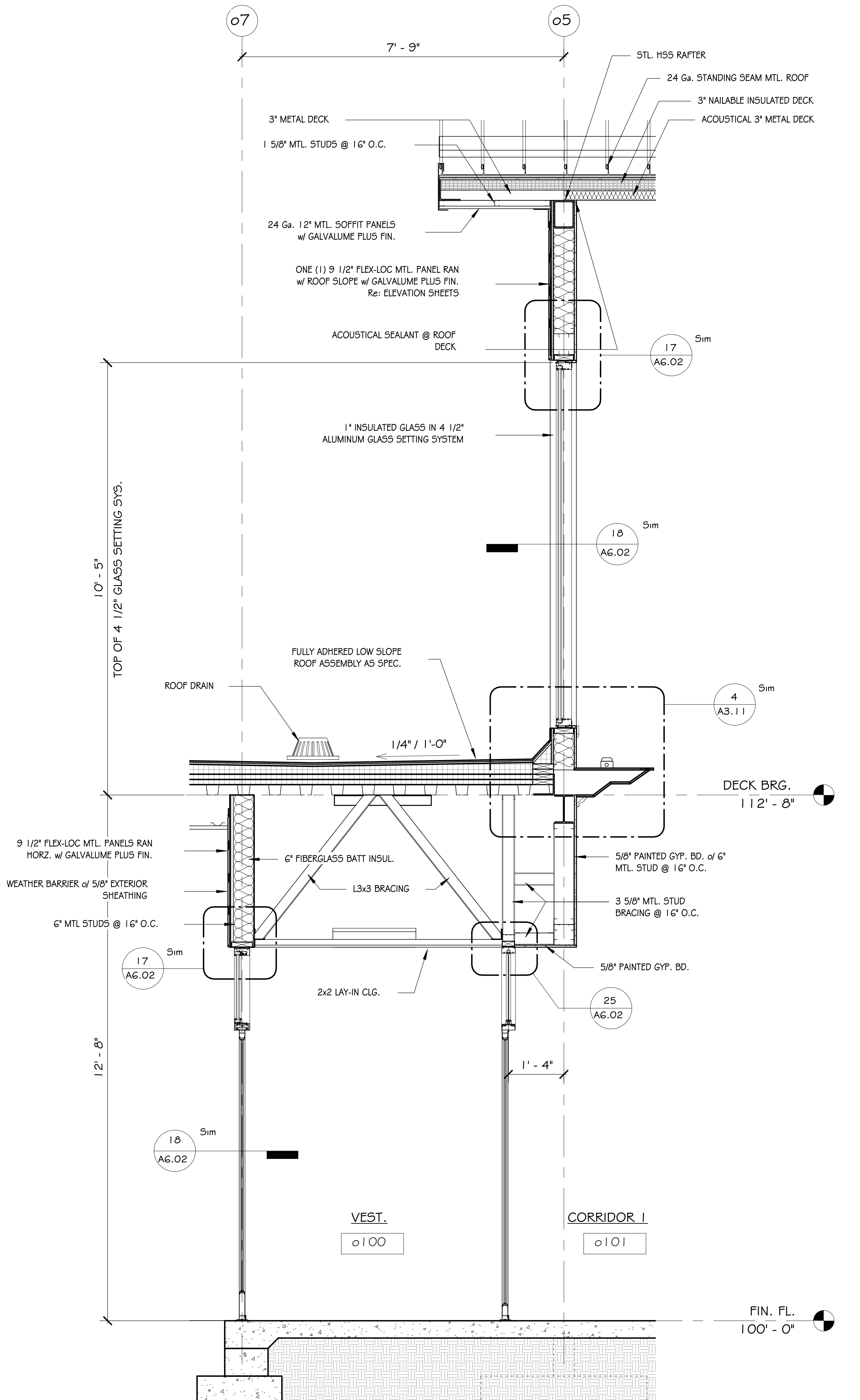
WALL TYPE D -
4 7/8" NON-RATED PARTITION


UNDERSIDE OF STRUCTURE
ACOUSTICAL SEALANT
METAL RUNNER FASTENED @ 24" O.C. (MAX)
SEAL ALL PENETRATIONS w/ ACOUSTICAL SEALANT
SOUND ATTENUATION BATTS, EXTEND TO STRUCTURE
CEILING LINE
5/8" PAINTED GYP. BD. EA. SIDE
7 1/4"
5/8"
6"
5/8"
METAL RUNNER FASTENED @ 24" O.C. (MAX)
4" HIGH RESILIENT BASE (WHERE SCHED.)
ACOUSTICAL SEALANT

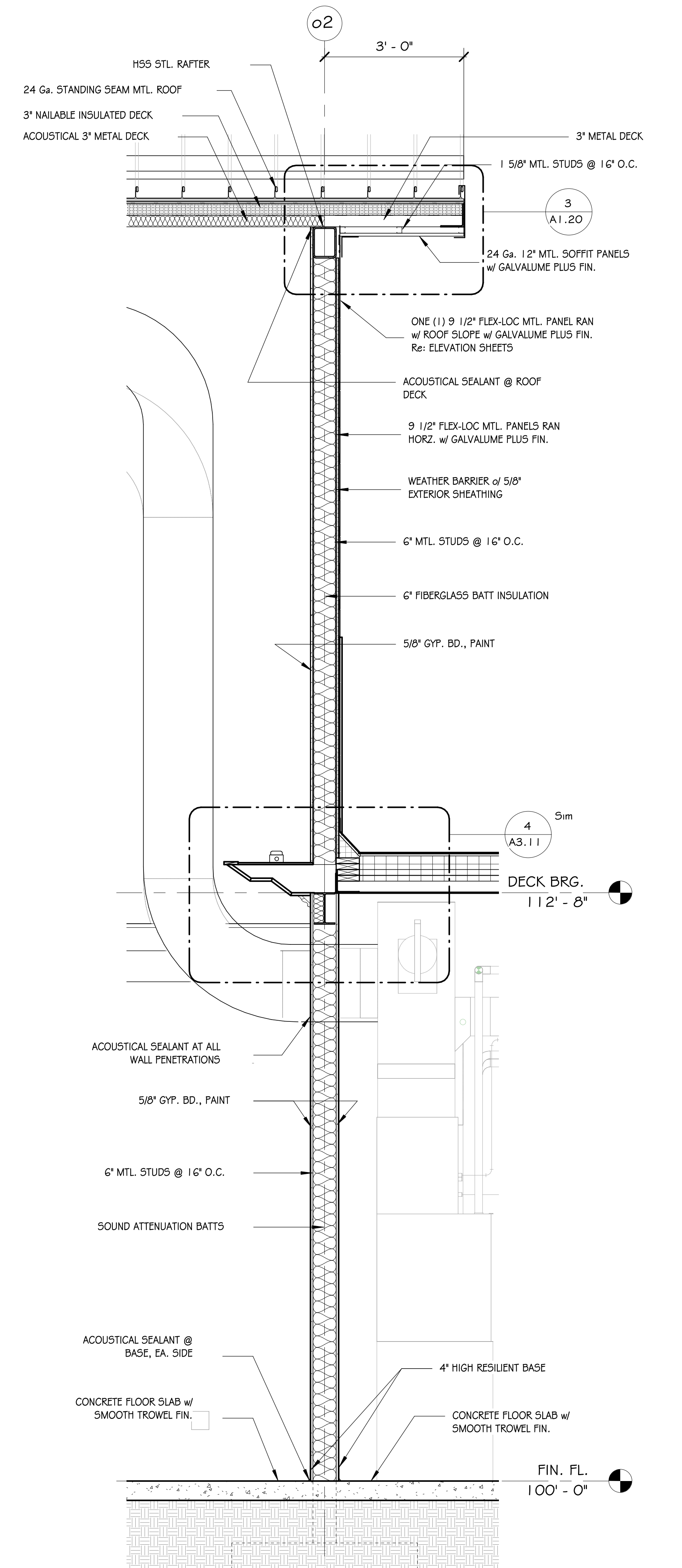
WALL TYPE E -
7 1/4" NON-RATED SOUND PARTITION


UNDERSIDE OF STRUCTURE
METAL RUNNER FASTENED @ 24" O.C. (MAX)
CEILING LINE
5/8" PAINTED GYP. BD. EA. SIDE
4 7/8"
5/8"
3 5/8"
5/8"
METAL RUNNER FASTENED @ 24" O.C. (MAX)
4" HIGH RESILIENT BASE (WHERE SCHED.)
ACOUSTICAL SEALANT
FIN. FLOOR

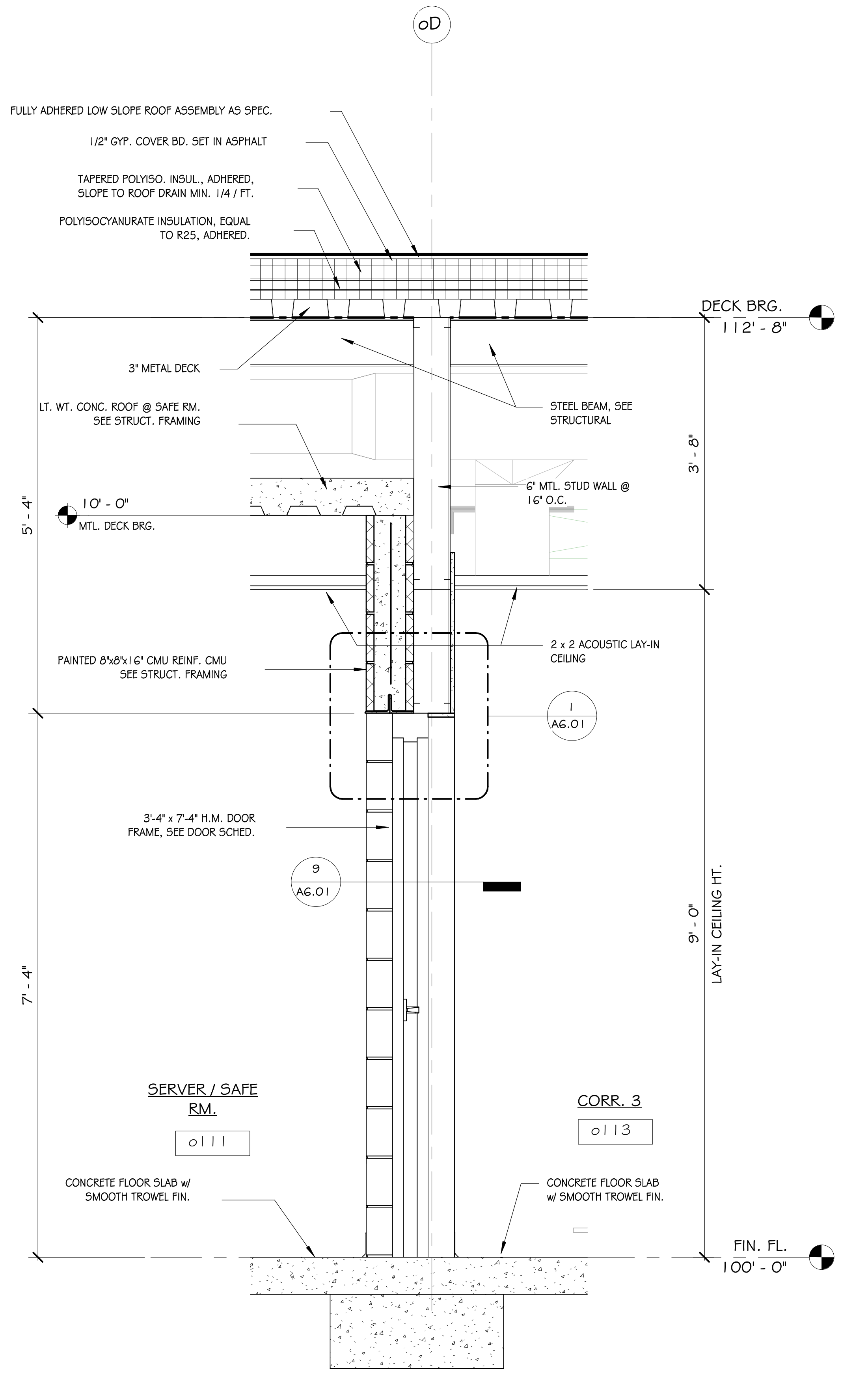
WALL TYPE F -
4 7/8" NON-RATED SOUND PARTITION


o7
o5
7' - 9"
STL. HSS RAFTER
24 Ga. STANDING SEAM MTL. ROOF
3" NAILABLE INSULATED DECK
ACOUSTICAL 3" METAL DECK
3" METAL DECK
1 5/8" MTL. STUDS @ 16" O.C.
24 Ga. 12" MTL. SOFFIT PANELS w/ GALVALUME PLUS FIN.
ONE (1) 9 1/2" FLEX-LOC MTL. PANEL RAN w/ ROOF SLOPE w/ GALVALUME PLUS FIN. Re: ELEVATION SHEETS
ACOUSTICAL SEALANT @ ROOF DECK
17 A6.02 Sim
1" INSULATED GLASS IN 4 1/2" ALUMINUM GLASS SETTING SYSTEM
18 A6.02 Sim
10' - 5"
TOP OF 4 1/2" GLASS SETTING SYS.
FULLY ADHERED LOW SLOPE ROOF ASSEMBLY AS SPEC.
ROOF DRAIN
1/4" / 1'-0"
4 A3.11 Sim
DECK BRG.
112' - 8"
9 1/2" FLEX-LOC MTL. PANELS RAN HORZ. w/ GALVALUME PLUS FIN.
6" FIBERGLASS BATT INSUL.
WEATHER BARRIER o/ 5/8" EXTERIOR SHEATHING
L3x3 BRACING
6" MTL STUDS @ 16" O.C.
5/8" PAINTED GYP. BD. o/ 6" MTL. STUD @ 16" O.C.
3 5/8" MTL. STUD BRACING @ 16" O.C.
17 A6.02 Sim
5/8" PAINTED GYP. BD.
2x2 LAY-IN CLG.
25 A6.02
12' - 8"
1' - 4"
18 A6.02 Sim
VEST.
o100
CORRIDOR 1
o101
FIN. FL.
100' - 0"

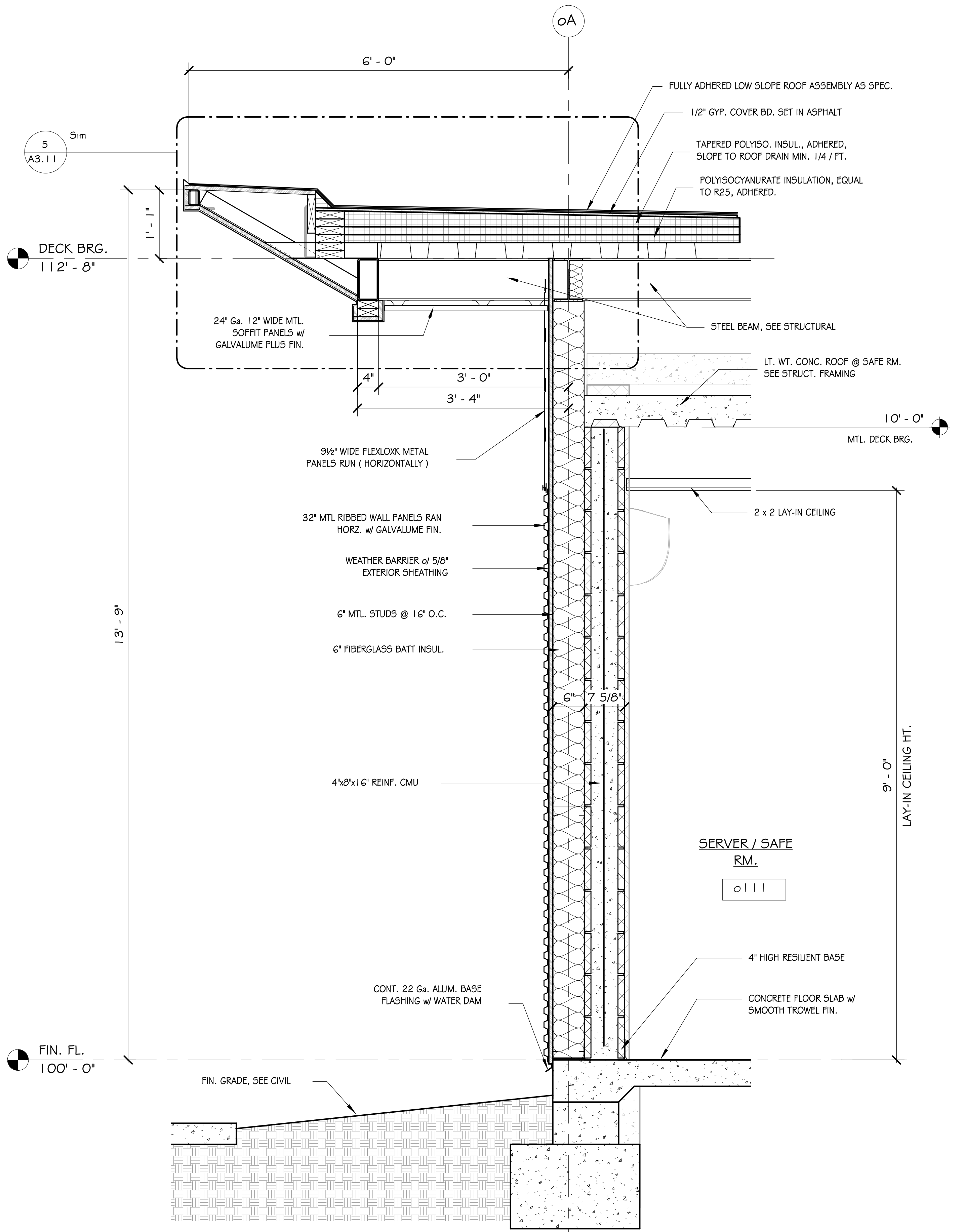
4 NORTH WALL @ CORRIDOR 1
1/2" = 1'-0"


o2
3' - 0"
HSS STL. RAFTER
24 Ga. STANDING SEAM MTL. ROOF
3" NAILABLE INSULATED DECK
ACOUSTICAL 3" METAL DECK
3" METAL DECK
1 5/8" MTL. STUDS @ 16" O.C.
3 A1.20
24 Ga. 12" MTL. SOFFIT PANELS w/ GALVALUME PLUS FIN.
ONE (1) 9 1/2" FLEX-LOC MTL. PANEL RAN w/ ROOF SLOPE w/ GALVALUME PLUS FIN. Re: ELEVATION SHEETS
ACOUSTICAL SEALANT @ ROOF DECK
9 1/2" FLEX-LOC MTL. PANELS RAN HORZ. w/ GALVALUME PLUS FIN.
WEATHER BARRIER o/ 5/8" EXTERIOR SHEATHING
6" MTL. STUDS @ 16" O.C.
6" FIBERGLASS BATT INSULATION
5/8" GYP. BD., PAINT
4 A3.11 Sim
DECK BRG.
112' - 8"
ACOUSTICAL SEALANT AT ALL WALL PENETRATIONS
5/8" GYP. BD., PAINT
6" MTL. STUDS @ 16" O.C.
SOUND ATTENUATION BATTS
ACOUSTICAL SEALANT @ BASE, EA. SIDE
4" HIGH RESILIENT BASE
CONCRETE FLOOR SLAB w/ SMOOTH TROWEL FIN.
CONCRETE FLOOR SLAB w/ SMOOTH TROWEL FIN.
FIN. FL.
100' - 0"

3 SOUTH WALL @ PLAN RM. / CONFERENCE RM.
1/2" = 1'-0"


oD
FULLY ADHERED LOW SLOPE ROOF ASSEMBLY AS SPEC.
1/2" GYP. COVER BD. SET IN ASPHALT
TAPERED POLYISO. INSUL., ADHERED, SLOPE TO ROOF DRAIN MIN. 1/4 / FT.
POLYISOCYANURATE INSULATION, EQUAL TO R25, ADHERED.
DECK BRG.
112' - 8"
3" METAL DECK
LT. WT. CONC. ROOF @ SAFE RM. SEE STRUCT. FRAMING
STEEL BEAM, SEE STRUCTURAL
3' - 8"
6" MTL. STUD WALL @ 16" O.C.
10' - 0"
MTL. DECK BRG.
5' - 4"
2 x 2 ACOUSTIC LAY-IN CEILING
PAINTED 8"x8"x16" CMU REINF. CMU SEE STRUCT. FRAMING
1 A6.01
3'-4" x 7'-4" H.M. DOOR FRAME, SEE DOOR SCHED.
9 A6.01
7' - 4"
9' - 0"
LAY-IN CEILING HT.
SERVER / SAFE RM.
o111
CORR. 3
o113
CONCRETE FLOOR SLAB w/ SMOOTH TROWEL FIN.
CONCRETE FLOOR SLAB w/ SMOOTH TROWEL FIN.
FIN. FL.
100' - 0"

2 SERVER / SAFE ROOM INTERIOR WALL SECTION
3/4" = 1'-0"


oA
6' - 0"
FULLY ADHERED LOW SLOPE ROOF ASSEMBLY AS SPEC.
1/2" GYP. COVER BD. SET IN ASPHALT
TAPERED POLYISO. INSUL., ADHERED, SLOPE TO ROOF DRAIN MIN. 1/4 / FT.
POLYISOCYANURATE INSULATION, EQUAL TO R25, ADHERED.
5 A3.11 Sim
1' - 1"
DECK BRG.
112' - 8"
24" Ga. 12" WIDE MTL. SOFFIT PANELS w/ GALVALUME PLUS FIN.
STEEL BEAM, SEE STRUCTURAL
4"
3' - 0"
3' - 4"
LT. WT. CONC. ROOF @ SAFE RM. SEE STRUCT. FRAMING
10' - 0"
MTL. DECK BRG.
9½" WIDE FLEXLOXK METAL PANELS RUN (HORIZONTALLY)
2 x 2 LAY-IN CEILING
32" MTL RIBBED WALL PANELS RAN HORZ. w/ GALVALUME FIN.
WEATHER BARRIER o/ 5/8" EXTERIOR SHEATHING
6" MTL. STUDS @ 16" O.C.
6" FIBERGLASS BATT INSUL.
6"
7 5/8"
13' - 9"
4"x8"x16" REINF. CMU
9' - 0"
LAY-IN CEILING HT.
SERVER / SAFE RM.
o111
4" HIGH RESILIENT BASE
CONT. 22 Ga. ALUM. BASE FLASHING w/ WATER DAM
CONCRETE FLOOR SLAB w/ SMOOTH TROWEL FIN.
FIN. FL.
100' - 0"
FIN. GRADE, SEE CIVIL

1 SERVER / SAFE ROOM EXTERIOR WALL SECTION
3/4" = 1'-0"

STAMPS

ETC Engineers & Architects, Inc.
No. C-462

STAMPS

CARL F. MENYHART, JR.
No. 1007
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

WALL SECTIONS - OFFICE BLDG.

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: Author **Checked By:** Checker

DATE: JULY 29, 2022

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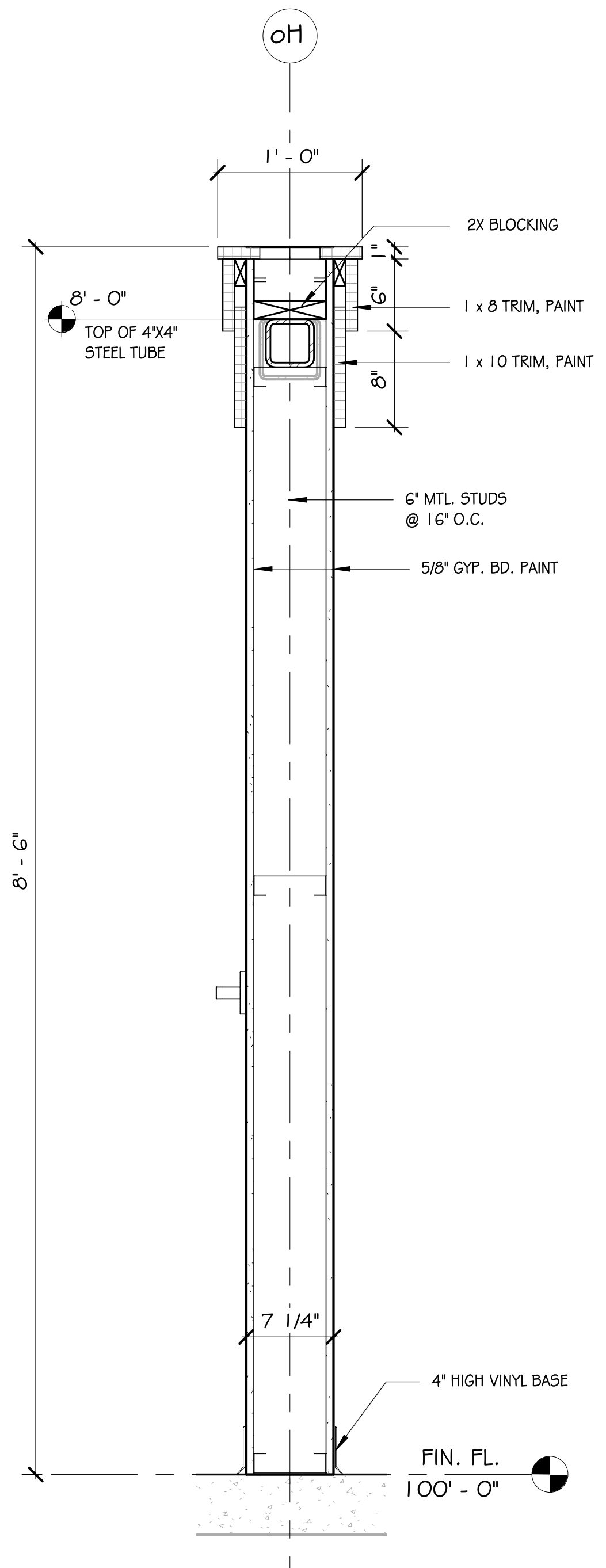
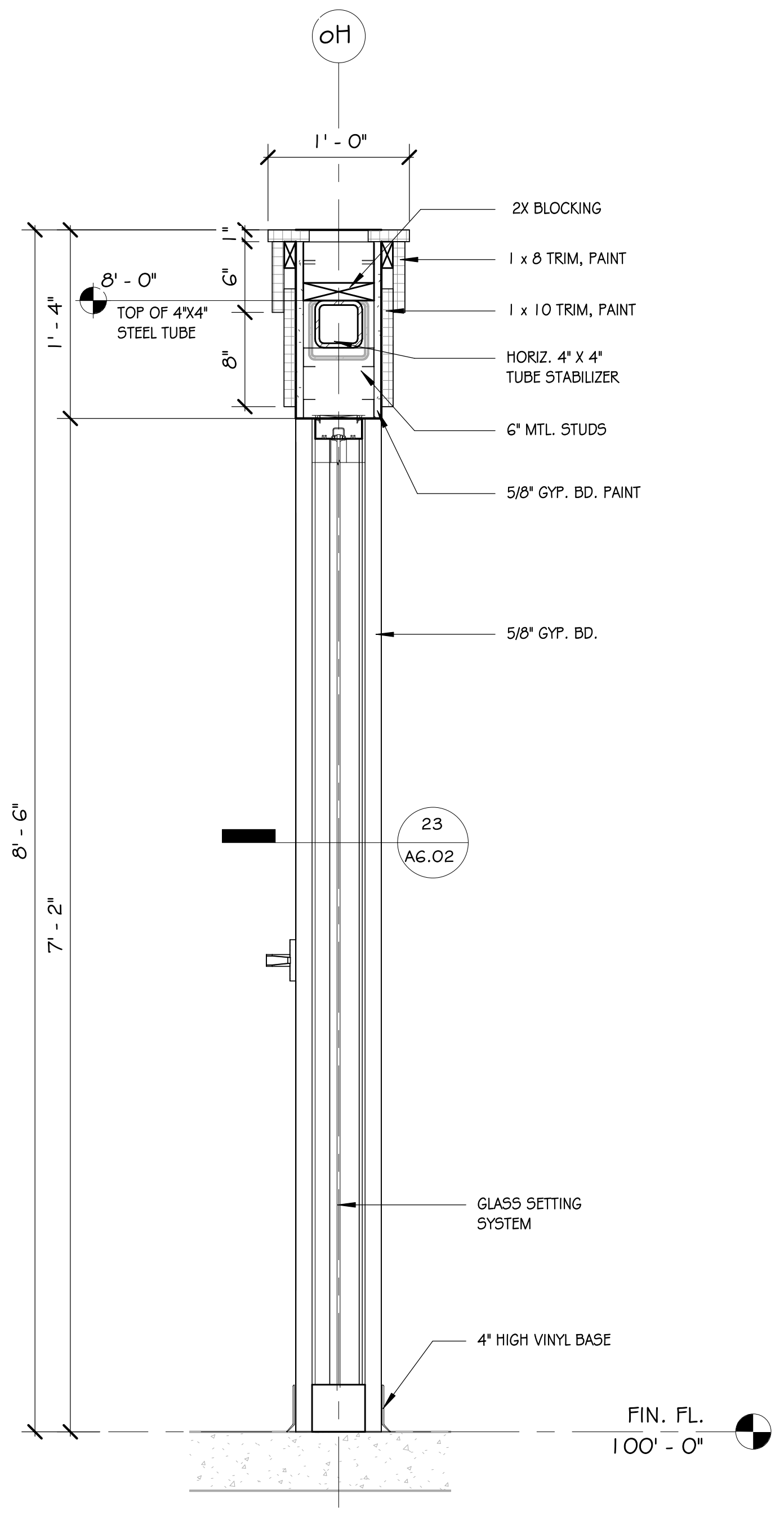
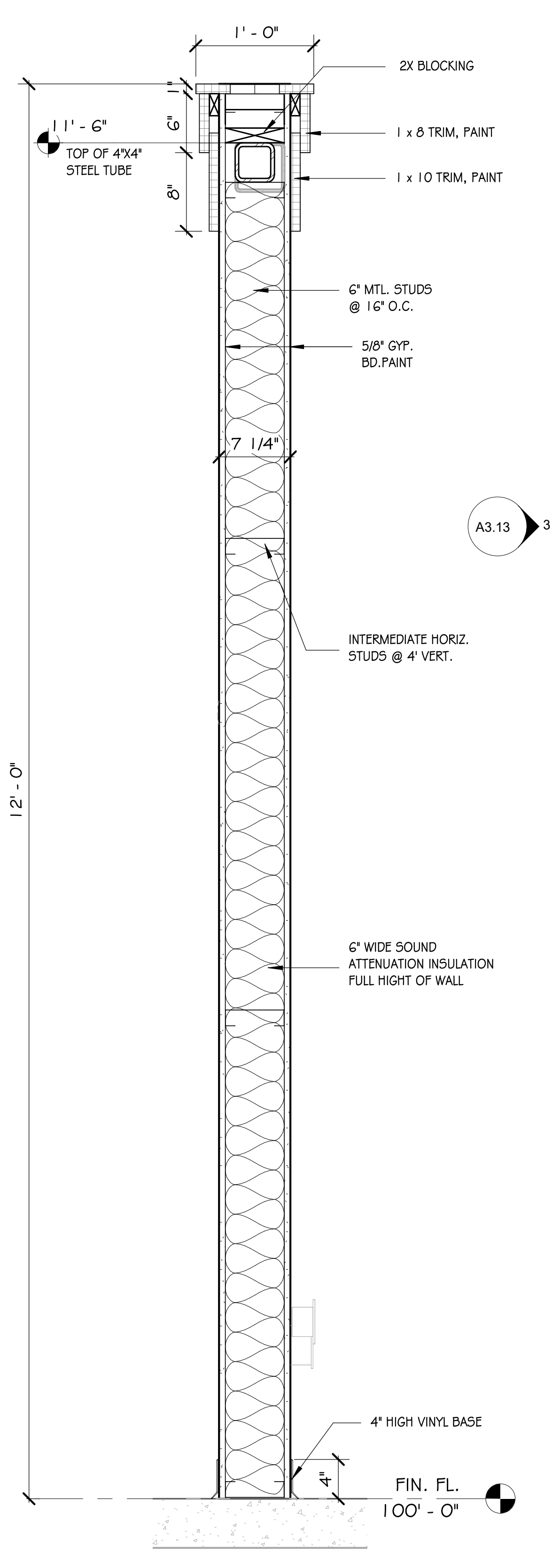


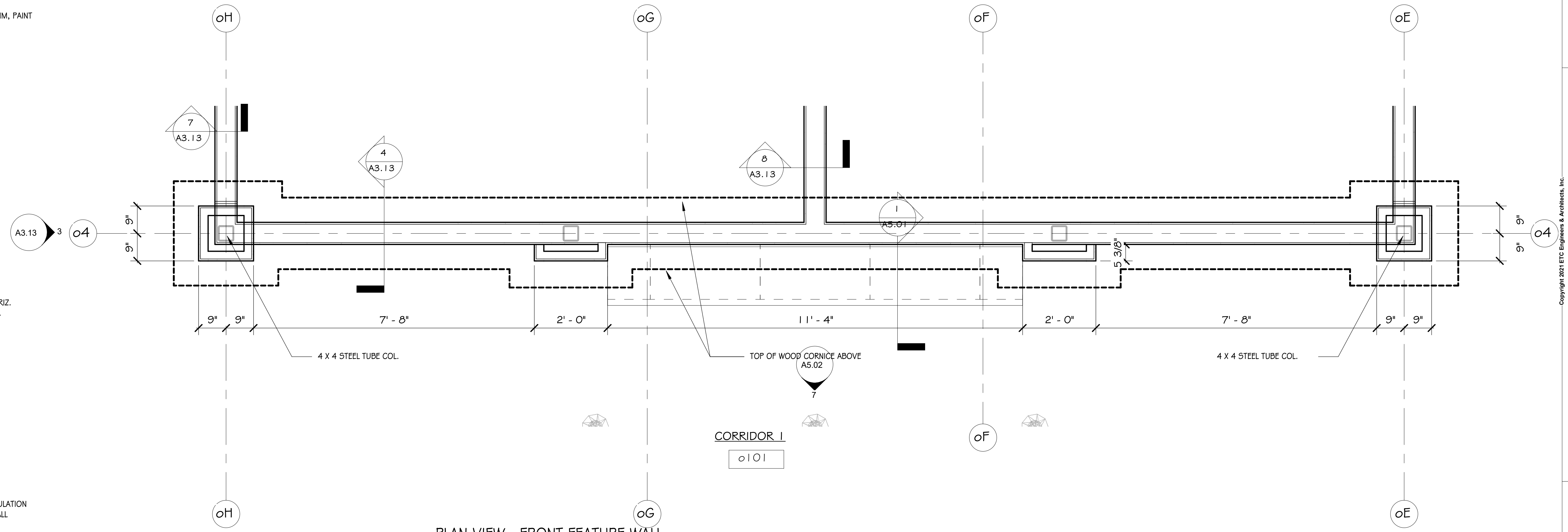
7 SOLID WALL @ CONF. RM. & PLAN RM.
1" = 1'-0"



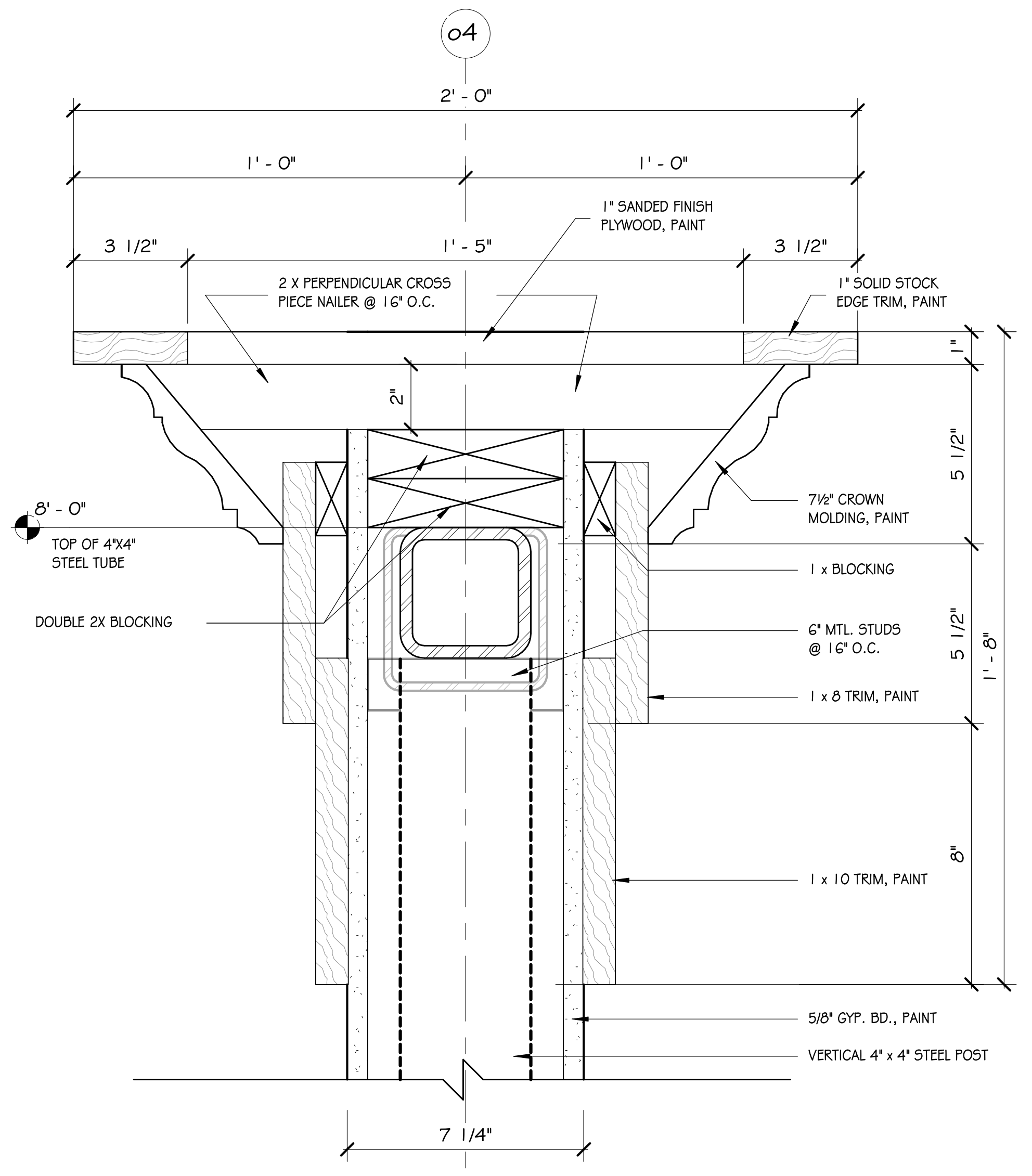
6 SECTION @ GLASS WALL @ CONF. RM. & PLAN RM.
1" = 1'-0"



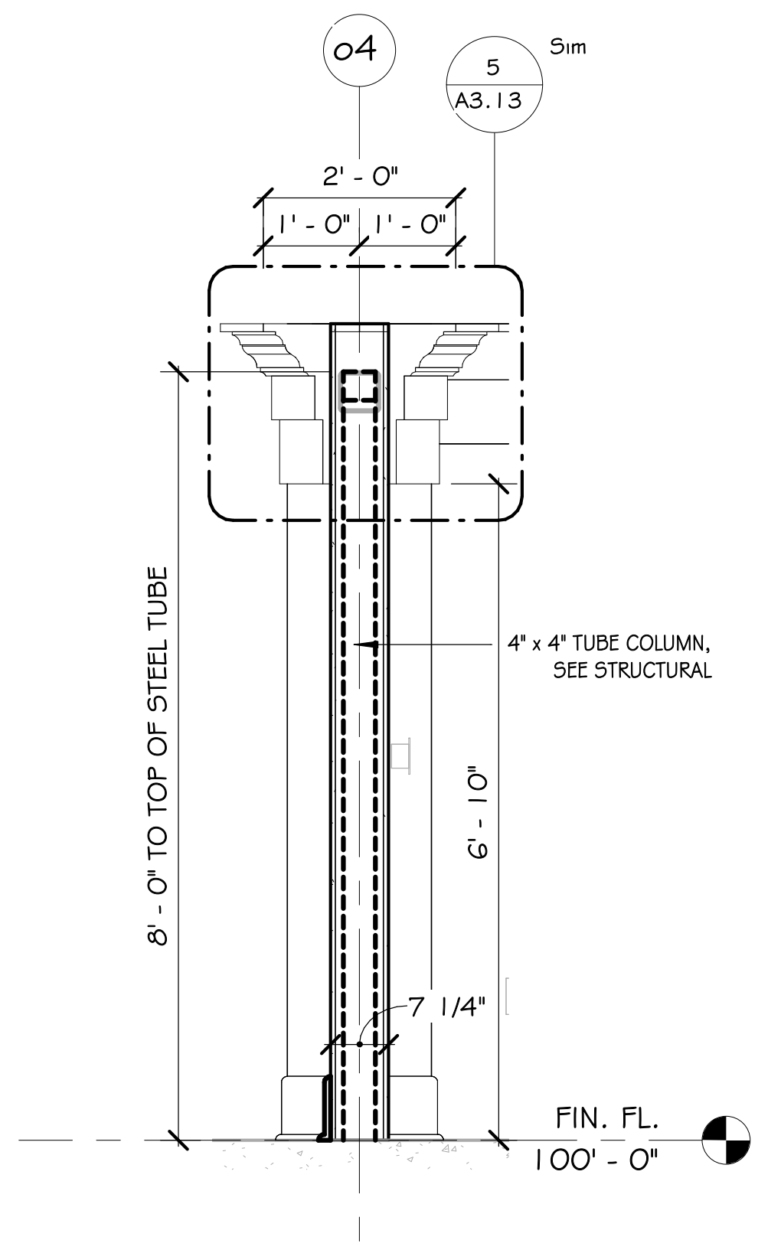
8 CENTER WALL BETWEEN CONF. RM. & PLAN RM.
1" = 1'-0"



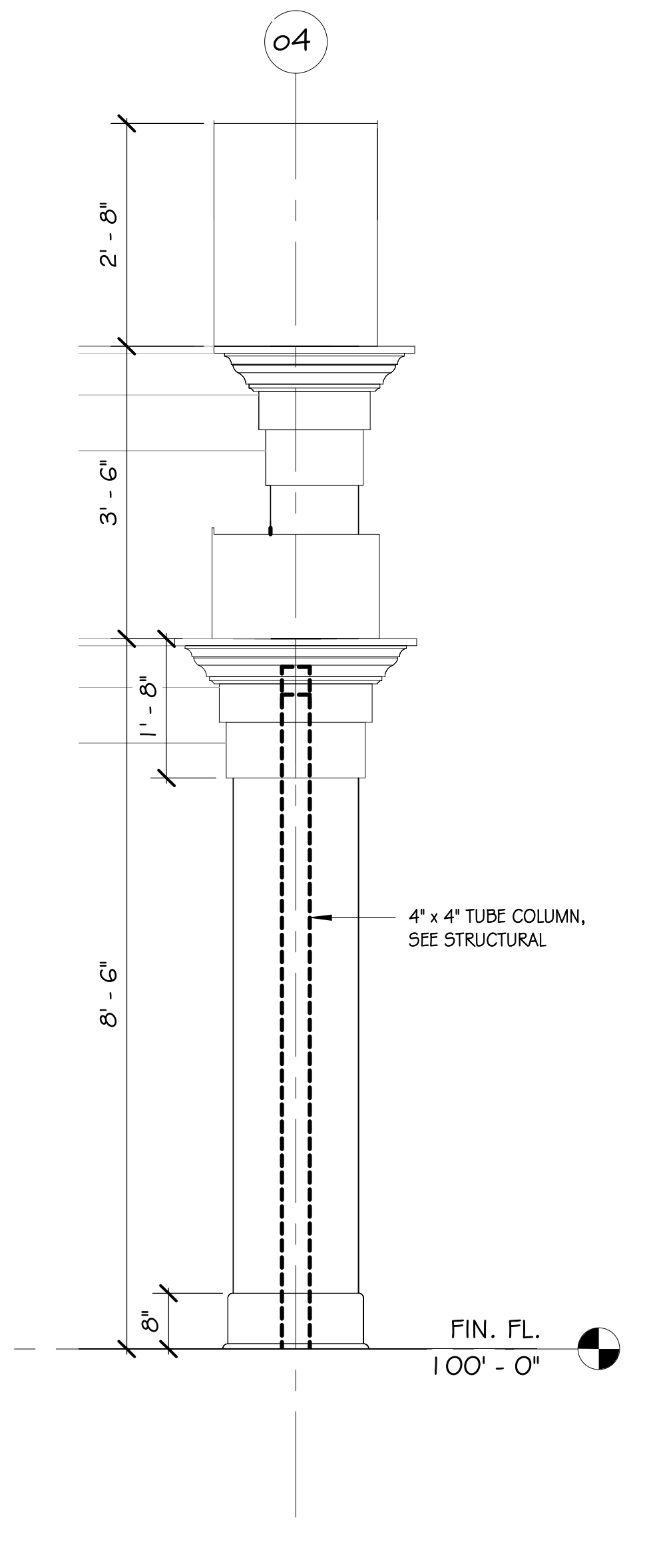
2 PLAN VIEW - FRONT FEATURE WALL
1/2" = 1'-0"



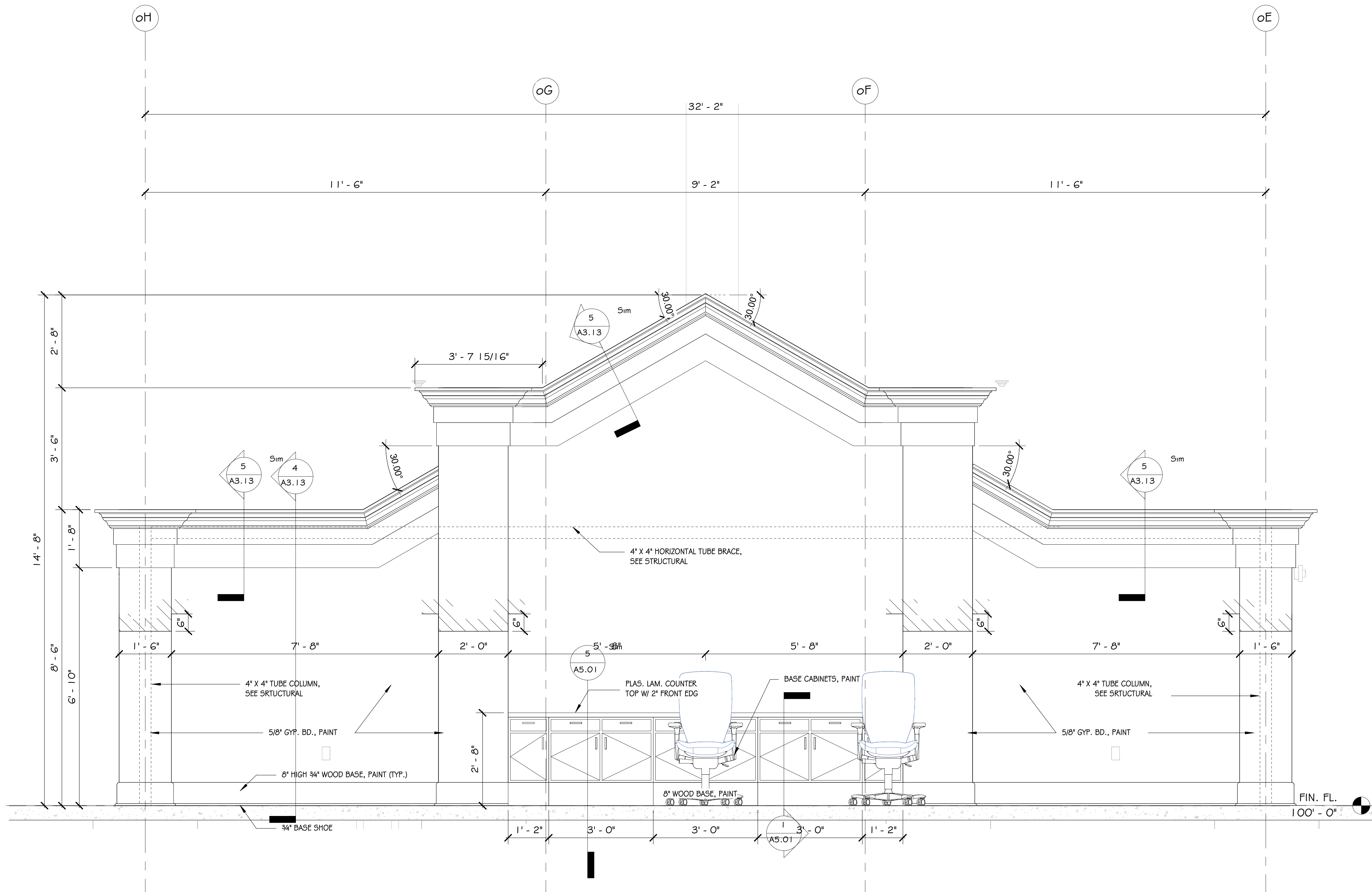
5 DETAIL @ TOP OF WALL
3" = 1'-0"


o4
5
A3.13
Sim
2' - 0"
1' - 0"
1' - 0"
4" x 4" TUBE COLUMN, SEE STRUCTURAL
8' - 0" TO TOP OF STEEL TUBE
6' - 10"
7 1/4"
FIN. FL.
100' - 0"

4 SECTION @ MIDDLE WALL
1/2" = 1'-0"



3 END ELEVATION
1/2" = 1'-0"



1 FRONT ELEVATION - LOBBY FEATURE WALL
1/2" = 1'-0"

STAMPS

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CARL F. MENYHART, JR.
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7/29/22

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
WALL SECTIONS - OFFICE BLDG.

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: Author
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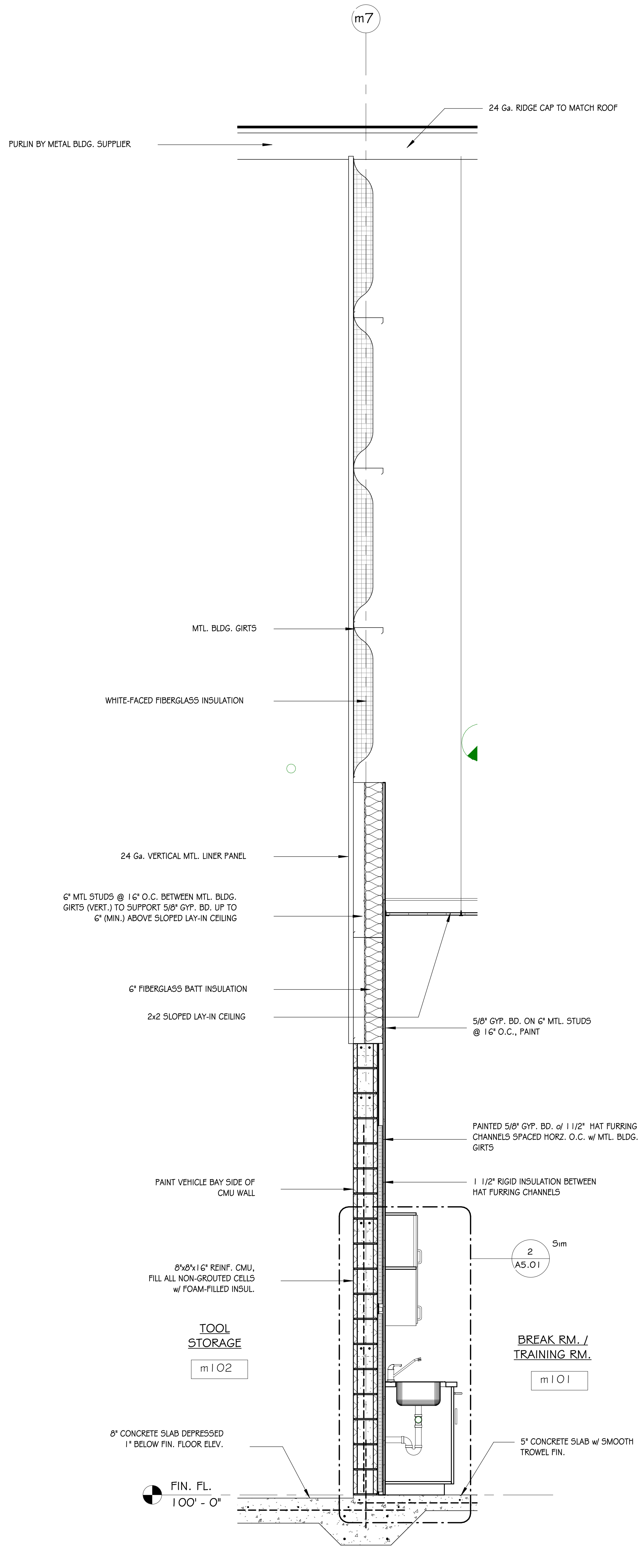
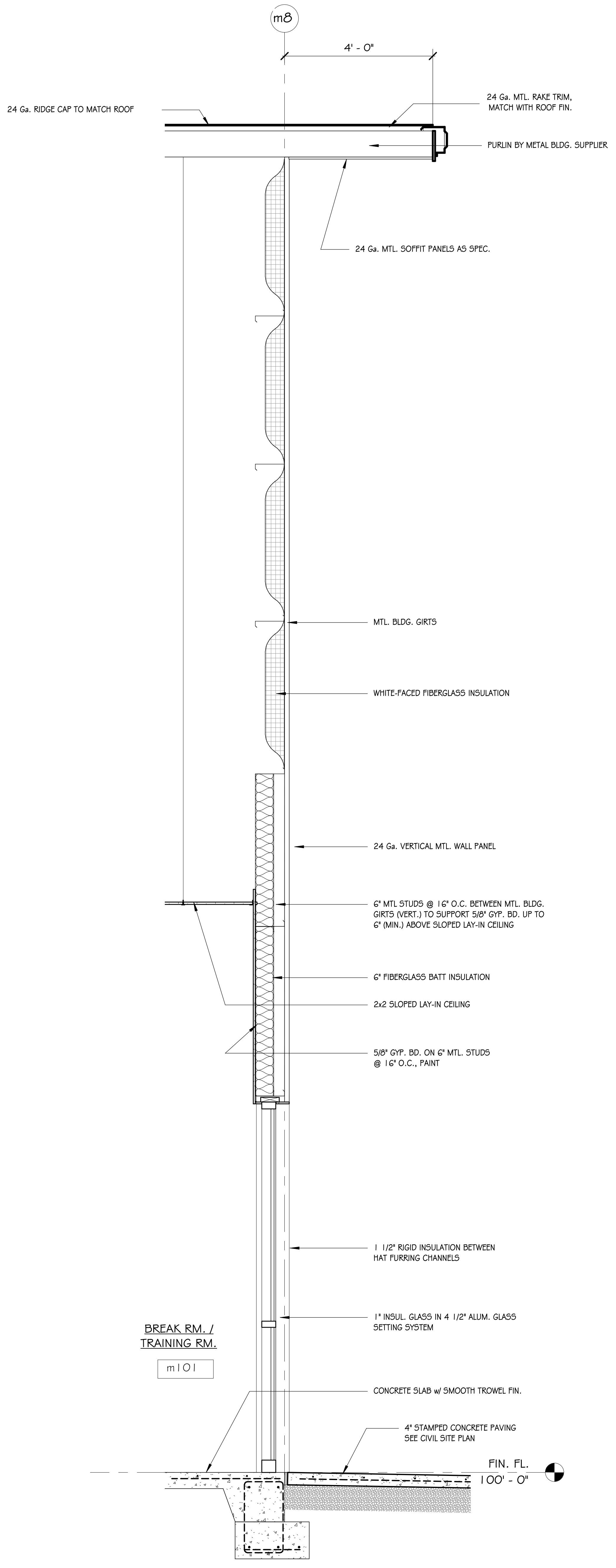
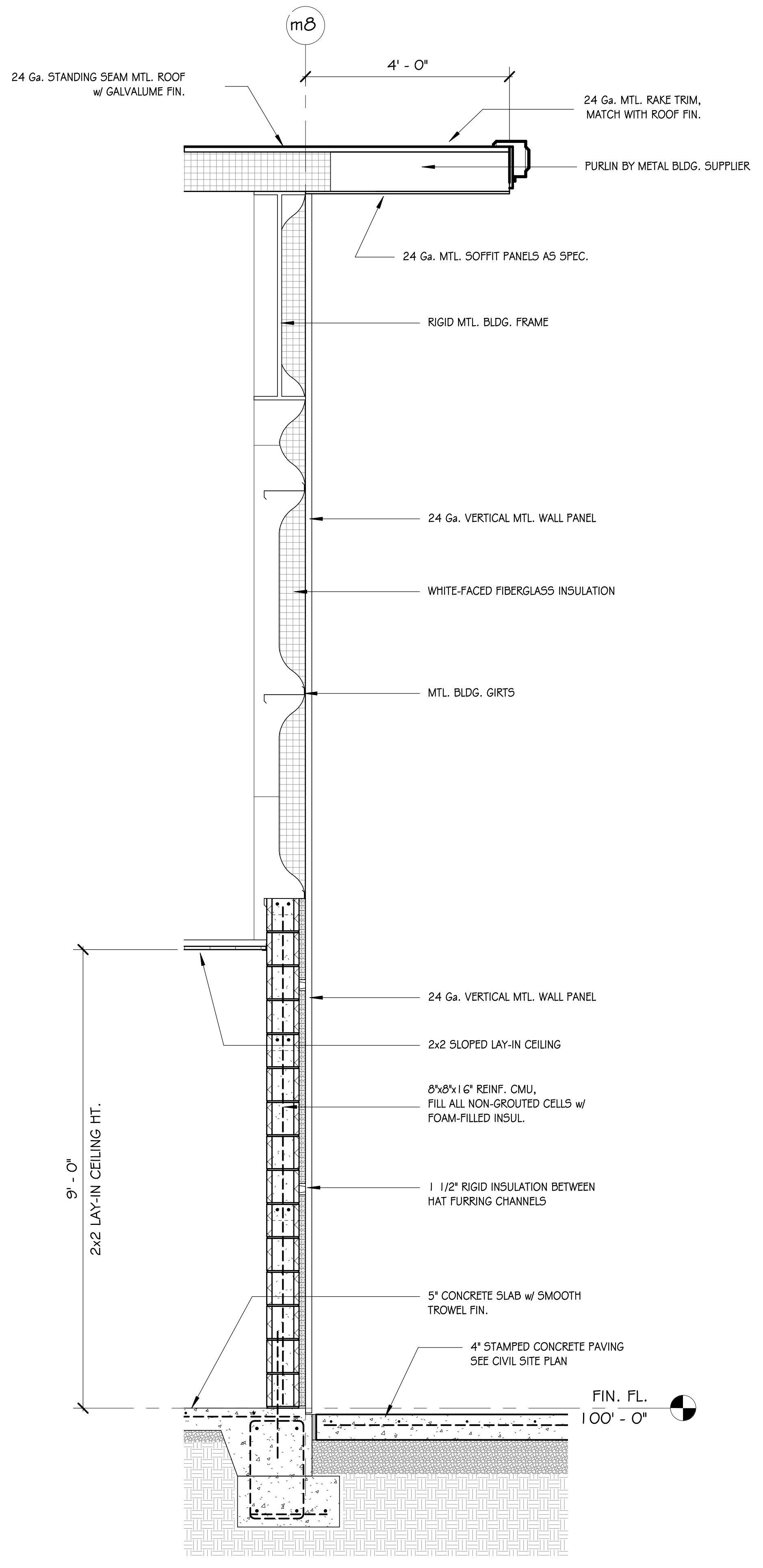

m7
24 Ga. RIDGE CAP TO MATCH ROOF
PURLIN BY METAL BLDG. SUPPLIER
MTL. BLDG. GIRTS
WHITE-FACED FIBERGLASS INSULATION
24 Ga. VERTICAL MTL. LINER PANEL
6" MTL STUDS @ 16" O.C. BETWEEN MTL. BLDG. GIRTS (VERT.) TO SUPPORT 5/8" GYP. BD. UP TO 6" (MIN.) ABOVE SLOPED LAY-IN CEILING
6" FIBERGLASS BATT INSULATION
2x2 SLOPED LAY-IN CEILING
5/8" GYP. BD. ON 6" MTL. STUDS @ 16" O.C., PAINT
PAINTED 5/8" GYP. BD. o/ 1 1/2" HAT FURRING CHANNELS SPACED HORZ. O.C. w/ MTL. BLDG. GIRTS
PAINT VEHICLE BAY SIDE OF CMU WALL
1 1/2" RIGID INSULATION BETWEEN HAT FURRING CHANNELS
2
A5.01
Sim
8"x8"x16" REINF. CMU, FILL ALL NON-GROUTED CELLS w/ FOAM-FILLED INSUL.
TOOL STORAGE
m102
BREAK RM. / TRAINING RM.
m101
8" CONCRETE SLAB DEPRESSED 1" BELOW FIN. FLOOR ELEV.
5" CONCRETE SLAB w/ SMOOTH TROWEL FIN.
FIN. FL.
100' - 0"

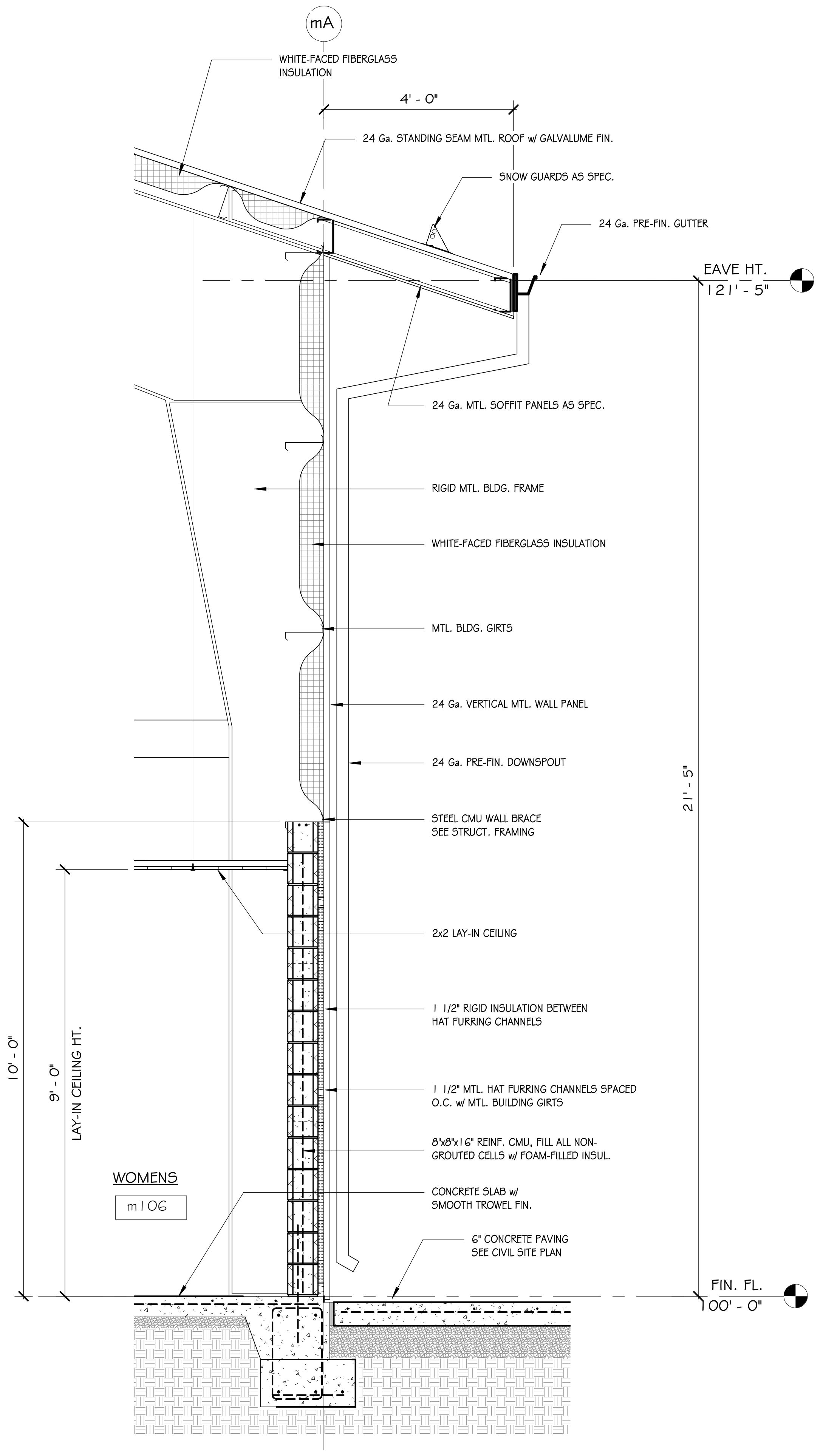
4 WALL SECTION @ GRIDLINE m7
1/2" = 1'-0"


m8
4' - 0"
24 Ga. RIDGE CAP TO MATCH ROOF
24 Ga. MTL. RAKE TRIM, MATCH WITH ROOF FIN.
PURLIN BY METAL BLDG. SUPPLIER
24 Ga. MTL. SOFFIT PANELS AS SPEC.
MTL. BLDG. GIRTS
WHITE-FACED FIBERGLASS INSULATION
24 Ga. VERTICAL MTL. WALL PANEL
6" MTL STUDS @ 16" O.C. BETWEEN MTL. BLDG. GIRTS (VERT.) TO SUPPORT 5/8" GYP. BD. UP TO 6" (MIN.) ABOVE SLOPED LAY-IN CEILING
6" FIBERGLASS BATT INSULATION
2x2 SLOPED LAY-IN CEILING
5/8" GYP. BD. ON 6" MTL. STUDS @ 16" O.C., PAINT
1 1/2" RIGID INSULATION BETWEEN HAT FURRING CHANNELS
1" INSUL. GLASS IN 4 1/2" ALUM. GLASS SETTING SYSTEM
BREAK RM. / TRAINING RM.
m101
CONCRETE SLAB w/ SMOOTH TROWEL FIN.
4" STAMPED CONCRETE PAVING SEE CIVIL SITE PLAN
FIN. FL.
100' - 0"

3 EXT. WALL SECTION ALONG GRIDELINE m8 @ STOREFRONT
1/2" = 1'-0"


m8
4' - 0"
24 Ga. STANDING SEAM MTL. ROOF w/ GALVALUME FIN.
24 Ga. MTL. RAKE TRIM, MATCH WITH ROOF FIN.
PURLIN BY METAL BLDG. SUPPLIER
24 Ga. MTL. SOFFIT PANELS AS SPEC.
RIGID MTL. BLDG. FRAME
24 Ga. VERTICAL MTL. WALL PANEL
WHITE-FACED FIBERGLASS INSULATION
MTL. BLDG. GIRTS
24 Ga. VERTICAL MTL. WALL PANEL
2x2 SLOPED LAY-IN CEILING
8"x8"x16" REINF. CMU, FILL ALL NON-GROUTED CELLS w/ FOAM-FILLED INSUL.
1 1/2" RIGID INSULATION BETWEEN HAT FURRING CHANNELS
9' - 0"
2x2 LAY-IN CEILING HT.
5" CONCRETE SLAB w/ SMOOTH TROWEL FIN.
4" STAMPED CONCRETE PAVING SEE CIVIL SITE PLAN
FIN. FL.
100' - 0"

2 EXT WALL SECTION ALONG m8 @ CMU
1/2" = 1'-0"


mA
WHITE-FACED FIBERGLASS INSULATION
4' - 0"
24 Ga. STANDING SEAM MTL. ROOF w/ GALVALUME FIN.
SNOW GUARDS AS SPEC.
24 Ga. PRE-FIN. GUTTER
EAVE HT.
121' - 5"
24 Ga. MTL. SOFFIT PANELS AS SPEC.
RIGID MTL. BLDG. FRAME
WHITE-FACED FIBERGLASS INSULATION
MTL. BLDG. GIRTS
24 Ga. VERTICAL MTL. WALL PANEL
24 Ga. PRE-FIN. DOWNSPOUT
21' - 5"
STEEL CMU WALL BRACE SEE STRUCT. FRAMING
2x2 LAY-IN CEILING
1 1/2" RIGID INSULATION BETWEEN HAT FURRING CHANNELS
1 1/2" MTL. HAT FURRING CHANNELS SPACED O.C. w/ MTL. BUILDING GIRTS
8"x8"x16" REINF. CMU, FILL ALL NON-GROUTED CELLS w/ FOAM-FILLED INSUL.
10' - 0"
9' - 0"
LAY-IN CEILING HT.
WOMENS
m106
CONCRETE SLAB w/ SMOOTH TROWEL FIN.
6" CONCRETE PAVING SEE CIVIL SITE PLAN
FIN. FL.
100' - 0"

1 EXT. WALL @ WOMENS m106
1/2" = 1'-0"

STAMPS

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
WALL SECTIONS - MAINTENANCE BLDG.

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: Author
Checked By: Checker
DATE: JULY 29, 2022

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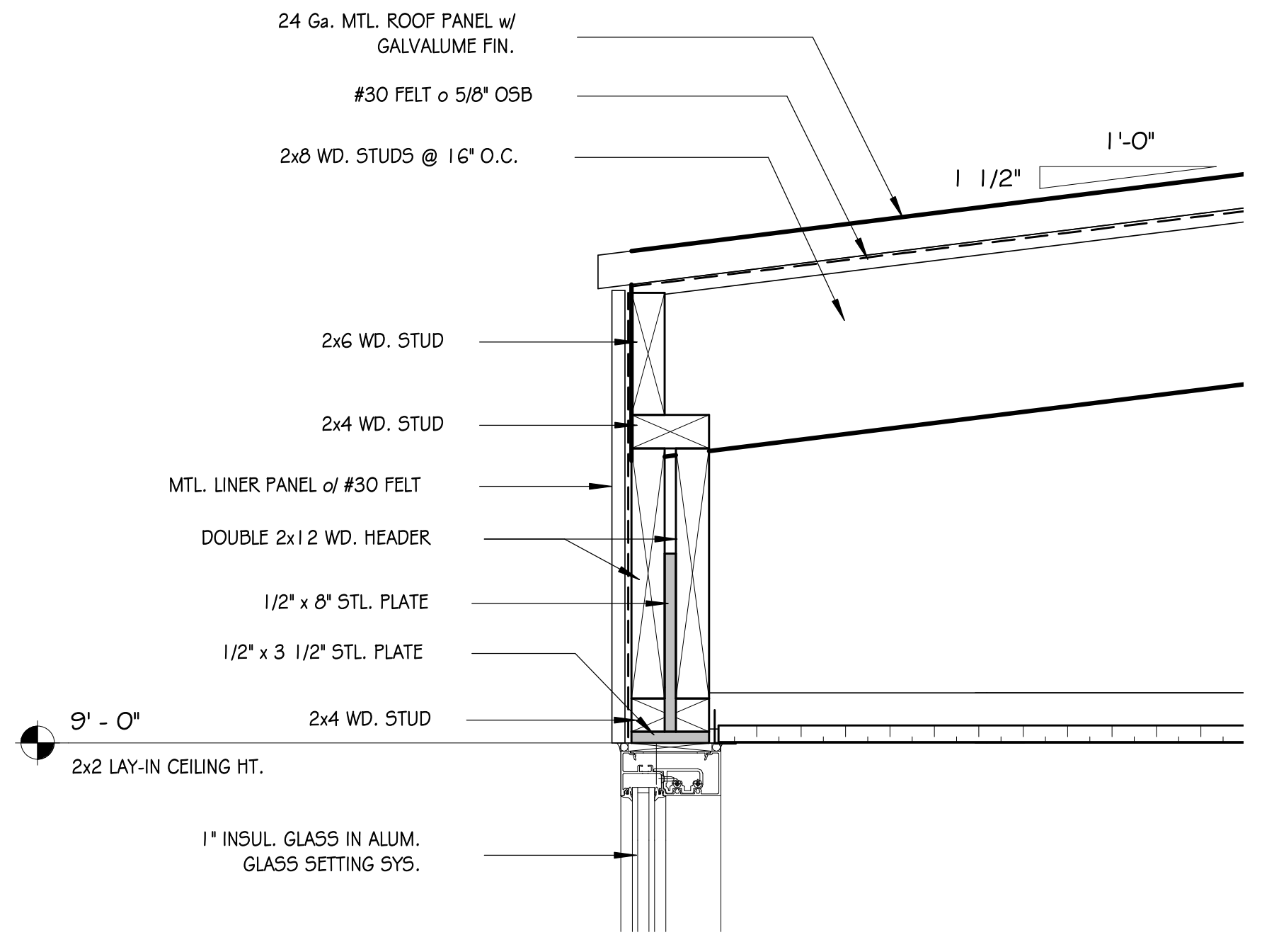
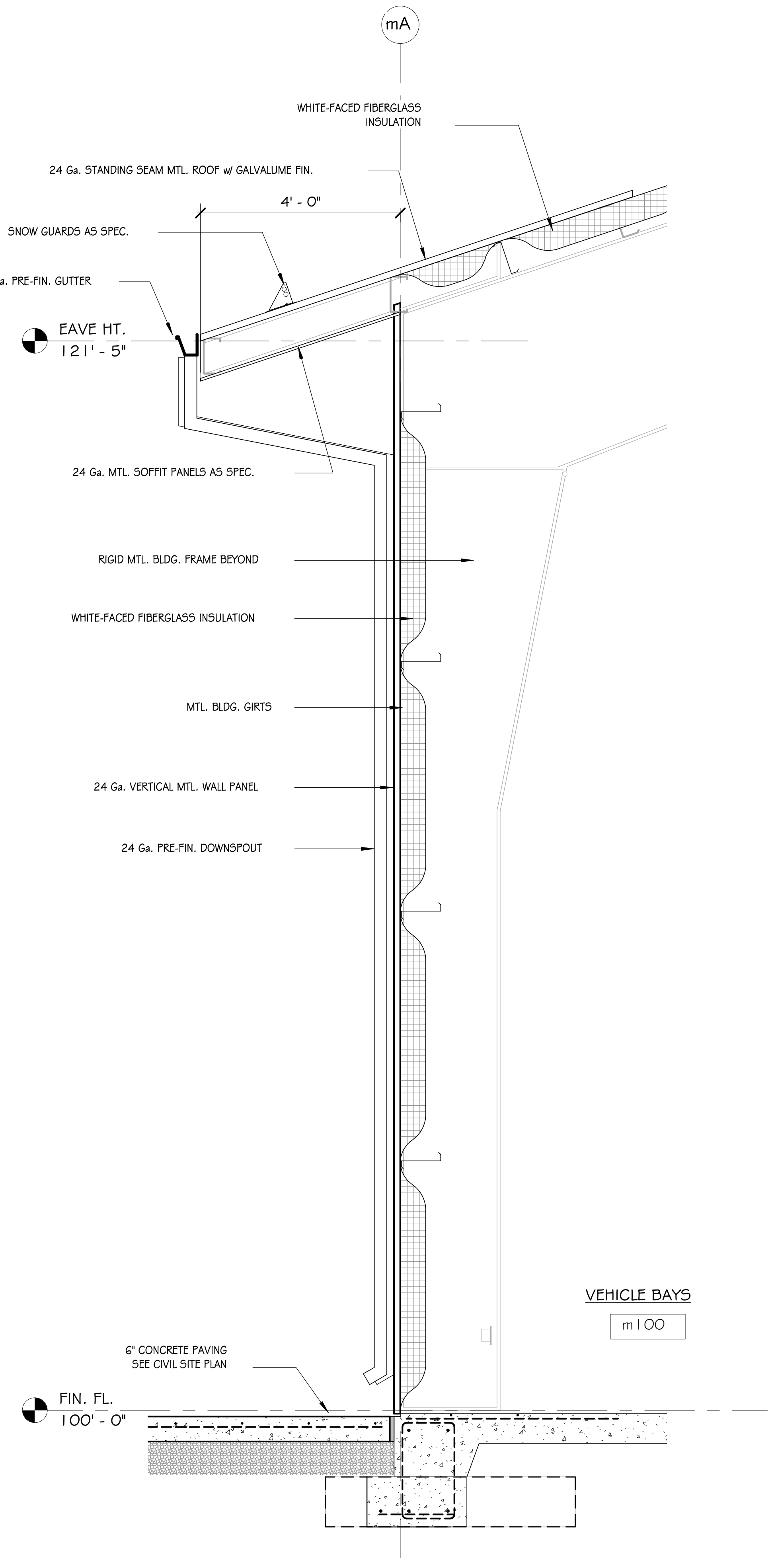
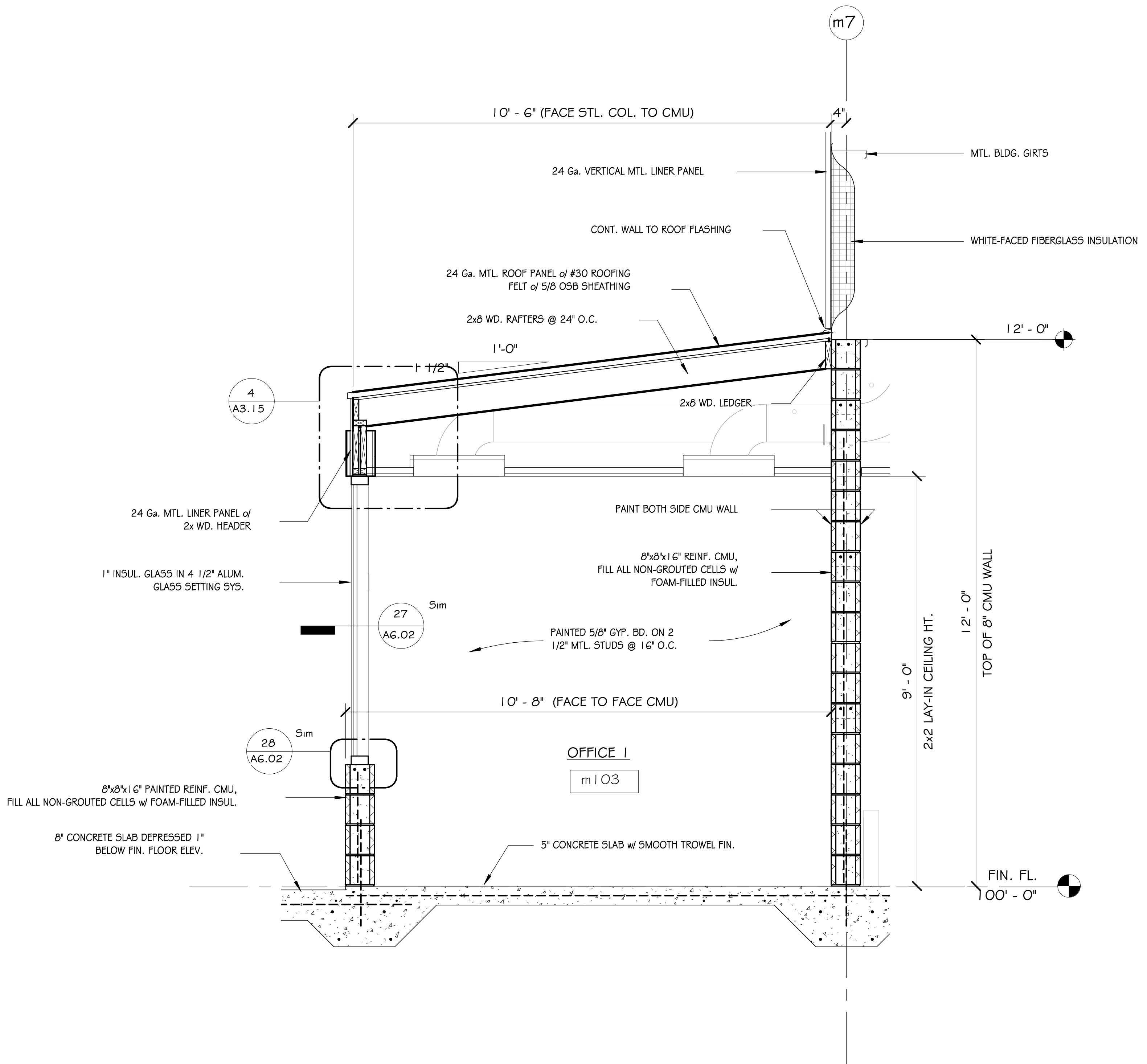


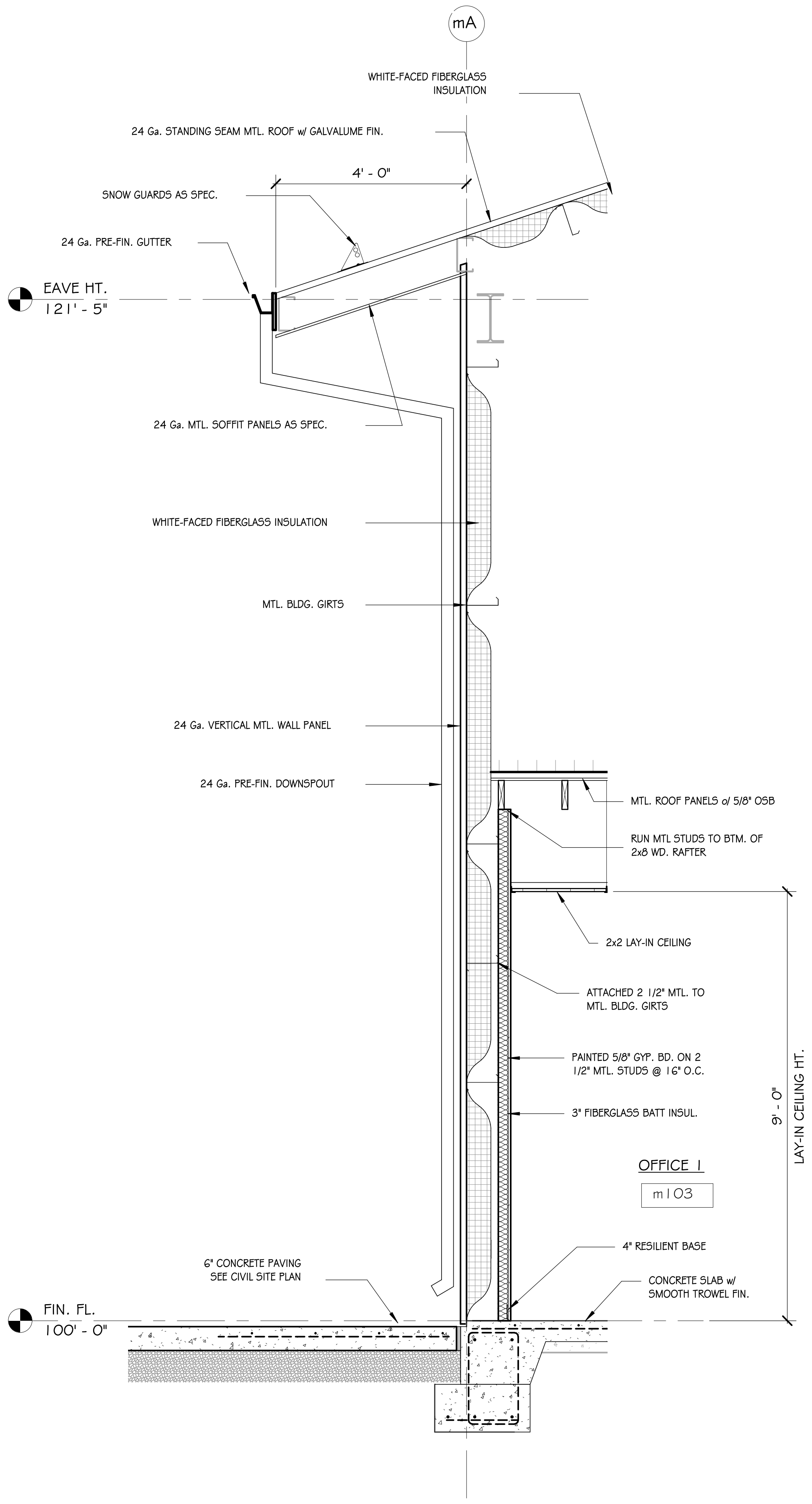
4 HEADER DTL. @ OFFICES m103 & m109
1 1/2" = 1'-0"


mA
WHITE-FACED FIBERGLASS INSULATION
24 Ga. STANDING SEAM MTL. ROOF w/ GALVALUME FIN.
4' - 0"
SNOW GUARDS AS SPEC.
24 Ga. PRE-FIN. GUTTER
EAVE HT.
121' - 5"
24 Ga. MTL. SOFFIT PANELS AS SPEC.
RIGID MTL. BLDG. FRAME BEYOND
WHITE-FACED FIBERGLASS INSULATION
MTL. BLDG. GIRTS
24 Ga. VERTICAL MTL. WALL PANEL
24 Ga. PRE-FIN. DOWNSPOUT
VEHICLE BAYS
m100
6" CONCRETE PAVING SEE CIVIL SITE PLAN
FIN. FL.
100' - 0"

3 TYPICAL MTL. BLDG. SECTION
1/2" = 1'-0"


m7
10' - 6" (FACE STL. COL. TO CMU)
4"
MTL. BLDG. GIRTS
24 Ga. VERTICAL MTL. LINER PANEL
CONT. WALL TO ROOF FLASHING
WHITE-FACED FIBERGLASS INSULATION
24 Ga. MTL. ROOF PANEL o/ #30 ROOFING FELT o/ 5/8 OSB SHEATHING
2x8 WD. RAFTERS @ 24" O.C.
12' - 0"
1'-0"
1 1/2"
4
A3.15
2x8 WD. LEDGER
24 Ga. MTL. LINER PANEL o/ 2x WD. HEADER
PAINT BOTH SIDE CMU WALL
8"x8"x16" REINF. CMU, FILL ALL NON-GROUTED CELLS w/ FOAM-FILLED INSUL.
1" INSUL. GLASS IN 4 1/2" ALUM. GLASS SETTING SYS.
27
A6.02
Sim
PAINTED 5/8" GYP. BD. ON 2 1/2" MTL. STUDS @ 16" O.C.
10' - 8" (FACE TO FACE CMU)
9' - 0"
2x2 LAY-IN CEILING HT.
12' - 0"
TOP OF 8" CMU WALL
28
A6.02
Sim
OFFICE 1
m103
8"x8"x16" PAINTED REINF. CMU, FILL ALL NON-GROUTED CELLS w/ FOAM-FILLED INSUL.
8" CONCRETE SLAB DEPRESSED 1" BELOW FIN. FLOOR ELEV.
5" CONCRETE SLAB w/ SMOOTH TROWEL FIN.
FIN. FL.
100' - 0"

2 SOUTH WALL @ OFFICES m103 & m109
1/2" = 1'-0"


mA
WHITE-FACED FIBERGLASS INSULATION
24 Ga. STANDING SEAM MTL. ROOF w/ GALVALUME FIN.
4' - 0"
SNOW GUARDS AS SPEC.
24 Ga. PRE-FIN. GUTTER
EAVE HT.
121' - 5"
24 Ga. MTL. SOFFIT PANELS AS SPEC.
WHITE-FACED FIBERGLASS INSULATION
MTL. BLDG. GIRTS
24 Ga. VERTICAL MTL. WALL PANEL
24 Ga. PRE-FIN. DOWNSPOUT
MTL. ROOF PANELS o/ 5/8" OSB
RUN MTL STUDS TO BTM. OF 2x8 WD. RAFTER
2x2 LAY-IN CEILING
ATTACHED 2 1/2" MTL. TO MTL. BLDG. GIRTS
PAINTED 5/8" GYP. BD. ON 2 1/2" MTL. STUDS @ 16" O.C.
3" FIBERGLASS BATT INSUL.
9' - 0"
LAY-IN CEILING HT.
OFFICE 1
m103
4" RESILIENT BASE
6" CONCRETE PAVING SEE CIVIL SITE PLAN
CONCRETE SLAB w/ SMOOTH TROWEL FIN.
FIN. FL.
100' - 0"

1 EXT. WALL SECTION @ OFFICES m103 & m109
1/2" = 1'-0"

STAMPS

ETC Engineers & Architects, Inc.
No. C-462

STAMPS

CARL F. MENYHART, JR.
No. 1007
7/29/22

ETC ENGINEERS & ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
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1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

WALL SECTIONS - MAINTENANCE BLDG.

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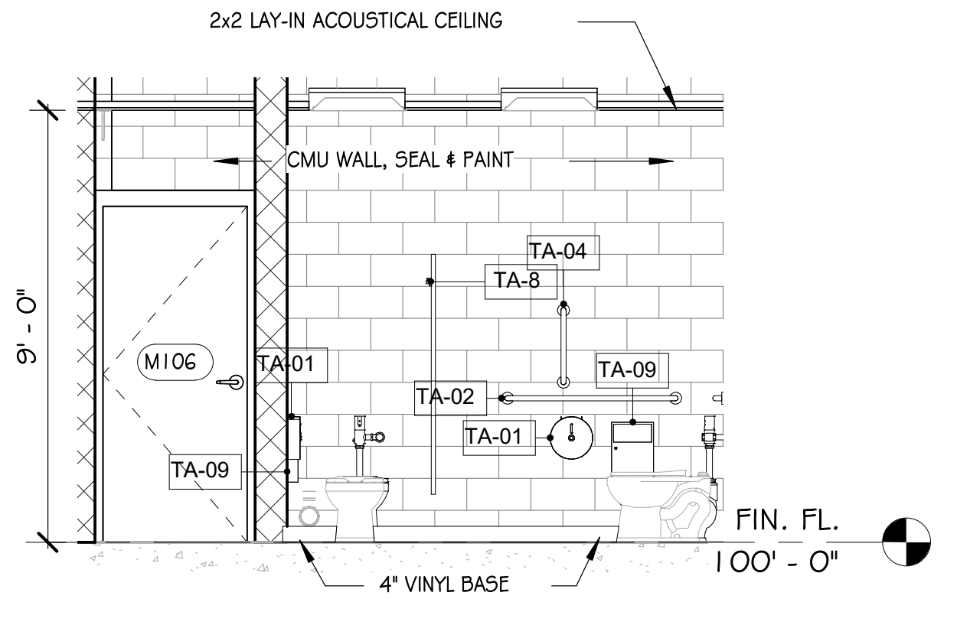
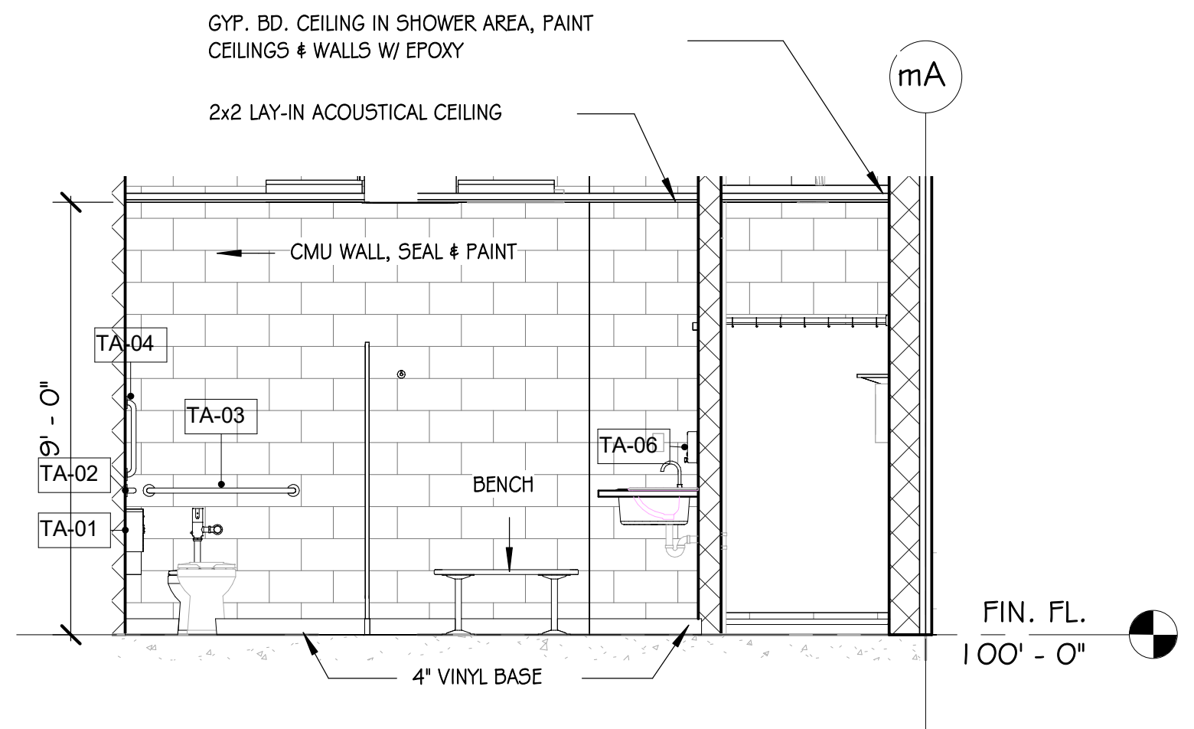
TOILET ACCESSORY SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION
TA-01	BOBRICK	B - 2730	TOILET PAPER DISPENSER
TA-02	BOBRICK	B - 6806.99	GRAB BAR 3' 6"
TA-03	BOBRICK	B - 6806.99	GRAB BAR 3' 0"
TA-04	BOBRICK	B - 6806.99	GRAB BAR 1' 6"
TA-06	BOBRICK	B - 155	WALL MOUNTED SOAP DISPENCSER
TA-07	BOBRICK	B-165-2436, 24" x 36"	FIXED FRAMED MIRROR
TA-08	BOBRICK	B-7671	ROBE HOOK
TA-09	BOBRICK	B - 270	SURFACE MOUNTED SANITARY NAPKIN DISPENSER
TA-10	BOBRICK	B - 223 x 24	OR BRADLY 9953, OR ASI 0796-A. POSITION DIRECTLY ABOVE MOP SINK. MOP BROOM HOLDER
TA-11	BOBRICK	# 204-2	Opaque, matte white vinyl, .008" (0.2mm) thick, contains antibacterial and flame retardant agents SHOWER CURTAIN
TA-12	BOBRICK	B - 6047	SHOWER ROD
TA-13	BOBRICK	B -3944	RECESSED PAPER TOWEL DISPENSER & DISPOSAL
TA-14	BOBRICK	B - 295-16	STAINLESS STEEL SHELF
TA-15	BOBRICK	B-680 Series	B-680 BRIGHT POLISHD S.S. SOAP DISH
TA-16	BOBRICK	B-76767	TOWEL SHELF WITH TOWEL BAR, 24" LONG

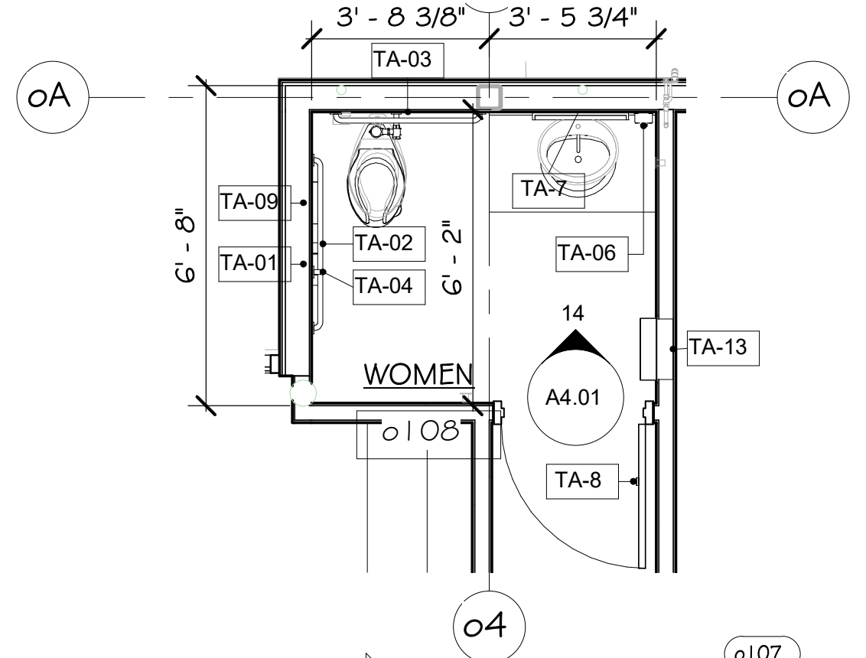
4 ACCESSORIES SCHEDULES
1" = 1'-0"



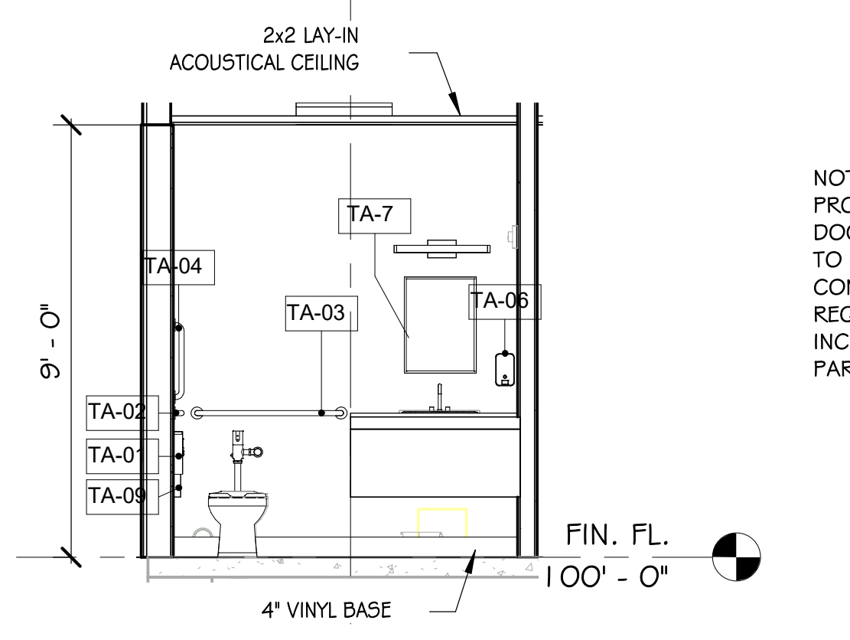
13 WOMEN W.C. - M106
1/4" = 1'-0"


GYP. BD. CEILING IN SHOWER AREA, PAINT CEILINGS & WALLS W/ EPOXY
2x2 LAY-IN ACOUSTICAL CEILING
mA
CMU WALL, SEAL & PAINT
TA-04
TA-03
TA-02
TA-01
TA-06
BENCH
4" VINYL BASE
FIN. FL.
100' - 0"

7 WOMEN SHOWER-M106
1/4" = 1'-0"

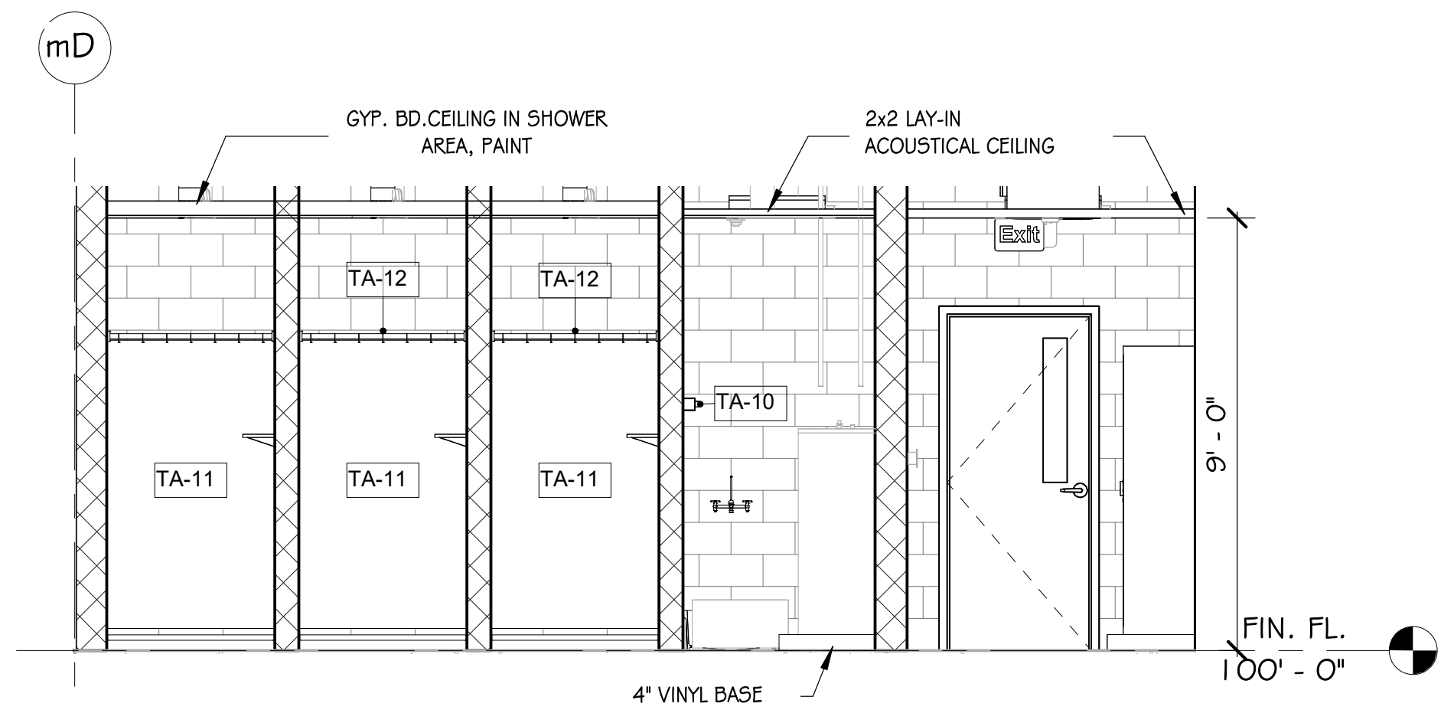


2 W.C FLOOR PLAN AT OFFICE BUILDING
1/4" = 1'-0"

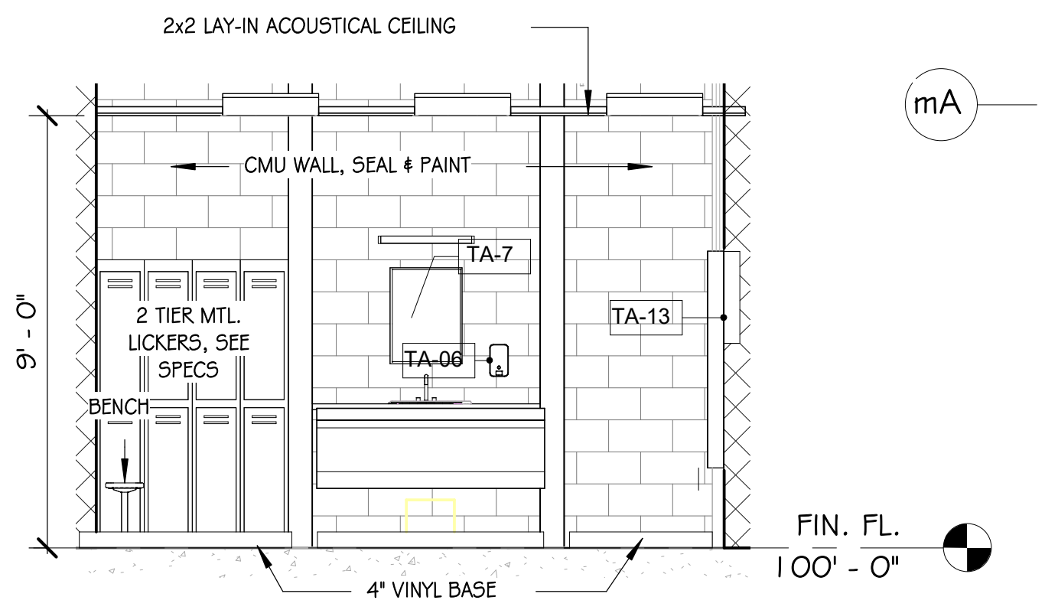


14 OFFICE W.C. ELEVATION
1/4" = 1'-0"

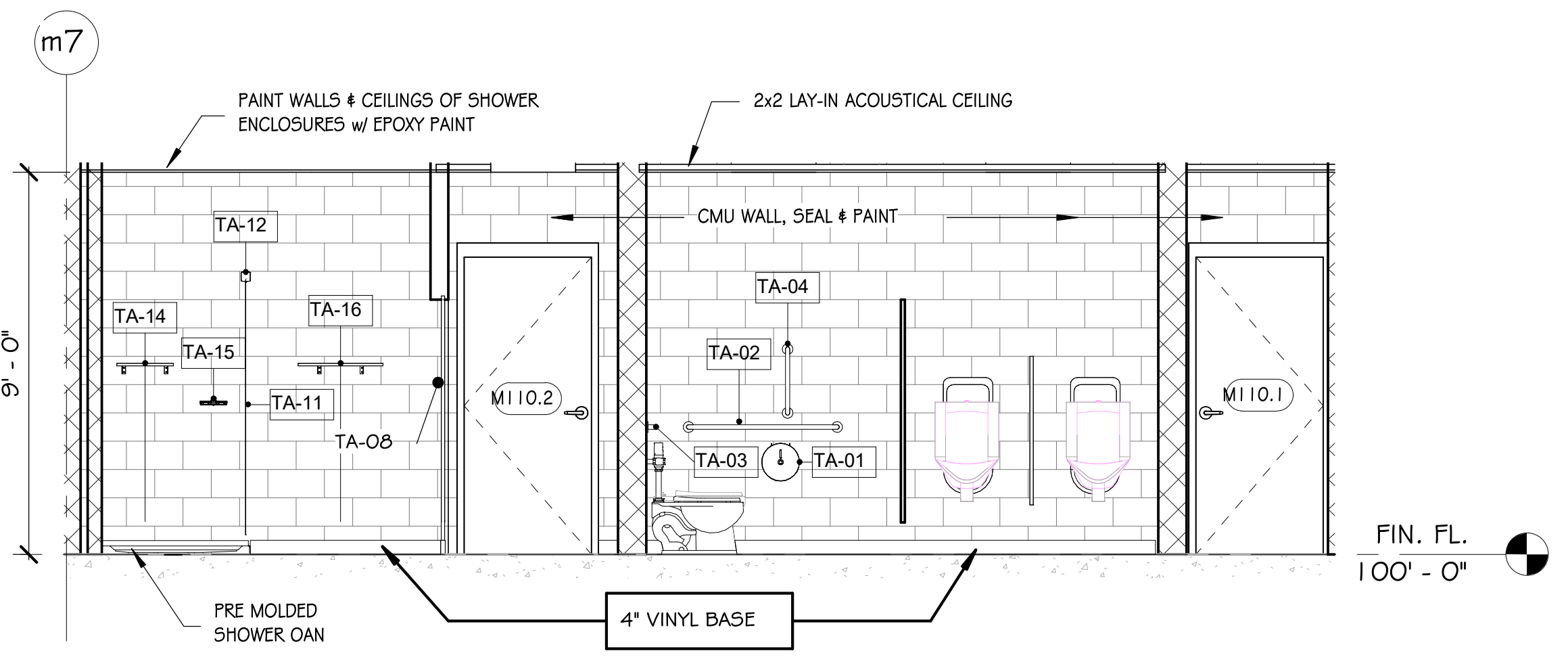
NOTE 1:
PROVIDE PLASTIC LAMINATE CLAD DOORS AND SIDE RAILS ANCHORED TO CMU WALLS AT EACH SHOWER COMPARTMENT COMPLETE WITH REQUIRED S.S. HARDWARE. INCLUDE WITH ALL OTHER TOILET PARTITION WORK.



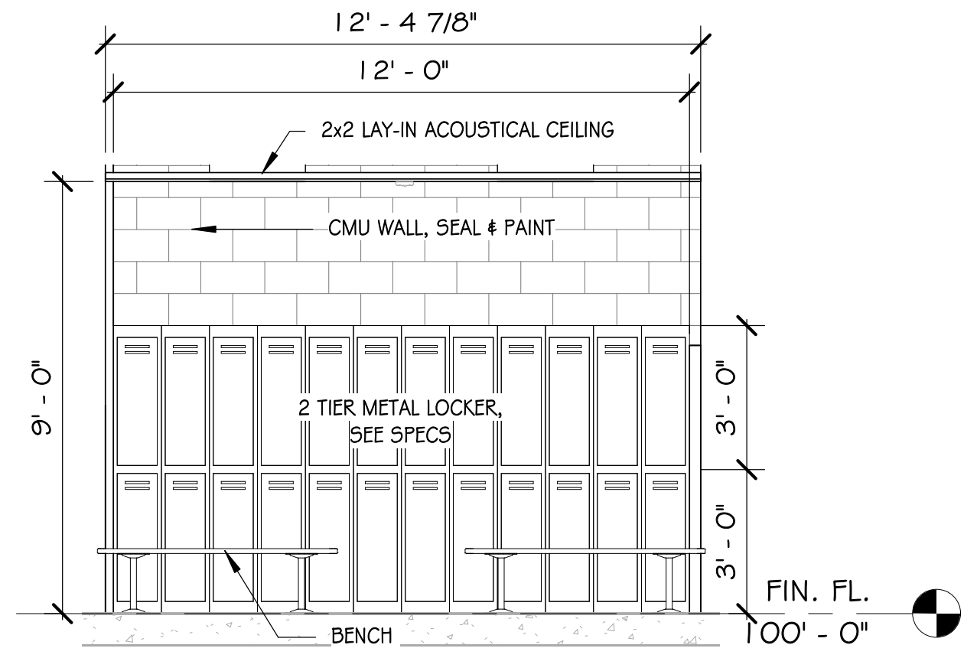
3 MEN'S SHOWERS
1/4" = 1'-0"



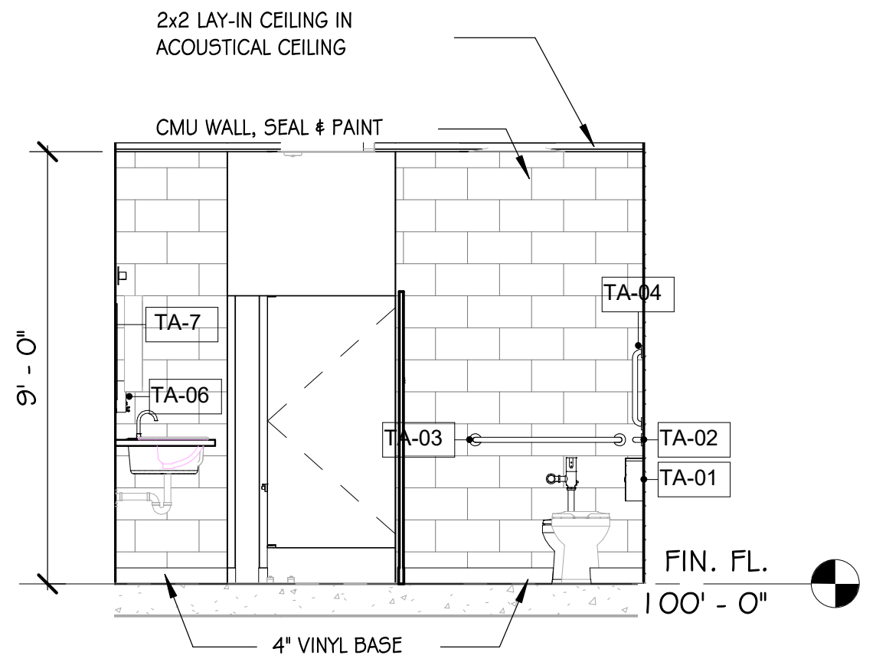
8 WOMEN LAV
1/4" = 1'-0"



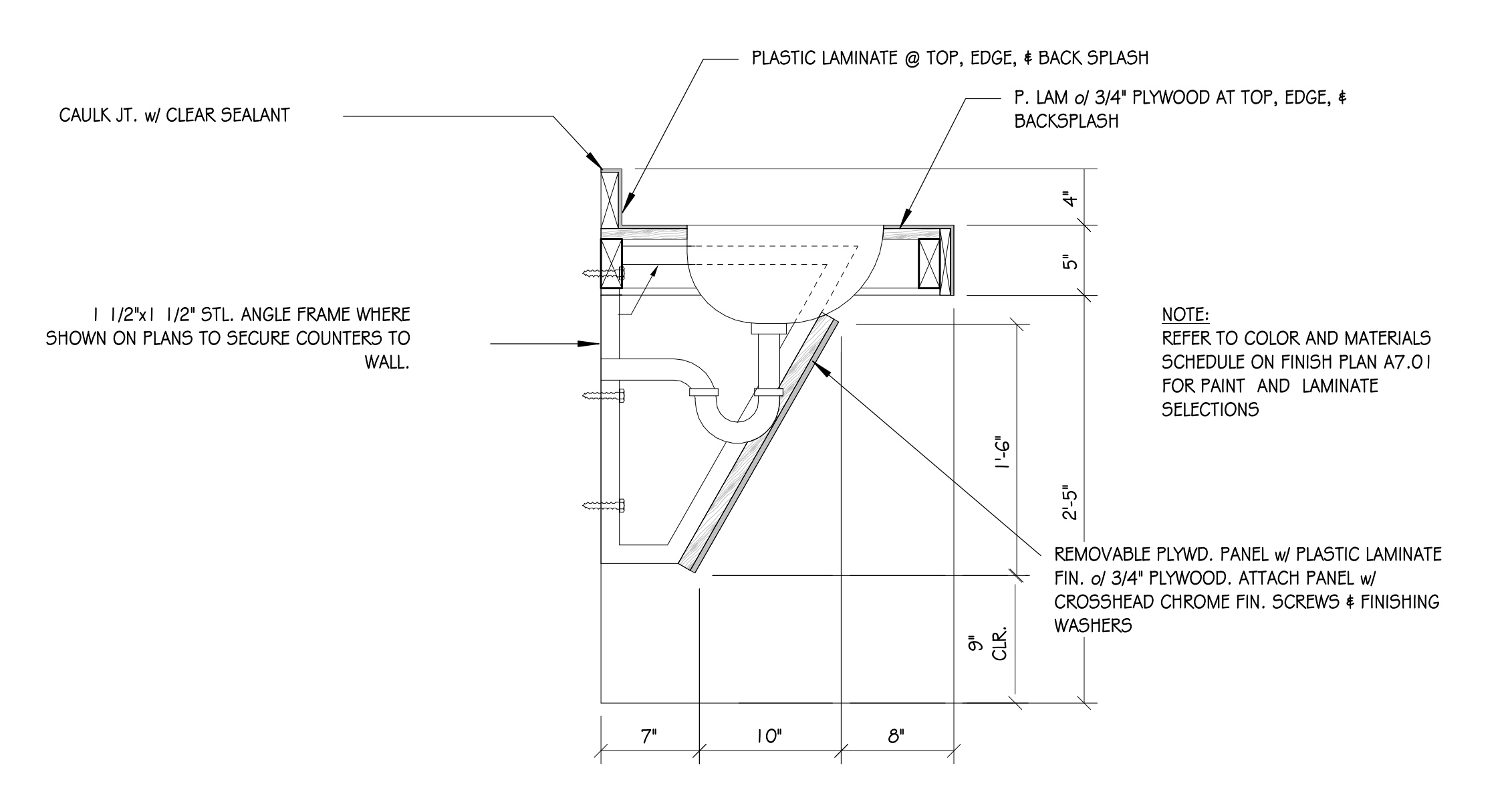
12 2 MEN - M110
1/4" = 1'-0"



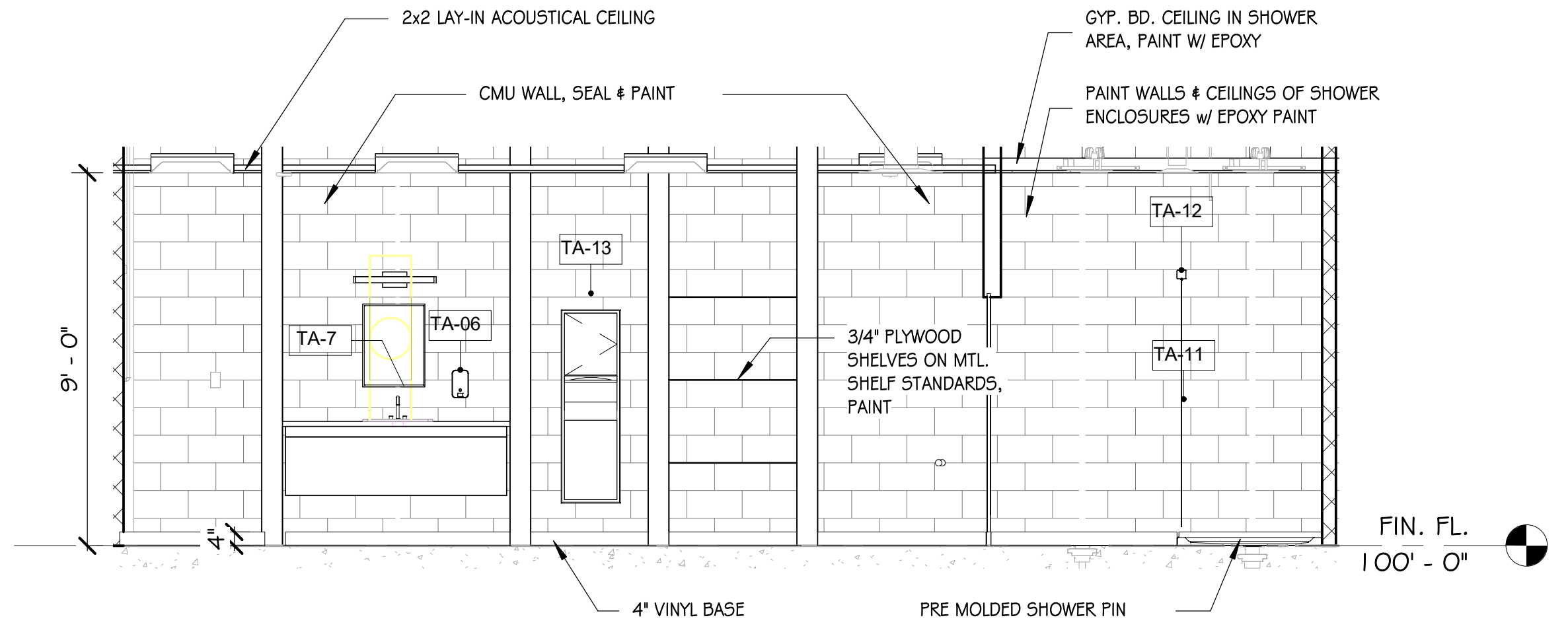
11 MEN'S LOCKERS
1/4" = 1'-0"



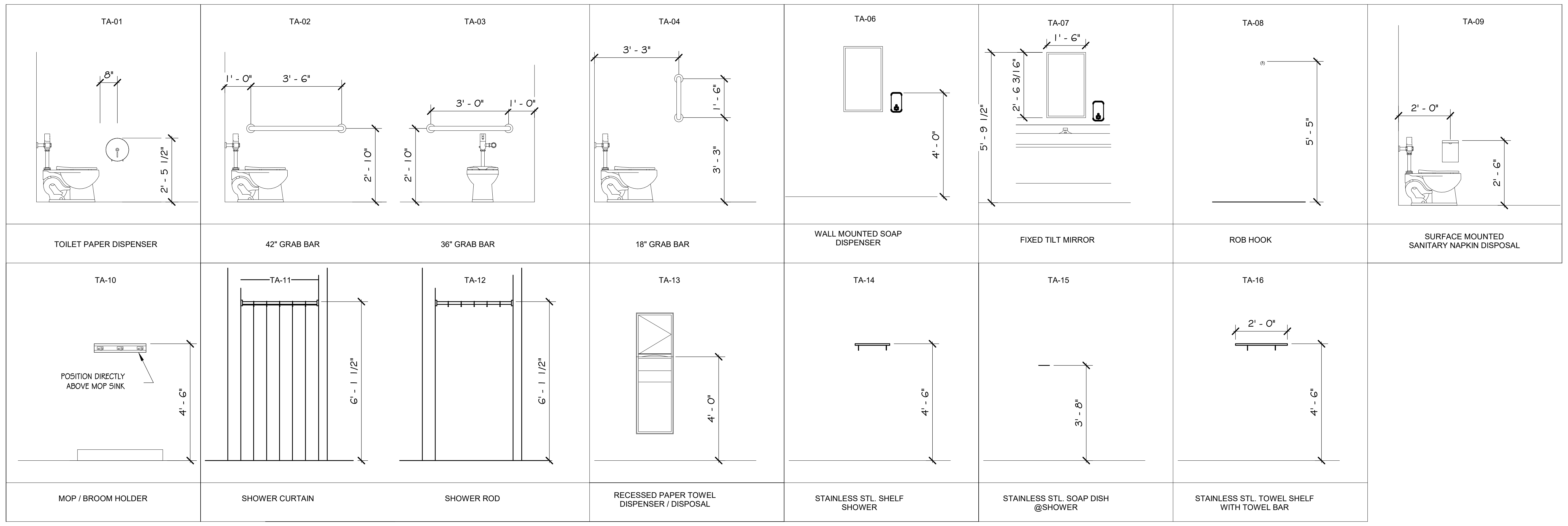
9 1 MEN - M110
1/4" = 1'-0"


CAULK JT. w/ CLEAR SEALANT
PLASTIC LAMINATE @ TOP, EDGE, & BACK SPLASH
P. LAM o/ 3/4" PLYWOOD AT TOP, EDGE, & BACKSPLASH
1 1/2"x1 1/2" STL. ANGLE FRAME WHERE SHOWN ON PLANS TO SECURE COUNTERS TO WALL.
NOTE:
REFER TO COLOR AND MATERIALS SCHEDULE ON FINISH PLAN A7.01 FOR PAINT AND LAMINATE SELECTIONS
REMOVABLE PLYWD. PANEL w/ PLASTIC LAMINATE FIN. o/ 3/4" PLYWOOD. ATTACH PANEL w/ CROSSHEAD CHROME FIN. SCREWS & FINISHING WASHERS
7"
10"
8"
1'-6"
2'-5"
9" CLR.

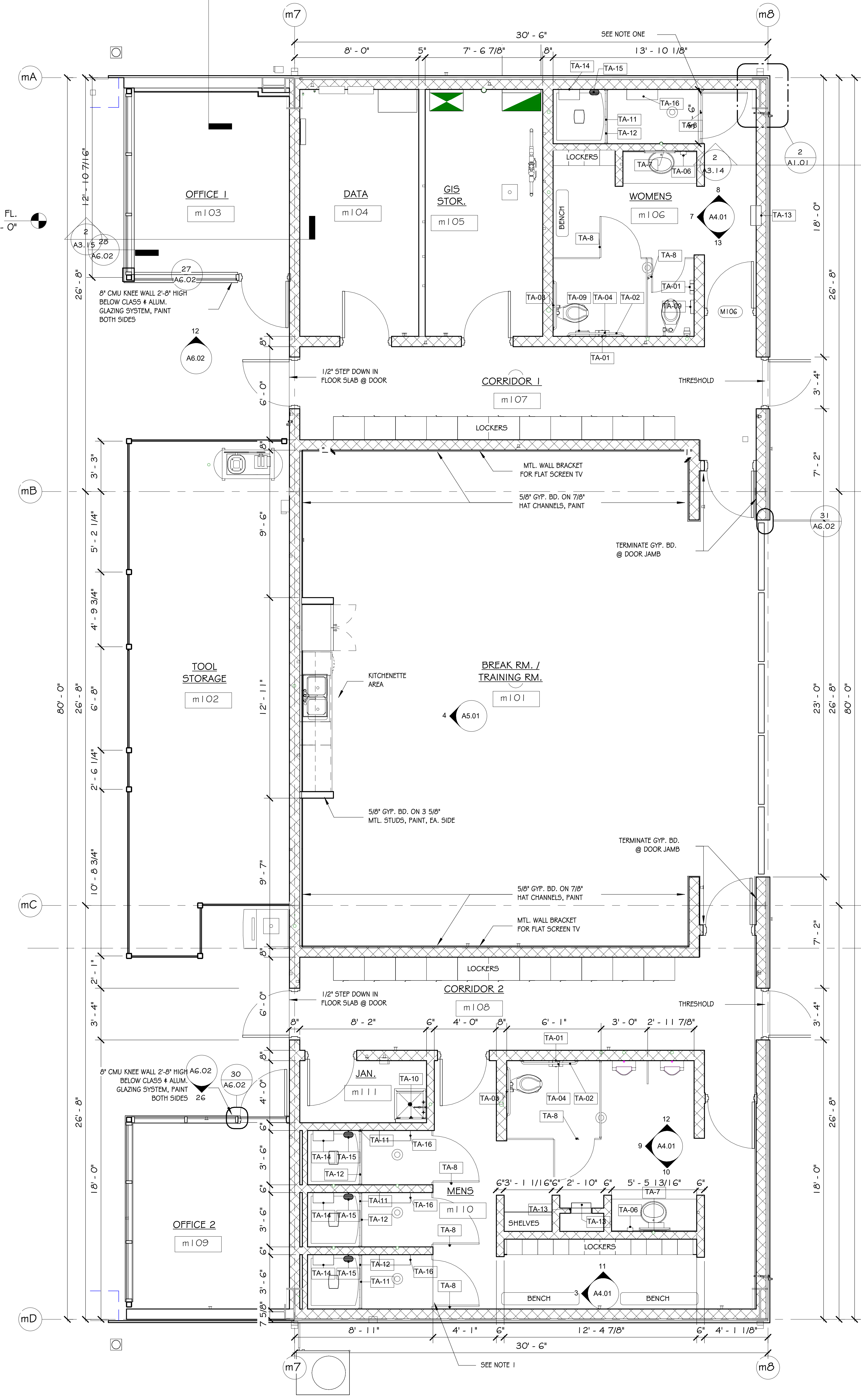
5 SINK DETAIL
1" = 1'-0"


2x2 LAY-IN ACOUSTICAL CEILING
CMU WALL, SEAL & PAINT
GYP. BD. CEILING IN SHOWER AREA, PAINT W/ EPOXY
PAINT WALLS & CEILINGS OF SHOWER ENCLOSURES W/ EPOXY PAINT
TA-13
TA-7
TA-06
3/4" PLYWOOD SHELVES ON MTL. SHELF STANDARDS, PAINT
TA-12
TA-11
9' - 0"
4" VINYL BASE
PRE MOLDED SHOWER PIN
FIN. FL.
100' - 0"

10 MEN - M110
1/4" = 1'-0"



6 TOILET ACCESSORY SCHEDULE
3/8" = 1'-0"



1 ENLARGED PLAN - MAINTENANCE BUILDING
1/4" = 1'-0"

STAMPS

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STAMPS

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

ENLARGED PLANS

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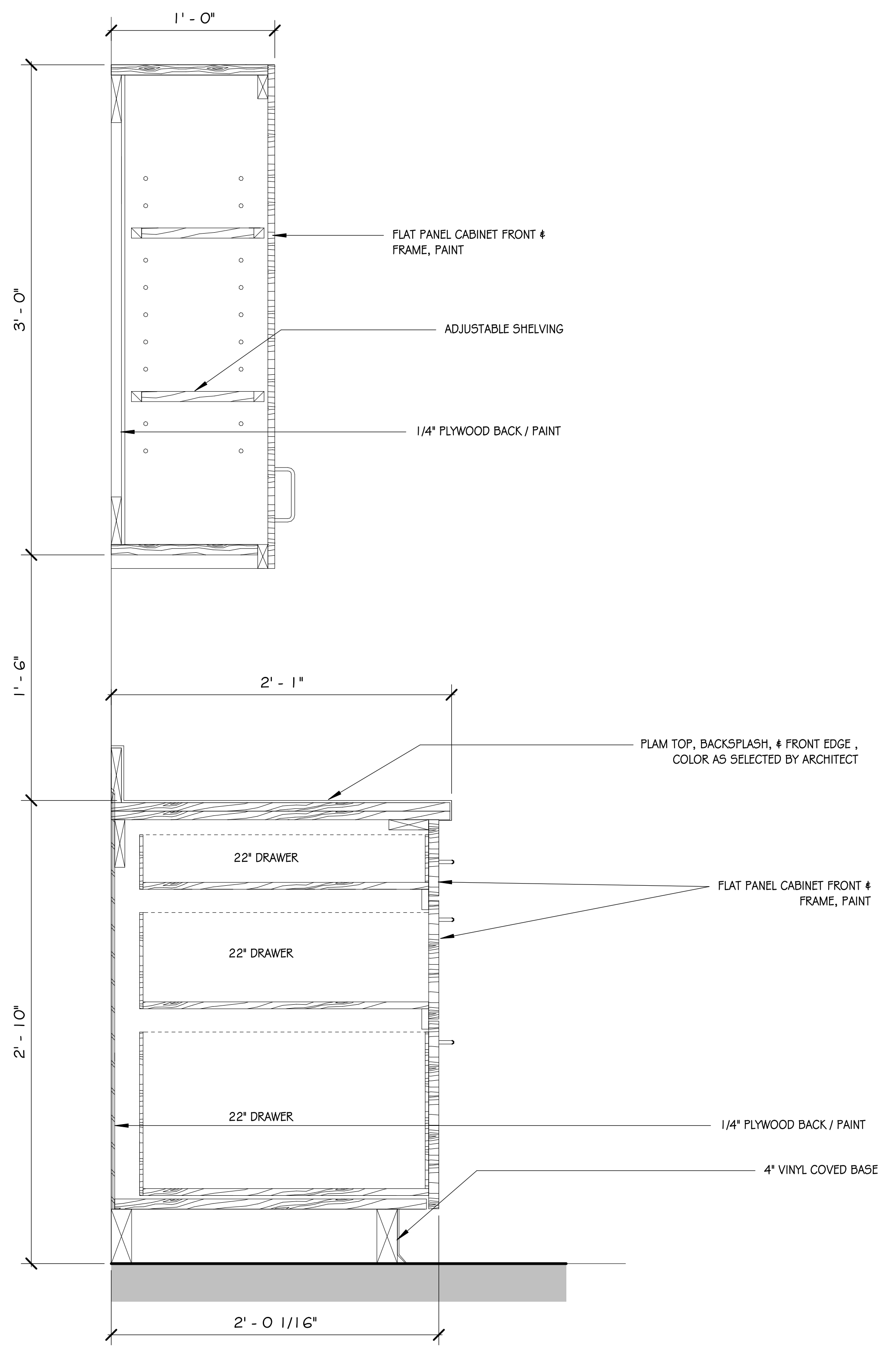
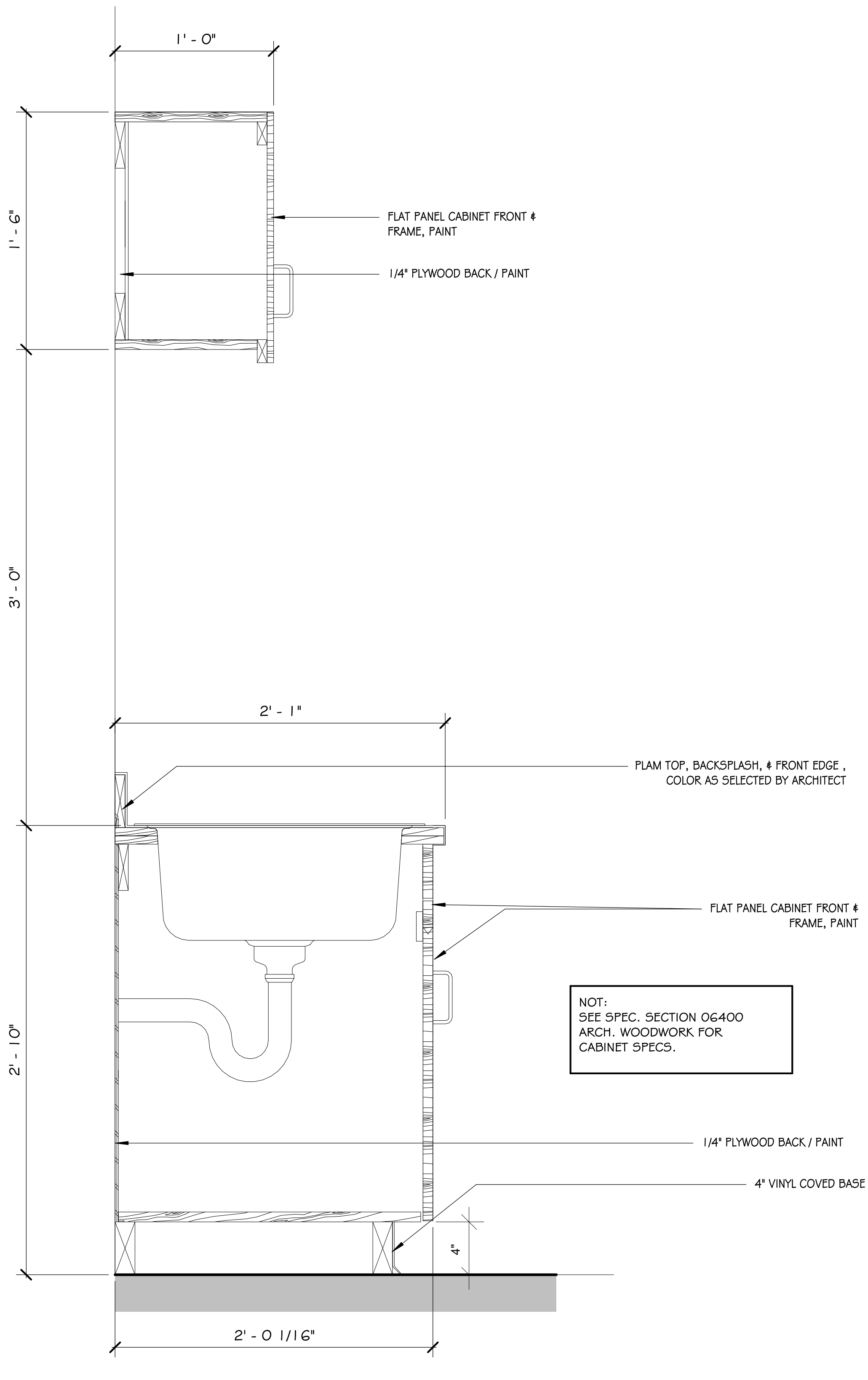
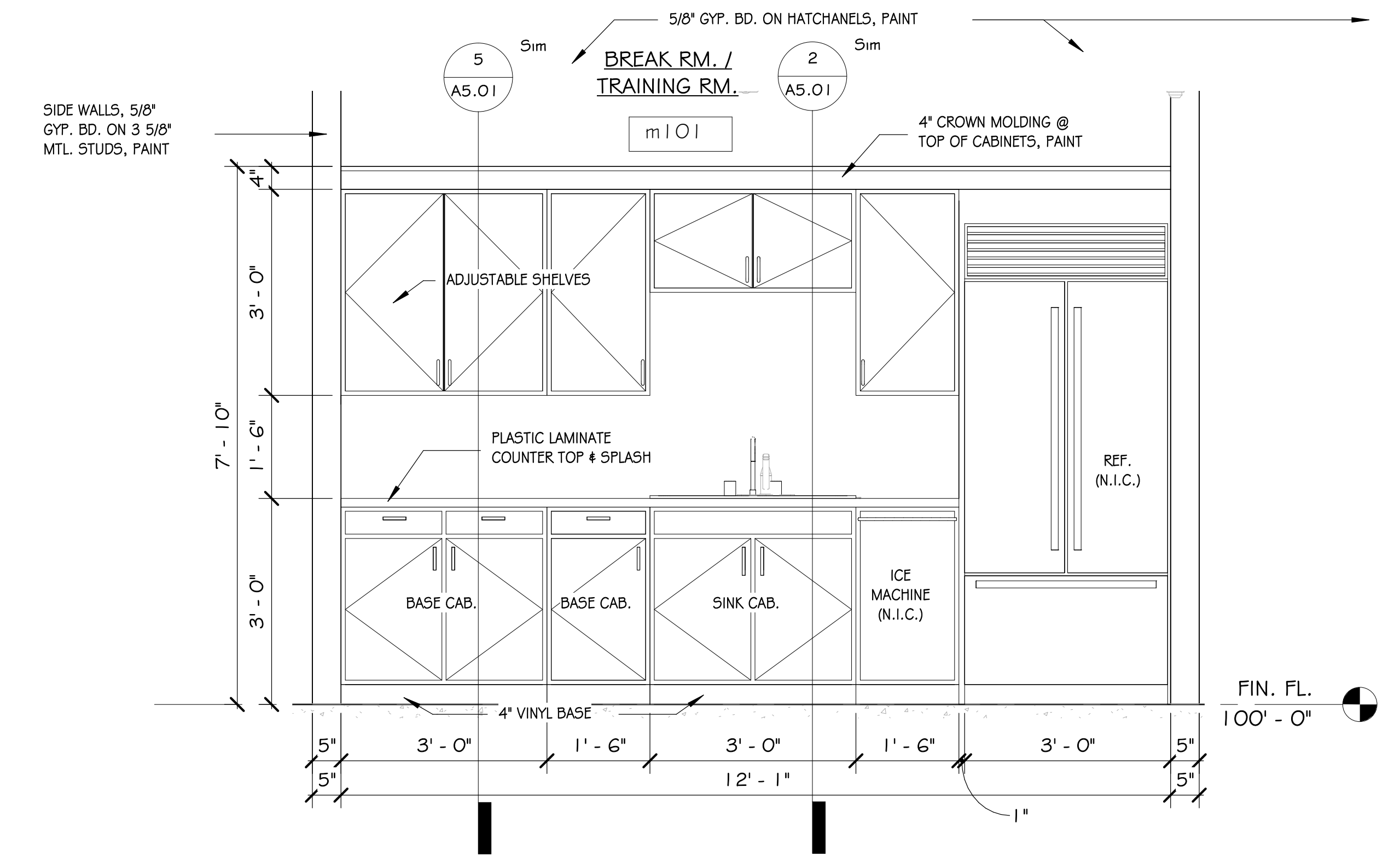

1' - 0"
3' - 0"
FLAT PANEL CABINET FRONT & FRAME, PAINT
ADJUSTABLE SHELVING
1/4" PLYWOOD BACK / PAINT
1' - 6"
2' - 1"
PLAM TOP, BACKSPLASH, & FRONT EDGE , COLOR AS SELECTED BY ARCHITECT
22" DRAWER
22" DRAWER
22" DRAWER
FLAT PANEL CABINET FRONT & FRAME, PAINT
2' - 10"
1/4" PLYWOOD BACK / PAINT
4" VINYL COVED BASE
2' - 0 1/16"

7 TYPICAL 3-DRAWER CABINET
1 1/2" = 1'-0"

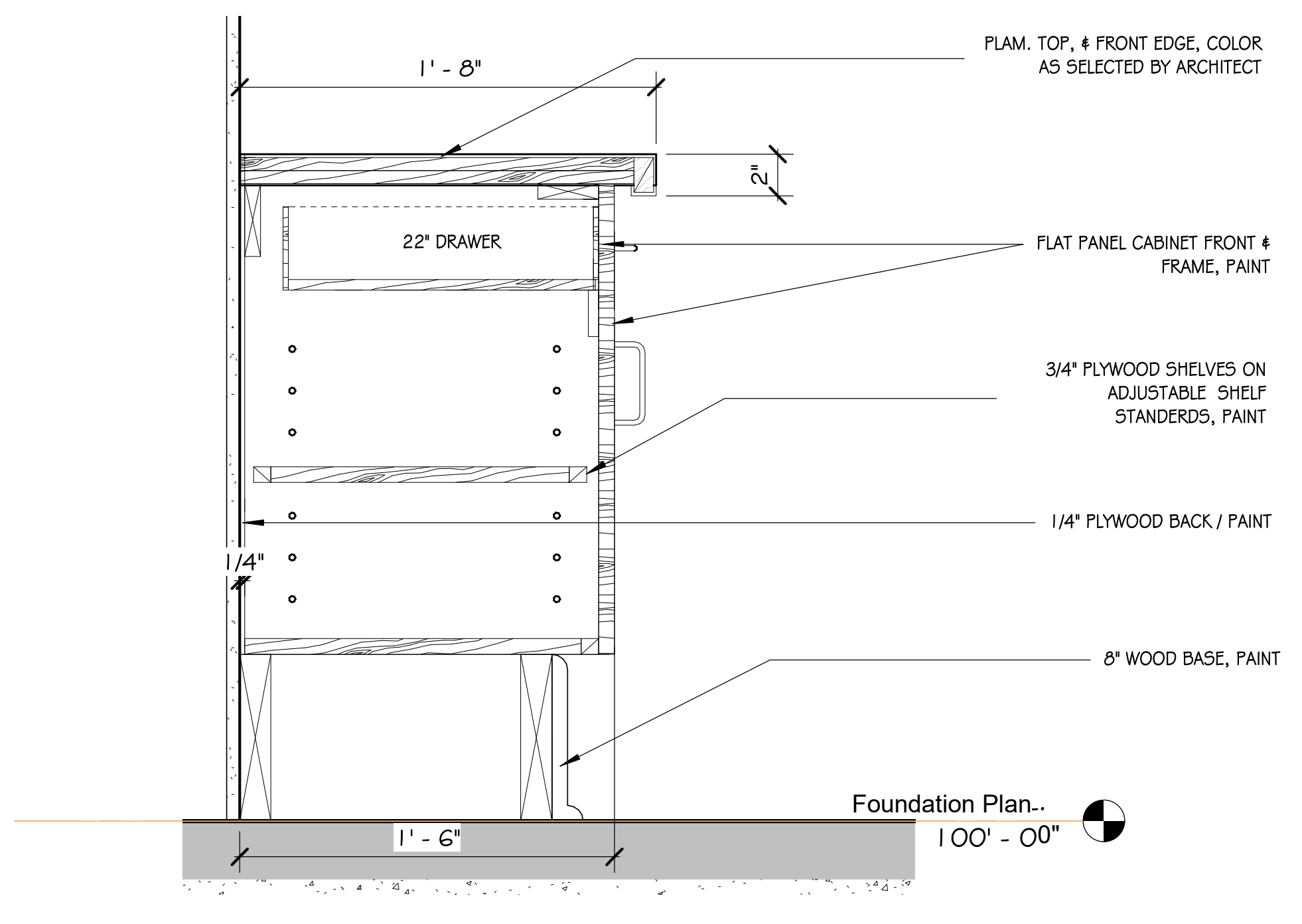

1' - 0"
1' - 6"
FLAT PANEL CABINET FRONT & FRAME, PAINT
1/4" PLYWOOD BACK / PAINT
3' - 0"
2' - 1"
PLAM TOP, BACKSPLASH, & FRONT EDGE , COLOR AS SELECTED BY ARCHITECT
FLAT PANEL CABINET FRONT & FRAME, PAINT
2' - 10"
1/4" PLYWOOD BACK / PAINT
4" VINYL COVED BASE
4"
2' - 0 1/16"

NOT:
SEE SPEC. SECTION 06400
ARCH. WOODWORK FOR
CABINET SPECS.

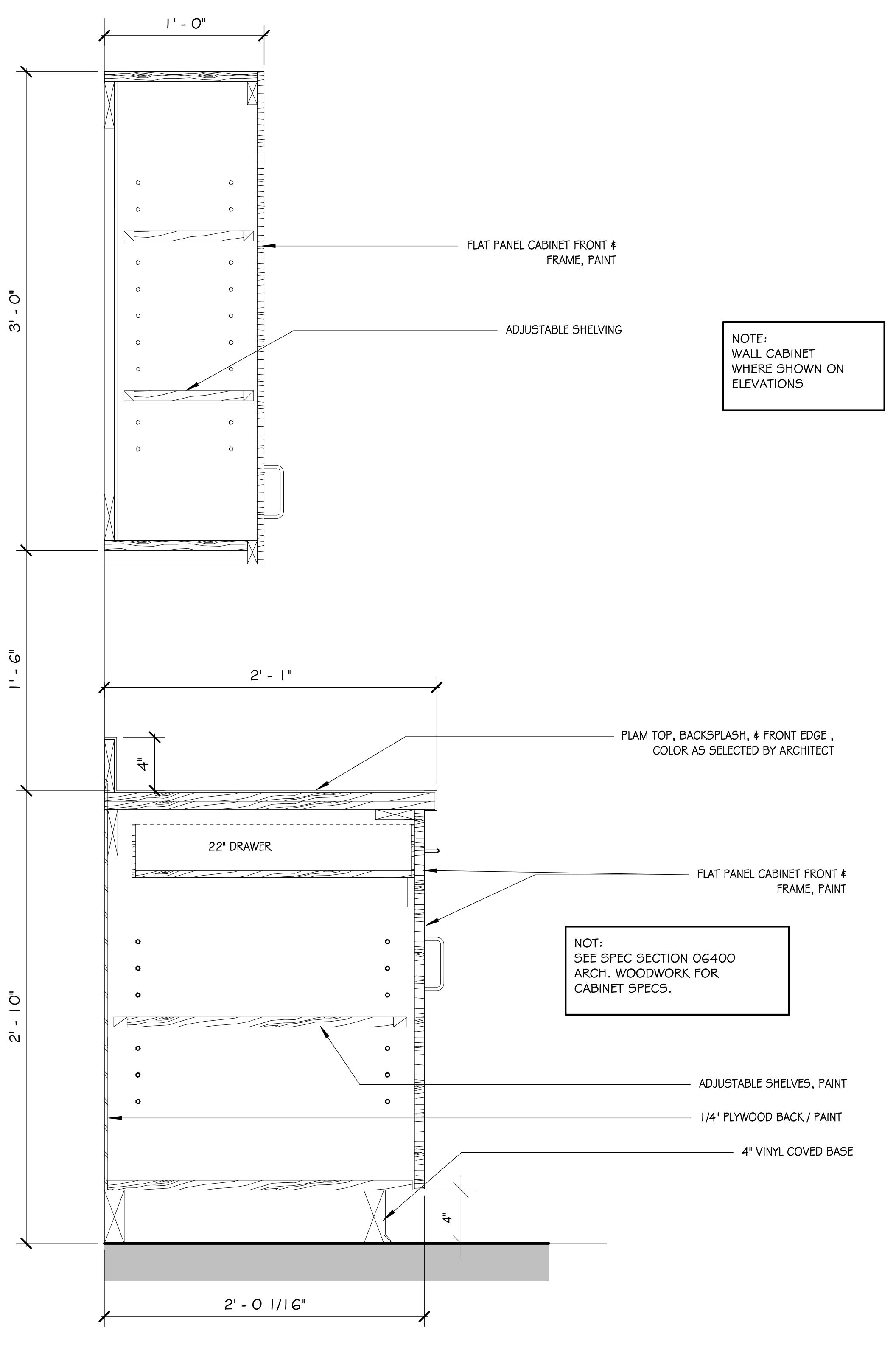
2 BASE CABINET @ SINK - CONF. RM 0116 & TRAINING RM M101
1 1/2" = 1'-0"



4 MAINTENANCE BUILDING BREAK ROOM KITCHINETTE @ SOUTH WALL
1/2" = 1'-0"


1' - 8"
PLAM. TOP, & FRONT EDGE, COLOR AS SELECTED BY ARCHITECT
2"
22" DRAWER
FLAT PANEL CABINET FRONT & FRAME, PAINT
3/4" PLYWOOD SHELVES ON ADJUSTABLE SHELF STANDERDS, PAINT
1/4" PLYWOOD BACK / PAINT
1/4"
8" WOOD BASE, PAINT
Foundation Plan..
100' - 00"
1' - 6"

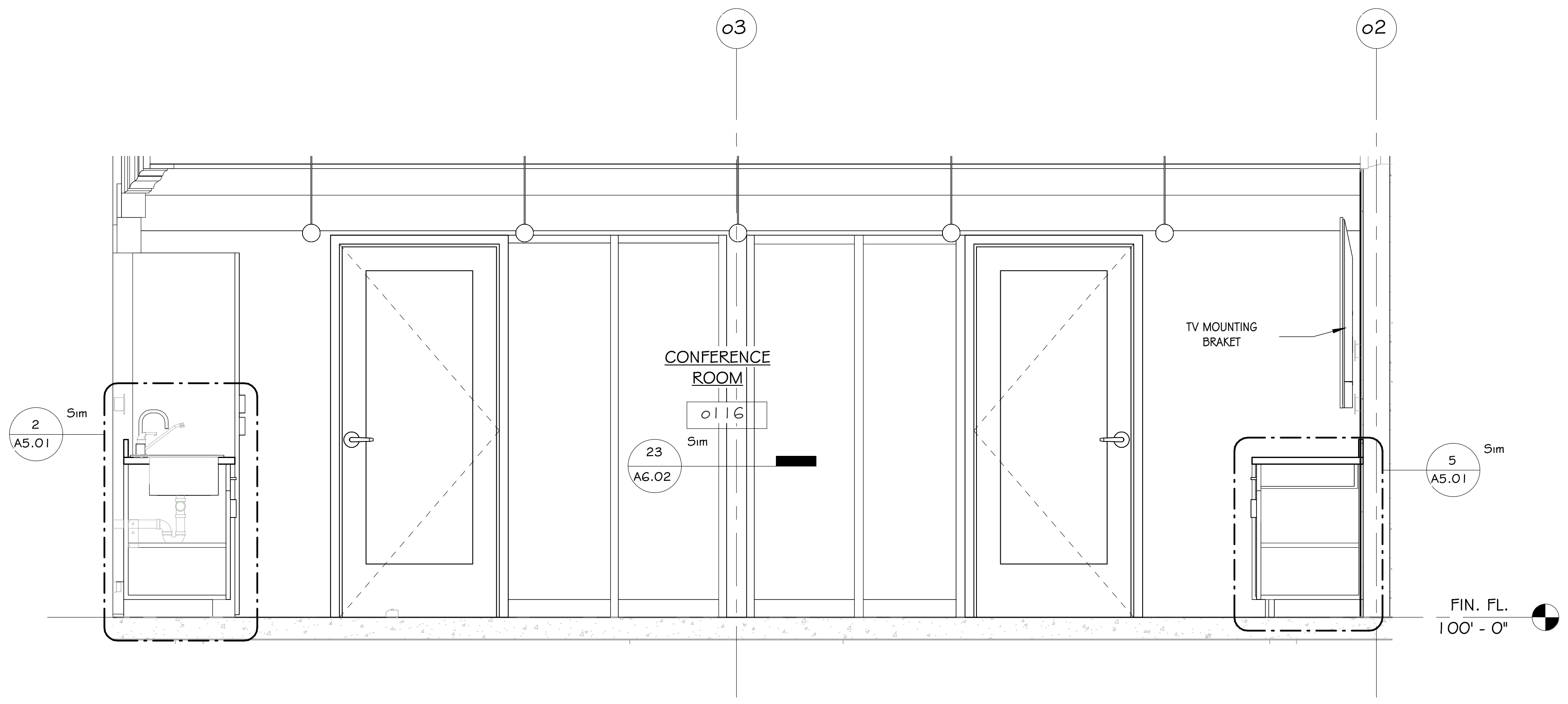
1 CABINET AT FRONT DESK
1 1/2" = 1'-0"


1' - 0"
3' - 0"
FLAT PANEL CABINET FRONT & FRAME, PAINT
ADJUSTABLE SHELVING
1' - 6"
2' - 1"
PLAM TOP, BACKSPLASH, & FRONT EDGE , COLOR AS SELECTED BY ARCHITECT
4"
22" DRAWER
FLAT PANEL CABINET FRONT & FRAME, PAINT
2' - 10"
ADJUSTABLE SHELVES, PAINT
1/4" PLYWOOD BACK / PAINT
4" VINYL COVED BASE
4"
2' - 0 1/16"

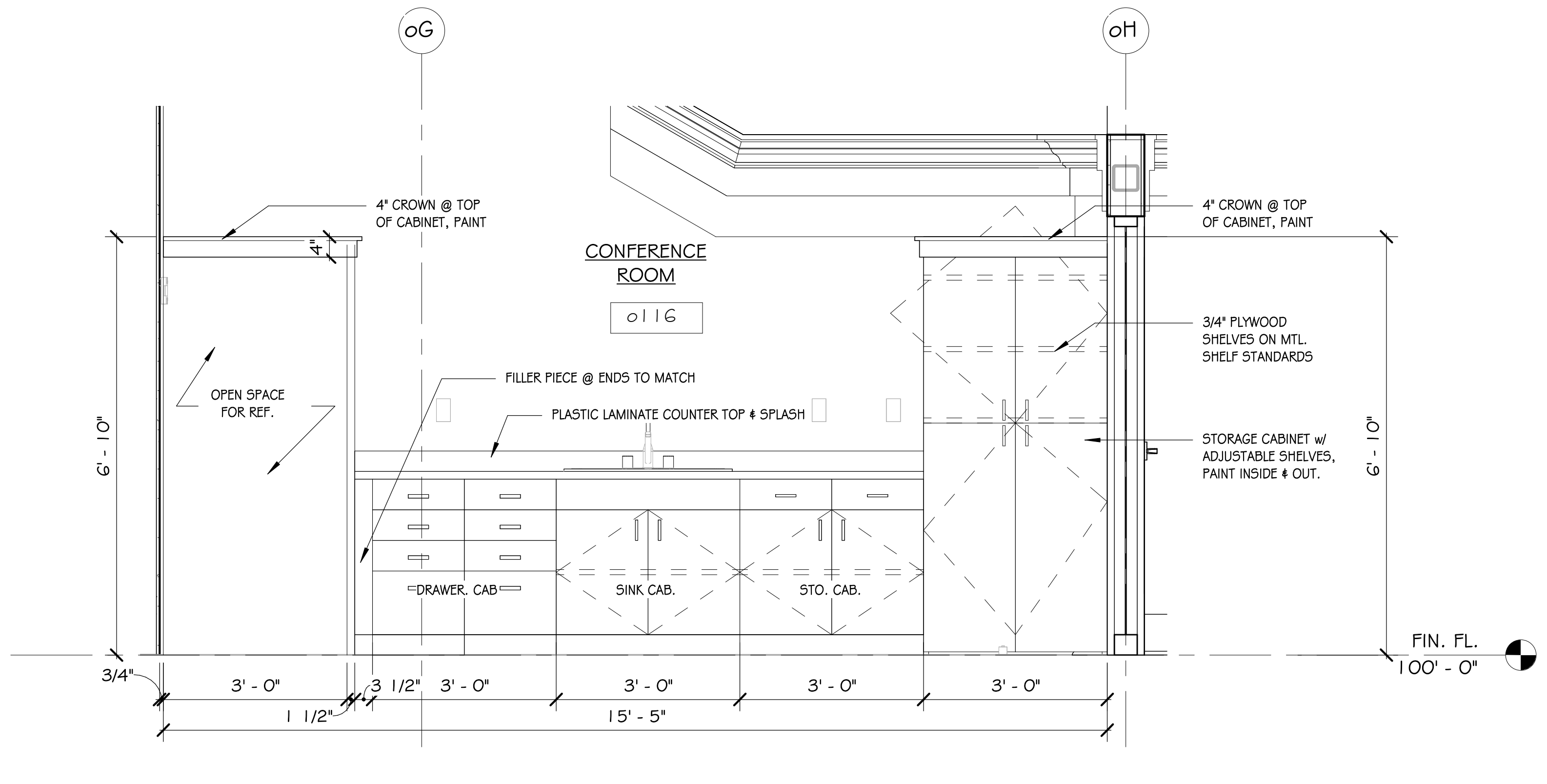
NOTE:
WALL CABINET
WHERE SHOWN ON
ELEVATIONS

NOT:
SEE SPEC SECTION 06400
ARCH. WOODWORK FOR
CABINET SPECS.

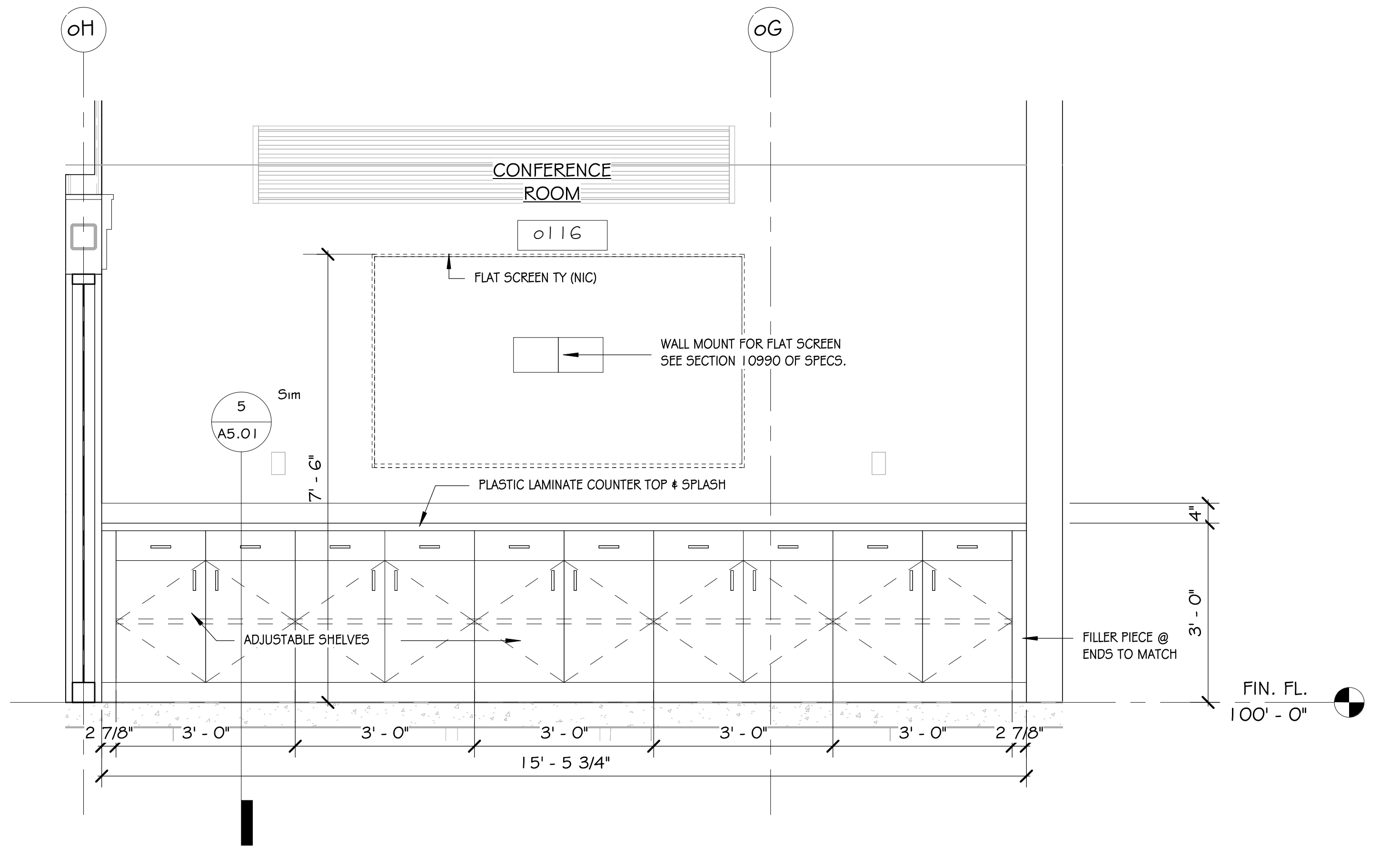
5 BASE CABINET @ CONFRENCE ROOM
1 1/2" = 1'-0"



1' SECTION / ELEVATION AT CONFRENCE ROOM 0116 LOOKING SOUTH
1/2" = 1'-0"


oG
oH
4" CROWN @ TOP OF CABINET, PAINT
4"
CONFERENCE ROOM
o116
4" CROWN @ TOP OF CABINET, PAINT
3/4" PLYWOOD SHELVES ON MTL. SHELF STANDARDS
OPEN SPACE FOR REF.
FILLER PIECE @ ENDS TO MATCH
PLASTIC LAMINATE COUNTER TOP & SPLASH
STORAGE CABINET w/ ADJUSTABLE SHELVES, PAINT INSIDE & OUT.
6' - 10"
6' - 10"
DRAWER. CAB
SINK CAB.
STO. CAB.
FIN. FL. 100' - 0"
3/4"
3' - 0"
3 1/2"
3' - 0"
3' - 0"
3' - 0"
3' - 0"
1 1/2"
15' - 5"

2' CONFERENCE ROOM - EAST WALL
1/2" = 1'-0"



3 CONFERENCE ROOM - WEST WALL
1/2" = 1'-0"

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CITY OF BATESVILLE
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MILLWORK / DETAILS

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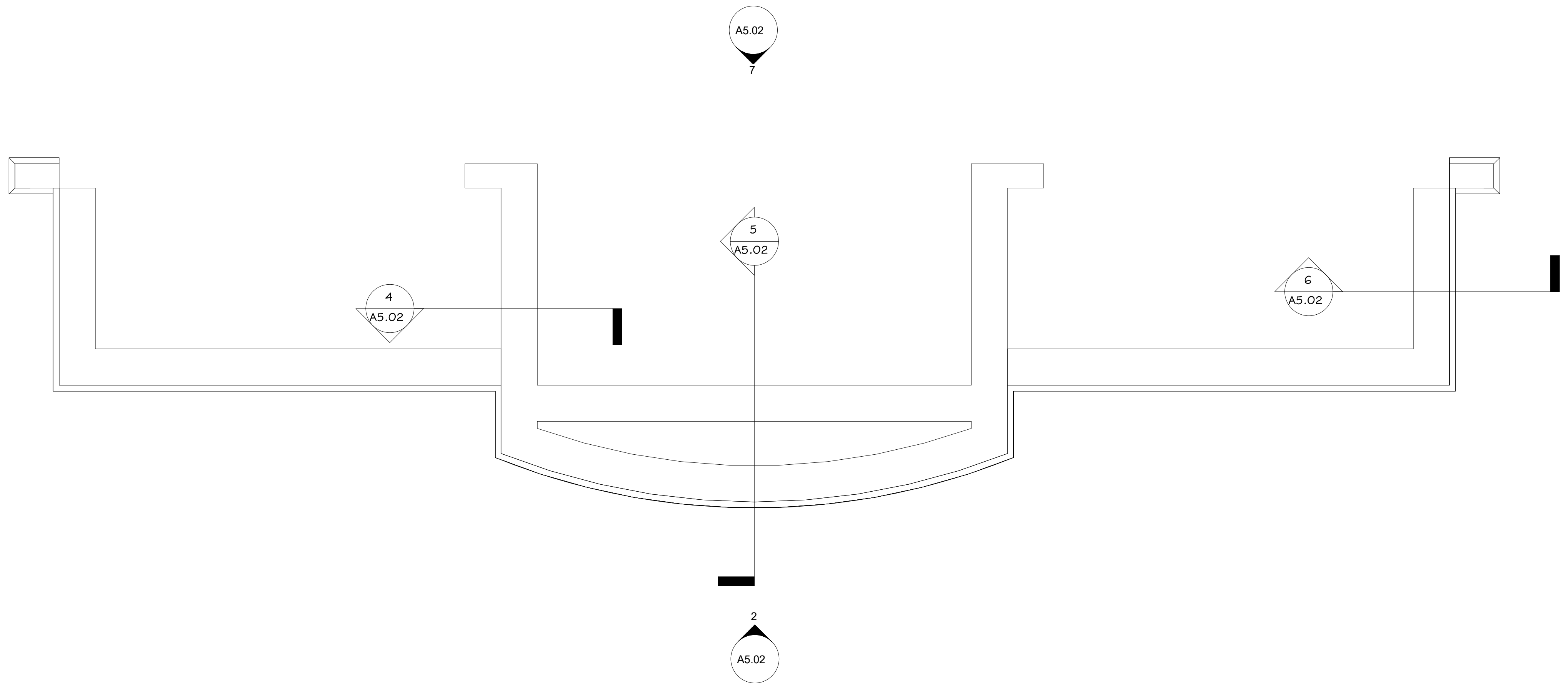
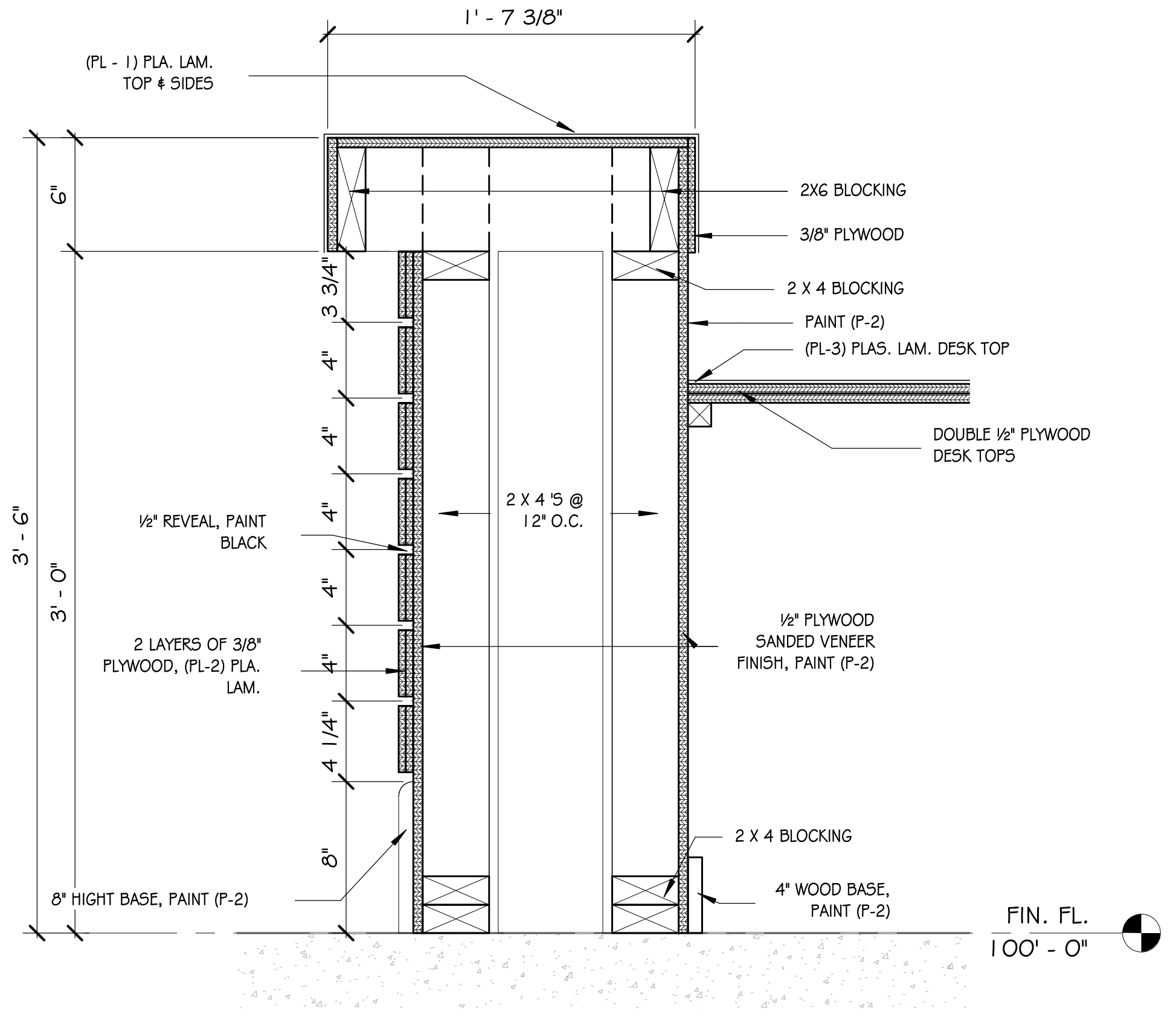


3 PLAN VEIW UNDER DESK
1" = 1'-0"


1' - 7 3/8"
(PL - 1) PLA. LAM. TOP & SIDES
2X6 BLOCKING
3/8" PLYWOOD
2 X 4 BLOCKING
PAINT (P-2)
(PL-3) PLAS. LAM. DESK TOP
DOUBLE ½" PLYWOOD DESK TOPS
2 X 4 'S @ 12" O.C.
½" REVEAL, PAINT BLACK
2 LAYERS OF 3/8" PLYWOOD, (PL-2) PLA. LAM.
½" PLYWOOD SANDED VENEER FINISH, PAINT (P-2)
2 X 4 BLOCKING
4" WOOD BASE, PAINT (P-2)
8" HIGHT BASE, PAINT (P-2)
FIN. FL.
100' - 0"
3' - 6"
3' - 0"
6"
3 3/4"
4"
4"
4"
4"
4"
4 1/4"
8"

5 SECTION - FRONT WALL OF CENTER UNIT
1 1/2" = 1'-0"

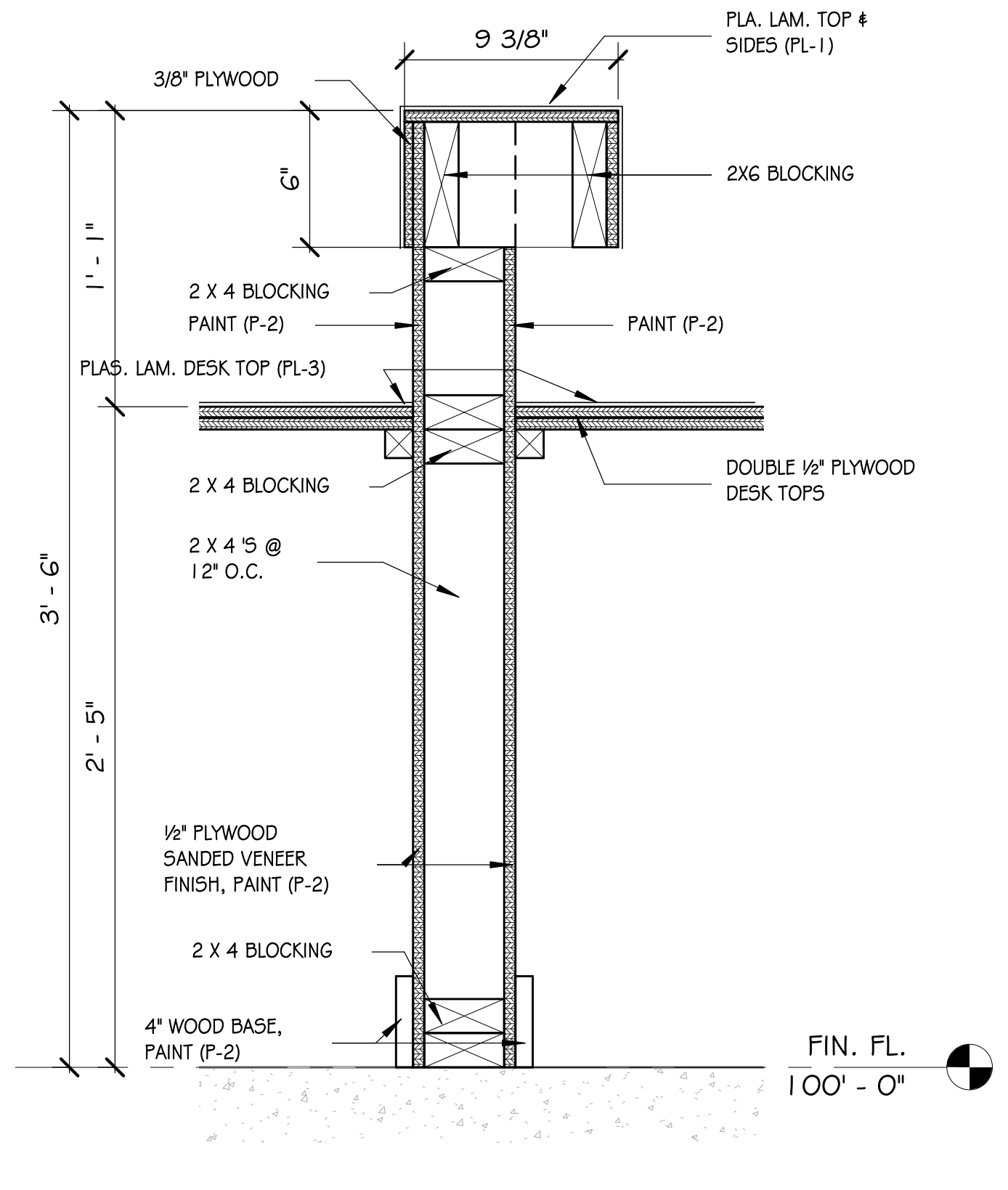
PLASTIC LAMINATE SCHEDULE:

PL - 1: FORMICA, SERIES 180 FX, NO. 5015-11
NAME : "BLACK PAINTED MARBLE" SATIN TOUCH TEXTURE

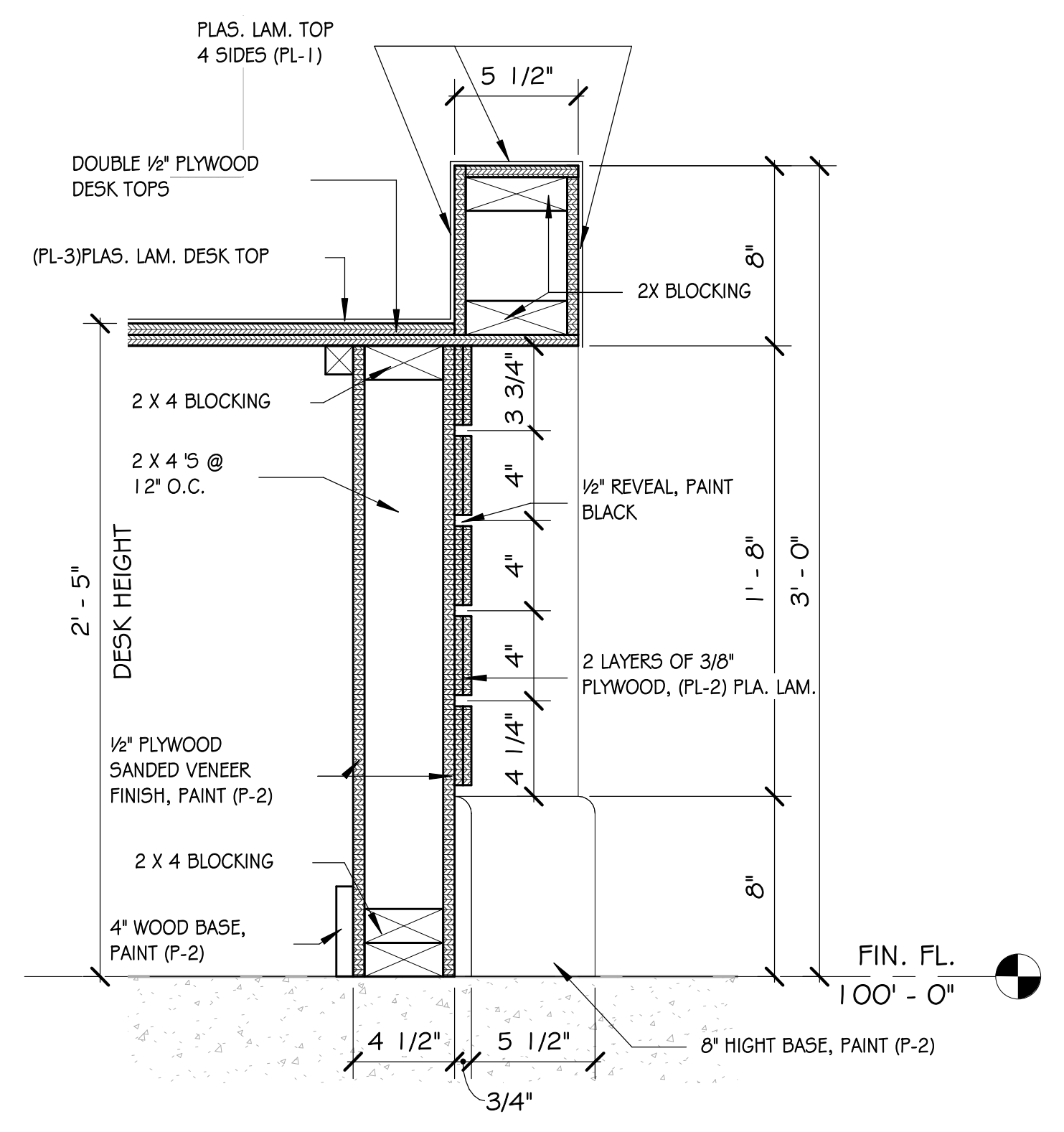
PL - 2: WILSONART, PREMIUM LAMIATE, NO. 4830K - 18
NAME :"SATIN STAINLESS" , LINEARITY FINISH, PATTERNS SERIES

PL - 3: FORMICA, PATTERNS SERIES NO. 503-58 NAME: "STONE GRAFIX",
MATTE FINISH

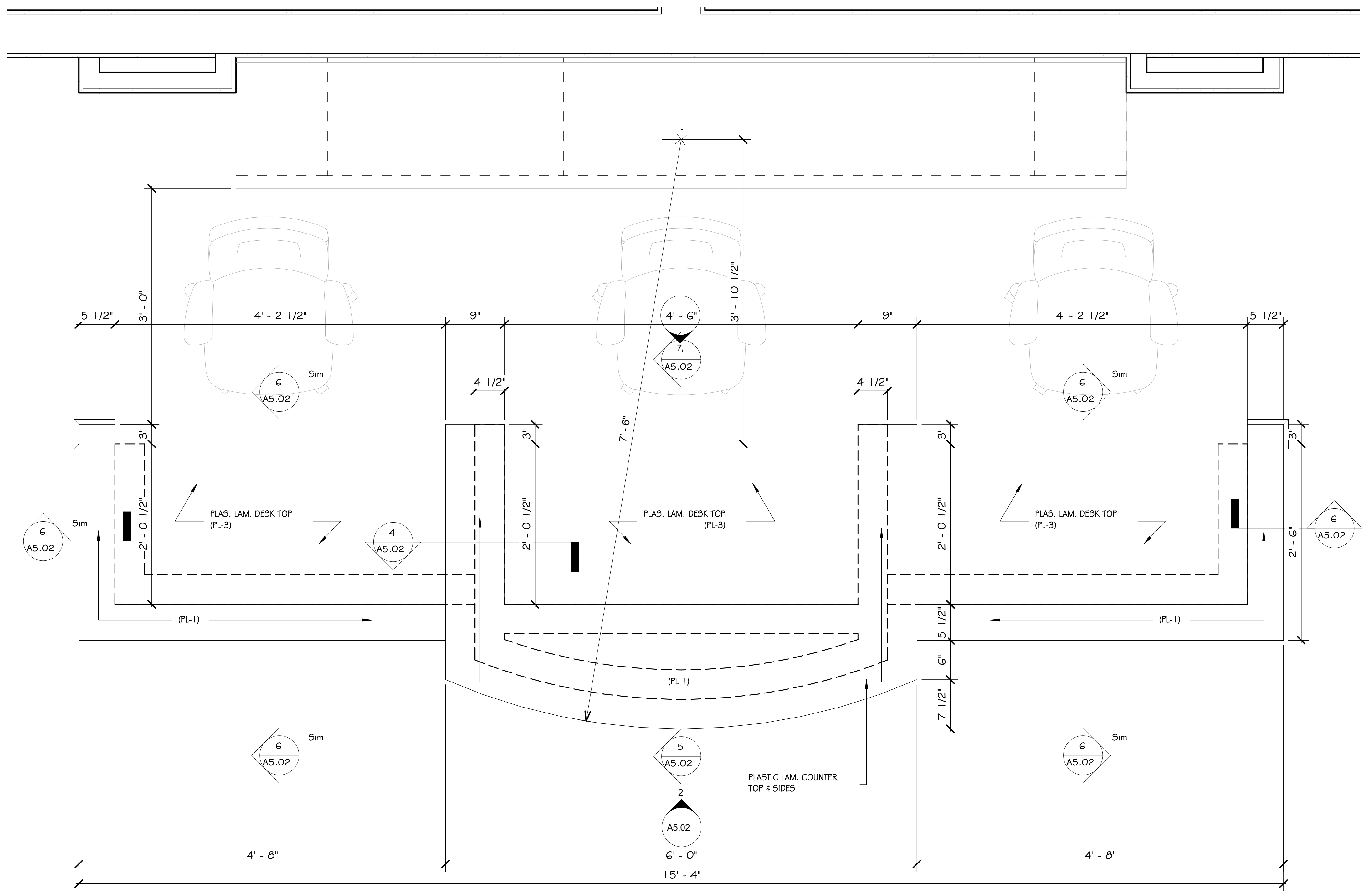
PAINT, WHERE CALLED FOR ON INSIDE OF RECEPTION DESK,& WOOD BASES:
SW 0054, "TWILIGHT GRAY" , SEMI - GLOSS ALKYD ENAMEL



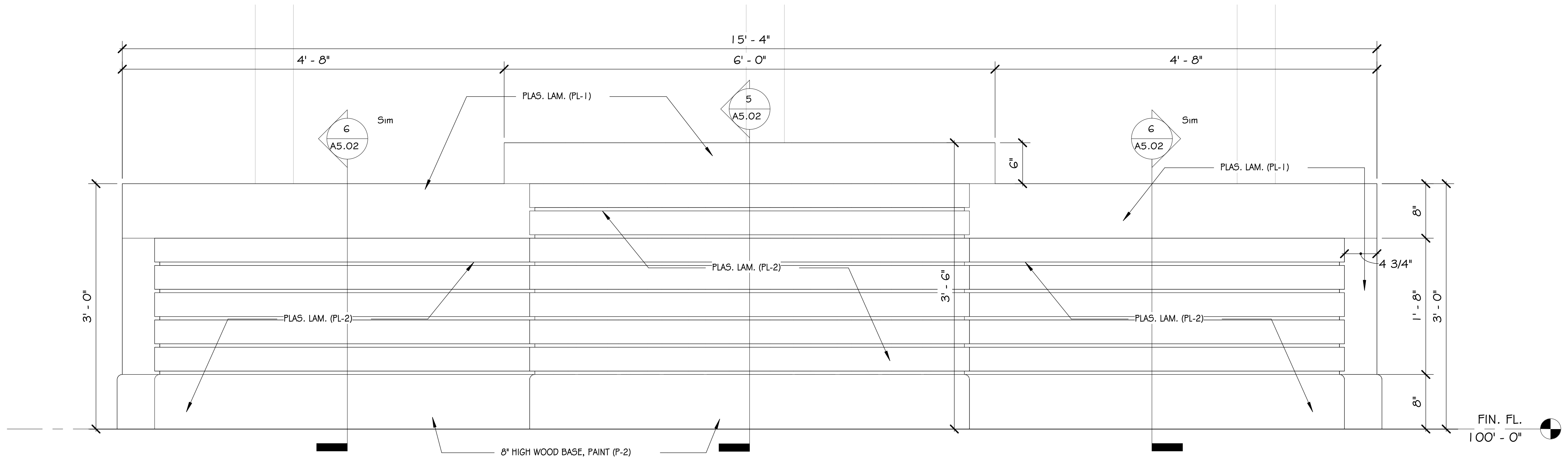
4 SECTION - SIDE WALL OF CENTER UNIT
1 1/2" = 1'-0"


PLAS. LAM. TOP 4 SIDES (PL-1)
5 1/2"
DOUBLE ½" PLYWOOD DESK TOPS
(PL-3)PLAS. LAM. DESK TOP
2X BLOCKING
2 X 4 BLOCKING
2 X 4 'S @ 12" O.C.
½" REVEAL, PAINT BLACK
2 LAYERS OF 3/8" PLYWOOD, (PL-2) PLA. LAM.
½" PLYWOOD SANDED VENEER FINISH, PAINT (P-2)
2 X 4 BLOCKING
4" WOOD BASE, PAINT (P-2)
8" HIGHT BASE, PAINT (P-2)
DESK HEIGHT
2' - 5"
8"
3 3/4"
4"
4"
4"
4 1/4"
8"
1' - 8"
3' - 0"
FIN. FL.
100' - 0"
4 1/2"
5 1/2"
3/4"

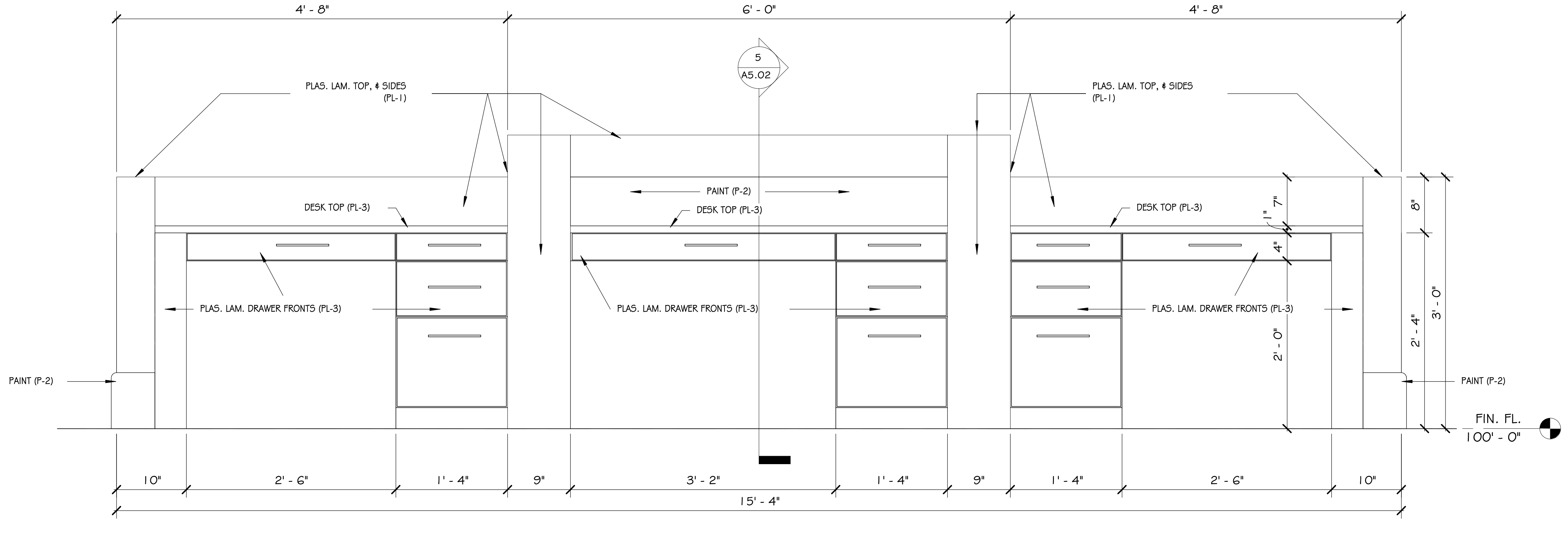
6 SECTION - SIDE WALL OF END UNIT
1 1/2" = 1'-0"



1 FRONT DESK TOP VIEW
1" = 1'-0"



2 FRONT ELEVATION
1" = 1'-0"



7 REAR ELEVATION
1" = 1'-0"

STAMPS

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STAMPS

Carl F. Menyhart, Jr.
No. 1007
7/29/22

ETC ENGINEERS &
ARCHITECTS, INC.
Environmental Technical Consultants, Inc.
ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
BUILDING A BETTER WORLD
1510 S. Broadway, Little Rock, AR 72202 - Phone (501) 375 - 1786 - FAX (501) 375 - 1277

CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

FRONT DESK MILLWORK

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: Author
Checked By: Checker

DATE: JULY 29, 2022

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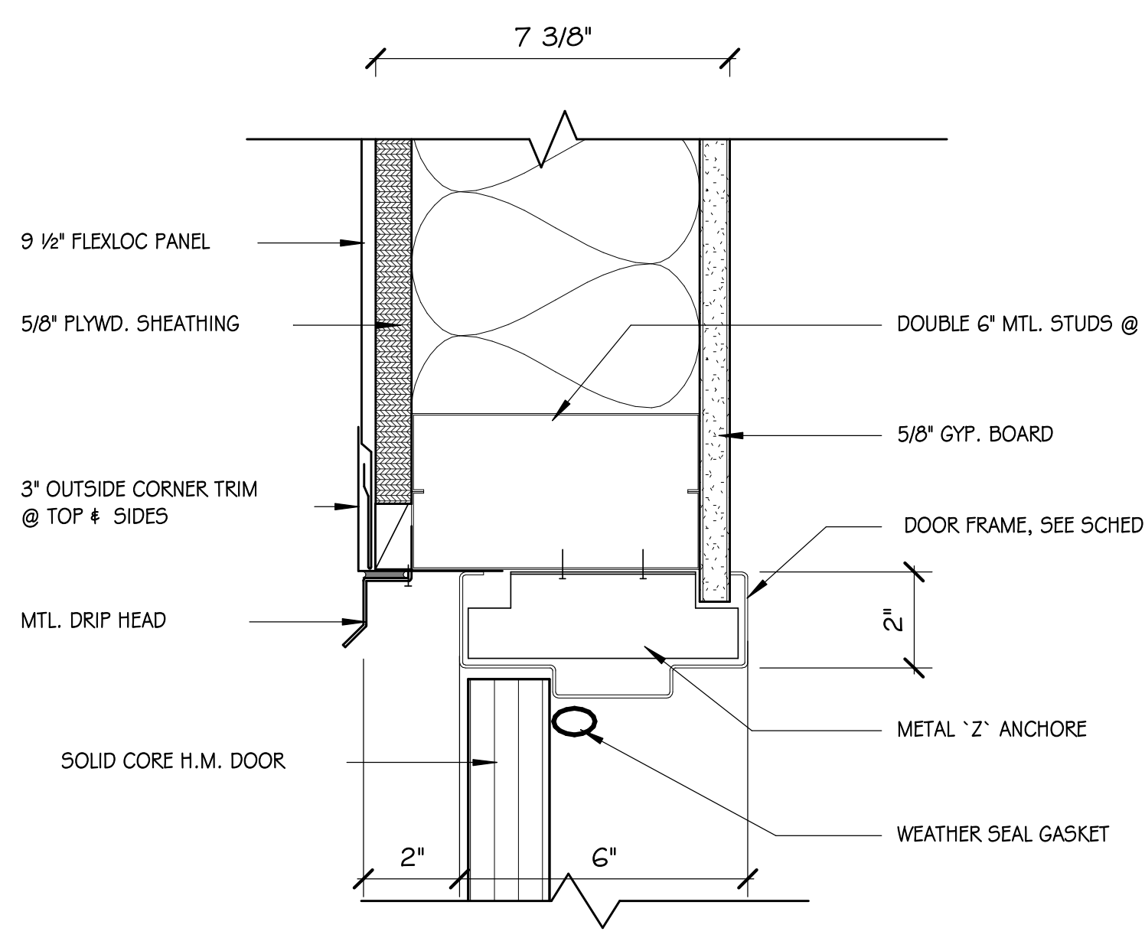
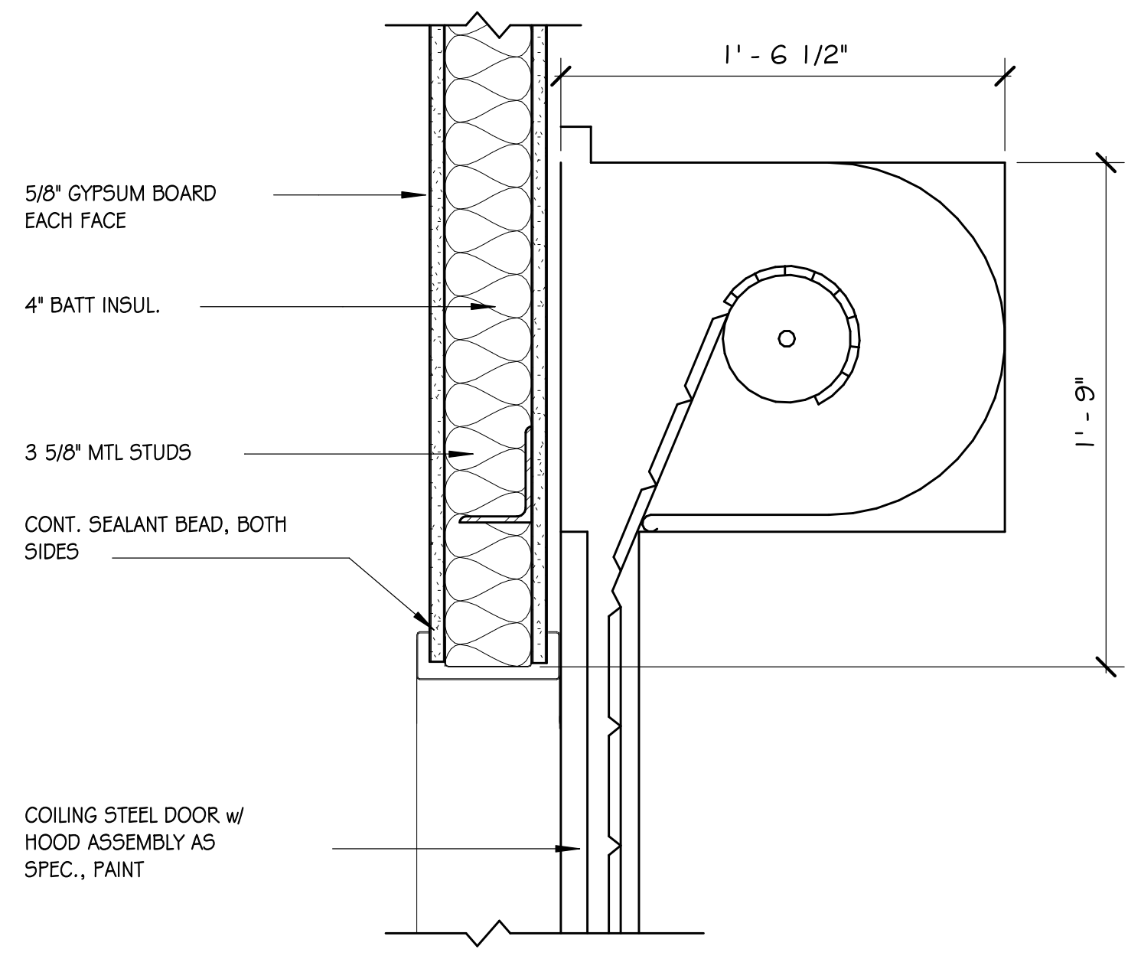
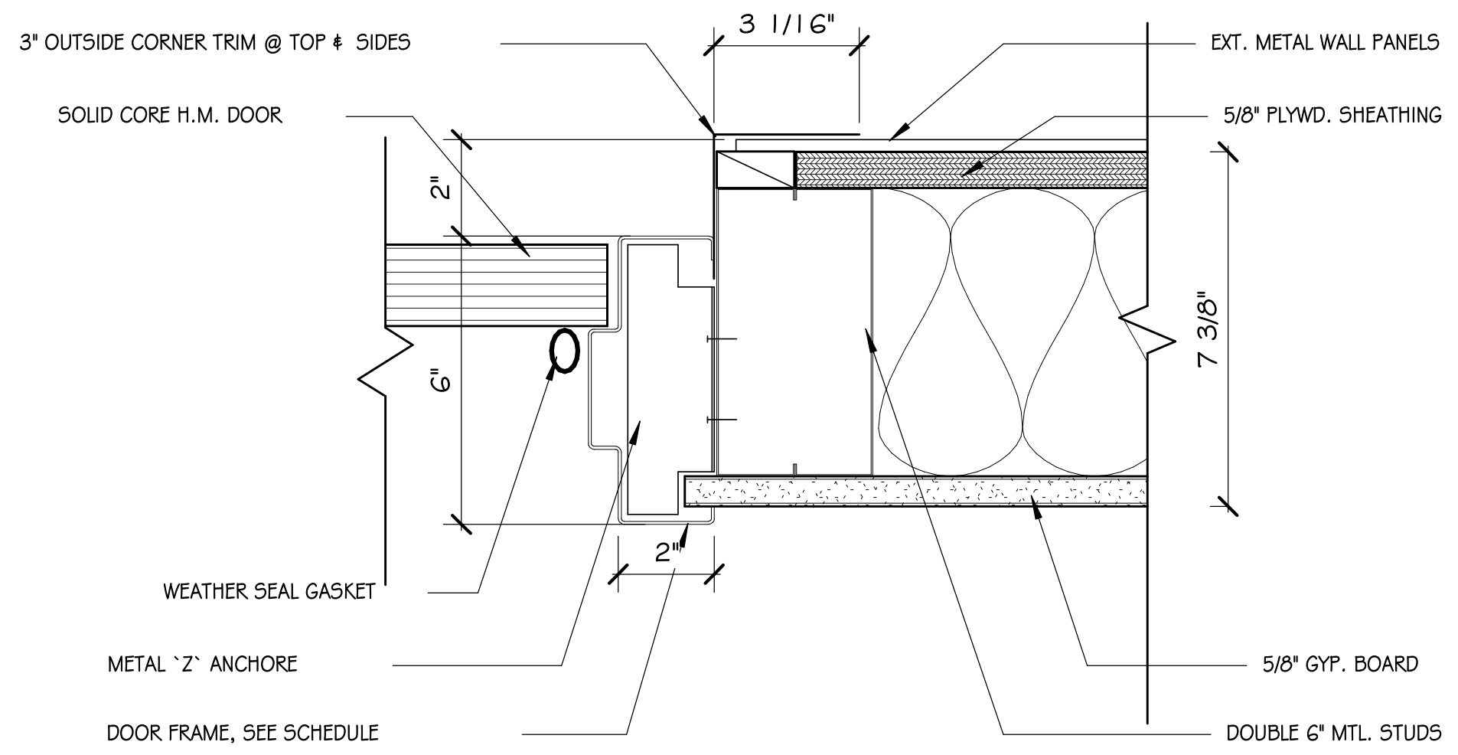


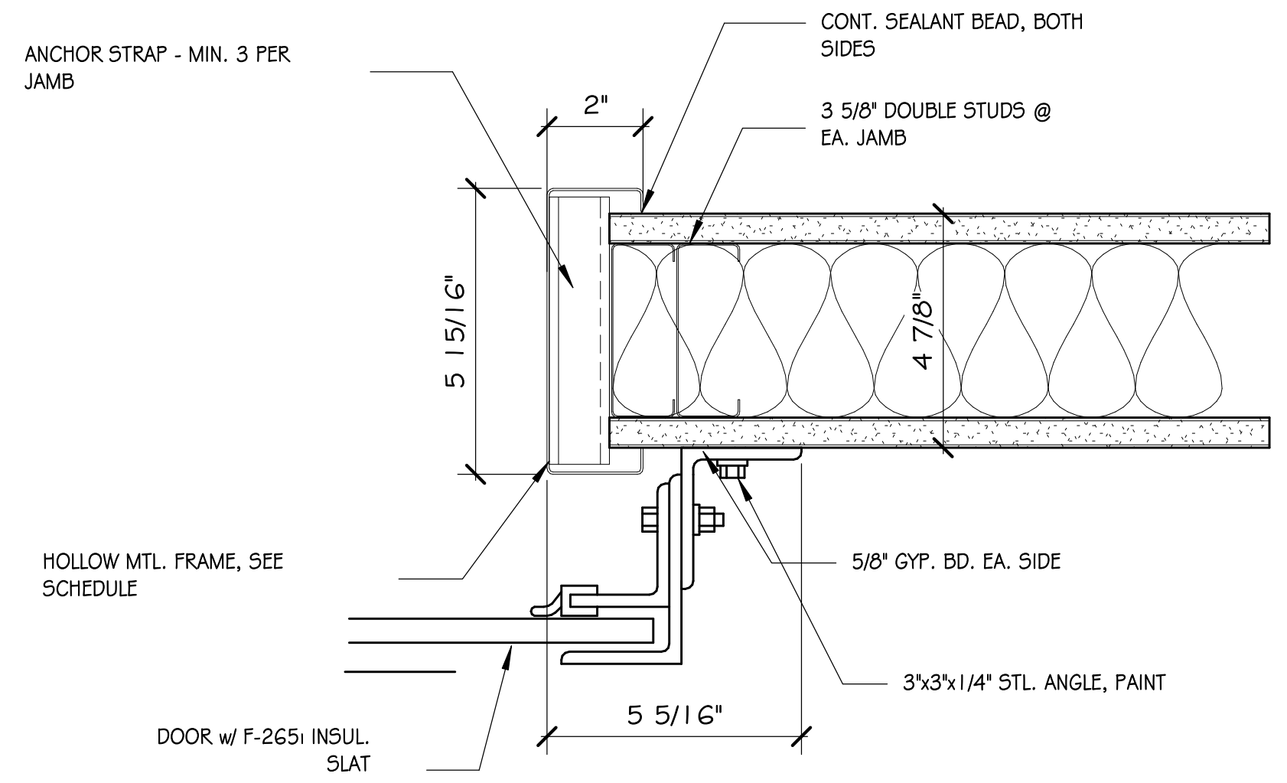
6 6" DOOR HEAD @ DOOR TO EXTERIOR
3" = 1'-0"


1' - 6 1/2"
5/8" GYPSUM BOARD EACH FACE
4" BATT INSUL.
3 5/8" MTL STUDS
CONT. SEALANT BEAD, BOTH SIDES
COILING STEEL DOOR w/ HOOD ASSEMBLY AS SPEC., PAINT
1' - 9"

4 COILING STEEL DOOR HEAD DTL.
1 1/2" = 1'-0"



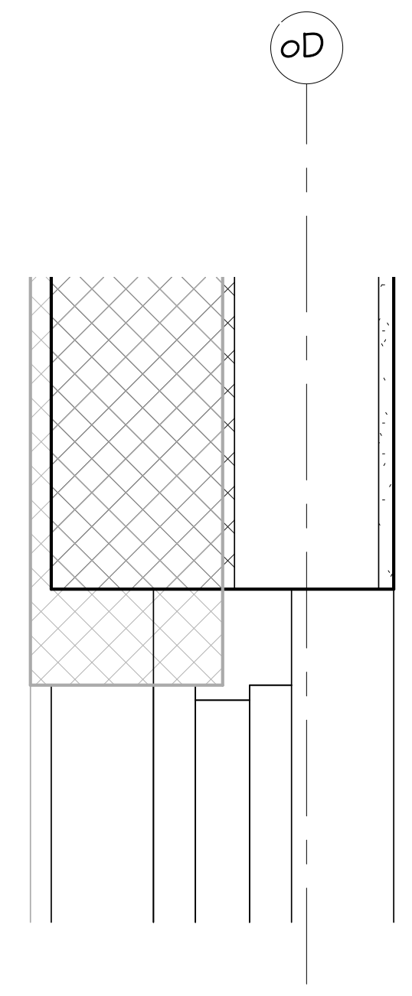
7 6" DOOR JAMB @ DOOR TO EXTERIOR
3" = 1'-0"


ANCHOR STRAP - MIN. 3 PER JAMB
CONT. SEALANT BEAD, BOTH SIDES
3 5/8" DOUBLE STUDS @ EA. JAMB
2"
5 15/16"
4 7/8"
HOLLOW MTL. FRAME, SEE SCHEDULE
5/8" GYP. BD. EA. SIDE
3"x3"x1/4" STL. ANGLE, PAINT
5 5/16"
DOOR w/ F-265i INSUL. SLAT

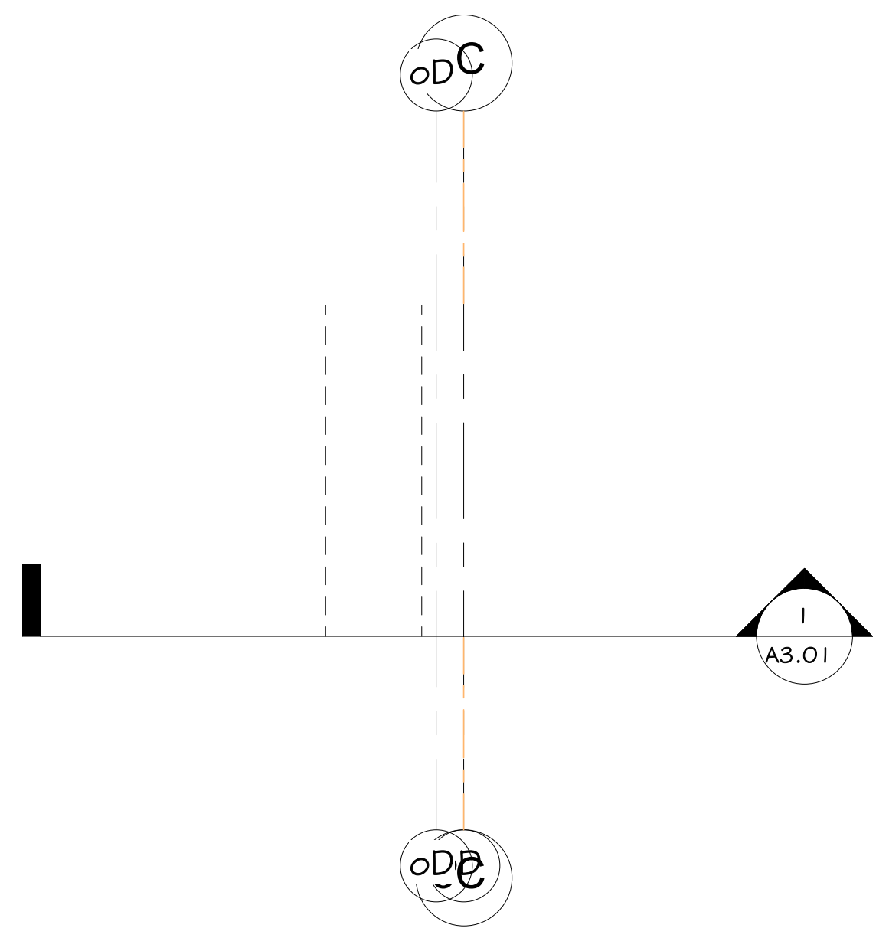
5 COILING STEEL DOOR JAMB DETAIL
3" = 1'-0"

Door Schedule

Door No.	Type	Door Width	Door Height	Door Thickness	Door Material	Door Finish	Door Under Cut	Fire Rating	Hardware	Frame Type
M100.1	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M100.2	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M100.3	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
M100.4	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M100.5	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M100.6	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
M100.7	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M100.8	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M100.9	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M100.10	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M100.11	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
M100.12	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M100.13	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M100.14	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
M100.15	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M100.16	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
M101.1	B	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
M101.2	B	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
M103	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		AL-2
M104	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		AL-2
M105	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		HM-1
M106	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		HM-1
M107.1	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
M107.2	B	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
M108.1	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
M108.2	B	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
M109	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		AL-2
M110.1	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		HM-1
M110.2	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		HM-1
M111	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		HM-1
o100	F	6' - 0"	7' - 0"	1 3/4"	ALUM.			NONE		AL-1
o101	F	6' - 0"	7' - 0"	1 3/4"	ALUM.			NONE		AL-1
o102	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
o103	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
o104	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
o105	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
o106	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
o107	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
o108	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		HM-1
o109	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
o110	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		HM-1
o111	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		HM-1
o112	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		HM-1
o113	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
o114.1	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
o114.2	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
o114.3	D	6' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
o115.1	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		AL-2
o115.2	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		AL-2
o116.1	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		AL-2
o116.2	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		AL-2
o117	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
o118.1	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		HM-1
o118.2	G	6' - 0"	9' - 0"		METAL	PAINT	-	NONE		-
o119	C	3' - 0"	7' - 0"	1 3/4"	WOOD/GLASS	STAIN/VARN.	1/2"	NONE		HM-1
o120	A	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN/VARN.	1/2"	NONE		HM-1
V100.1	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
V100.2	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
v100.3	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1
v100.4	G	14' - 0"	14' - 0"	1"	METAL	PAINT	-	NONE		-
v105.1	E	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	-	NONE		HM-1

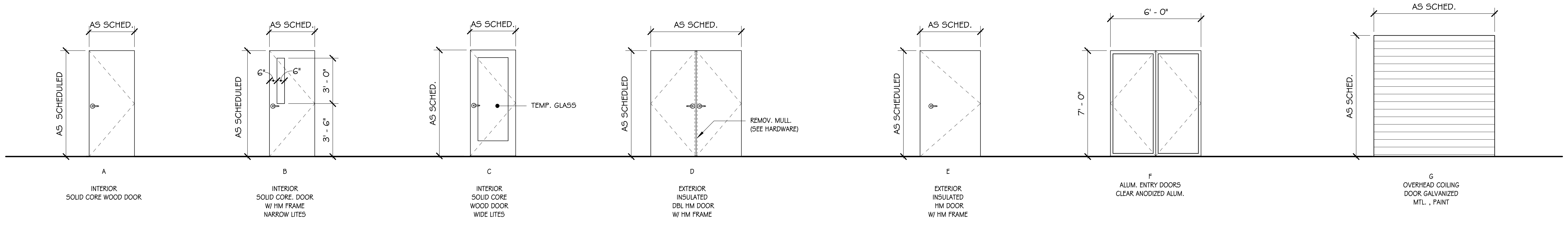


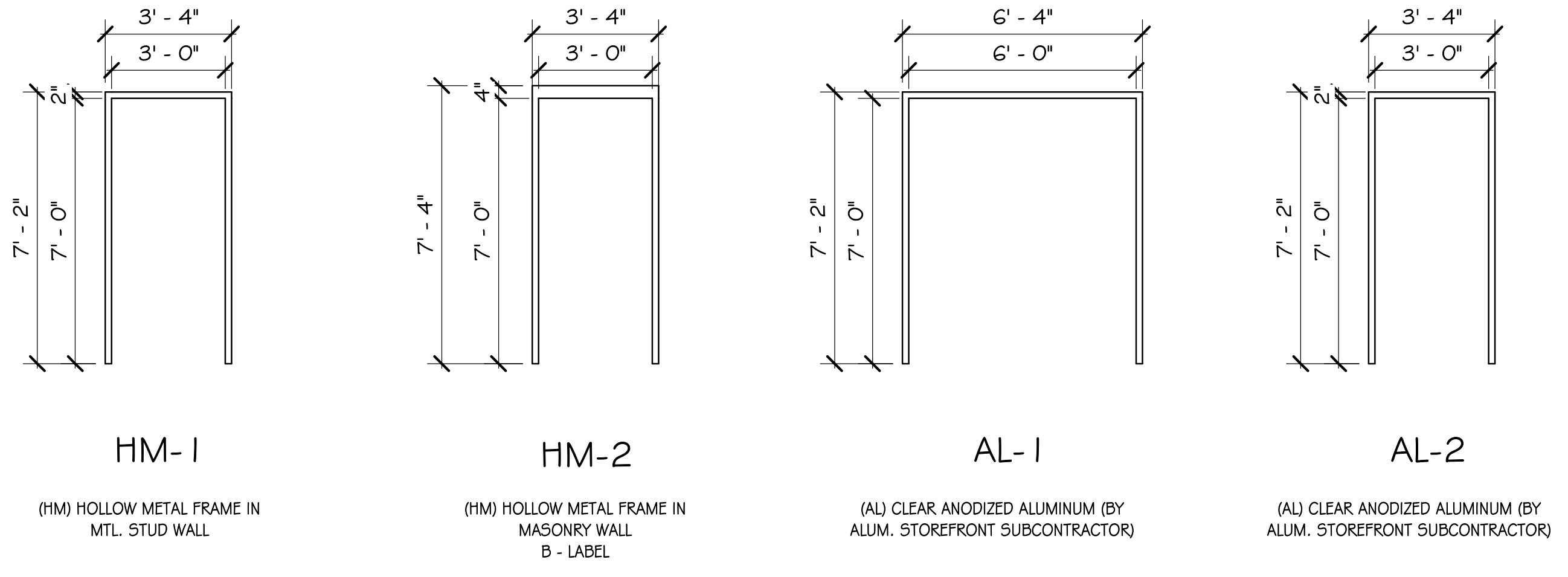
1 H.M. HEAD DTL. @ SAFE RM.
1 1/2" = 1'-0"



9 H.M. JAMB DTL. @ SAFE RM.
3/4" = 1'-0"

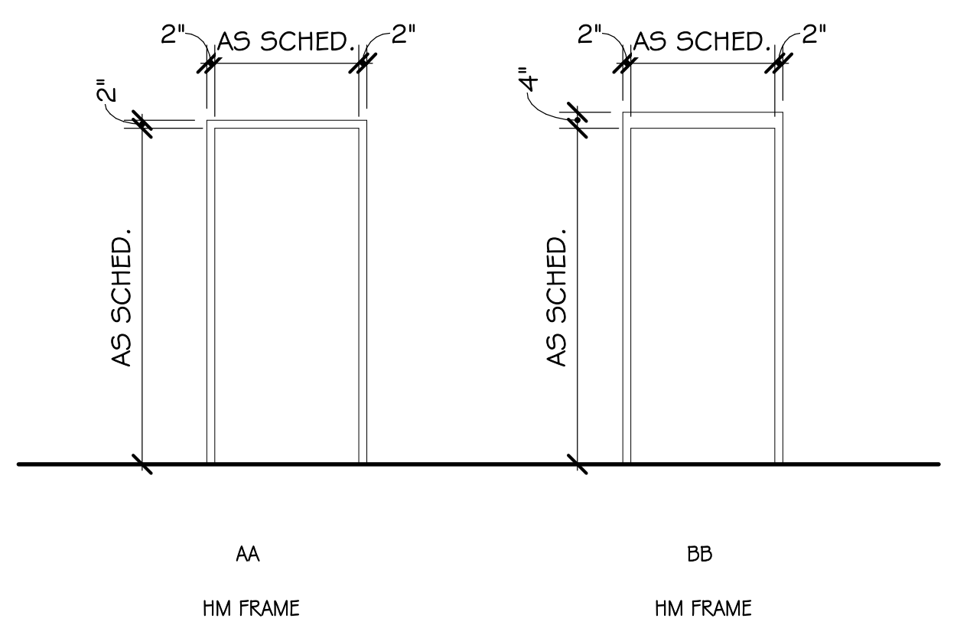
DOOR LEGEND

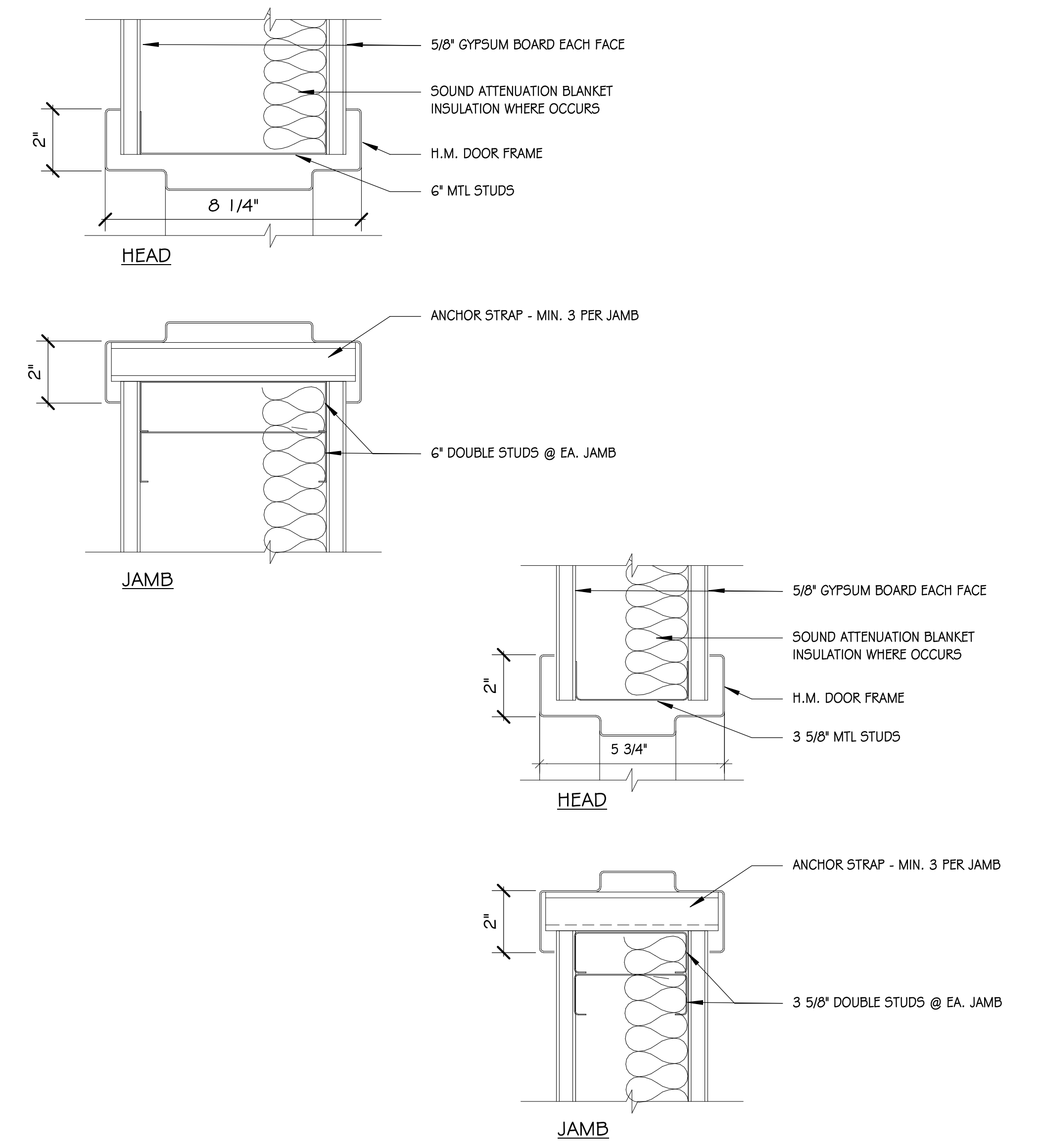



3' - 4"
3' - 0"
2"
7' - 2"
7' - 0"
HM-1
(HM) HOLLOW METAL FRAME IN
MTL. STUD WALL
3' - 4"
3' - 0"
4"
7' - 4"
7' - 0"
HM-2
(HM) HOLLOW METAL FRAME IN
MASONRY WALL
B - LABEL
6' - 4"
6' - 0"
7' - 2"
7' - 0"
AL-1
(AL) CLEAR ANODIZED ALUMINUM (BY
ALUM. STOREFRONT SUBCONTRACTOR)
3' - 4"
3' - 0"
2"
7' - 2"
7' - 0"
AL-2
(AL) CLEAR ANODIZED ALUMINUM (BY
ALUM. STOREFRONT SUBCONTRACTOR)

8 DOOR FRAME ELEVATIONS
1/4" = 1'-0"

FRAME TYPES




5/8" GYPSUM BOARD EACH FACE
SOUND ATTENUATION BLANKET
INSULATION WHERE OCCURS
H.M. DOOR FRAME
6" MTL STUDS
2"
8 1/4"
HEAD
ANCHOR STRAP - MIN. 3 PER JAMB
2"
6" DOUBLE STUDS @ EA. JAMB
JAMB
5/8" GYPSUM BOARD EACH FACE
SOUND ATTENUATION BLANKET
INSULATION WHERE OCCURS
H.M. DOOR FRAME
3 5/8" MTL STUDS
2"
5 3/4"
HEAD
ANCHOR STRAP - MIN. 3 PER JAMB
2"
3 5/8" DOUBLE STUDS @ EA. JAMB
JAMB

3 INT. H.M. DOOR JAMB DETAILS
3" = 1'-0"

STAMPS
REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STAMPS
CARL F. MENYHART, JR.
No. 1007
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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
DOOR SCHEDULE / TYPES / DTLS.

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: Author
Checked By: Checker
DATE: JULY 29, 2022

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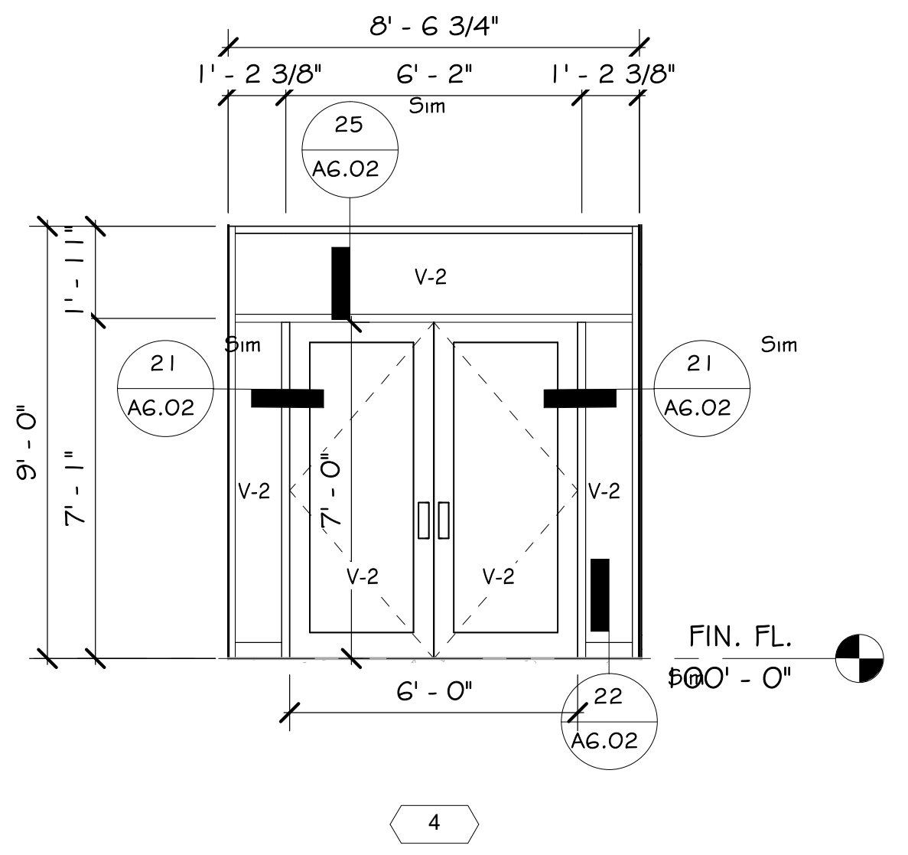
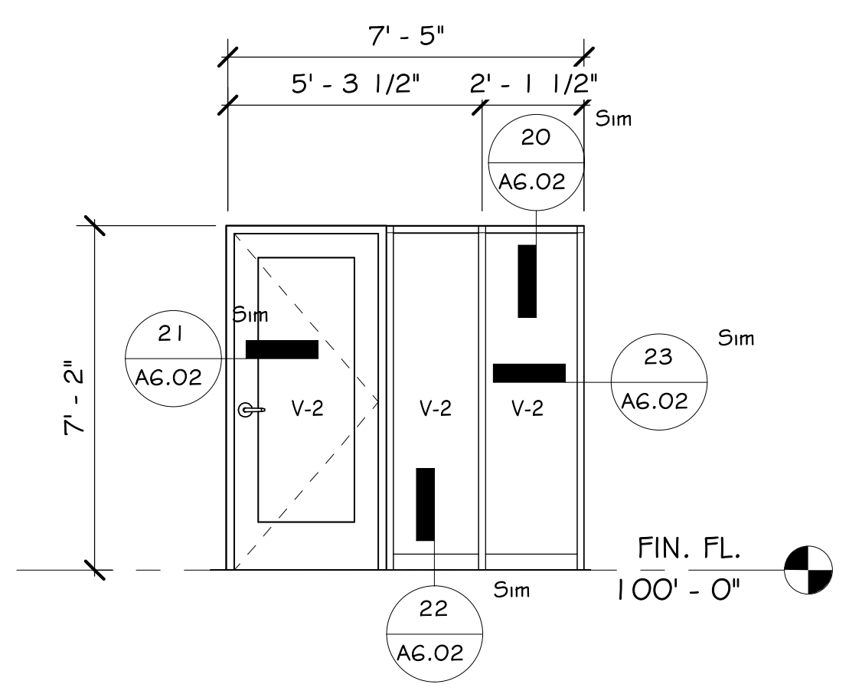
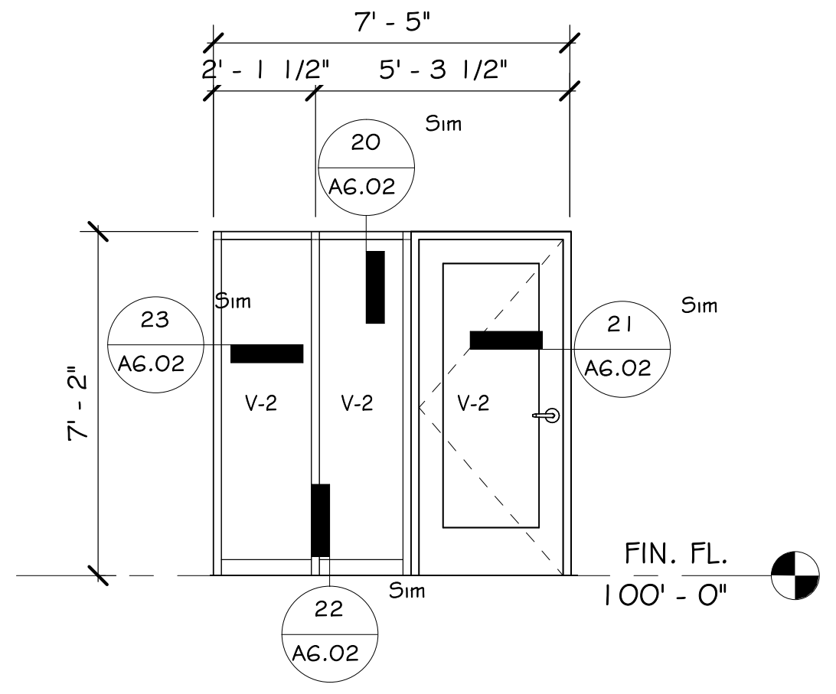
INTERIOR GLASS SETTING ELEVATION



4 INT. GLASS SETTING @ ENTRANCE
1/4" = 1'-0"   1 THUS   SYSTEM AL-2

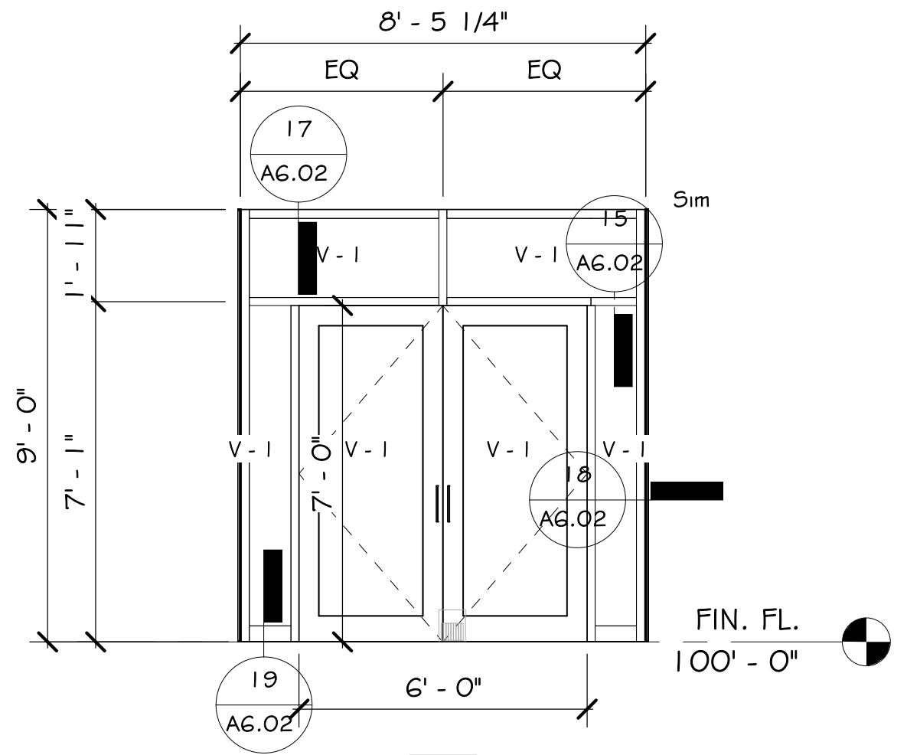


5 INT. GLASS SETTING @ PLAN / CONFRENCE ROOM 1
1/4" = 1'-0"   2 THUS   SYSTEM AL-2

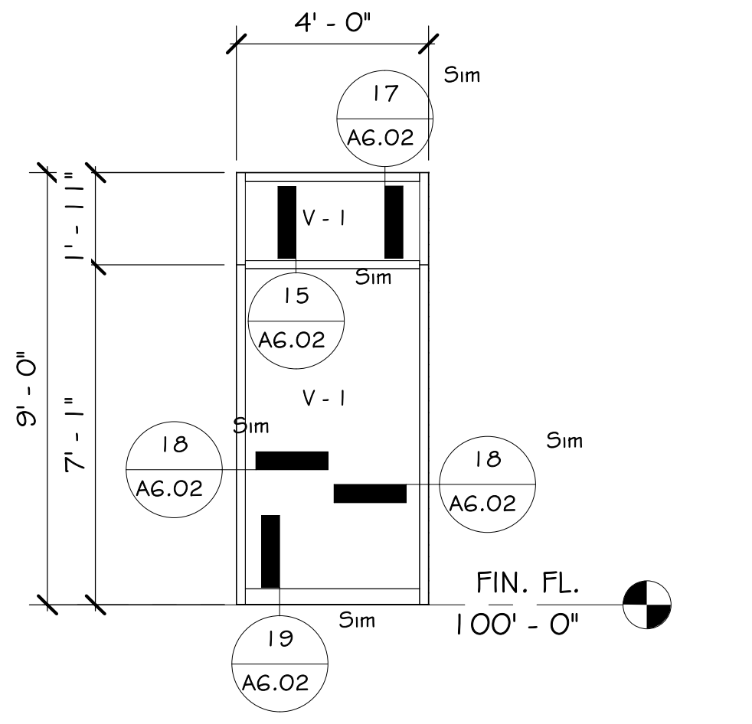


5A INT. GLASS SETTING @ PLAN / CONFRENCE ROOM
1/4" = 1'-0"   2 THUS   SYSTEM AL-2

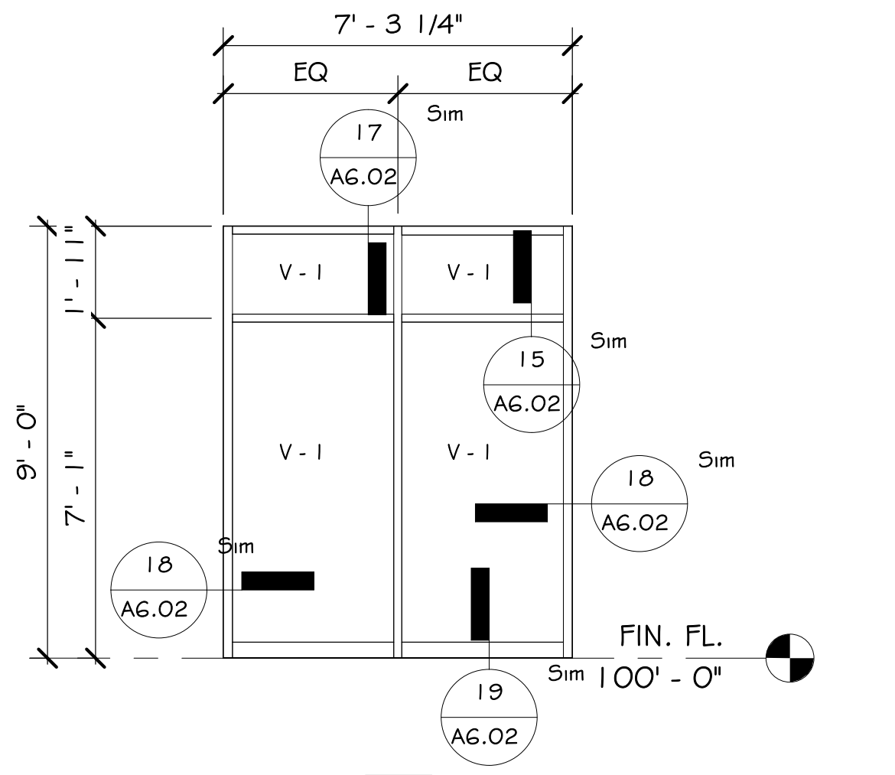
EXTERIOR GLASS SETTING ELEVATION



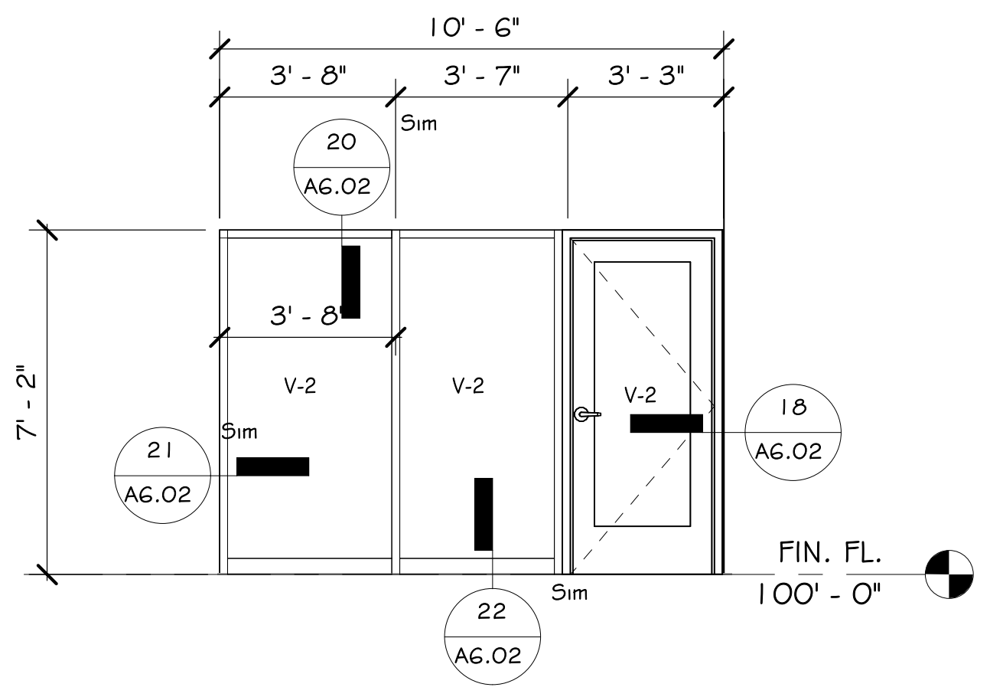
1 OFFICE BUILDING FRONT ENTRANCE
1/4" = 1'-0"   1 THUS   SYSTEM AL-1



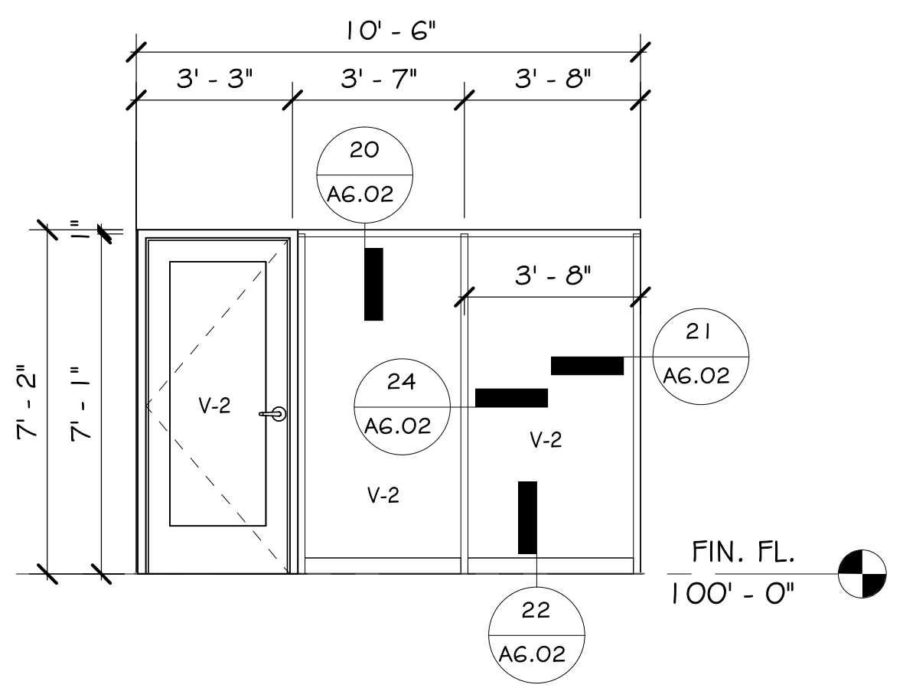
2 OFFICE BUILDING TYP. EXTERIOR WIN.
1/4" = 1'-0"   7 THUS   SYSTEM AL-1



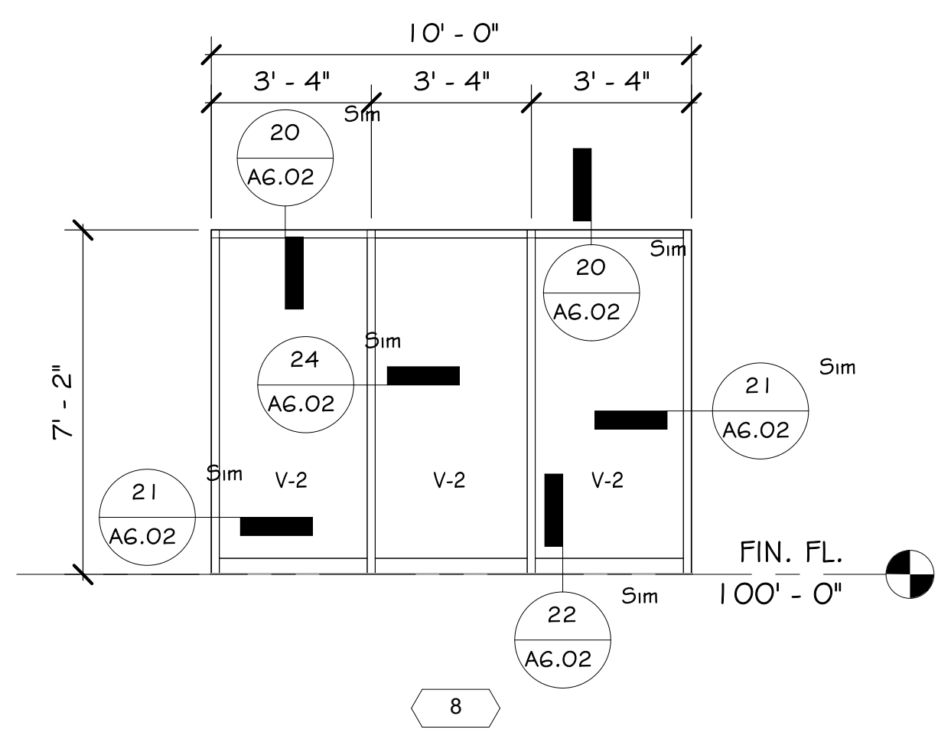
3 OFFICE BUILDING EXTERIOR WIN.3
1/4" = 1'-0"   2 THUS   SYSTEM AL-1



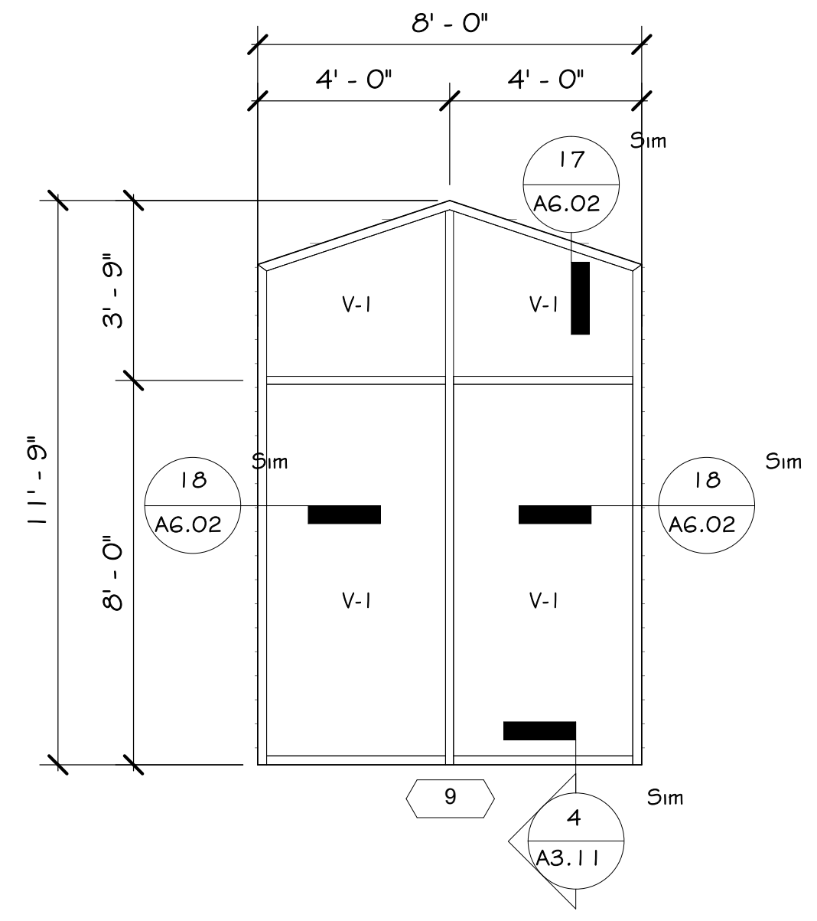
6 INT. GLASS SETTING @ OFFICE 4
1/4" = 1'-0"   1 THUS   SYSTEM AL-2



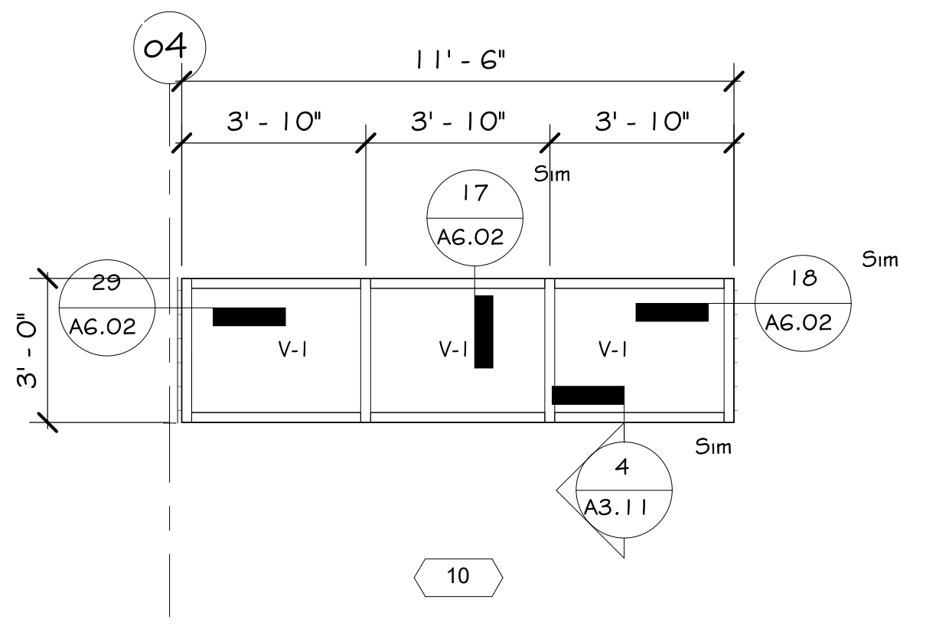
7 INT. GLASS SETTING @ OFFICE 3
1/4" = 1'-0"   1 THUS   SYSTEM AL-2



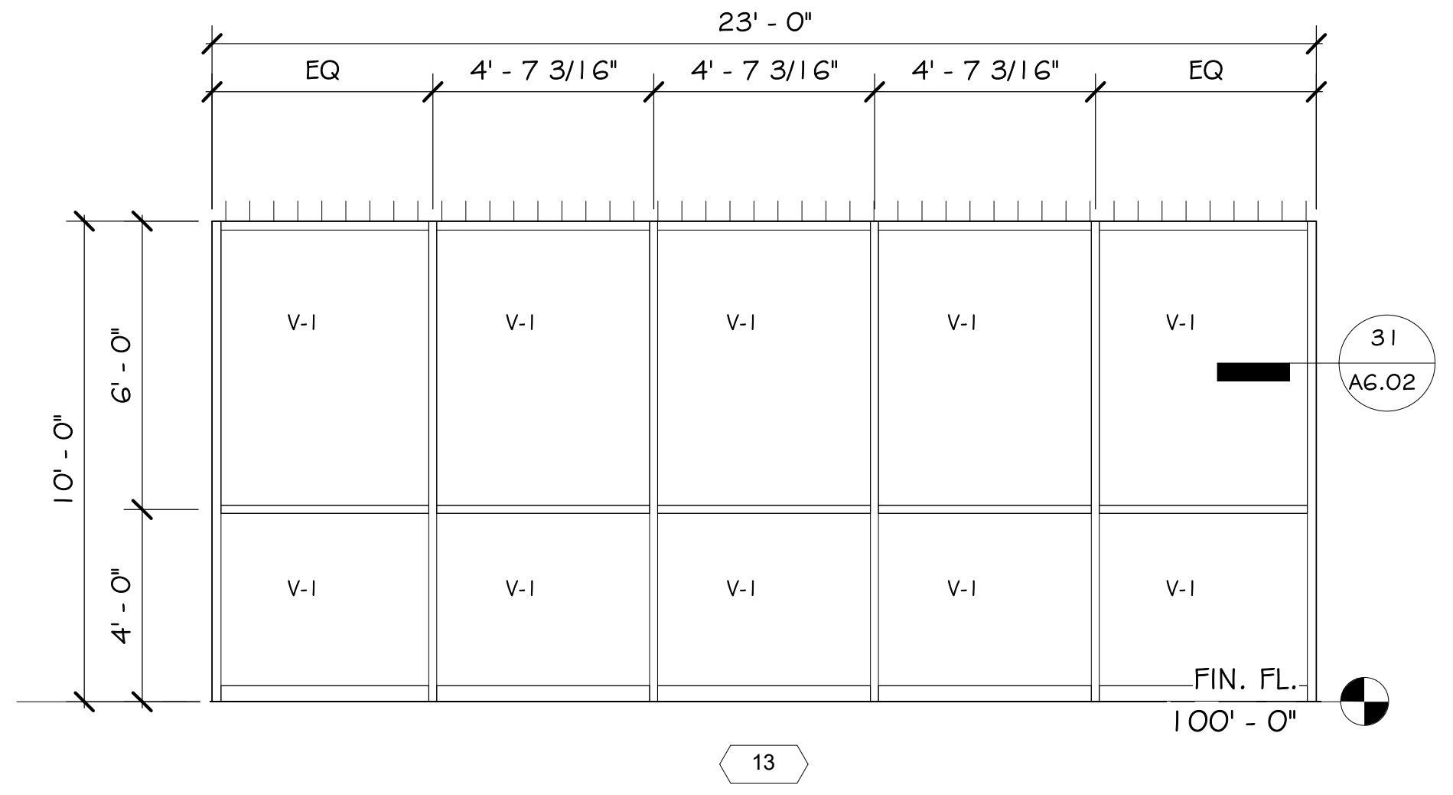
8 INT. GLASS SETTING (TYP.)
1/4" = 1'-0"   4 THUS   SYSTEM AL-2



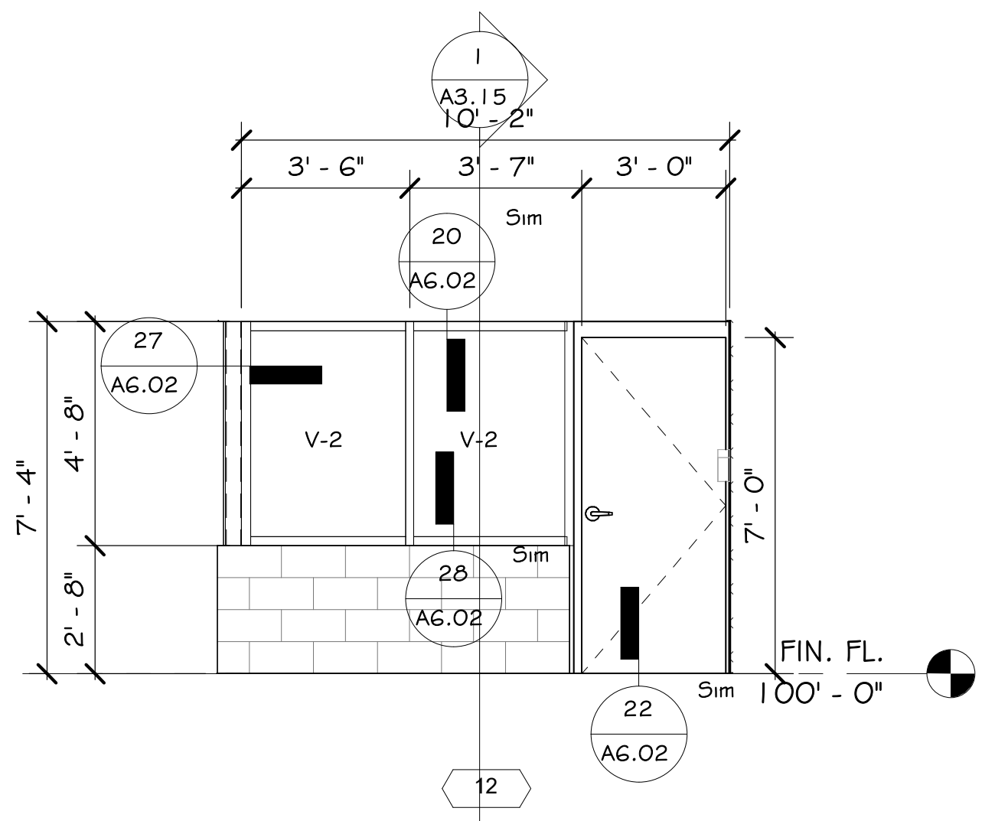
9 CLEARSTORY FRONT
1/4" = 1'-0"   1 THUS   SYSTEM AL-1



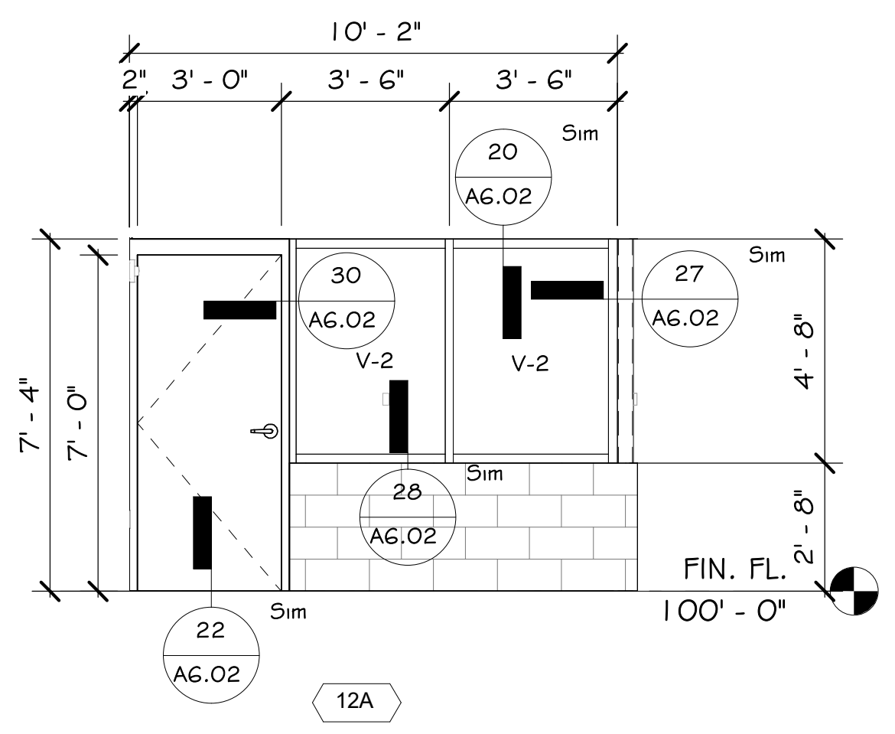
10 CLEARSTORY SIDE WINDOW
1/4" = 1'-0"   6 THUS   SYSTEM AL-1



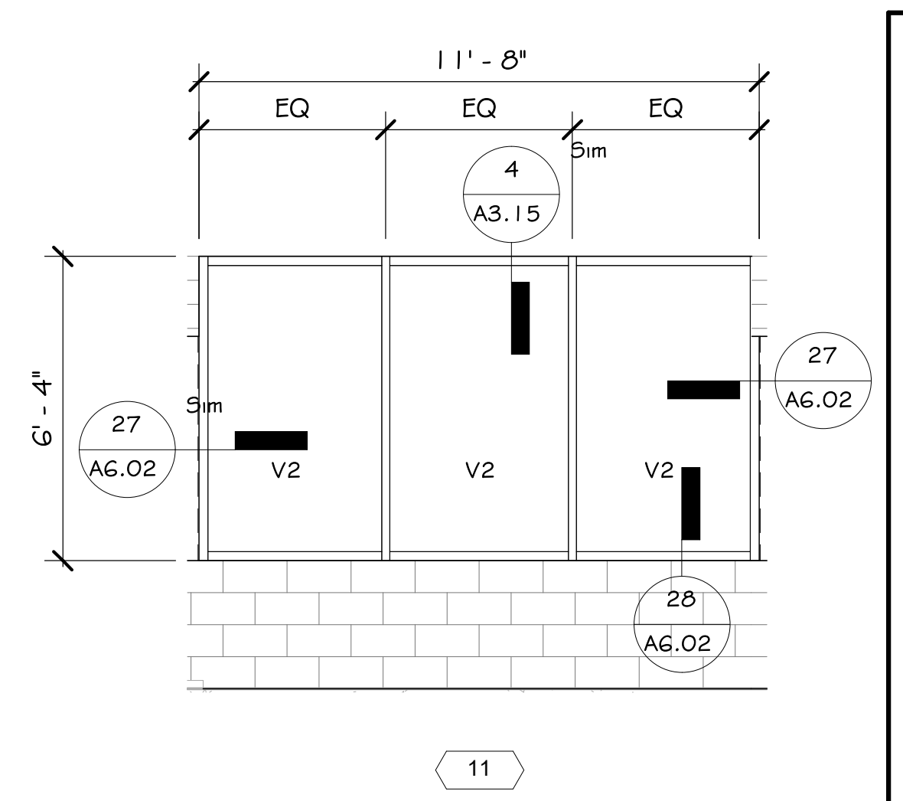
13 Elevation 4 - a
1/4" = 1'-0"   1 THUS   SYSTEM AL-1



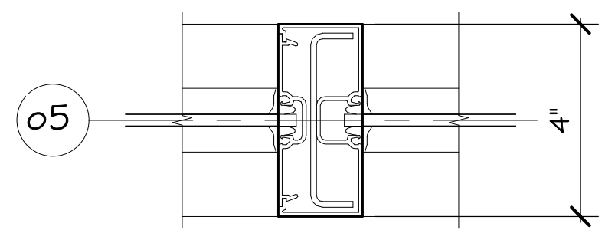
12 MAINTENANCE BLDG. INT. GLASS SETTING/OFFICE 1
1/4" = 1'-0"   1 THUS   SYSTEM AL-2



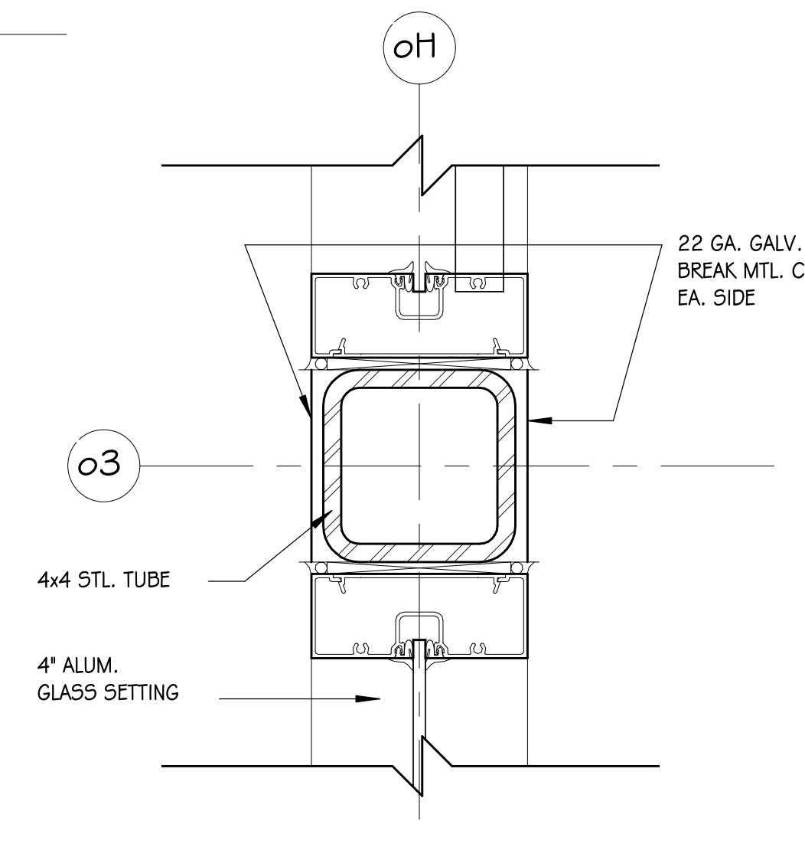
26 MAINTENANCE BLDG. INT. GLASS SETTING/OFFICE2
1/4" = 1'-0"   1 THUS   SYSTEM AL-2



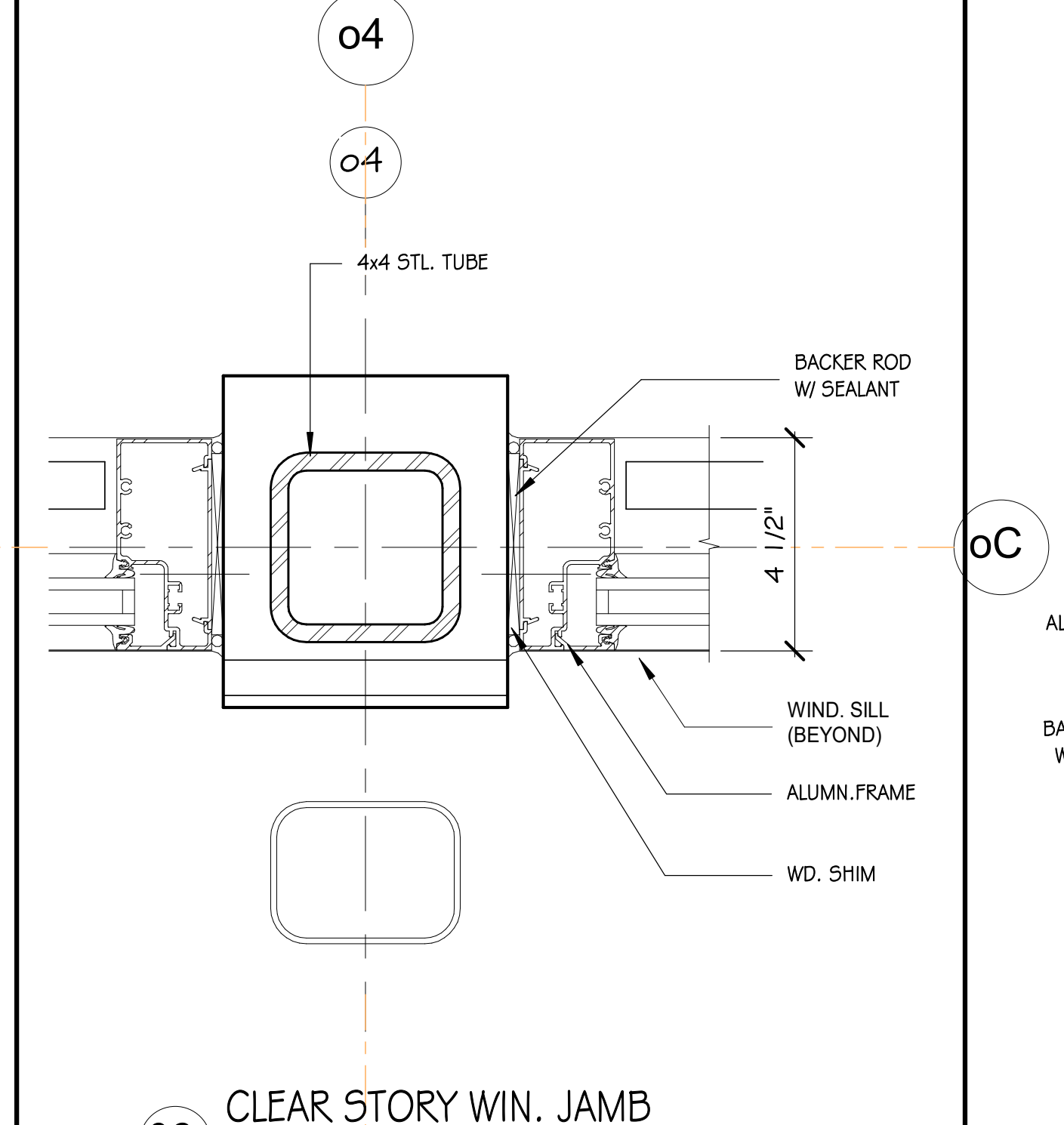
11 MAINTENANCE BLDG. INT. SETTING
1/4" = 1'-0"   2 THUS   SYSTEM AL-2



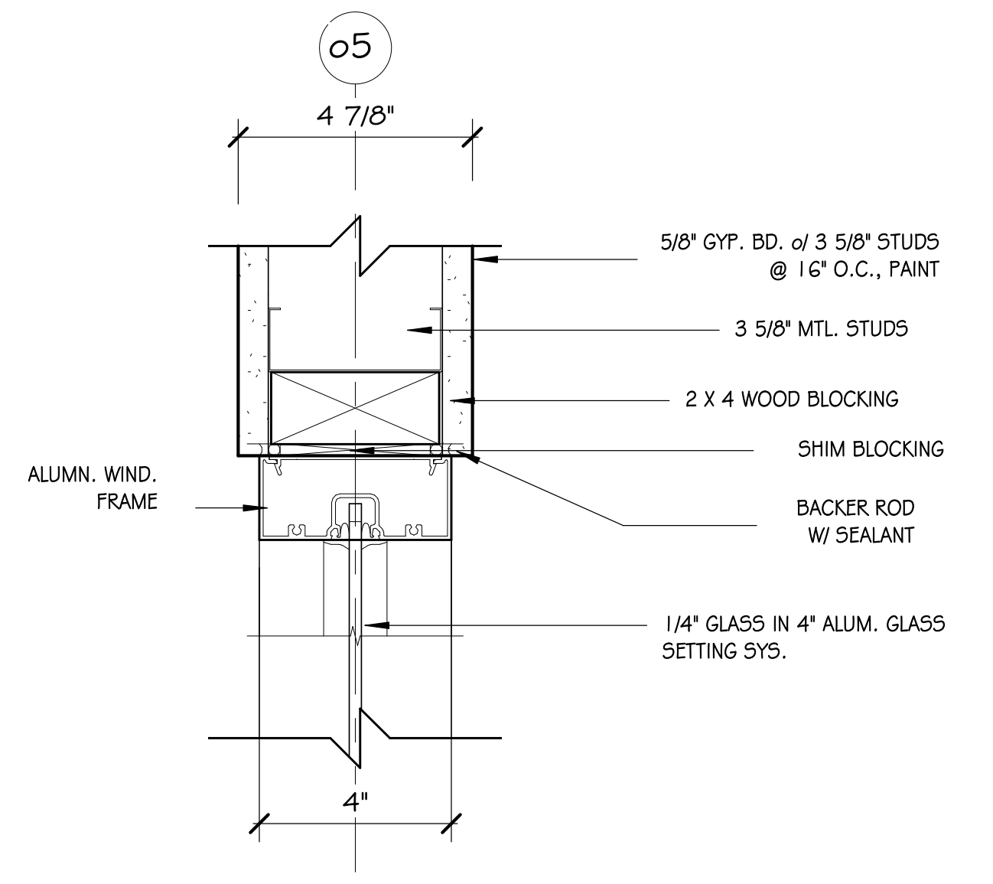
24 INT.VERTICAL MULLION TYP.
3" = 1'-0"   SYSTEM AL-2



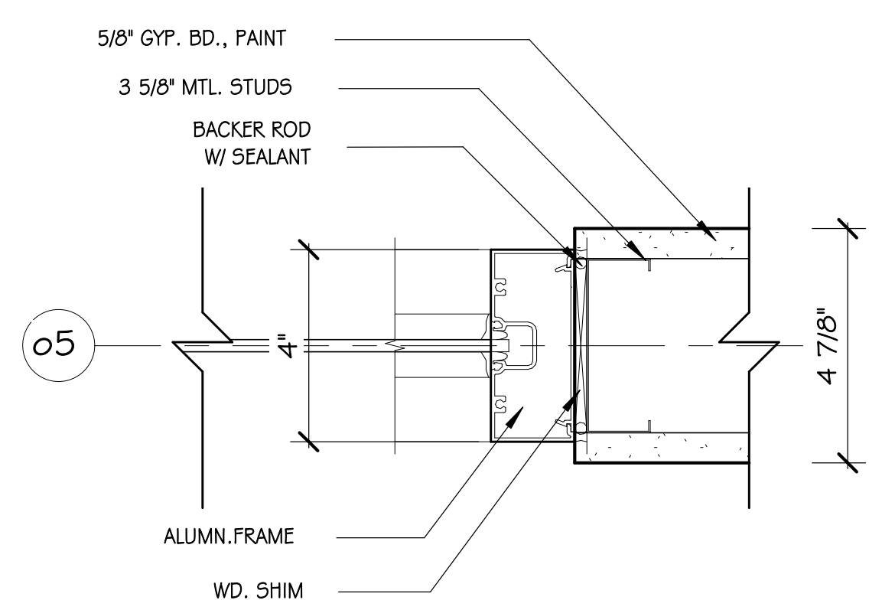
23 VERT. 4x4 TUBE IN WINDOW WALL
3" = 1'-0"   SYSTEM AL-2



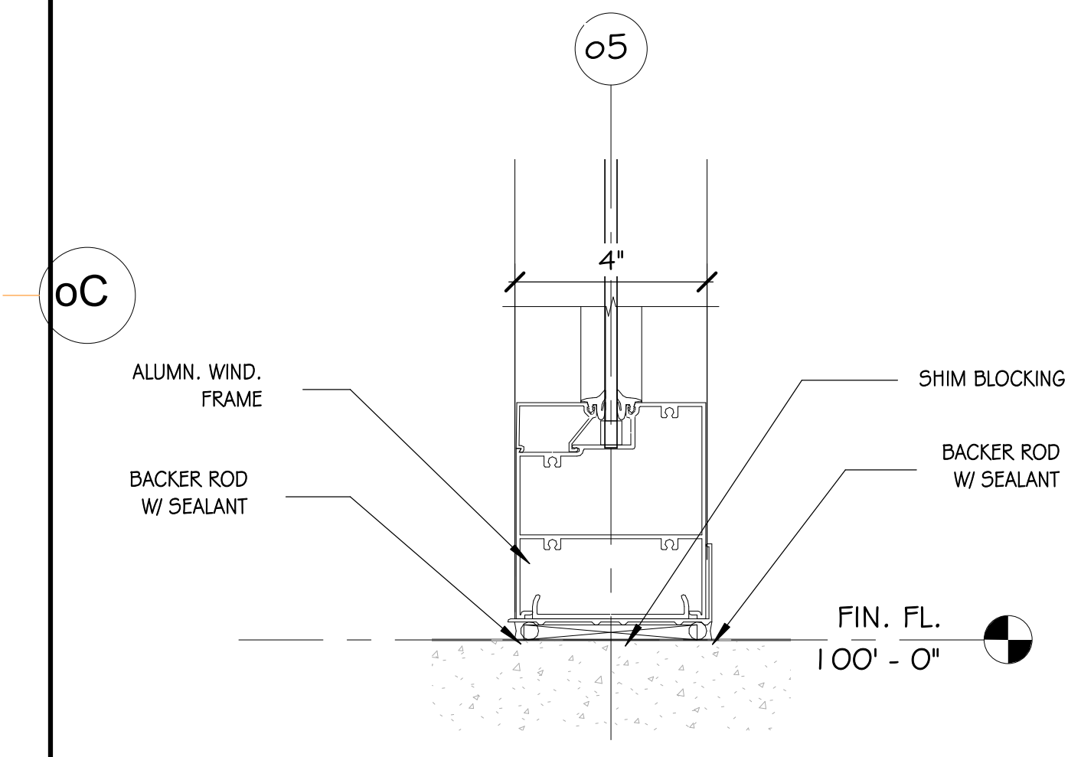
29 CLEAR STORY WIN. JAMB
3" = 1'-0"



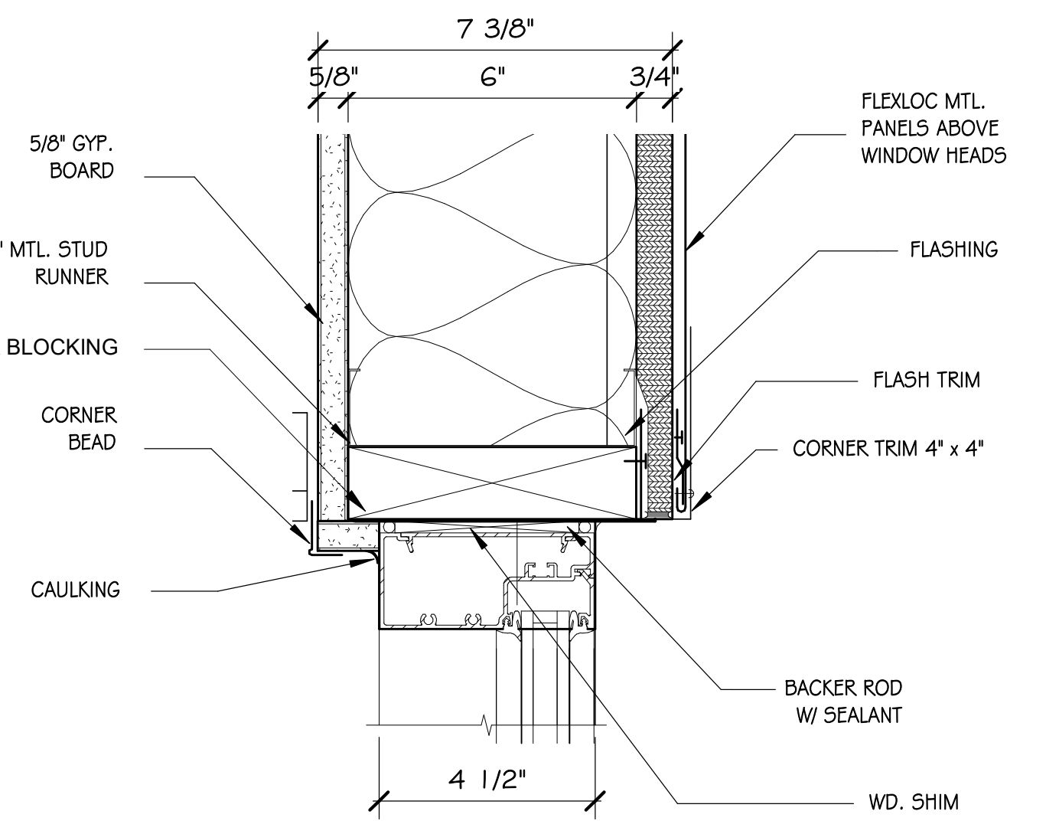
20 INT. HEAD TYP.
3" = 1'-0"   SYSTEM AL-2



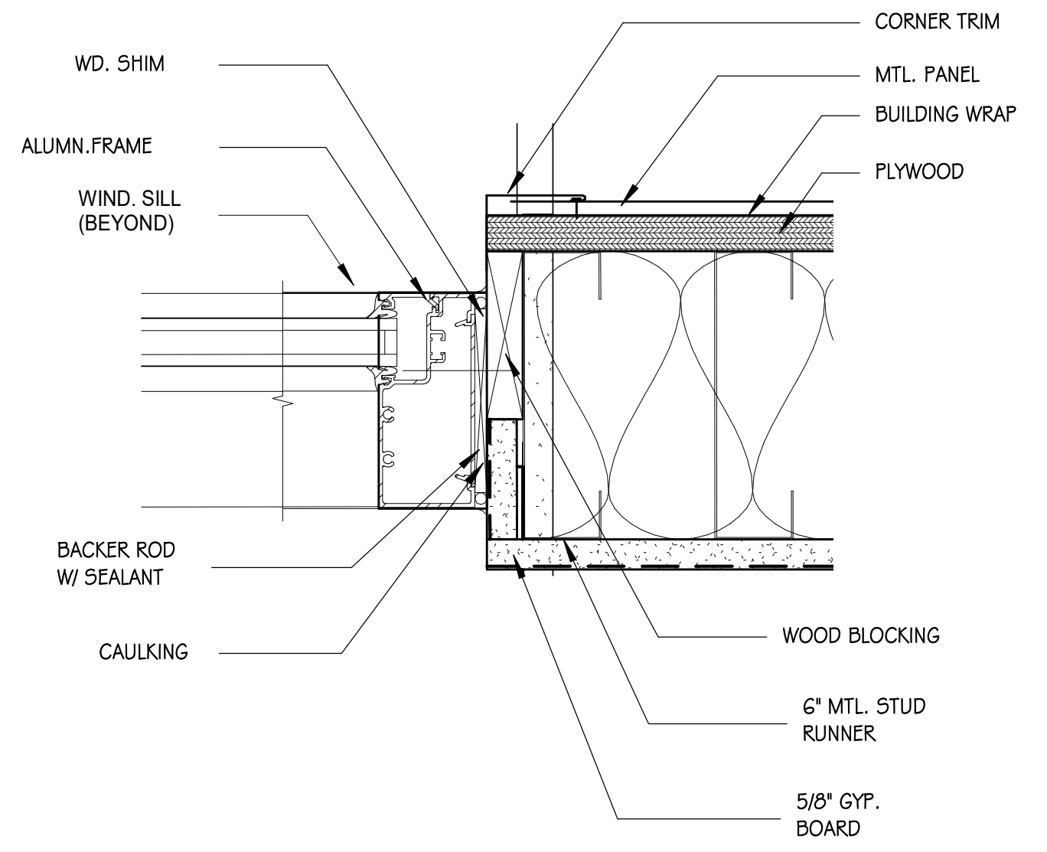
21 INT. JAMB TYP.
3" = 1'-0"   SYSTEM AL-2



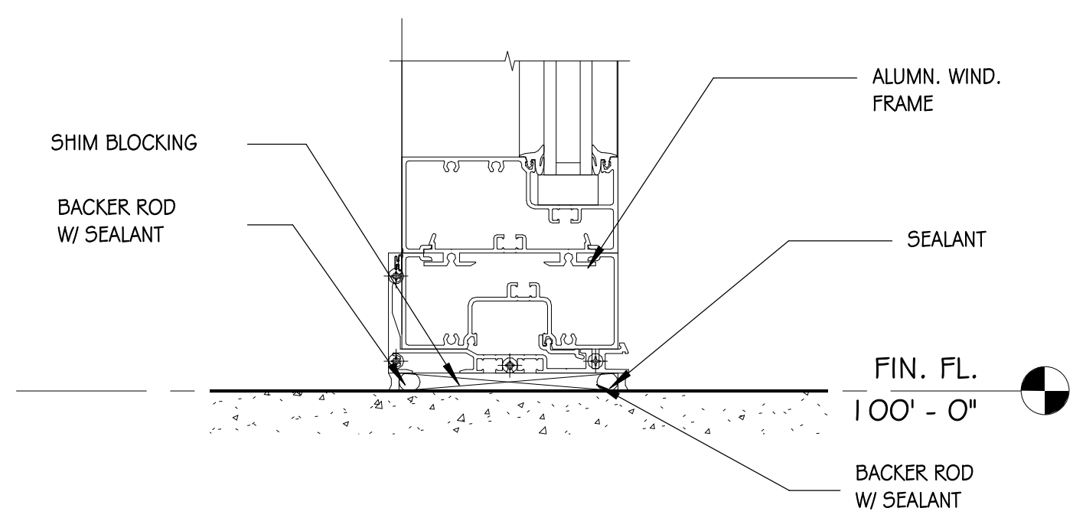
22 INT. SILL TYP.
3" = 1'-0"   SYSTEM AL-2



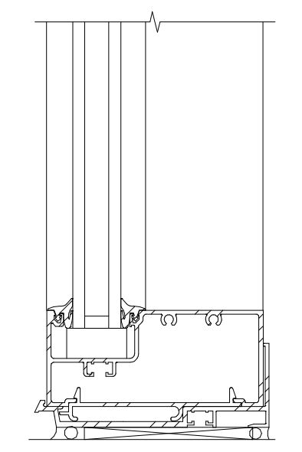
17 EXT. WIND. HEAD (TYP.)
3" = 1'-0"   SYSTEM AL-1



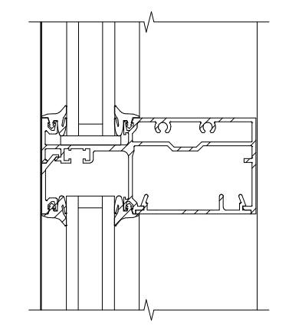
18 EXT. WIND. JAMB (TYP.)
3" = 1'-0"   SYSTEM AL-1



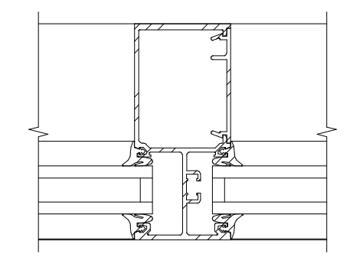
19 EXT. WIND. SILL (TYP.)
3" = 1'-0"   SYSTEM AL-1



14 MULLION - SILL
3" = 1'-0"



15 MULLION - HORIZONTAL
3" = 1'-0"



16 MULLION - VERTICAL
3" = 1'-0"

ALUMINUM GLASS SETTING SYSTEM

AL-1: KAWNEER, TRIFAB VG 451, EXTERIOR ALUMINUM GLASS SETTING SYS., 2" X 41/2" FOR 1" INSULATED GLASS @ FRONT PLANE GLAZING w/ 350 MEDIUM STYLE ALUM. DOORS WHERE SHOWN, FINISHED TO BE CLEAR ANODIZED ALUM.

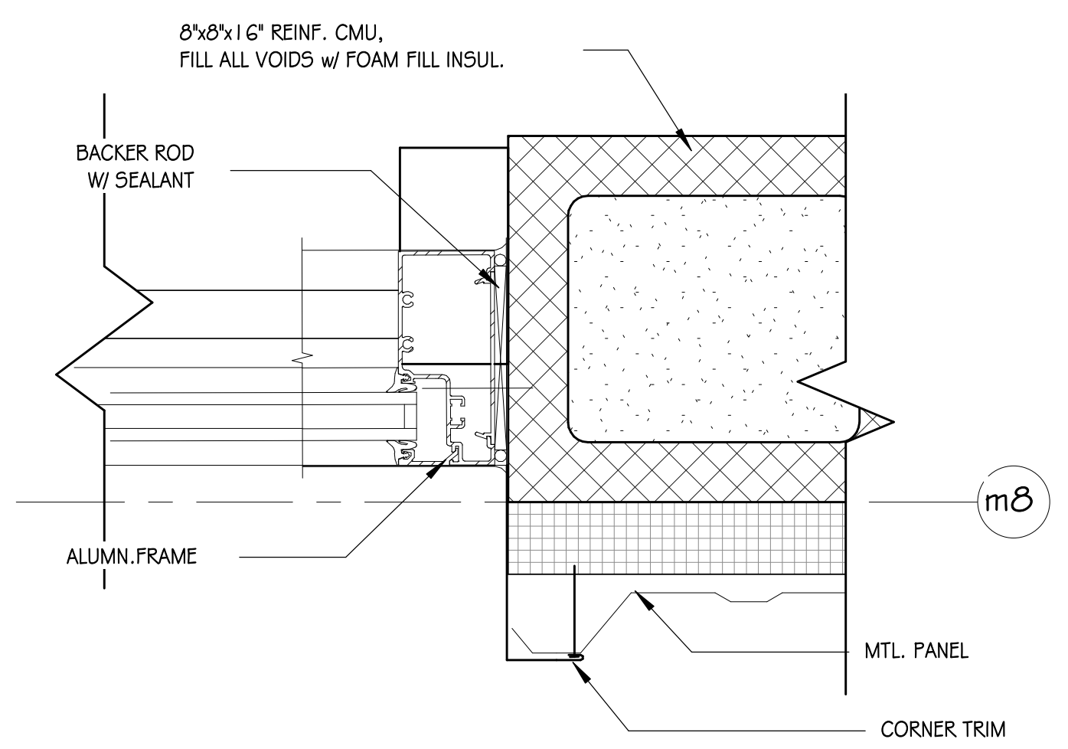
AL-2: KAWNEER, TRIFAB 400, INTERIOR ALUMINUM GLASS SETTING SYS., 13/4" X 4" FOR 1/4" CENTER PLANE GLAZING. KAWNEER STYLE 350 MEDIUM STYLE ALUM. DOORS WHERE SHOWN, FINISHED TO BE CLEAR ANODIZED ALUM.

GLASS GLAZING SYSTEM

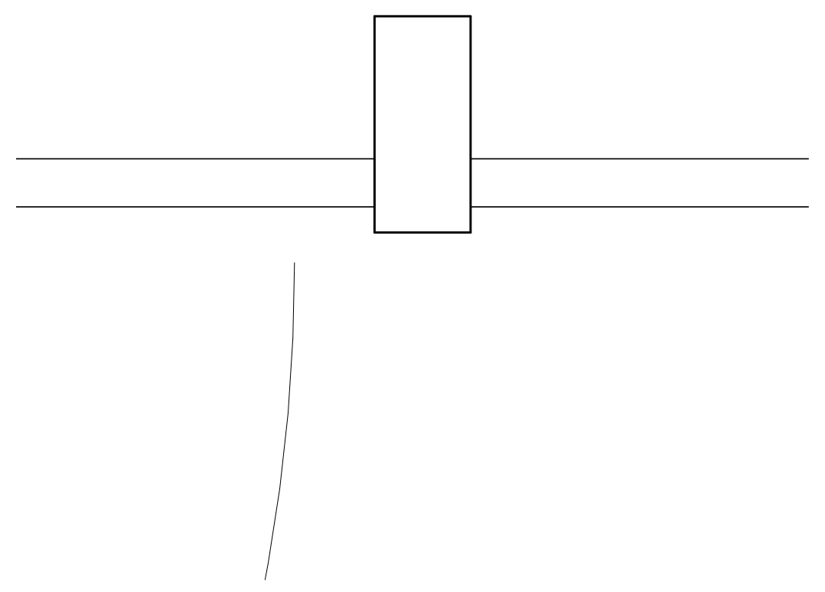
V1: INSULATED VISION UNIT:
- -OUTER LITE, 1/4" PPG SOLAR BAN R-100, CLEAR/CLEAR/ LOW-E COATING ON #2 SURFACE
- -AIR SPACE, 1/2" SEALED AIR SPACE
- - INNER LITE, 1/4" THICK CLEAR FLOAT GLASS

V2: INTERIOR VISION UNIT:
1/4" SINGLE GLAZING UNIT:
- - VISION LITE, 1/4" THICK CLEAR FLOAT GLASS. TEMPERED WHERE REQUIRED BY CODE.

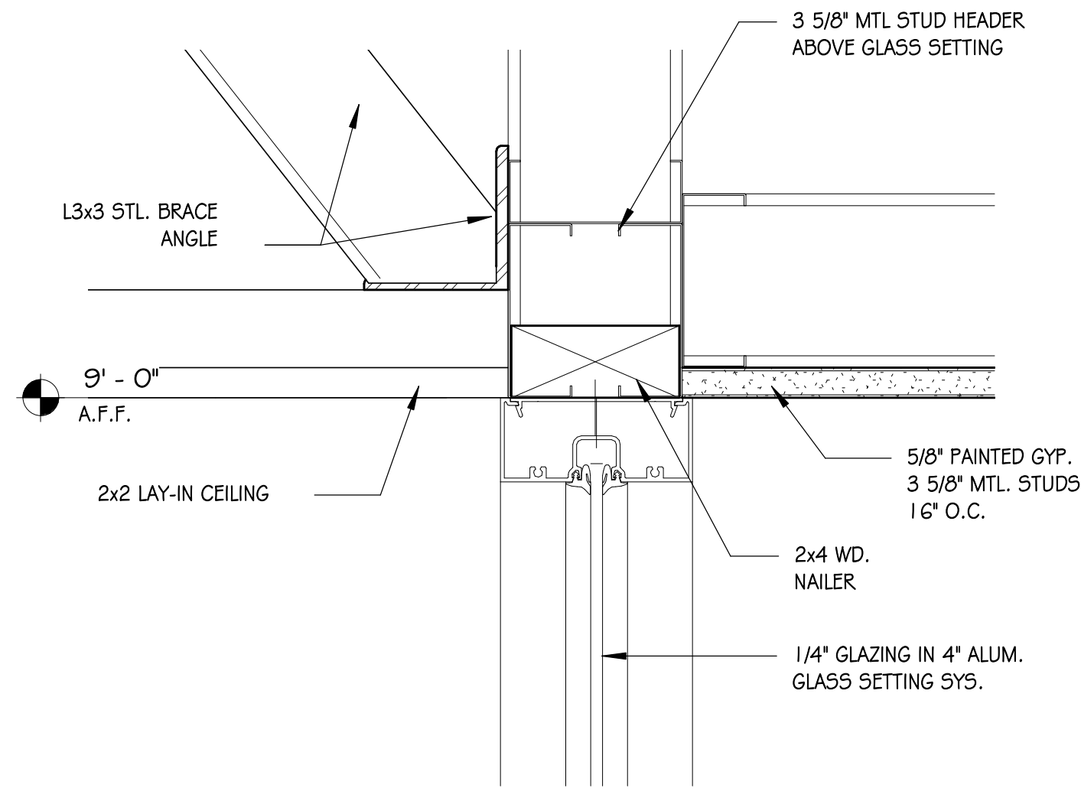
NOTE:
ALL ALUMINUM GLASS SETTING SYSTEM DIMENSIONS TO BE FILED VERIFIED BEFORE FABRICATION.



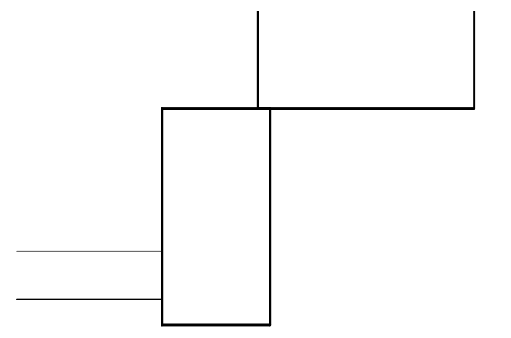
31 MAINTENANCE BLDG. EXT. GLASS SETTING JAMB
3" = 1'-0"



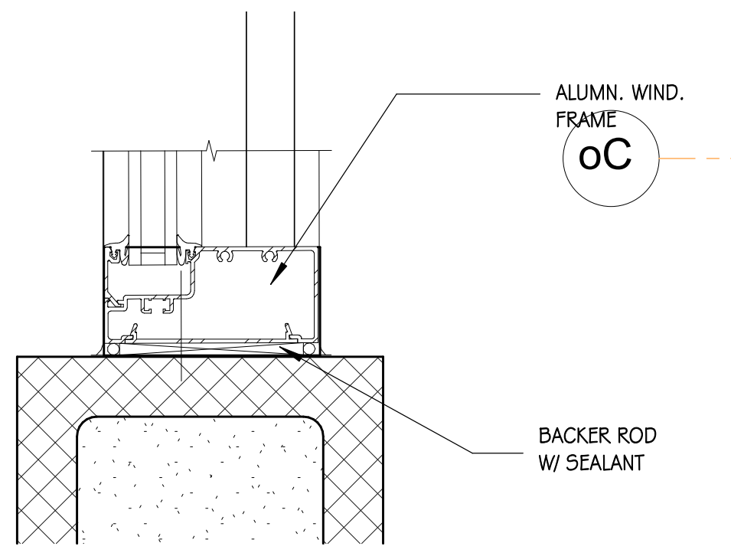
30 Detail 11
3" = 1'-0"


L3x3 STL. BRACE ANGLE
3 5/8" MTL STUD HEADER ABOVE GLASS SETTING
9' - 0" A.F.F.
2x2 LAY-IN CEILING
5/8" PAINTED GYP. BD. o/ 3 5/8" MTL. STUDS @ 16" O.C.
2x4 WD. NAILER
1/4" GLAZING IN 4" ALUM. GLASS SETTING SYS.

25 HEAD DTL @ GLASS SETTING 4
3" = 1'-0"



27 Detail 10
3" = 1'-0"



28 Detail 7
3" = 1'-0"

STAMPS

REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STAMPS

REGISTERED ARCHITECT
CARL F. MENYHART, JR.
No. 1007
7/29/22
ARKANSAS
Carl Menyhart Jr.

ETC ENGINEERS &
ARCHITECTS, INC.
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ENGINEERING & ARCHITECTURAL CONSULTANTS, CONSTRUCTION MANAGERS
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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

GLASS SETTING DETAILS

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: Author   Checked By: Checker

DATE: JULY 29, 2022

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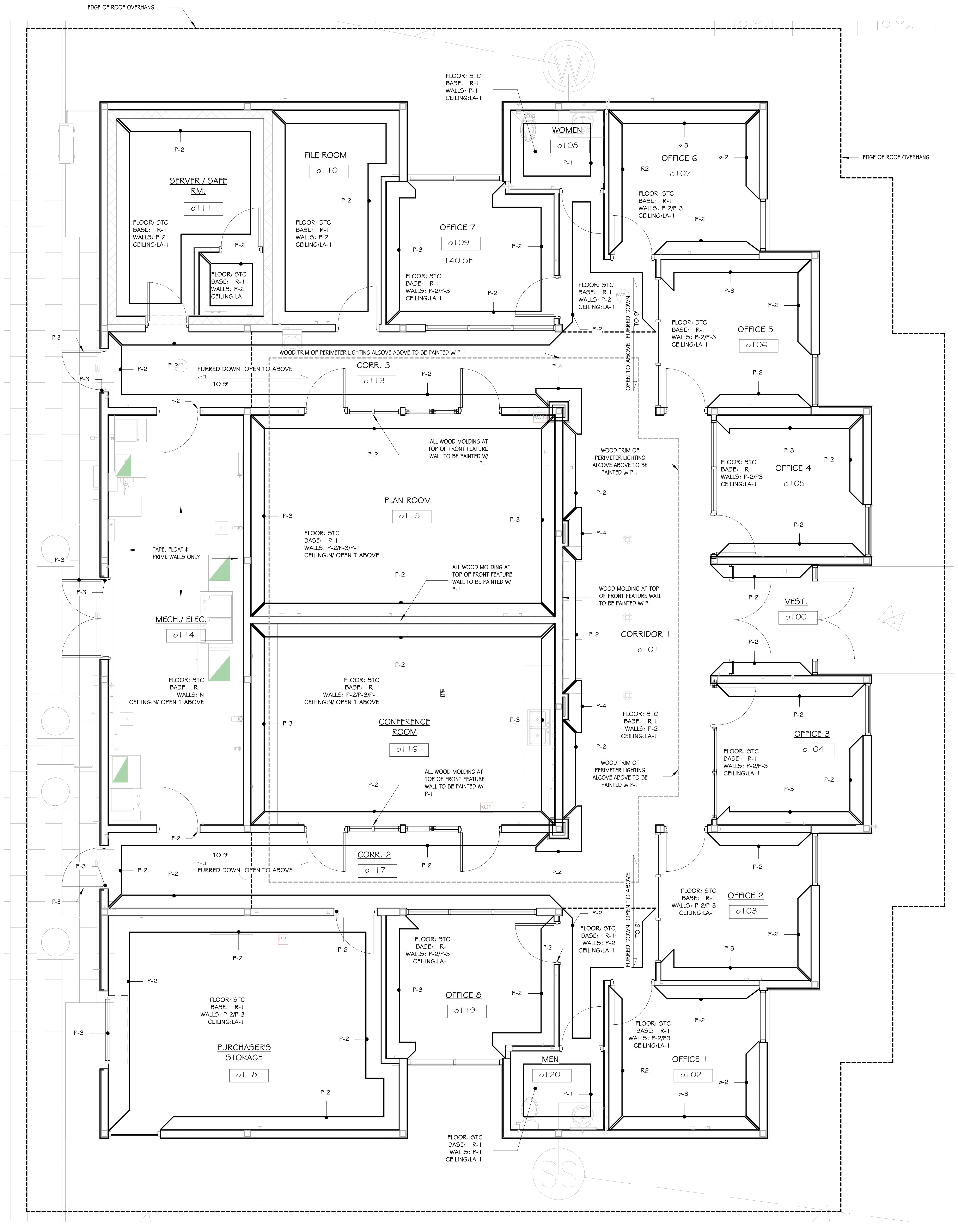

1 OFFICE BUILDING FINISH FLOOR PLAN
1/4" = 1'-0"

MASTER COLOR & MATERIALS SCHEDULE

MASTER COLOR & MATERIALS SCHEDULE

FLOORS:
STC : SMOOTH TROWEL FINISH CONCRETE
BFC : LIGHT BROOM FINISH CONCRETE

WALLS:
P-1 : PAINT; SHERWIN WILLIAMS, #SW 0050, "CLASSIC LIGHT BUFF" LATEX SEMI-GLOSS ENAMEL.
P-2 : PAINT; SHERWIN WILLIAMS, #SW 0054, "TWILIGHT GRAY", LATEX SEMI-GLOSS ENAMEL.
P-3 : PAINT; SHERWIN WILLIAMS, #SW 7072, "ONLINE", SEMI-GLOSS ALKYD ENAMEL.
NOTE: IF P-1, P-2, OR P-3 ARE CALLED OUT TO BE APPLIED TO METAL SURFACES, IT SHALL BE ALKYD SEMI-GLOSS ENAMEL.
P-4 : PAINT; SHERWIN WILLIAMS, #SW 2840, "HAMMERED SLIVER", LATEX SEMI-GLOSS ENAMEL.
MP-G : MBCI METAL PANELS WITH GALVALUME PLUS COATING
EP-1 : EPOXY CEILING PAINT; SHERWIN WILLIAMS PRO-INDUSTRIAL, HI-BILD WATER BASED CATALYZED EPOXY: COLOR: SW#0050 "CLASSIC LIGHT BUFF"
EP-2 : EPOXY WALL PAINT; SHERWIN WILLIAMS PRO-INDUSTRIAL, HI-BILD WATER BASED CATALYZED EPOXY: COLOR: SW#0054 " TWILIGHT GRAY"

BASE:
R-1 : 4" RUBBER COVED BASE; JOHNSONITE, COLOR, #195-ASH WG
N : NO BASE SCHEDULED FOR THIS AREA.

CEILING:
LA-1 : 2X2 LAY-IN ACOUSTIC CEILING AS SPECIFIED.
GP-1 : GYP. BD. CEILING PAINTED w/ SHERWIN WILLIAMS # SW 0050, "CLASSIC LIGHT BUFF" ALKYD SEMI-GLOSS ENAMEL.
GP-2 : GYP. BD. CEILING PAINTED w/ SHERWIN WILLIAMS #SW 0054 "TWILIGHT GRAY", ALKYD SEMI-GLOSS ENAMEL.
N : NO CEILING SCHEDULED FOR THIS AREA.

OTHER MATERIAL FINISHES:

INTERIOR HOLLOW METAL DOOR FRAMES:
ALL TO BE PAINTED WITH, SHERWIN-WILLIAMS, #SW 0054 "TWILIGHT GRAY", ALKYD SEMI-GLOSS ENAMEL. (P-2)

HOLLOW METAL DOORS @ EXTERIOR:
PAINT WITH SHERWIN WILLIAMS #SW2840 "HAMMERED SILVER" SEMI-GLOSS ALKYD ENAMEL. (P-3)

FIRE EXTINGUISHER CABINETS:
WHERE F.E. CABINETS ARE INSTALLED, THEY SHALL BE PAINTED TO MATCH THE SURROUNDING WALL COLOR w/ SEMI-GLOSS ALKYD ENAMEL.

NOTE:
SPECIFIC MANUFACTURERS NAMED IN THIS SCHEDULE ARE THE BASIS OF DESIGN. OTHER MANUFACTURER'S MAY BE EQUIVALENT AND ACCEPTABLE. ANY SUBSTITUTIONS MUST BE SUBMITTED AS PER SECTION 01300 AND WITHIN 60 DAYS OF THE START OF CONSTRUCTION AS INDICATED BY THE DATE OF THE NOTICE TO PROCEED. THE ARCHITECT SHALL BE THE JUDGE OF THE EQUIVALENCY AND ACCEPTABILITY OF ANY SUBSTITUTIONS.

STAMPS
ETC Engineers & Architects, Inc.
No. C-462

STAMPS
CARL F. MENYHART, JR.
No. 7007
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
OFFICE BUILDING FINISH PLAN

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: Author
Checked By: Checker
DATE: JULY 29, 2022

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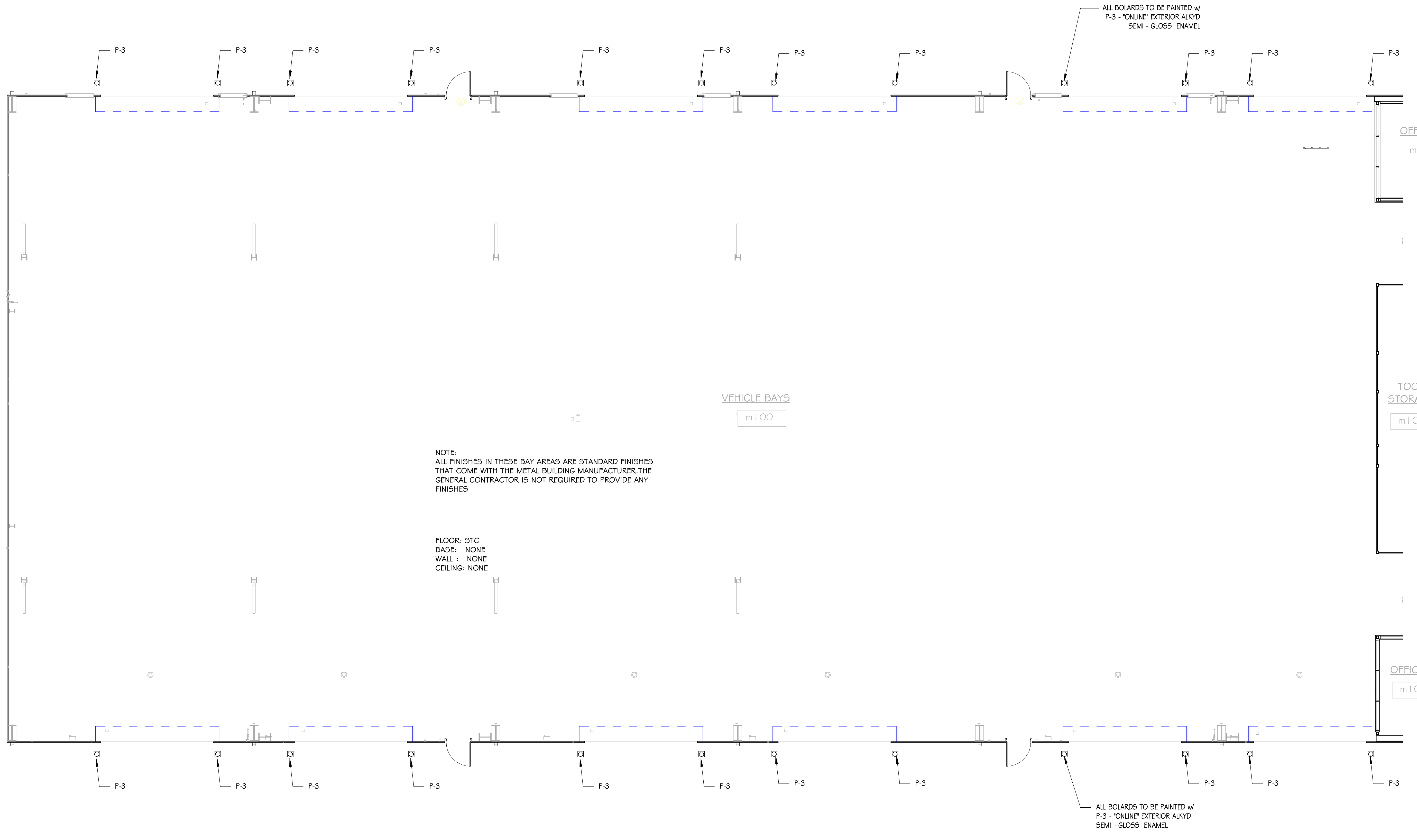
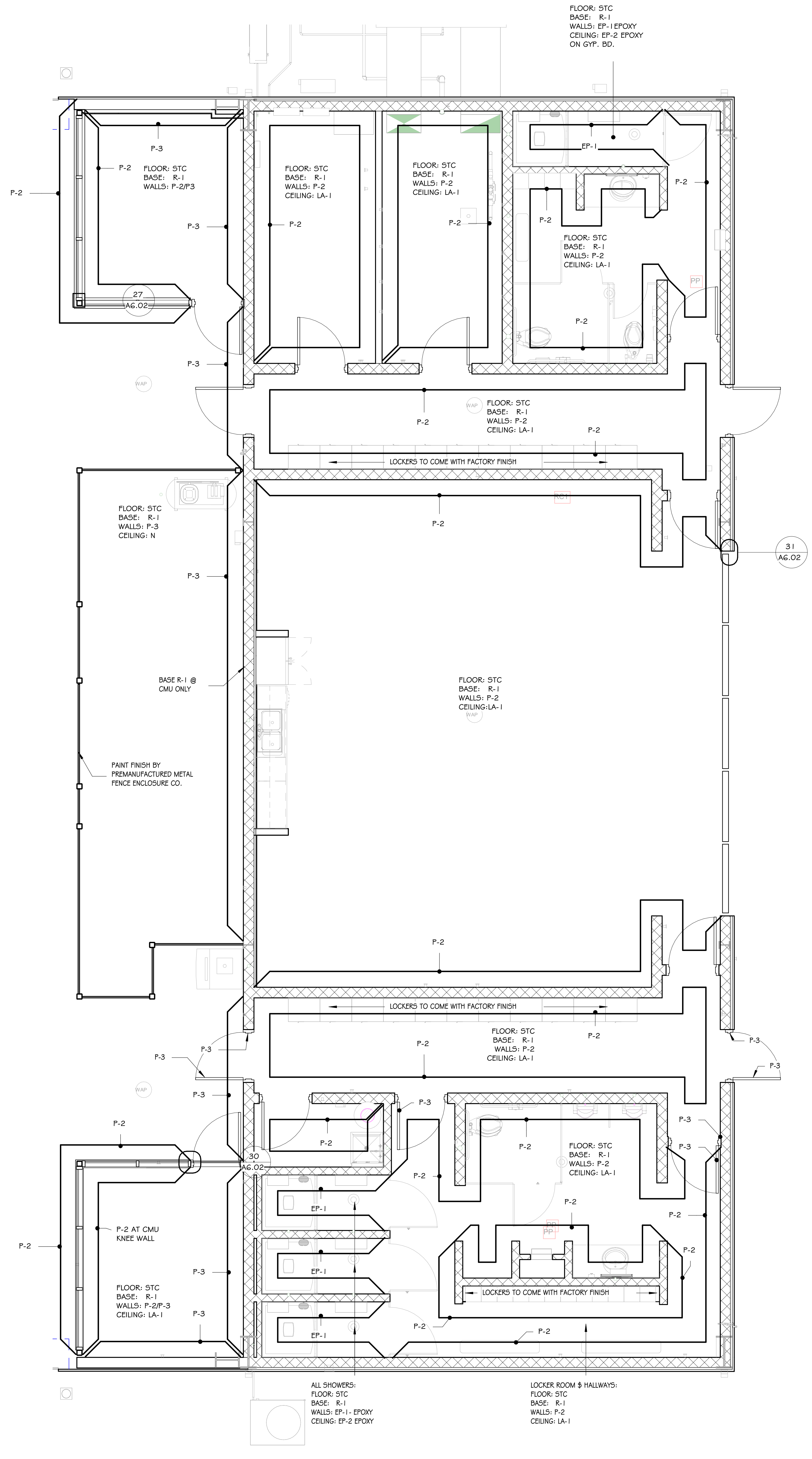


NOTE:
ALL FINISHES IN THESE BAY AREAS ARE STANDARD FINISHES THAT COME WITH THE METAL BUILDING MANUFACTURER.THE GENERAL CONTRACTOR IS NOT REQUIRED TO PROVIDE ANY FINISHES

FLOOR: STC
BASE: NONE
WALL : NONE
CEILING: NONE

1 MAINTENANCE BLDG. FINISH FLOOR PLAN
1/8" = 1'-0"



FLOOR: STC
BASE: R-1
WALLS: EP-1 EPOXY
CEILING: EP-2 EPOXY
ON GYP. BD.

FLOOR: STC
BASE: R-1
WALLS: P-2/P3

FLOOR: STC
BASE: R-1
WALLS: P-2
CEILING: LA-1

FLOOR: STC
BASE: R-1
WALLS: P-3
CEILING: N

BASE R-1 @
CMU ONLY

PAINT FINISH BY
PREMANUFACTURED METAL
FENCE ENCLOSURE CO.

FLOOR: STC
BASE: R-1
WALLS: P-2/P-3
CEILING: LA-1

ALL SHOWERS:
FLOOR: STC
BASE: R-1
WALLS: EP-1- EPOXY
CEILING: EP-2 EPOXY

LOCKER ROOM & HALLWAYS:
FLOOR: STC
BASE: R-1
WALLS: P-2
CEILING: LA-1

2 MAINTENANCE BLDG. FINISH FLOOR PLAN FRONT
1/4" = 1'-0"

MASTER COLOR & MATERIALS SCHEDULE

MASTER COLOR & MATERIALS SCHEDULE

FLOORS:
STC : SMOOTH TROWEL FINISH CONCRETE
BFC : LIGHT BROOM FINISH CONCRETE

WALLS:
P-1 : PAINT; SHERWIN WILLIAMS, #SW 0050, "CLASSIC LIGHT BUFF" LATEX SEMI-GLOSS ENAMEL.
P-2 : PAINT; SHERWIN WILLIAMS, #SW 0054, "TWILIGHT GRAY", LATEX SEMI-GLOSS ENAMEL.
P-3 : PAINT; SHERWIN WILLIAMS, #SW 7072, "ONLINE", SEMI-GLOSS ALKYD ENAMEL. NOTE: IF P-1, P-2, OR P-3 ARE CALLED OUT TO BE APPLIED TO METAL SURFACES, IT SHALL BE ALKYD SEMI-GLOSS ENAMEL.
P-4 : PAINT; SHERWIN WILLIAMS, #SW 2840, "HAMMERED SLIVER", LATEX SEMI-GLOSS ENAMEL.
MP-G : MBCI METAL PANELS WITH GALVALUME PLUS COATING
EP-1 : EPOXY CEILING PAINT; SHERWIN WILLIAMS PRO-INDUSTRIAL, HI-BILD WATER BASED CATALYZED EPOXY: COLOR: SW#0050 "CLASSIC LIGHT BUFF"
EP-2 : EPOXY WALL PAINT; SHERWIN WILLIAMS PRO-INDUSTRIAL, HI-BILD WATER BASED CATALYZED EPOXY: COLOR: SW#0054 " TWILIGHT GRAY"

BASE:
R-1 : 4" RUBBER COVED BASE; JOHNSONITE, COLOR, #195-ASH WG
N : NO BASE SCHEDULED FOR THIS AREA.

CEILING:
LA-1 : 2X2 LAY-IN ACOUSTIC CEILING AS SPECIFIED.
GP-1 : GYP. BD. CEILING PAINTED w/ SHERWIN WILLIAMS # SW 0050, "CLASSIC LIGHT BUFF" ALKYD SEMI-GLOSS ENAMEL.
GP-2 : GYP. BD. CEILING PAINTED w/ SHERWIN WILLIAMS #SW 0054 "TWILIGHT GRAY", ALKYD SEMI-GLOSS ENAMEL.
N : NO CEILING SCHEDULED FOR THIS AREA.

OTHER MATERIAL FINISHES:

INTERIOR HOLLOW METAL DOOR FRAMES:
ALL TO BE PAINTED WITH, SHERWIN-WILLIAMS, #SW 0054 "TWILIGHT GRAY", ALKYD SEMI-GLOSS ENAMEL. (P-2)

HOLLOW METAL DOORS @ EXTERIOR:
PAINT WITH SHERWIN WILLIAMS #SW2840 "HAMMERED SILVER" SEMI-GLOSS ALKYD ENAMEL. (P-3)

FIRE EXTINGUISHER CABINETS:
WHERE F.E. CABINETS ARE INSTALLED, THEY SHALL BE PAINTED TO MATCH THE SURROUNDING WALL COLOR w/ SEMI-GLOSS ALKYD ENAMEL.

NOTE:
SPECIFIC MANUFACTURERS NAMED IN THIS SCHEDULE ARE THE BASIS OF DESIGN. OTHER MANUFACTURER'S MAY BE EQUIVALENT AND ACCEPTABLE. ANY SUBSTITUTIONS MUST BE SUBMITTED AS PER SECTION 01300 AND WITHIN 60 DAYS OF THE START OF CONSTRUCTION AS INDICATED BY THE DATE OF THE NOTICE TO PROCEED. THE ARCHITECT SHALL BE THE JUDGE OF THE EQUIVALENCY AND ACCEPTABILITY OF ANY SUBSTITUTIONS.

STAMPS
ETC Engineers
& Architects, Inc.
No.
C-462

STAMPS
CARL F. MENYHART, JR.
No. 1007
7/29/22

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Environmental Technical Consultants, Inc.
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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
MAINTENANCE BUILDING FINISH

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: Author **Checked By:** Checker

DATE: JULY 29, 2022

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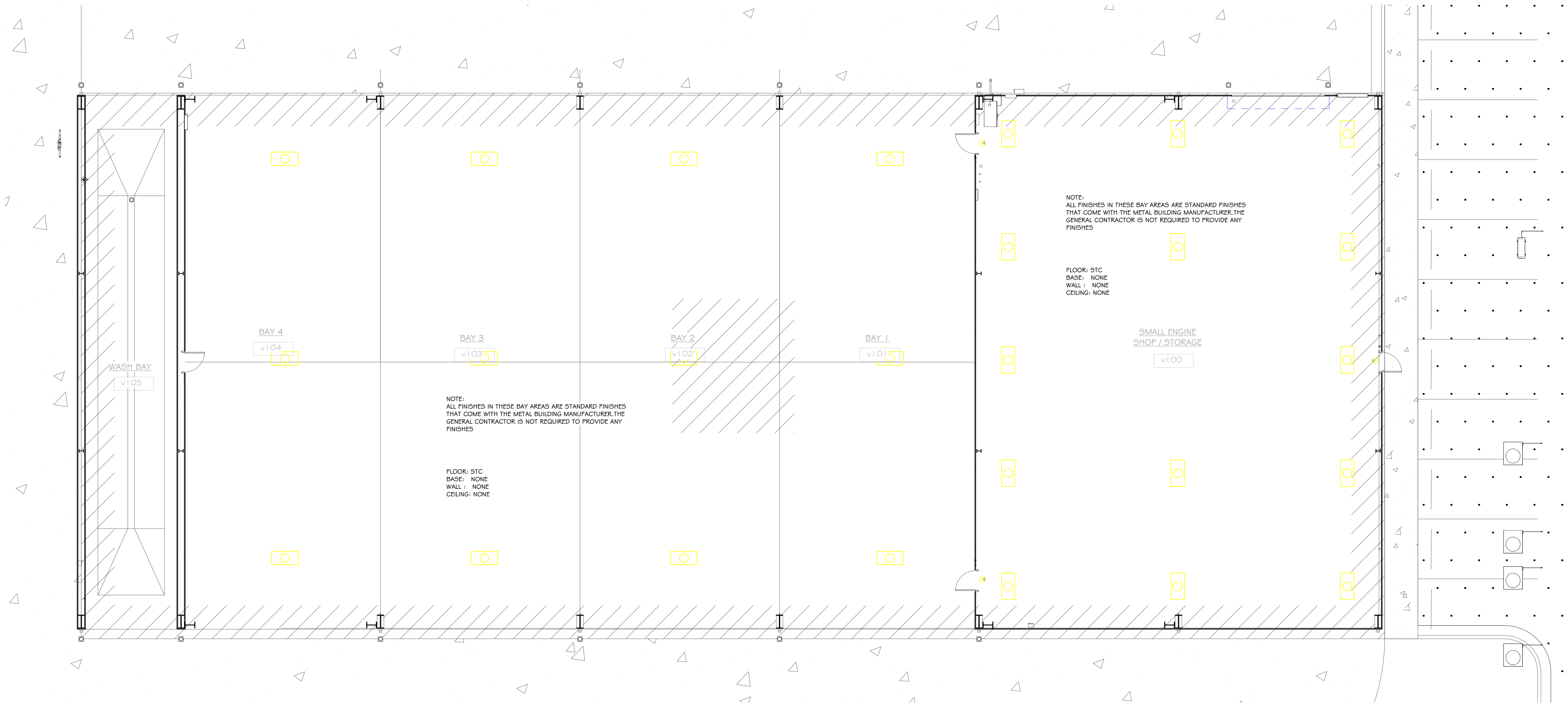

NOTE:
ALL FINISHES IN THESE BAY AREAS ARE STANDARD FINISHES THAT COME WITH THE METAL BUILDING MANUFACTURER.THE GENERAL CONTRACTOR IS NOT REQUIRED TO PROVIDE ANY FINISHES

FLOOR: STC
BASE: NONE
WALL : NONE
CEILING: NONE

NOTE:
ALL FINISHES IN THESE BAY AREAS ARE STANDARD FINISHES THAT COME WITH THE METAL BUILDING MANUFACTURER.THE GENERAL CONTRACTOR IS NOT REQUIRED TO PROVIDE ANY FINISHES

FLOOR: STC
BASE: NONE
WALL : NONE
CEILING: NONE

1 VEHICLE STORAGE BLDG. FINISH FLOOR PLAN
1/8" = 1'-0"

MASTER COLOR & MATERIALS SCHEDULE

MASTER COLOR & MATERIALS SCHEDULE

FLOORS:
STC : SMOOTH TROWEL FINISH CONCRETE
BFC : LIGHT BROOM FINISH CONCRETE

WALLS:
P-1 : PAINT; SHERWIN WILLIAMS, #SW 0050, "CLASSIC LIGHT BUFF" LATEX SEMI-GLOSS ENAMEL.
P-2 : PAINT; SHERWIN WILLIAMS, #SW 0054, "TWILIGHT GRAY", LATEX SEMI-GLOSS ENAMEL.
P-3 : PAINT; SHERWIN WILLIAMS, #SW 7072, "ONLINE", SEMI-GLOSS ALKYD ENAMEL. NOTE: IF P-1, P-2, OR P-3 ARE CALLED OUT TO BE APPLIED TO METAL SURFACES, IT SHALL BE ALKYD SEMI-GLOSS ENAMEL.
P-4 : PAINT; SHERWIN WILLIAMS, #SW 2840, "HAMMERED SLIVER", LATEX SEMI-GLOSS ENAMEL.
MP-G : MBCI METAL PANELS WITH GALVALUME PLUS COATING
EP-1 : EPOXY CEILING PAINT; SHERWIN WILLIAMS PRO-INDUSTRIAL, HI-BILD WATER BASED CATALYZED EPOXY: COLOR: SW#0050 "CLASSIC LIGHT BUFF"
EP-2 : EPOXY WALL PAINT; SHERWIN WILLIAMS PRO-INDUSTRIAL, HI-BILD WATER BASED CATALYZED EPOXY: COLOR: SW#0054 " TWILIGHT GRAY"

BASE:
R-1 : 4" RUBBER COVED BASE; JOHNSONITE, COLOR, #195-ASH WG
N : NO BASE SCHEDULED FOR THIS AREA.

CEILING:
LA-1 : 2X2 LAY-IN ACOUSTIC CEILING AS SPECIFIED.
GP-1 : GYP. BD. CEILING PAINTED w/ SHERWIN WILLIAMS # SW 0050, "CLASSIC LIGHT BUFF" ALKYD SEMI-GLOSS ENAMEL.
GP-2 : GYP. BD. CEILING PAINTED w/ SHERWIN WILLIAMS #SW 0054 "TWILIGHT GRAY", ALKYD SEMI-GLOSS ENAMEL.
N : NO CEILING SCHEDULED FOR THIS AREA.

OTHER MATERIAL FINISHES:

INTERIOR HOLLOW METAL DOOR FRAMES:
ALL TO BE PAINTED WITH, SHERWIN-WILLIAMS, #SW 0054 "TWILIGHT GRAY", ALKYD SEMI-GLOSS ENAMEL. (P-2)

HOLLOW METAL DOORS @ EXTERIOR:
PAINT WITH SHERWIN WILLIAMS #SW2840 "HAMMERED SILVER" SEMI-GLOSS ALKYD ENAMEL. (P-3)

FIRE EXTINGUISHER CABINETS:
WHERE F.E. CABINETS ARE INSTALLED, THEY SHALL BE PAINTED TO MATCH THE SURROUNDING WALL COLOR w/ SEMI-GLOSS ALKYD ENAMEL.

NOTE:
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STAMPS
REGISTERED ARCHITECTS
ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

STAMPS
CARL F. MENYHART, JR.
No. 1007
7/29/22

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ARCHITECTS, INC.
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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
VEHICLE STORAGE BUILDING FINISH PLAN

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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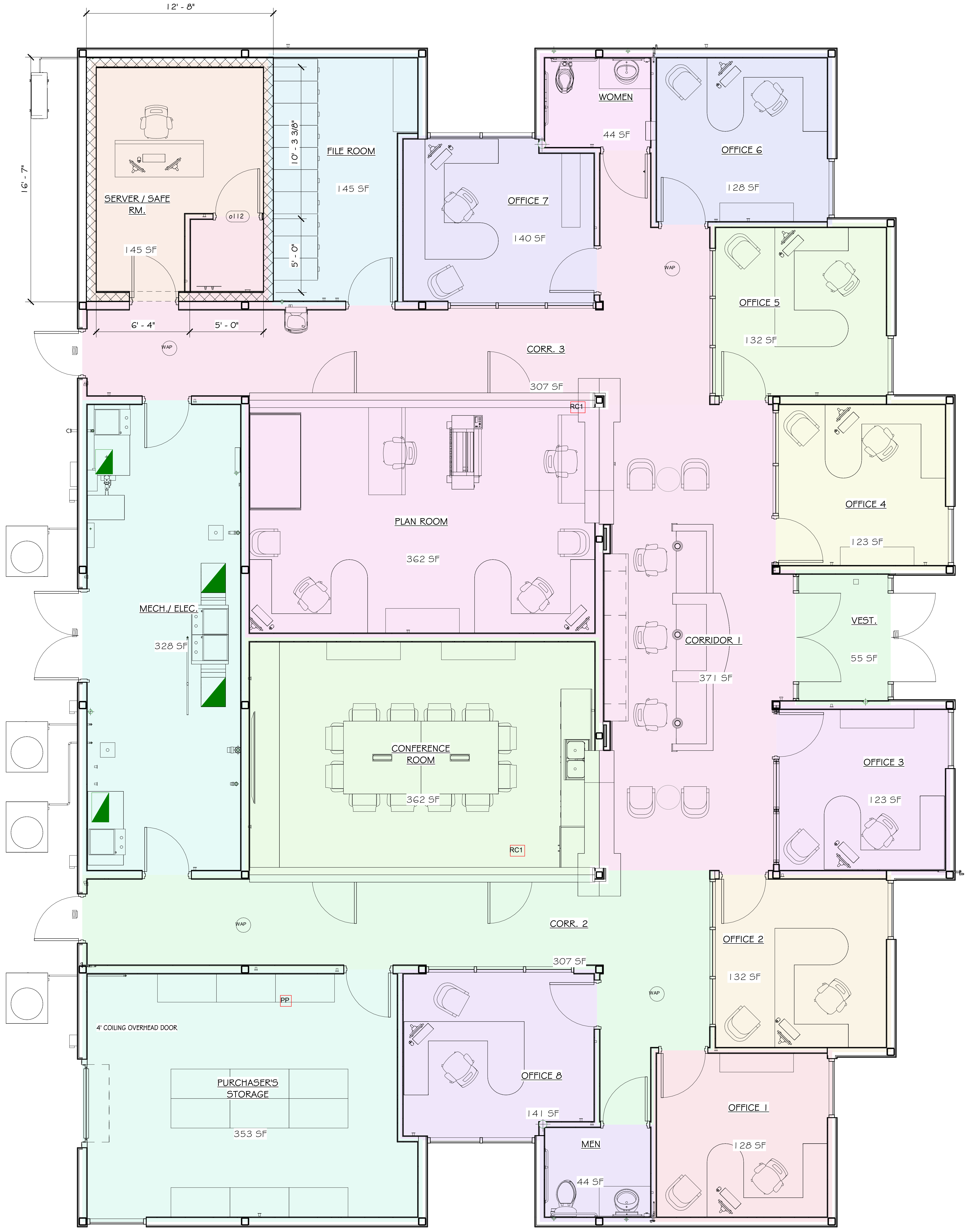

1 OFFICE BLDG. FURNITURE PLAN
1/4" = 1'-0"

STAMPS

ETC Engineers & Architects, Inc.
No. C-462
ARKANSAS

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CARL F. MENYHART, JR.
No. 1007
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

FURNITURE PLAN

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: Author Checked By: Checker

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PLUMBING GENERAL NOTES

1. THE CONTRACTOR SHALL, PRIOR TO THE START OF ANY WORK UNDER THIS CONTRACT, JOB SITE VERIFY SIZE, LOCATION, ETC. OF ANY EXISTING PIPING NOTED, SHOWN OR IMPLIED, TO WHICH NEW PIPING IS RELATED OR CONNECTED.

2. HOT AND COLD WATER SUPPLIES TO FIXTURES SHALL BE AS FOLLOWS, UNLESS SHOWN OR NOTED OTHER WISE.

WATER CLOSET	1"
URINAL	1"
LAVATORY	1/2"
SERVICE SINK	3/4"
ELECTRIC WATER COOLER	1/2"
SINK	1/2"
SHOWER	1/2"
FREEZE-PROOF WALL HYDRANT	3/4"
CLINICAL SINK	1-1/4" & 1/2"
ICE MACHINE	1/2"
SUPPLY AND DRAIN UNIT (WASHER BOX)	1/2"
HOSE BIBB	3/4"
EMERGENCY SHOWER EYEWASH	1 -1/4"

3. INSTALL WATER HAMMER ARRESTORS EQUAL TO ZURN "SHOKTROL" AT EACH QUICK CLOSING VALVE, AND AT EACH GROUP OF PLUMBING FIXTURES, AND AS NOTED ON DRAWINGS SIZED AS PER MANUFACTURERS RECOMMENDATIONS. (MUST BE ACCESSIBLE WHERE POSSIBLE, ABOVE CEILING IF NECESSARY)

4. ALL SUPPLIES TO FIXTURE SHALL BE PROVIDED WITH HIGH EAR COUPLING EQUAL TO MUELLER CO. No. C-100HE (1/2", 3/4" OR 1" SIZE) AT THE WALL (ANCHOR TO CROSS MEMBER SUPPORT) BEFORE PIPE ENTERS ROOM SPACE TO ASSURE NO PIPE MOVEMENT WITHIN WALL CAVITY.

5. ALL FLOOR DRAINS SHALL BE PROVIDED WITH DEEP SEAL TYPE TRAP WITH NOT LESS THAN FOUR INCH (4") WATER SEAL AND BE PROVIDED WITH TRAP PRIMER.

6. ALL VENTS THROUGH ROOF (V.T.R.) SHALL BE PROVIDED WITH 6# (24" X 24" SIZE) FLASHING. WHERE STANDING SEAM TYPE IS USED THE FLASHING SHALL BE IN ACCORDANCE WITH THE ROOFING MANUFACTURERS RECOMMENDATION AND AS DETAILED ON THE ARCHITECTURAL DRAWINGS. CLOSE COORDINATION WITH THE ROOFING CONTRACTOR SHALL BE MAINTAINED TO ASSURE THE VENT PENETRATION IS CENTERED WITHIN THE METAL ROOF PANELS. TYPICALLY FOR METAL OR OTHER SPECIAL MATERIAL, ROOFS - USE MANUFACTURED RUBBER BOOT WITH STAINLESS TEEL HARDWARE TYPE THAT IS ARCHITECT APPROVED AND MUST BE COMPATIBLE WITH ROOFING SYSTEM AND ROOF WARRANTY.

7. FLUSH VALVES SHALL BE MOUNTED SUCH THAT THE DIMENSION FROM FLUSH VALVE CENTERLINE TO FINISHED FLOOR SHALL BE 39". (DOES NOT APPLY TO ELECTRONIC FLUSH VALVES) WHERE HANDICAPPED GRAB BARS ARE INSTALLED ON BACK WALL AT CLOSET, FLUSH VALVE SHALL BE MOUNTED AT STANDARD HEIGHT. SEE SPECIFICATIONS AND WATER CLOSET DETAIL.

8. ⬡ WHERE THIS SYMBOL OCCURS ON THE DRAWINGS, REFERENCE SHOULD BE MADE TO THE KEYED NOTES ON THAT SAME SHEET AND THE CORRESPONDING NUMBER OF THAT NOTE.

9. WHERE PLUMBING FIXTURES ARE LOCATED ON EXTERIOR WALL, WATER PIPING SHALL BE INSTALLED ON THE THERMAL SIDE OF THE WALL INSULATION.

10. CLOSE COORDINATION AND COOPERATION SHALL BE MAINTAINED BETWEEN TRADES WITH REGARD TO PLUMBING, HVAC, FIRE PROTECTION AND ELECTRICAL PLANS.

11. PROVIDE CLEANOUT CLEARANCE IN ACCORDANCE WITH THE ARKANSAS STATE PLUMBING CODE, BUT DO NOT LOCATE IN FOOT TRAFFIC PATHWAYS. DO NOT LOCATE CLEANOUTS IN FLOORS WITH CARPET. (FIELD COORDINATE) LOCATE FLOOR CLEANOUT NEAR WALLS, IN JANITORS ROOM, STORAGE ROOM, ETC., DO NOT LOCATE NEAR DOORWAYS.

12. PROVIDE FIRE STOPPING OR FIRE STOP SLEEVE DEVICES AT ALL RATED ASSEMBLIES - SEE ARCHITECTURAL SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR DETAILS.

13. TRAP PRIMERS- LOCATE TRAP PRIMERS REASONABLY CLOSE TO PLUMBING FIXTURE (10' TO 20')- DO NOT CONNECT TRAP PRIMER TO WATER LINE LARGER THAN 1 1/2" SIZE- TRY TO LOCATE TRAP PRIMER LOWER THAN PLUMBING FIXTURES. FIELD VERIFY EXACT TRAP PRIMER LOCATIONS AND WATER PIPE ROUTING. TRAP PRIMER SHALL TYPICALLY BE PRECISION PLUMBING PRODUCTS MODEL # P2-500. WHERE FLOOR DRAINS OCCUR NEAR WATER CLOSETS - USE VACUUM BREAKER TRAP PRIMER - SLOAN "TP" - MODEL VBF-72A - EXPOSED 3/8" TUBING SHALL BE VERY MINIMAL AND CHROME PLATED WITH CAST CHROME FLANGE TO WALL.

14. COORDINATE EXACT LOCATIONS OF ALL PLUMBING PIPING WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

15. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL "ADA" PLUMBING FIXTURES

16. ALL JANITORS ROOMS SHALL HAVE FLOOR DRAINS.

17. ALL SANITARY SEWER RISERS SHALL HAVE CLEANOUT AT THE BASE (WALL CLEANOUT OR FLOOR CLEANOUT)

18. ALL STORM DRAIN PIPING SHALL HAVE CLEANOUT PLUGS AT EACH 90° TURN ABV CEILINGS AND HAVE A FLOOR OR WALL CLEANOUT AT THE BASE OF ALL RISERS.

19. INSTALL PIPING EXPANSION JOINTS IN ALL PIPING THAT CROSSES BUILDING EXPANSION JOINTS. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PLUMBING ROOF PLAN FOR BUILDING EXPANSION JOINT LOCATIONS.

20. TWO-WAY CLEANOUTS SHALL BE INSTALLED AT THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER (TYP ALL AREAS) - MUST BE INSTALLED TO MEET PLUMBING CODES, EVEN IF NOT SHOWN ON DRAWING - VERIFY AND COORDINATE WITH CIVIL UTILITY DRAWINGS.

PLUMBING LEGEND

SYMBOL	DESCRIPTION		
———	SOIL, WASTE, OR SANITARY SEWER	—‖—	UNION
—— SS ——	SANITARY SEWER (ON SITE)	FD	FLOOR DRAIN
- - - - - -	SANITARY VENT	RD	ROOF DRAIN
—— CWV ——	COMBINATION WASTE AND VENT	AD	ACCESS DOOR
—— W ——	WATER (ON SITE)	VTR	VENT THRU ROOF
—— - ——	COLD WATER	HB	HOSE BIBB
—— - - ——	HOT WATER	FPWH	FREEZE PROOF WALL HYDRANT
—— - - - ——	HOT WATER RETURN	CO	CLEANOUT PLUG
—— SD ——	STORM DRAIN	FCO	FLOOR CLEANOUT
—— D ——	INDIRECT DRAIN	AFCO	FLOOR CLEANOUT WITH ACID RESISTANT PIPING AND FITTINGS
—— G ——	NATURAL GAS (LOW PRESSURE GAS)	WCO	WALL CLEANOUT
——►——	FLOW DIRECTION	ECO	EXTERIOR CLEANOUT
—⋈—	GATE VALVE	R/1	DENOTES - SANITARY VENT STACK THRU ROOF
—⋈—	GLOBE VALVE	⊗ RISER DIAGRAM LOCATION SHEET # RISER DIAGRAM #	RISER DESIGNATION
—|\\\|—	CHECK VALVE	⧗	NEW CONNECTION TO EXISTING
—|○|—	BALL VALVE	—×—×—×—×—	EXISTING PIPING TO BE REMOVED OR ABANDONED
—|▽|—	PLUG COCK - GAS COCK	———	EXISTING PIPING TO REMAIN
—⋈—	PRESSURE REDUCING VALVE	×—×—[	CAP AND SEAL AIR OR WATER TIGHT
—|\\\|—	STRAINER	×—×—‖ ◆	TERMINATION POINT OF DEMOLITION

FIXTURE LEGEND

SYMBOL	DESCRIPTION
▨	NEW FIXTURE
■	ROUGH IN AND FINAL CONNECT ONLY
□	EXISTING FIXTURE TO REMAIN
▣	EXISTING FIXTURE TO BE REMOVED
▩	EXISTING FIXTURE (RELOCATED, OR REPAIRED - SEE NOTES)

STAMPS

MARCUS D. CATHEY
No.11043

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
PLUMBING GENERAL NOTES AND LEGENDS

Revision

Date	Description

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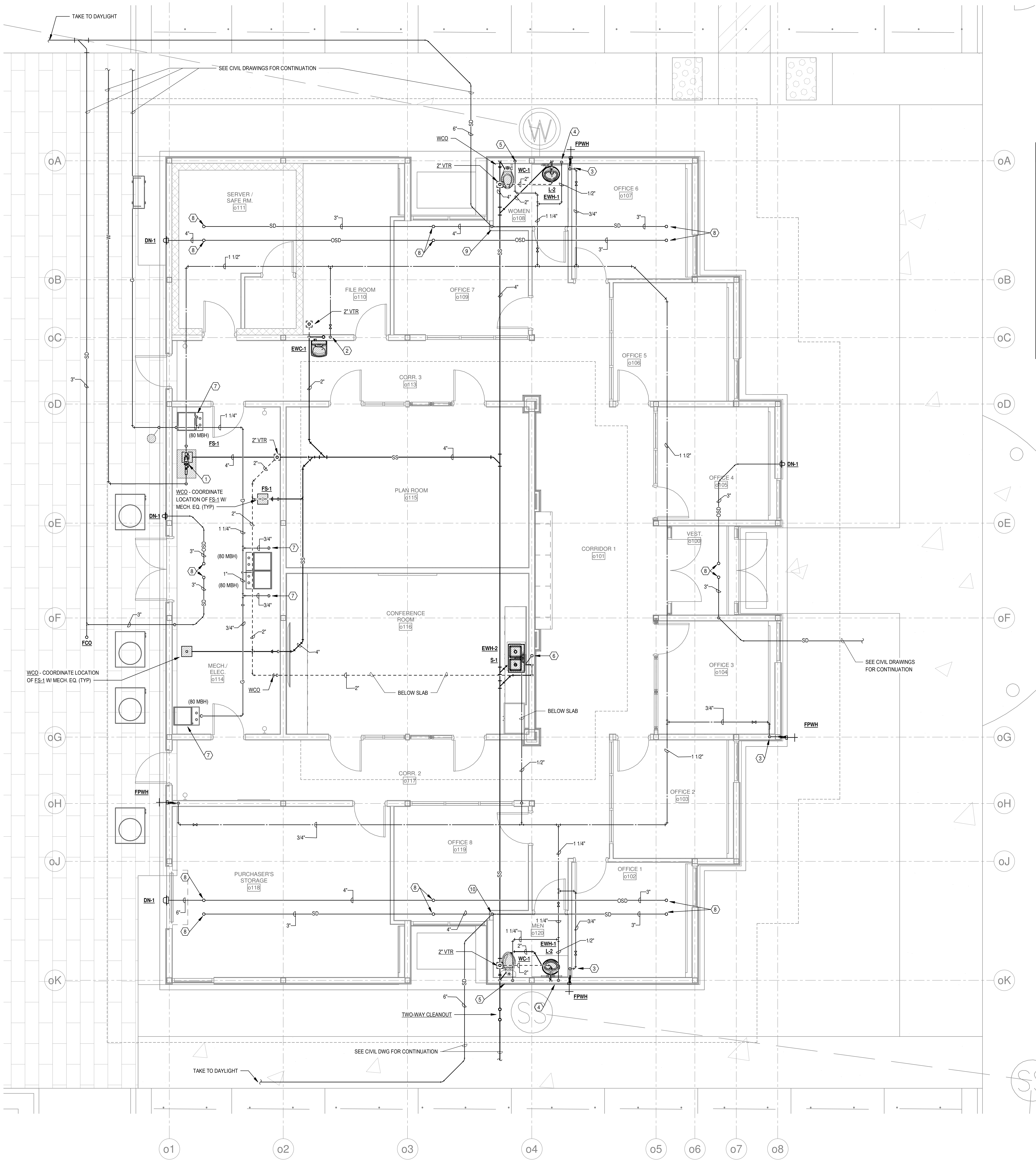

① OFFICE BUILDING FLOOR PLAN - PLUMBING
1/4" = 1'-0"

NORTH

PLUMBING KEYED NOTES

1. 1-1/2" WATTS SERIES LF 909 REDUCED PRESSURE ZONE VALVE W/ STRAINER. DISCHARGE TO FLOOR SINK. PROVIDE ROOM FOR ACCESS AND MAINTENANCE. SUPPORT WITH UNISTRUT ON WALL OR FLOOR AS REQUIRED.
2. 1/2" COLD WATER DOWN TO BOTTLE FILLING STATION.
3. 3/4" COLD WATER DOWN TO FPWH.
4. 1/2" COLD WATER DOWN TO LAVATORY. CONNECT CW TO LAV AND POINT - OF - USE WATER HEATER. EXTEND HOT WATER TO FIXTURE. 2" SAN SEWER AND 2" VENT. CW LINE TO BE ON THERMAL SIDE OF INSULATION.
5. 1-1/4" COLD WATER DOWN TO WATER CLOSET. 4" SAN SEWER AND 2" VENT. WCO AT BASE. PROVIDE AND INSTALL WATER HAMMER ARRESTOR ON CW LINE. CW LINE TO BE ON THEMAL SIDE OF INSULATION.
6. 1/2" COLD WATER FROM BELOW TO SINK. CONNECT CW TO SINK AND POINT - OF - USE WATER HEATER. EXTEND HOT WATER TO FIXTURE. SEE RISER DIAGRAM.
7. 3/4" GAS TO HVAC UNIT. PROVIDE LUBRICATED GAS COCK, DIRT LEG AND UNION (TYP).
8. UP TO 3" RD-1 ON ROOF.
9. 6" SD DOWN TO BELOW SLAB.
10.

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
OFFICE BUILDING FLOOR PLAN - PLUMBING

Revision

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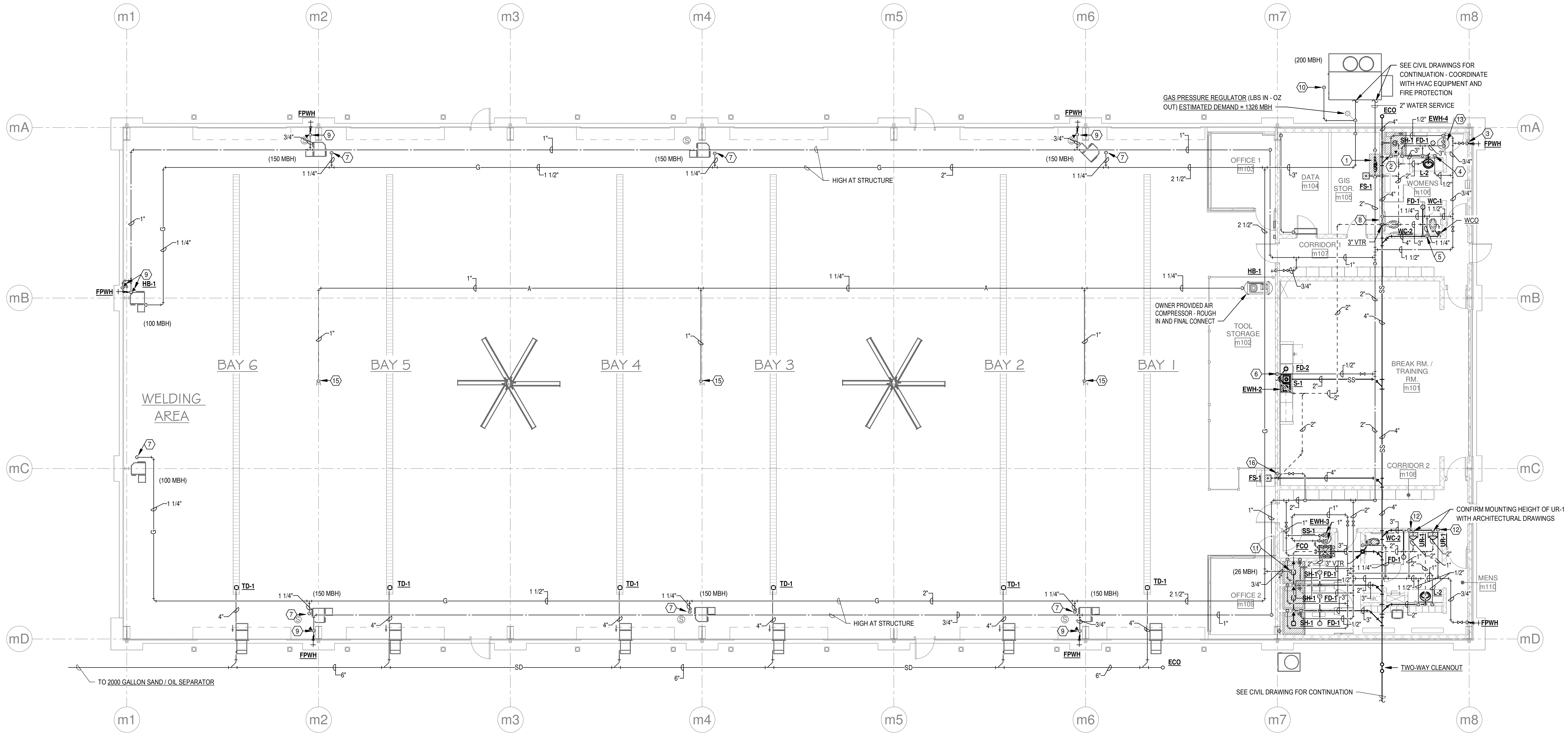
PLUMBING KEYED NOTES

1	2" WATTS SERIES LF 909 REDUCED PRESSURE ZONE VALVE W/ STRAINER. DISCHARGE TO FLOOR SINK. PROVIDE ROOM FOR ACCESS AND MAINTENANCE. SUPPORT WITH UNISTRUT ON WALL OR FLOOR AS REQUIRED. COORDINATE WITH HVAC DUCTWORK AND ELECTRICAL.
2	1/2" HOT AND COLD WATER DOWN TO SHOWER.
3	3/4" COLD WATER DOWN TO FPWH.
4	1/2" COLD WATER DOWN TO LAVATORY. CONNECT CW TO LAV AND POINT - OF - USE WATER HEATER. EXTEND HOT WATER TO FIXTURE. 2" SAN SEWER AND 2" VENT.
5	1-1/4" COLD WATER DOWN TO WATER CLOSET. 4" SAN SEWER AND 2" VENT. WCO AT BASE. PROVIDE AND INSTALL WATER HAMMER ARRESTOR ON CW LINE.
6	1/2" COLD WATER DOWN TO SINK. CONNECT CW TO SINK AND POINT - OF - USE WATER HEATER. EXTEND HOT WATER TO FIXTURE. 2" SAN SEWER AND 2" VENT.
7	1-1/4" GAS TO HVAC UNIT. PROVIDE LUBRICATED GAS COCK, DIRT LEG AND UNION (TYP).
8	1-1/4" COLD WATER DOWN TO WATER CLOSET. 4" SAN SEWER AND 2" VENT TO ROOF. PROVIDE AND INSTALL WATER HAMMER ARRESTOR ON CW LINE.
9	3/4" COLD WATER DOWN TO FPWH. GATE SHUTOFF VALVE IN VERTICAL AT APPROX. 5'-0" AFF. COLD WATER LINE TO BE ON THERMAL SIDE OF INSULATION.
10	1-1/2" GAS TO HVAC UNIT. PROVIDE LUBRICATED GAS COCK, DIRT LEG AND UNION (TYP). CONNECT GAS LINE DOWNSTREAM OF REGULATOR.
11	3/4" GAS TO HVAC UNIT. PROVIDE LUBRICATED GAS COCK, DIRT LEG AND UNION (TYP).
12	1" COLD WATER DOWN TO UR-1. 2" SAN SEWER AND 2" VENT.
13	3/4" COLD WATER TO WATER HEATER. 3/4" HOT WATER FROM WATER HEATER TO LAVATORY AND SHOWER. LOCATE WATER HEATER ABOVE CEILING. PROVIDE ACCESS TO WATER HEATER.
14	OWNER FURNISHED AIR COMPRESSOR. VERIFY LOCATION WITH OWNER AND ARCHITECT. ROUGH IN AND FINAL CONNECT.
15	1" COMPRESSED AIR DROP TO (2) AIR REELS. COORDINATE AIR DROPS WITH OWNER AND WITH LOCATION WITH LIFT. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR MOUNTING CRITERIA OF HOSE REELS.
16	1/2" COLD WATER DOWN TO ICE MAKER.



1 MAINTENANCE BLDG. FLOOR PLAN - PLUMBING
1/8" = 1'-0"

NORTH

STAMPS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
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7/29/22

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
MAINTENANCE BLDG. FLOOR PLAN - PLUMBING

Revision	
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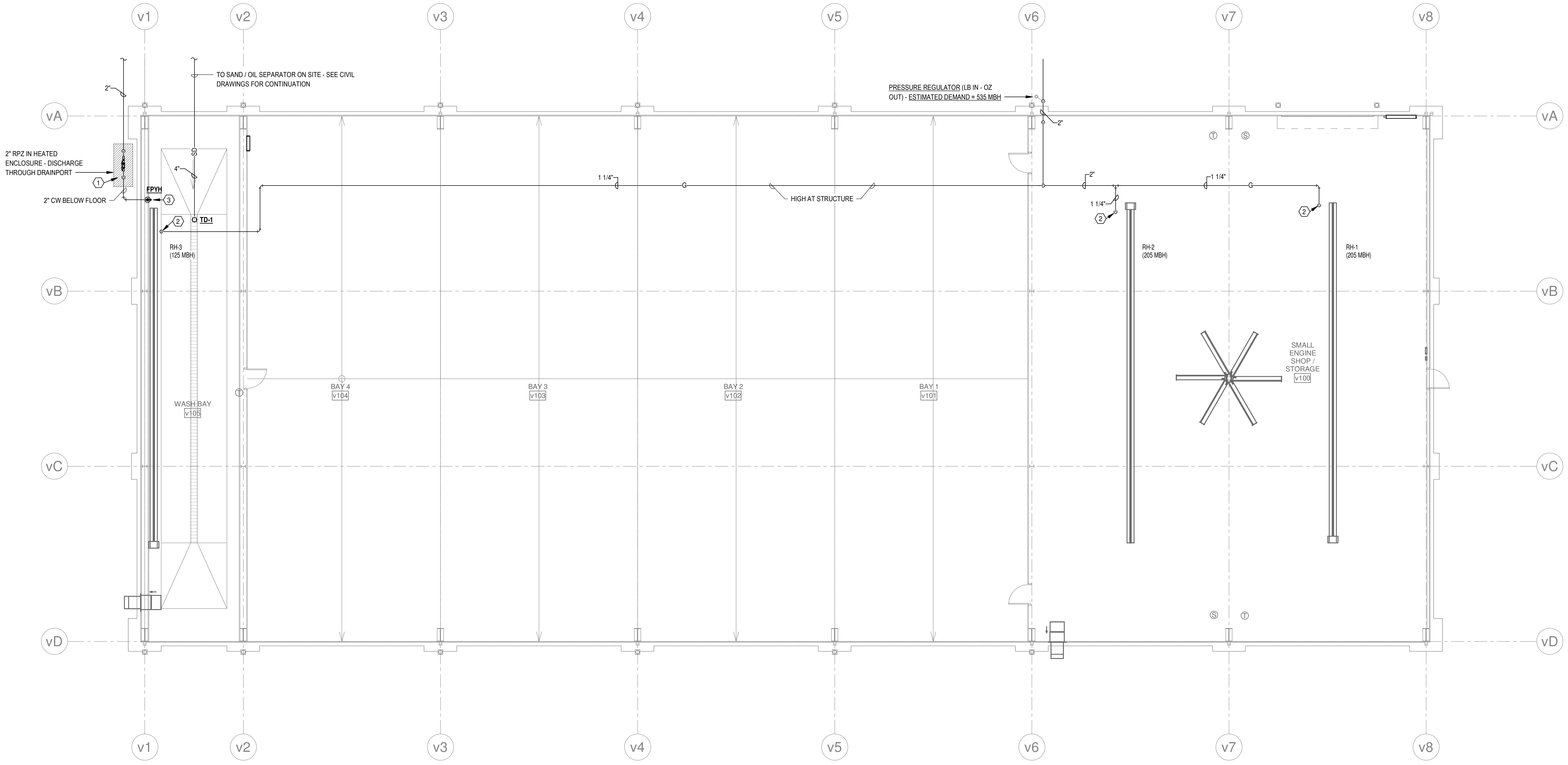
PLUMBING KEYED NOTES

1. 2" WATTS SERIES LF 909 REDUCED PRESSURE ZONE VALVE W/ STRAINER. DISCHARGE TO DRAINPORT. PROVIDE ROOM FOR ACCESS AND MAINTENANCE.
2. 1-1/4" GAS TO HVAC UNIT. PROVIDE LUBRICATED GAS COCK, DIRT LEG AND UNION (TYP).
3. 1" COLD WATER UP TO FREEZE PROOF YARD HYDRANT. VERIFY LOCATION OF HYDRANT WITH OWNER.



v1
v2
v3
v4
v5
v6
v7
v8
vA
vB
vC
vD
2"
TO SAND / OIL SEPARATOR ON SITE - SEE CIVIL DRAWINGS FOR CONTINUATION
PRESSURE REGULATOR (LB IN - OZ OUT) - ESTIMATED DEMAND = 535 MBH
2"
2" RPZ IN HEATED ENCLOSURE - DISCHARGE THROUGH DRAINPORT
1
2" CW BELOW FLOOR
FPYH
3
SD
4"
2
TD-1
RH-3
(125 MBH)
1 1/4"
G
HIGH AT STRUCTURE
2"
1 1/4"
1 1/4"
G
2
2
RH-2
(205 MBH)
RH-1
(205 MBH)
T
S
SMALL ENGINE SHOP / STORAGE
v100
WASH BAY
v105
BAY 4
v104
BAY 3
v103
BAY 2
v102
BAY 1
v101
S
T

① VEHICLE STORAGE BLDG. FLOOR PLAN - PLUMBING
1/8" = 1'-0"

NORTH

STAMPS

STATE OF ARKANSAS
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
VEHICLE STORAGE BLDG. FLOOR PLAN - PLUMBING

Revision	
Date	Description

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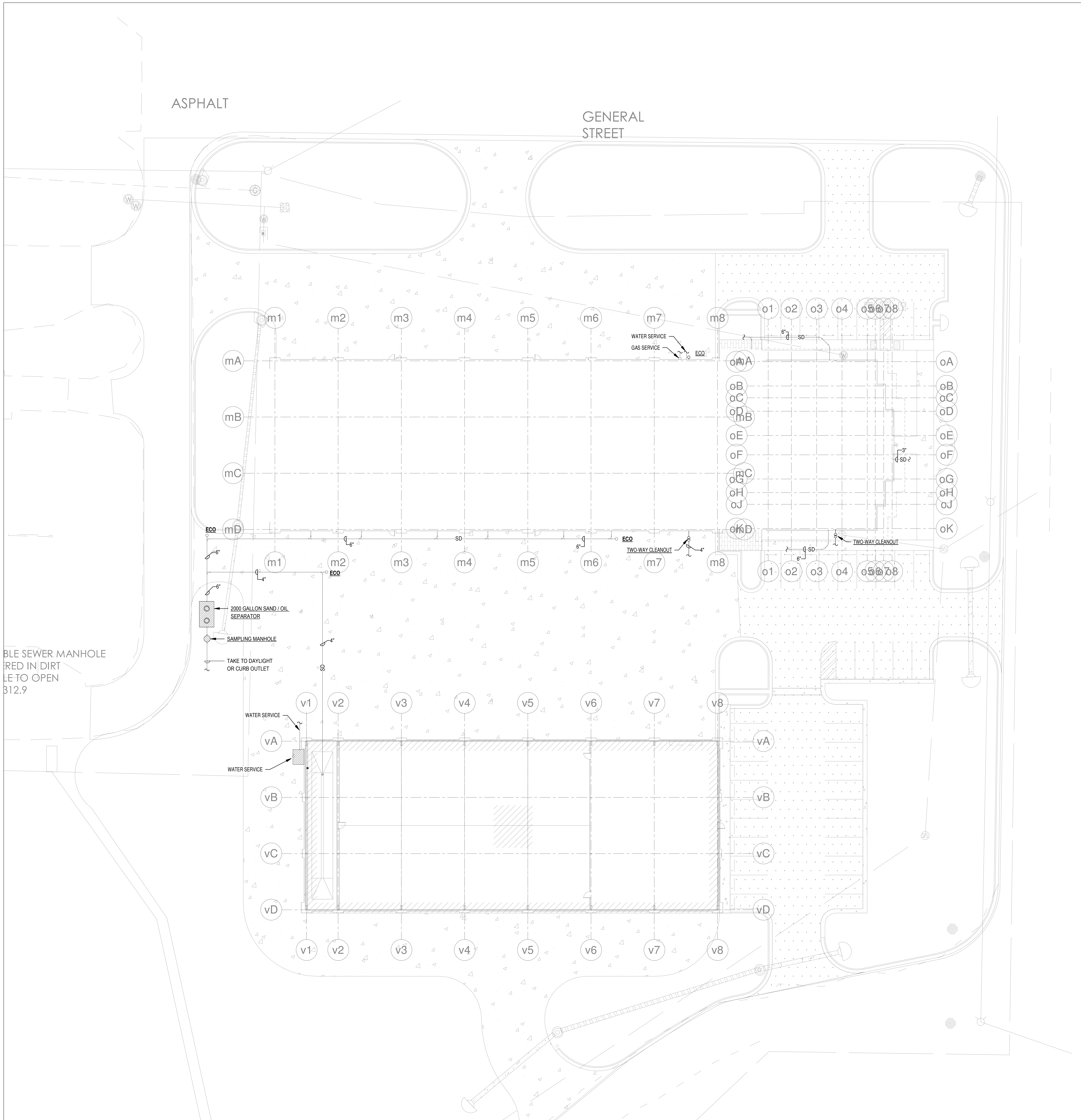

1 SITE PLUMBING PLAN
1" = 20'-0"

NORTH

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
SITE PLUMBING PLAN

Revision

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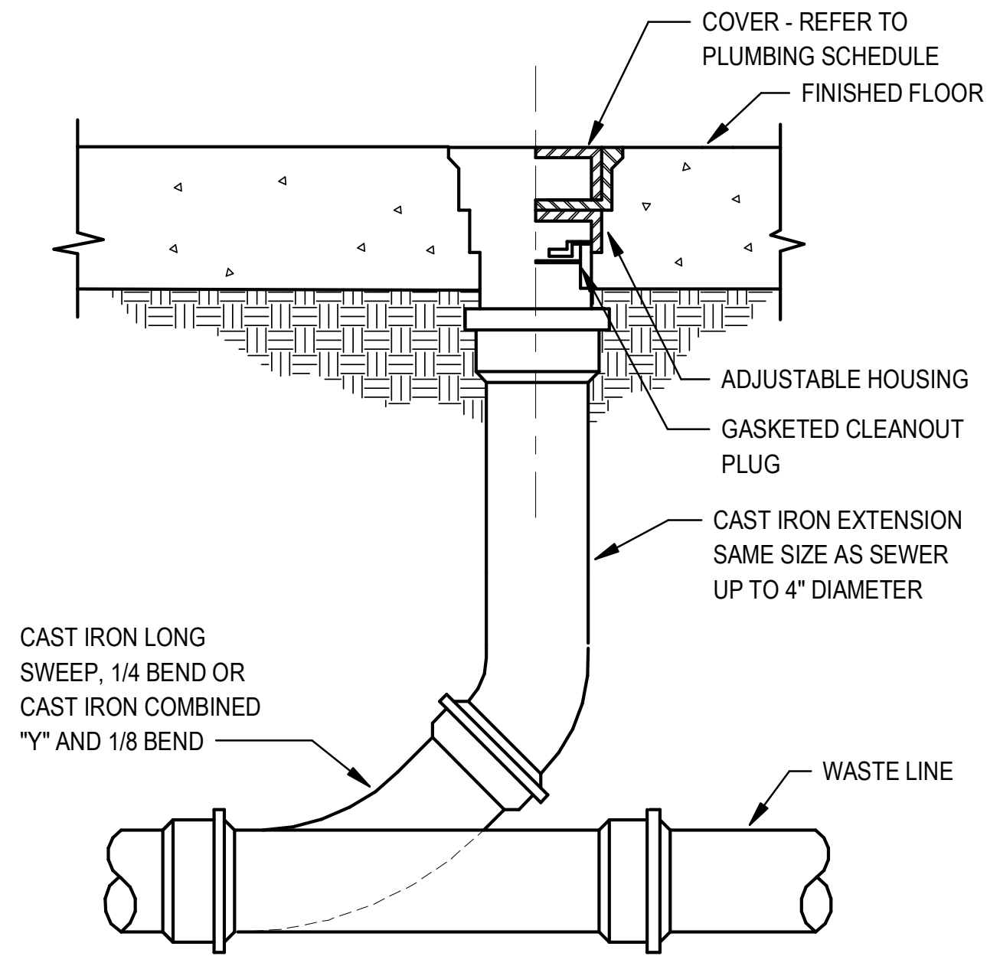
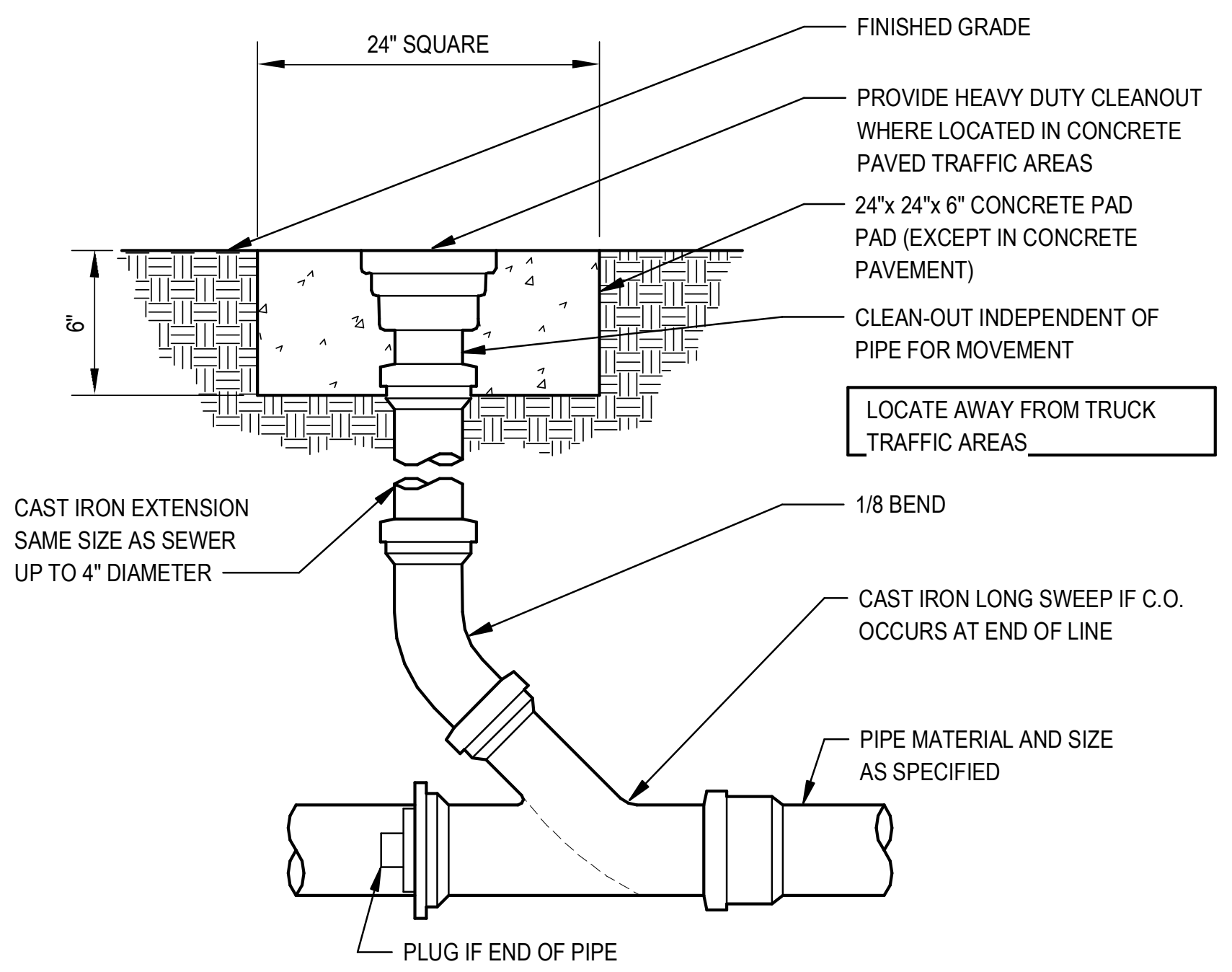
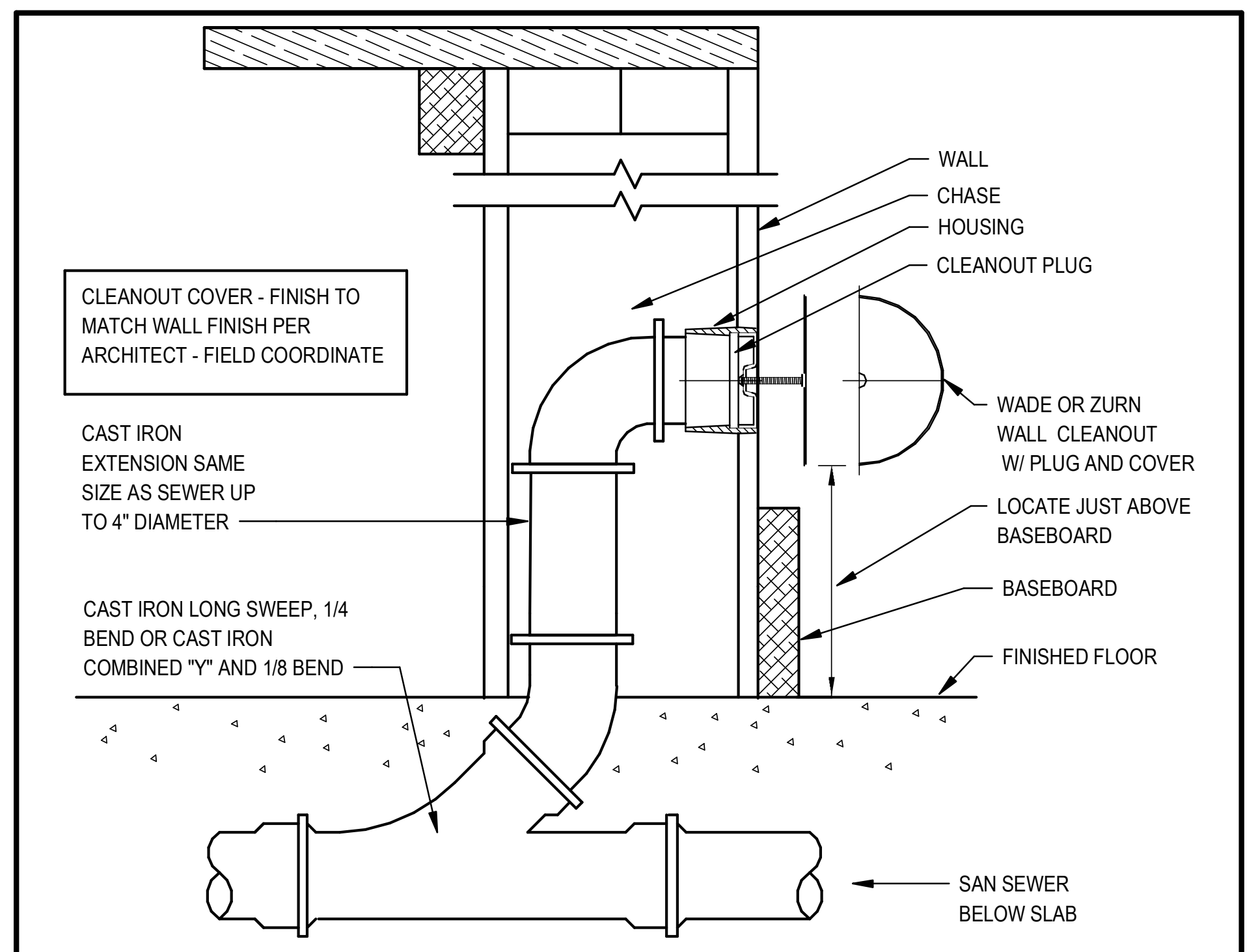

COVER - REFER TO PLUMBING SCHEDULE
FINISHED FLOOR
ADJUSTABLE HOUSING
GASKETED CLEANOUT PLUG
CAST IRON EXTENSION SAME SIZE AS SEWER UP TO 4" DIAMETER
CAST IRON LONG SWEEP, 1/4 BEND OR CAST IRON COMBINED "Y" AND 1/8 BEND
WASTE LINE

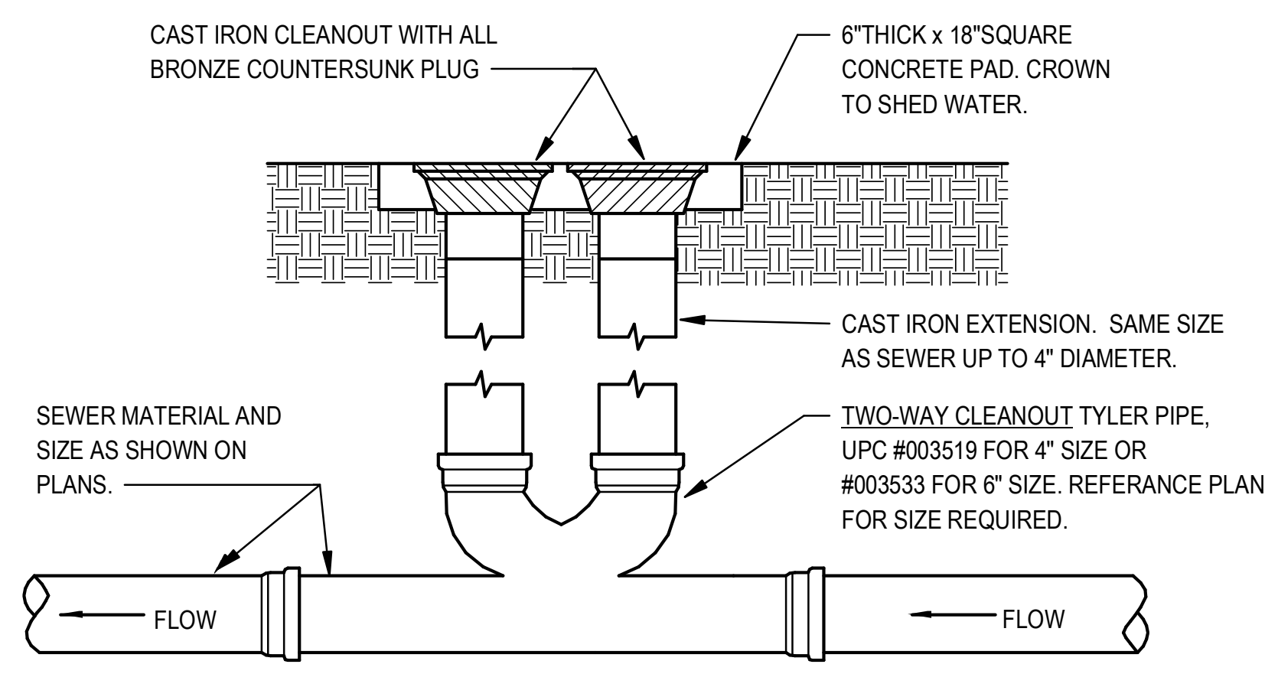
① FLOOR CLEAN-OUT (FCO)
SCALE: NONE


24" SQUARE
6"
FINISHED GRADE
PROVIDE HEAVY DUTY CLEANOUT WHERE LOCATED IN CONCRETE PAVED TRAFFIC AREAS
24"x 24"x 6" CONCRETE PAD PAD (EXCEPT IN CONCRETE PAVEMENT)
CLEAN-OUT INDEPENDENT OF PIPE FOR MOVEMENT
LOCATE AWAY FROM TRUCK TRAFFIC AREAS
CAST IRON EXTENSION SAME SIZE AS SEWER UP TO 4" DIAMETER
1/8 BEND
CAST IRON LONG SWEEP IF C.O. OCCURS AT END OF LINE
PIPE MATERIAL AND SIZE AS SPECIFIED
PLUG IF END OF PIPE

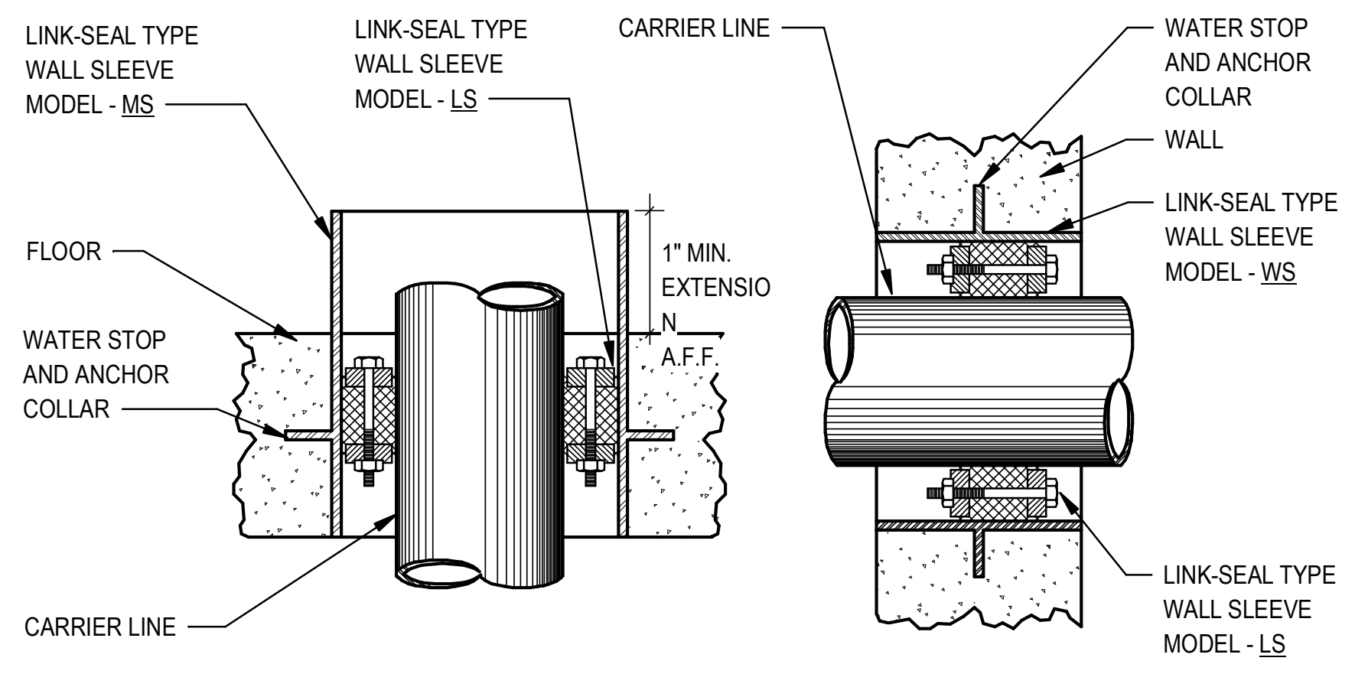
② EXTERIOR CLEAN-OUT (ECO)
SCALE: NONE


WALL
CHASE
HOUSING
CLEANOUT PLUG
CLEANOUT COVER - FINISH TO MATCH WALL FINISH PER ARCHITECT - FIELD COORDINATE
CAST IRON EXTENSION SAME SIZE AS SEWER UP TO 4" DIAMETER
WADE OR ZURN WALL CLEANOUT W/ PLUG AND COVER
LOCATE JUST ABOVE BASEBOARD
BASEBOARD
CAST IRON LONG SWEEP, 1/4 BEND OR CAST IRON COMBINED "Y" AND 1/8 BEND
FINISHED FLOOR
SAN SEWER BELOW SLAB

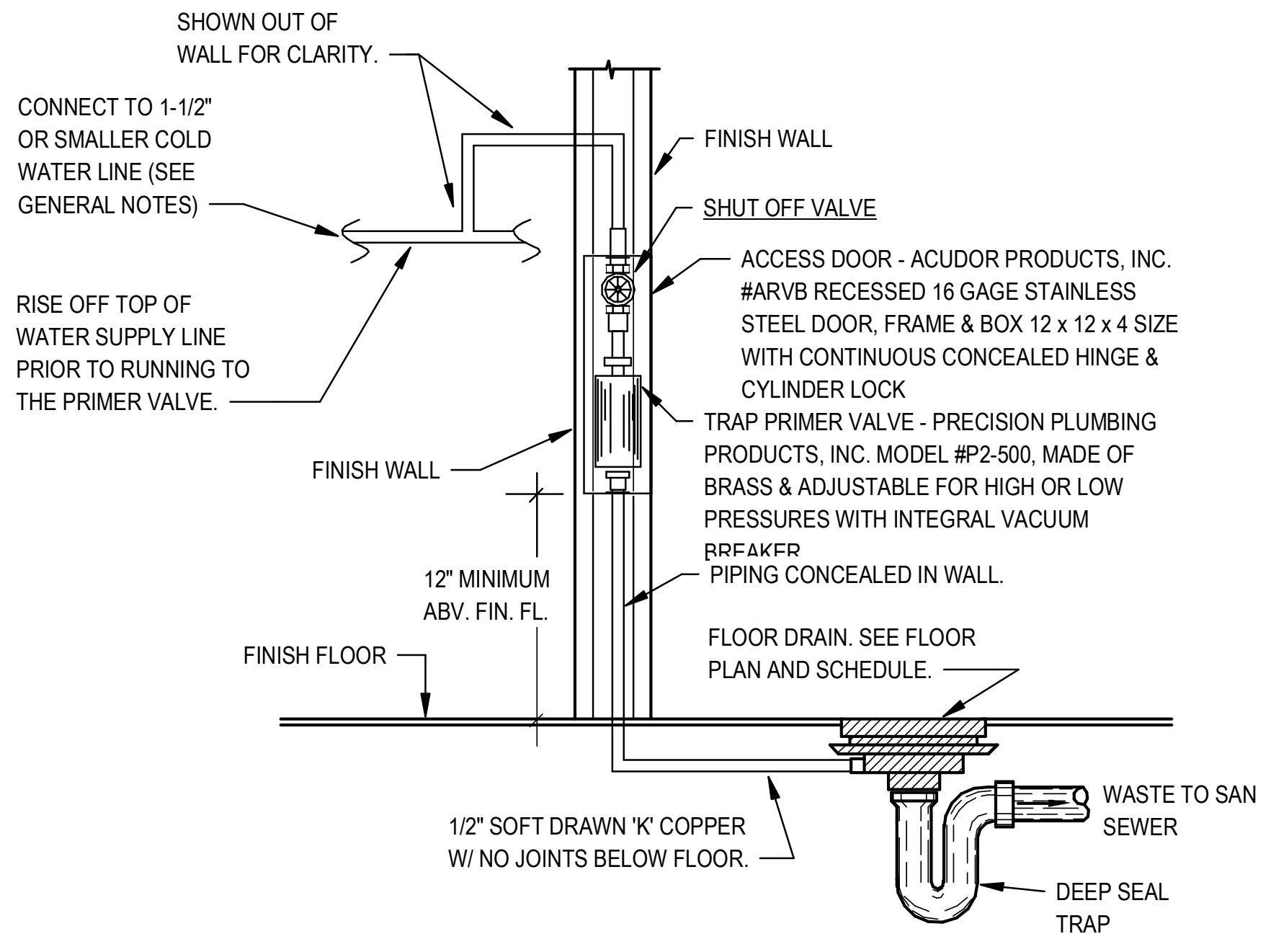
③ WALL CLEAN-OUT (WCO)
SCALE: NONE


CAST IRON CLEANOUT WITH ALL BRONZE COUNTERSUNK PLUG
6"THICK x 18"SQUARE CONCRETE PAD. CROWN TO SHED WATER.
CAST IRON EXTENSION. SAME SIZE AS SEWER UP TO 4" DIAMETER.
SEWER MATERIAL AND SIZE AS SHOWN ON PLANS.
TWO-WAY CLEANOUT TYLER PIPE, UPC #003519 FOR 4" SIZE OR #003533 FOR 6" SIZE. REFERANCE PLANS FOR SIZE REQUIRED.
FLOW
FLOW

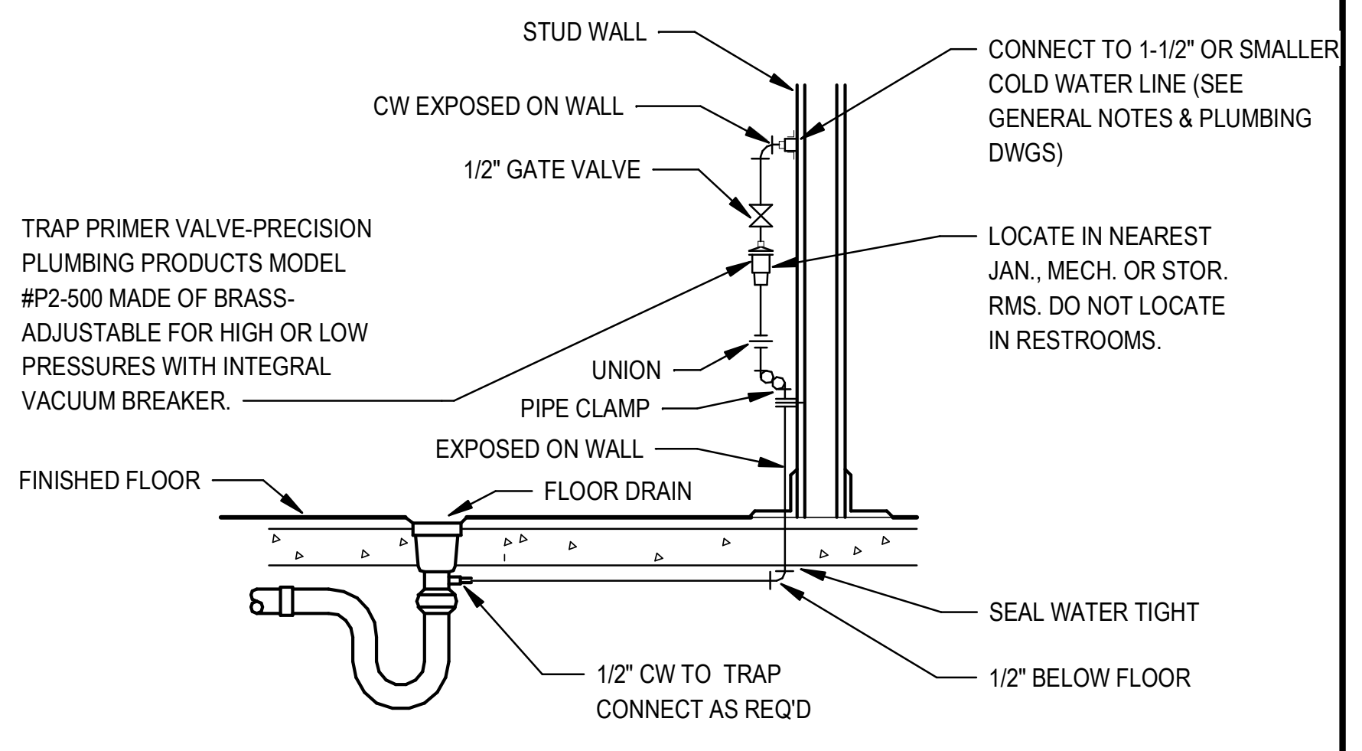
④ TWO-WAY CLEANOUT TO GRADE DETAIL
SCALE: NONE


LINK-SEAL TYPE WALL SLEEVE MODEL - MS
LINK-SEAL TYPE WALL SLEEVE MODEL - LS
FLOOR
1" MIN. EXTENSION A.F.F.
WATER STOP AND ANCHOR COLLAR
CARRIER LINE
CARRIER LINE
WATER STOP AND ANCHOR COLLAR
WALL
LINK-SEAL TYPE WALL SLEEVE MODEL - WS
LINK-SEAL TYPE WALL SLEEVE MODEL - LS

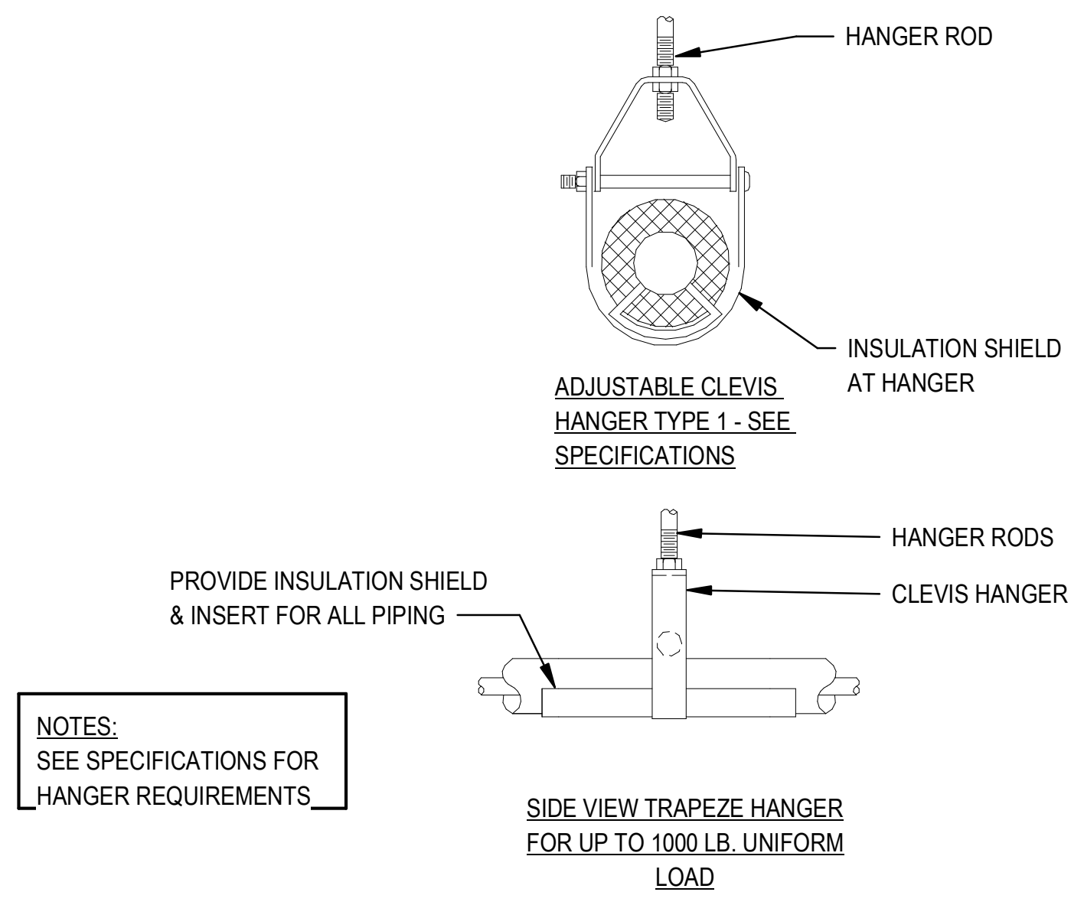
⑤ WATERPROOF SLEEVE DETAIL
SCALE: NONE
(TYPICAL FOR ALL MAIN WATER AND FIRE PIPE PENETRATIONS THROUGH GROUND FLOOR SLABS AND WALLS THAT ARE BELOW GRADE)


SHOWN OUT OF WALL FOR CLARITY.
CONNECT TO 1-1/2" OR SMALLER COLD WATER LINE (SEE GENERAL NOTES)
RISE OFF TOP OF WATER SUPPLY LINE PRIOR TO RUNNING TO THE PRIMER VALVE.
FINISH WALL
SHUT OFF VALVE
ACCESS DOOR - ACUDOR PRODUCTS, INC. #ARVB RECESSED 16 GAGE STAINLESS STEEL DOOR, FRAME & BOX 12 x 12 x 4 SIZE WITH CONTINUOUS CONCEALED HINGE & CYLINDER LOCK
TRAP PRIMER VALVE - PRECISION PLUMBING PRODUCTS, INC. MODEL #P2-500, MADE OF BRASS & ADJUSTABLE FOR HIGH OR LOW PRESSURES WITH INTEGRAL VACUUM BREAKER
FINISH WALL
12" MINIMUM ABV. FIN. FL.
PIPING CONCEALED IN WALL.
FINISH FLOOR
FLOOR DRAIN. SEE FLOOR PLAN AND SCHEDULE.
1/2" SOFT DRAWN 'K' COPPER W/ NO JOINTS BELOW FLOOR.
WASTE TO SAN SEWER
DEEP SEAL TRAP

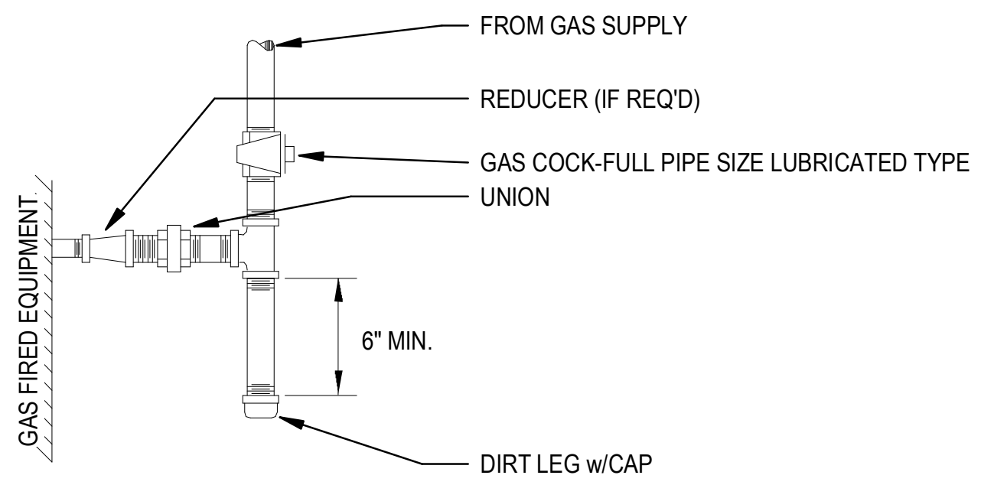
⑥ TRAP PRIMER DETAIL
SCALE: NONE
(FOR CONCEALED LOCATIONS)


STUD WALL
CW EXPOSED ON WALL
1/2" GATE VALVE
CONNECT TO 1-1/2" OR SMALLER COLD WATER LINE (SEE GENERAL NOTES & PLUMBING DWGS)
TRAP PRIMER VALVE-PRECISION PLUMBING PRODUCTS MODEL #P2-500 MADE OF BRASS-ADJUSTABLE FOR HIGH OR LOW PRESSURES WITH INTEGRAL VACUUM BREAKER.
LOCATE IN NEAREST JAN., MECH. OR STOR. RMS. DO NOT LOCATE IN RESTROOMS.
UNION
PIPE CLAMP
EXPOSED ON WALL
FINISHED FLOOR
FLOOR DRAIN
SEAL WATER TIGHT
1/2" CW TO TRAP CONNECT AS REQ'D
1/2" BELOW FLOOR

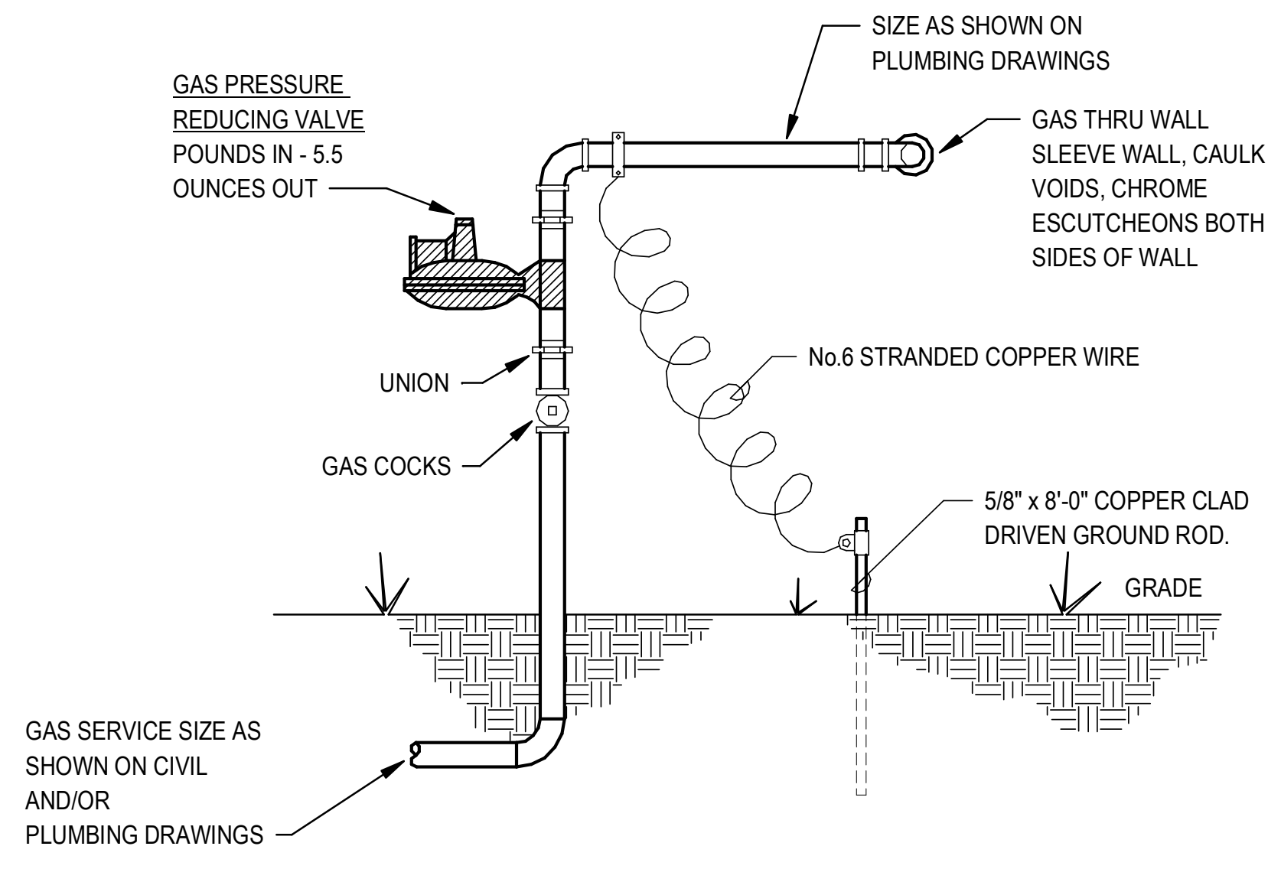
⑦ TRAP PRIMER TO FLOOR DRAIN DETAIL
SCALE: NONE
(FOR EXPOSED LOCATIONS)


HANGER ROD
INSULATION SHIELD AT HANGER
ADJUSTABLE CLEVIS HANGER TYPE 1 - SEE SPECIFICATIONS
HANGER RODS
CLEVIS HANGER
PROVIDE INSULATION SHIELD & INSERT FOR ALL PIPING
NOTES: SEE SPECIFICATIONS FOR HANGER REQUIREMENTS
SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

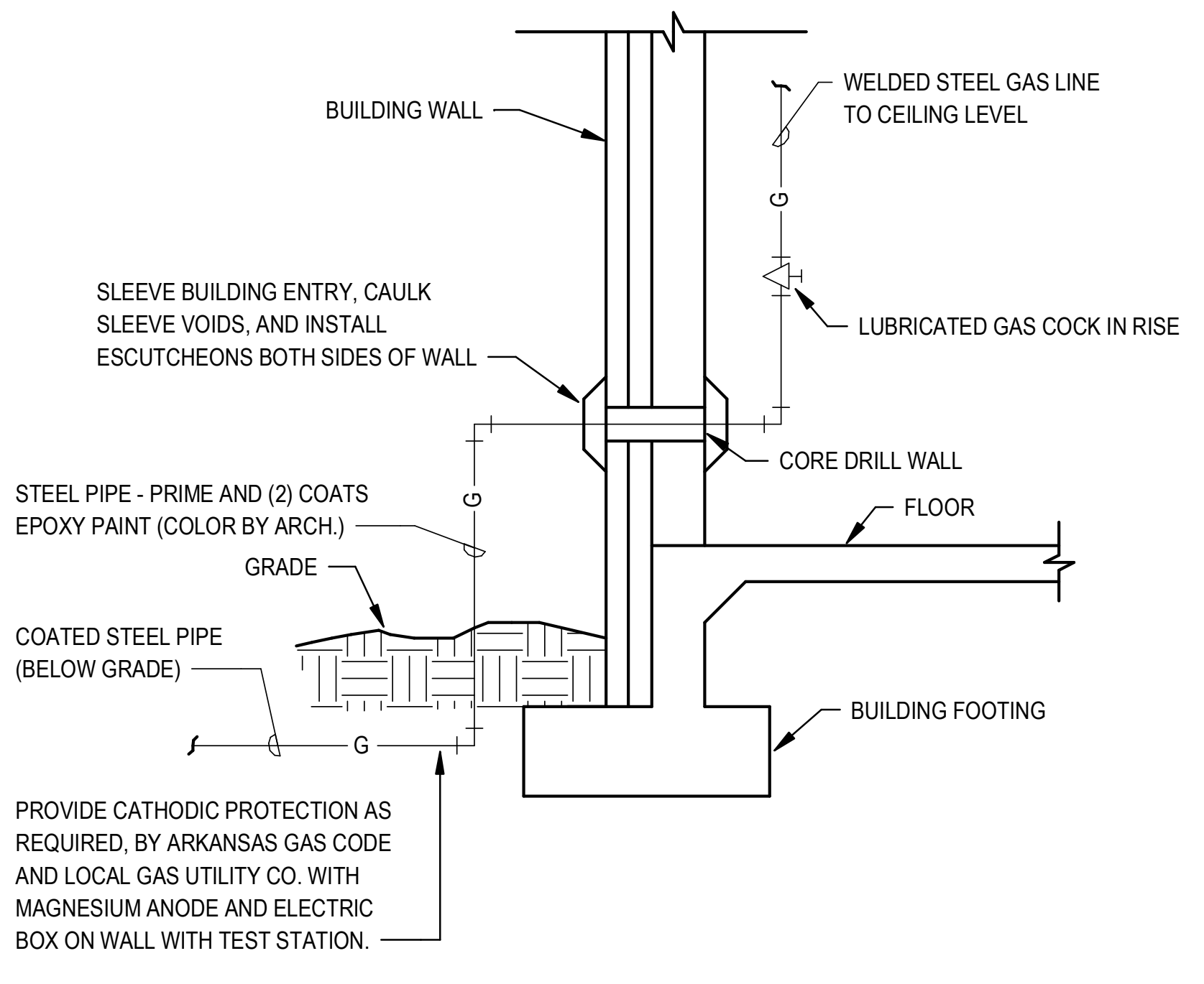
⑧ PIPING HANGER DETAIL
SCALE: NONE



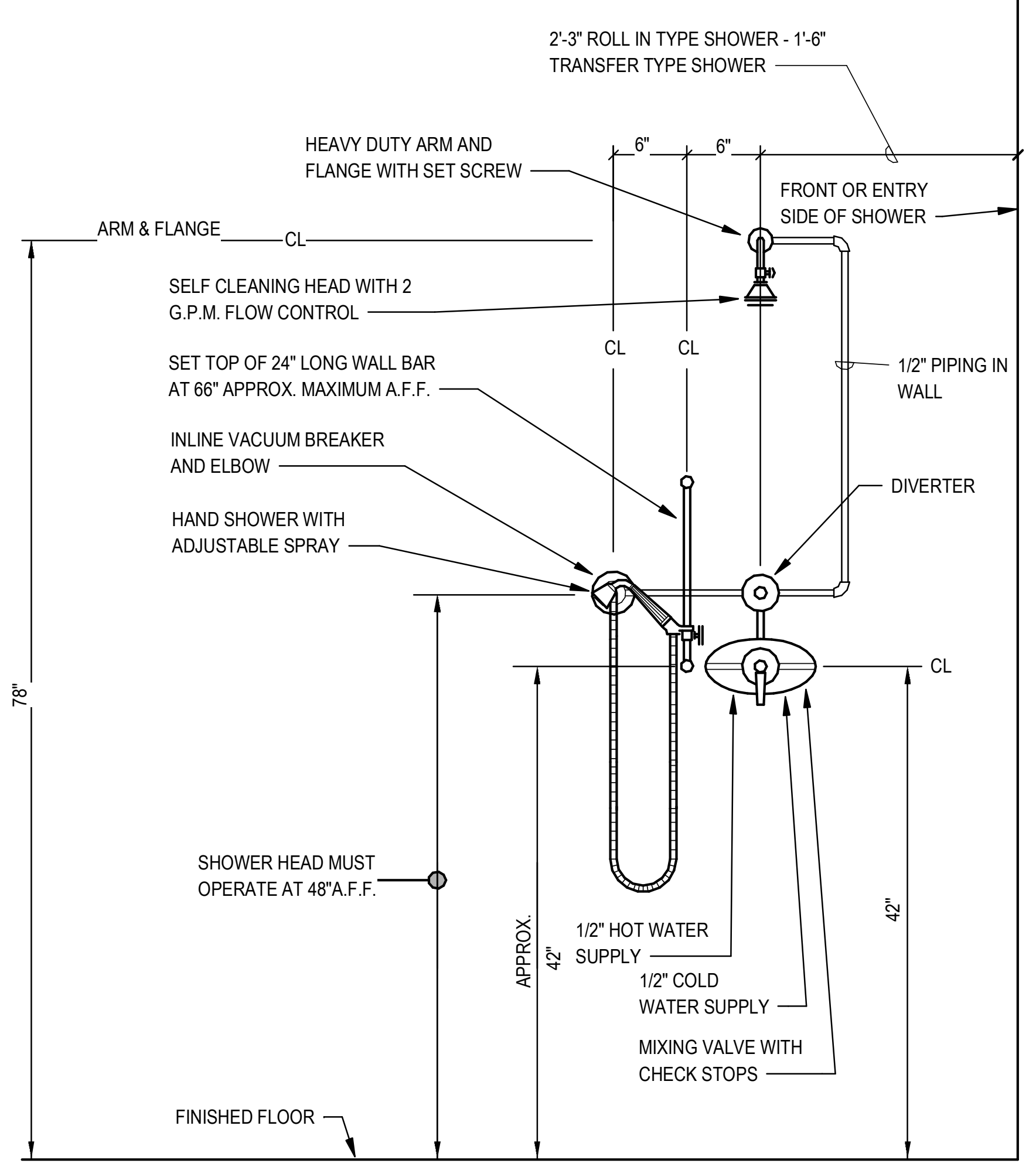
⑨ TYPICAL GAS CONNECTION
SCALE: NONE


GAS PRESSURE REDUCING VALVE POUNDS IN - 5.5 OUNCES OUT
SIZE AS SHOWN ON PLUMBING DRAWINGS
GAS THRU WALL SLEEVE WALL, CAULK VOIDS, CHROME ESCUTCHEONS BOTH SIDES OF WALL
No.6 STRANDED COPPER WIRE
UNION
GAS COCKS
5/8" x 8'-0" COPPER CLAD DRIVEN GROUND ROD.
GRADE
GAS SERVICE SIZE AS SHOWN ON CIVIL AND/OR PLUMBING DRAWINGS

⑩ GAS P.R.V. DETAIL
SCALE: NONE


BUILDING WALL
WELDED STEEL GAS LINE TO CEILING LEVEL
G
SLEEVE BUILDING ENTRY, CAULK SLEEVE VOIDS, AND INSTALL ESCUTCHEONS BOTH SIDES OF WALL
LUBRICATED GAS COCK IN RISE
CORE DRILL WALL
STEEL PIPE - PRIME AND (2) COATS EPOXY PAINT (COLOR BY ARCH.)
FLOOR
G
GRADE
COATED STEEL PIPE (BELOW GRADE)
G
BUILDING FOOTING
PROVIDE CATHODIC PROTECTION AS REQUIRED, BY ARKANSAS GAS CODE AND LOCAL GAS UTILITY CO. WITH MAGNESIUM ANODE AND ELECTRIC BOX ON WALL WITH TEST STATION.

⑪ TYPICAL GAS SERVICE INTO BUILDING DETAIL
SCALE: NONE


2'-3" ROLL IN TYPE SHOWER - 1'-6" TRANSFER TYPE SHOWER
HEAVY DUTY ARM AND FLANGE WITH SET SCREW
6"
6"
FRONT OR ENTRY SIDE OF SHOWER
ARM & FLANGE
CL
SELF CLEANING HEAD WITH 2 G.P.M. FLOW CONTROL
CL
CL
1/2" PIPING IN WALL
SET TOP OF 24" LONG WALL BAR AT 66" APPROX. MAXIMUM A.F.F.
INLINE VACUUM BREAKER AND ELBOW
DIVERTER
HAND SHOWER WITH ADJUSTABLE SPRAY
CL
78"
SHOWER HEAD MUST OPERATE AT 48"A.F.F.
APPROX. 42"
1/2" HOT WATER SUPPLY
1/2" COLD WATER SUPPLY
42"
MIXING VALVE WITH CHECK STOPS
FINISHED FLOOR

⑫ A.D.A. SHOWER DETAIL
SCALE: NONE

STAMPS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CATHEY
7/29/22

CORPORATE REGISTRATION PETTIT & PETTIT CONSULTING ENGINEERS, INC. No. 78 ARKANSAS ENGINEER

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
PLUMBING DETAILS

Revision

Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
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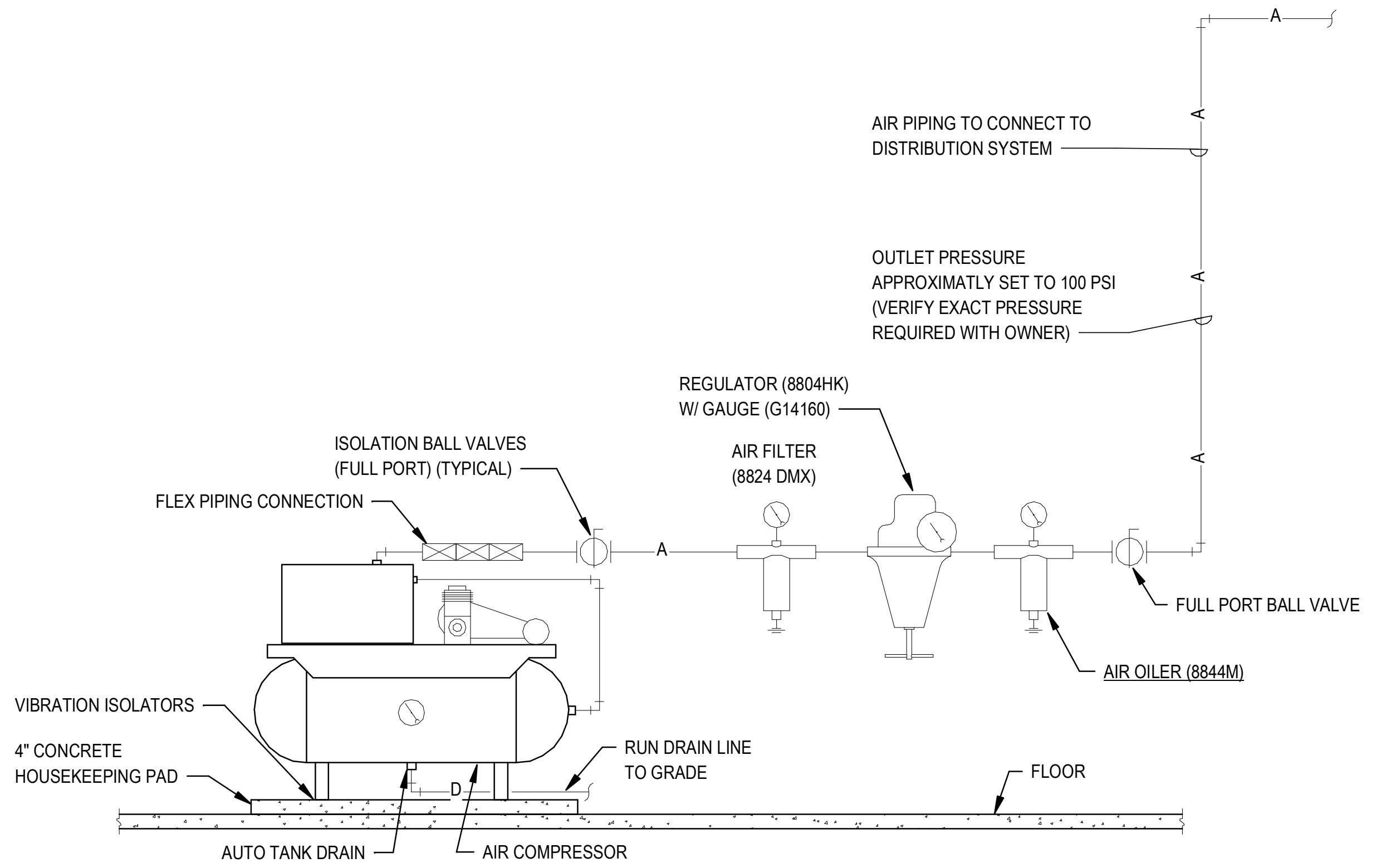
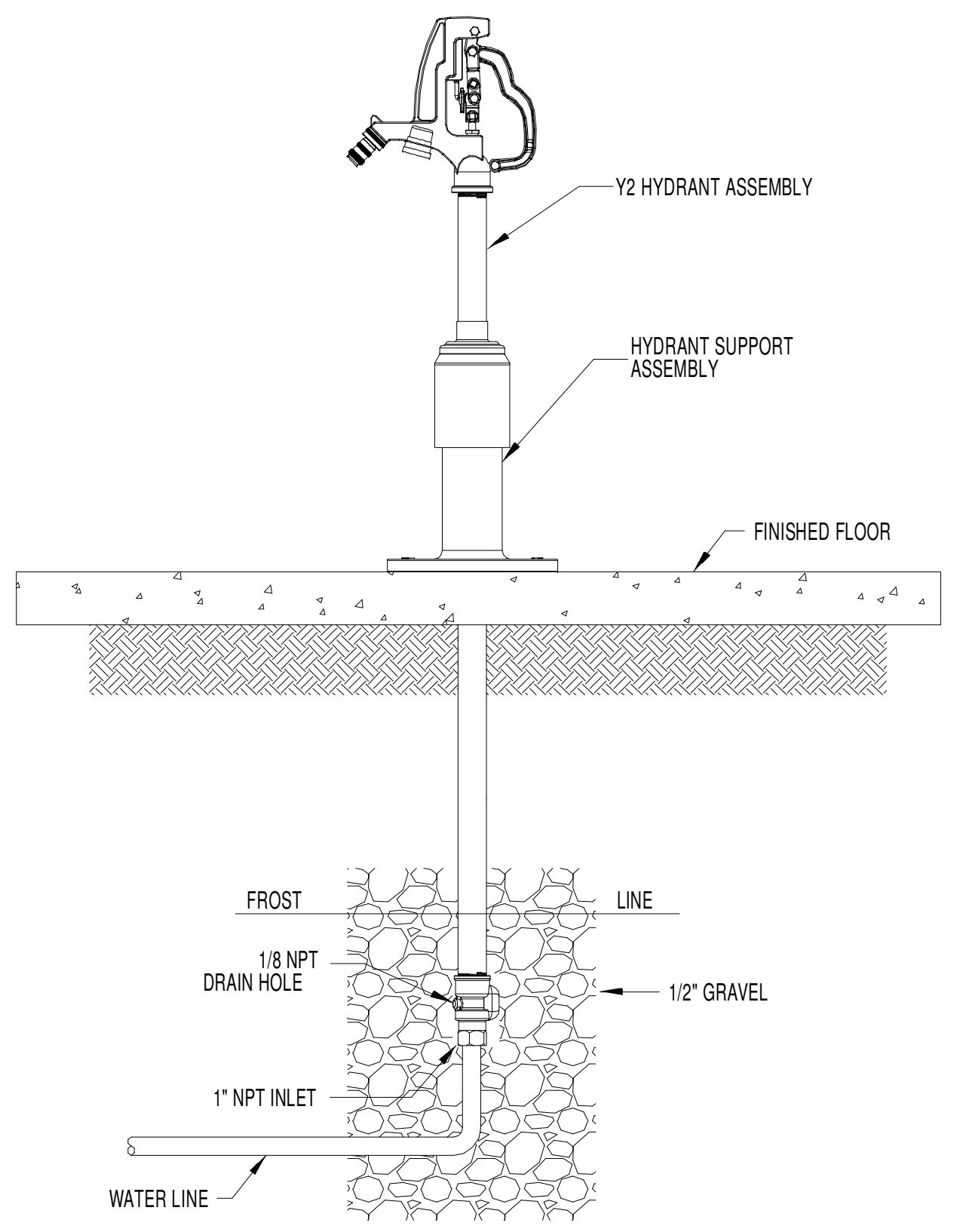

A
AIR PIPING TO CONNECT TO DISTRIBUTION SYSTEM
OUTLET PRESSURE APPROXIMATLY SET TO 100 PSI (VERIFY EXACT PRESSURE REQUIRED WITH OWNER)
REGULATOR (8804HK) W/ GAUGE (G14160)
AIR FILTER (8824 DMX)
ISOLATION BALL VALVES (FULL PORT) (TYPICAL)
FLEX PIPING CONNECTION
FULL PORT BALL VALVE
AIR OILER (8844M)
VIBRATION ISOLATORS
4" CONCRETE HOUSEKEEPING PAD
RUN DRAIN LINE TO GRADE
FLOOR
D
AUTO TANK DRAIN
AIR COMPRESSOR

NOTE: ALL AIR EQUIPMENT SHALL BE EQUAL TO THOSE MANUFACTURED BY COILHOSE PNEUMATICS OF EAST BRUNSWICK, NJ.

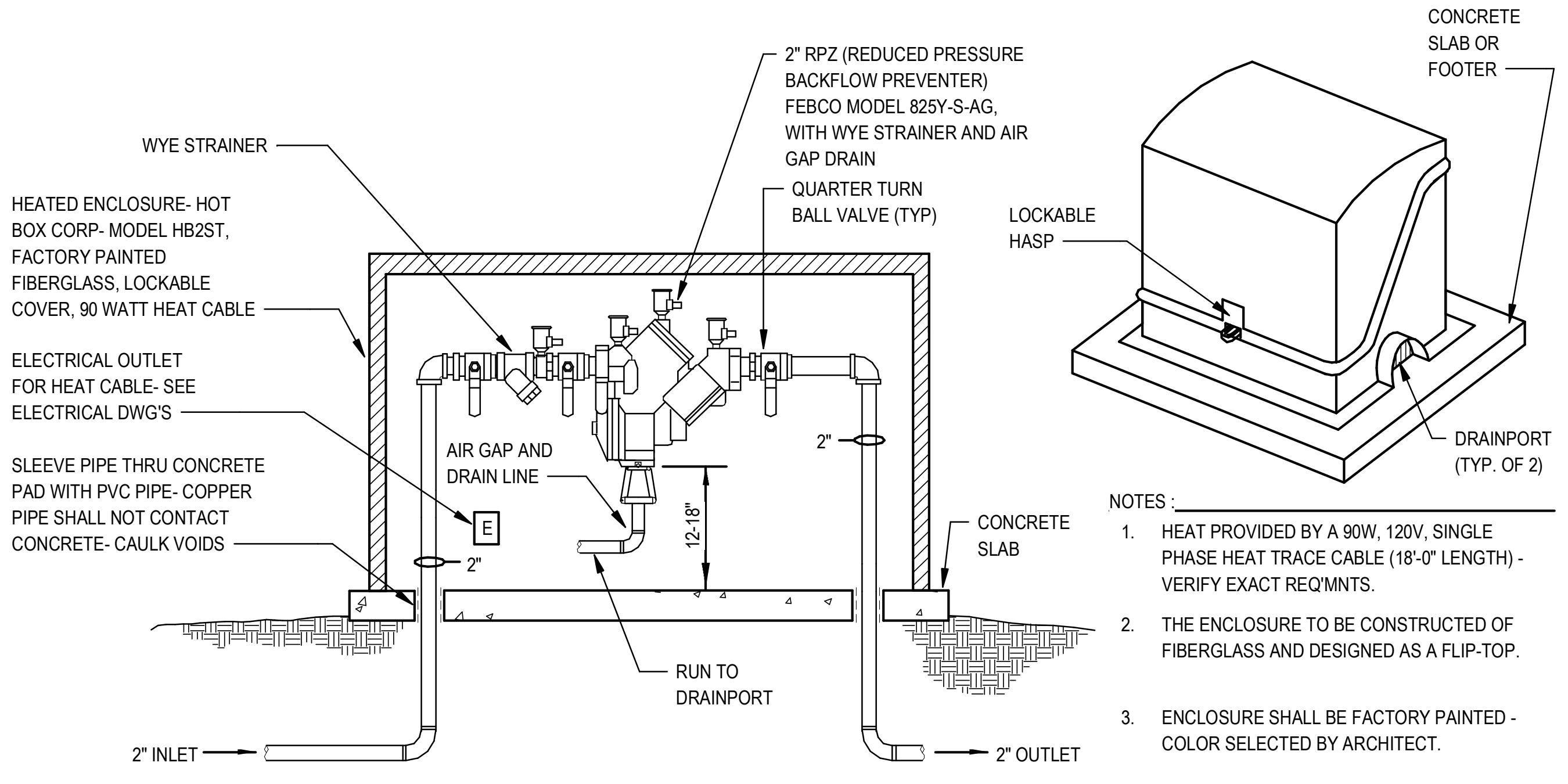
① AIR COMPRESSOR AND AIR PIPING DIAGRAM

SCALE: NONE



② FREEZELESS YARD HYDRANT

SCALE: NTS

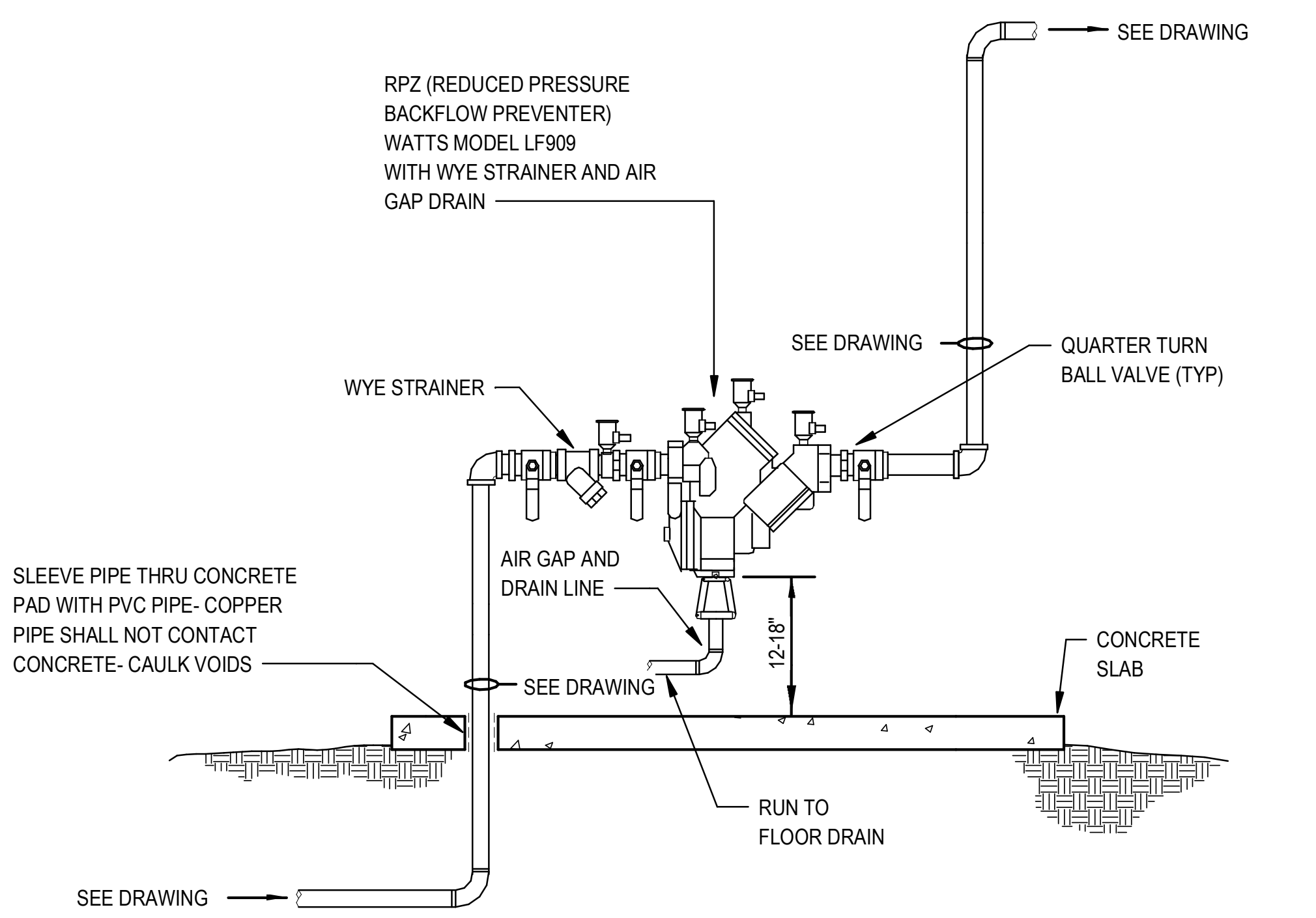

WYE STRAINER
HEATED ENCLOSURE- HOT BOX CORP- MODEL HB2ST, FACTORY PAINTED FIBERGLASS, LOCKABLE COVER, 90 WATT HEAT CABLE
ELECTRICAL OUTLET FOR HEAT CABLE- SEE ELECTRICAL DWG'S
SLEEVE PIPE THRU CONCRETE PAD WITH PVC PIPE- COPPER PIPE SHALL NOT CONTACT CONCRETE- CAULK VOIDS
2" RPZ (REDUCED PRESSURE BACKFLOW PREVENTER) FEBCO MODEL 825Y-S-AG, WITH WYE STRAINER AND AIR GAP DRAIN
QUARTER TURN BALL VALVE (TYP)
AIR GAP AND DRAIN LINE
E
2"
12-18"
CONCRETE SLAB
RUN TO DRAINPORT
2" INLET
2" OUTLET
CONCRETE SLAB OR FOOTER
LOCKABLE HASP
DRAINPORT (TYP. OF 2)

NOTES :

1. HEAT PROVIDED BY A 90W, 120V, SINGLE PHASE HEAT TRACE CABLE (18'-0" LENGTH) - VERIFY EXACT REQ'MNTS.
2. THE ENCLOSURE TO BE CONSTRUCTED OF FIBERGLASS AND DESIGNED AS A FLIP-TOP.
3. ENCLOSURE SHALL BE FACTORY PAINTED - COLOR SELECTED BY ARCHITECT.
4. VERIFY BACKFLOW PREVENTER WILL FIT IN ENCLOSURE BEFORE ORDERING.
5. PROVIDE ANCHOR KIT.

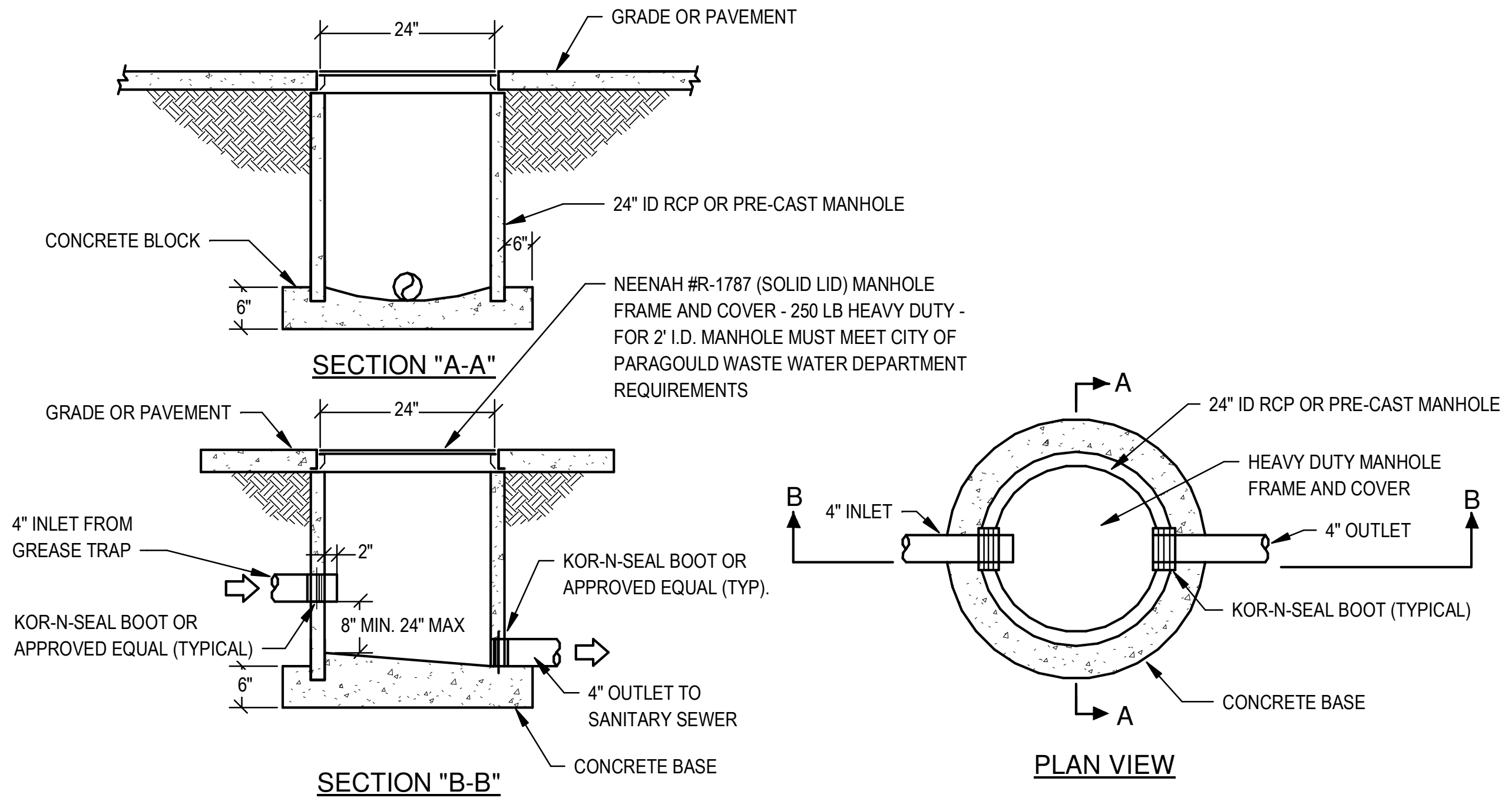
③ DOMESTIC WATER BACKFLOW PREVENTER IN HEATED ENCLOSURE

SCALE: NONE


SEE DRAWING
RPZ (REDUCED PRESSURE BACKFLOW PREVENTER) WATTS MODEL LF909 WITH WYE STRAINER AND AIR GAP DRAIN
SEE DRAWING
QUARTER TURN BALL VALVE (TYP)
WYE STRAINER
SLEEVE PIPE THRU CONCRETE PAD WITH PVC PIPE- COPPER PIPE SHALL NOT CONTACT CONCRETE- CAULK VOIDS
AIR GAP AND DRAIN LINE
12-18"
SEE DRAWING
CONCRETE SLAB
RUN TO FLOOR DRAIN
SEE DRAWING

④ DOMESTIC WATER BACKFLOW PREVENTER

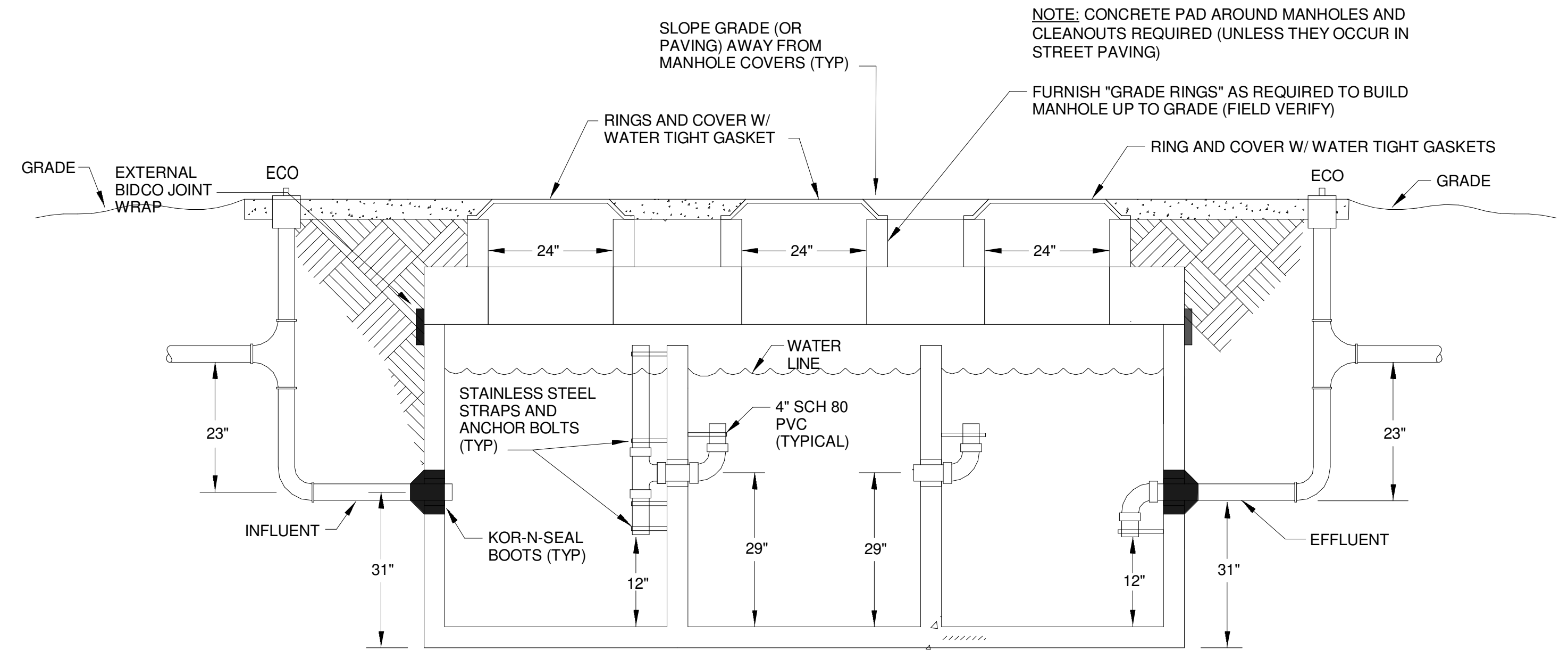
SCALE: NONE


24"
GRADE OR PAVEMENT
24" ID RCP OR PRE-CAST MANHOLE
CONCRETE BLOCK
6"
6"
SECTION "A-A"
NEENAH #R-1787 (SOLID LID) MANHOLE FRAME AND COVER - 250 LB HEAVY DUTY - FOR 2' I.D. MANHOLE MUST MEET CITY OF PARAGOULD WASTE WATER DEPARTMENT REQUIREMENTS
GRADE OR PAVEMENT
24"
4" INLET FROM GREASE TRAP
2"
KOR-N-SEAL BOOT OR APPROVED EQUAL (TYP).
KOR-N-SEAL BOOT OR APPROVED EQUAL (TYPICAL)
8" MIN. 24" MAX
6"
4" OUTLET TO SANITARY SEWER
CONCRETE BASE
SECTION "B-B"
A
24" ID RCP OR PRE-CAST MANHOLE
HEAVY DUTY MANHOLE FRAME AND COVER
B
4" INLET
4" OUTLET
B
KOR-N-SEAL BOOT (TYPICAL)
CONCRETE BASE
A
PLAN VIEW

⑤ SAMPLING/INSPECTION MANHOLE

SCALE: NONE

NOTE: (CONSTRUCT AND INSTALL AS REQUIRED BY LOCAL WASTEWATER UTILITY)


SLOPE GRADE (OR PAVING) AWAY FROM MANHOLE COVERS (TYP)
FURNISH "GRADE RINGS" AS REQUIRED TO BUILD MANHOLE UP TO GRADE (FIELD VERIFY)
RINGS AND COVER W/ WATER TIGHT GASKET
RING AND COVER W/ WATER TIGHT GASKETS
GRADE
EXTERNAL BIDCO JOINT WRAP
ECO
ECO
GRADE
24"
24"
24"
WATER LINE
STAINLESS STEEL STRAPS AND ANCHOR BOLTS (TYP)
4" SCH 80 PVC (TYPICAL)
23"
23"
INFLUENT
KOR-N-SEAL BOOTS (TYP)
EFFLUENT
31"
12"
29"
29"
12"
31"

NOTE: CONCRETE PAD AROUND MANHOLES AND CLEANOUTS REQUIRED (UNLESS THEY OCCUR IN STREET PAVING)

⑥ SAND AND OIL INTERCEPTOR 2,000 GALLON

SCALE: NONE (NEW TYPE)

NOTE: FURNISH 2000 GALLON CONCRETE SAND TRAP WITH HEAVY DUTY CAST IRON MANHOLE FRAMES AND COVERS EQUAL TO THAT MANUFACTURED BY PETERSON CONCRETE TANK COMPANY OF NORTH LITTLE ROCK, ARKANSAS

2. OUTSIDE TANK DIMENSIONS SHALL BE 146"L x 78"W x 74"H (12" THICK TRAFFIC RATED LID)
3. SAND TRAP SIZE AND DESIGN MUST COMPLY WITH LOCAL WASTE WATER UTILITY
4. WITH KOR-N-SEAL BOOTS.

STAMPS

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CATHEY
7/29/22

CORPORATE REGISTRATION PETTIT & PETTIT CONSULTING ENGINEERS, INC. No. 78 ARKANSAS ENGINEER

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

PLUMBING DETAILS

Revision	
Date	Description

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Project Phase: CONSTRUCTION DOCUMENTS
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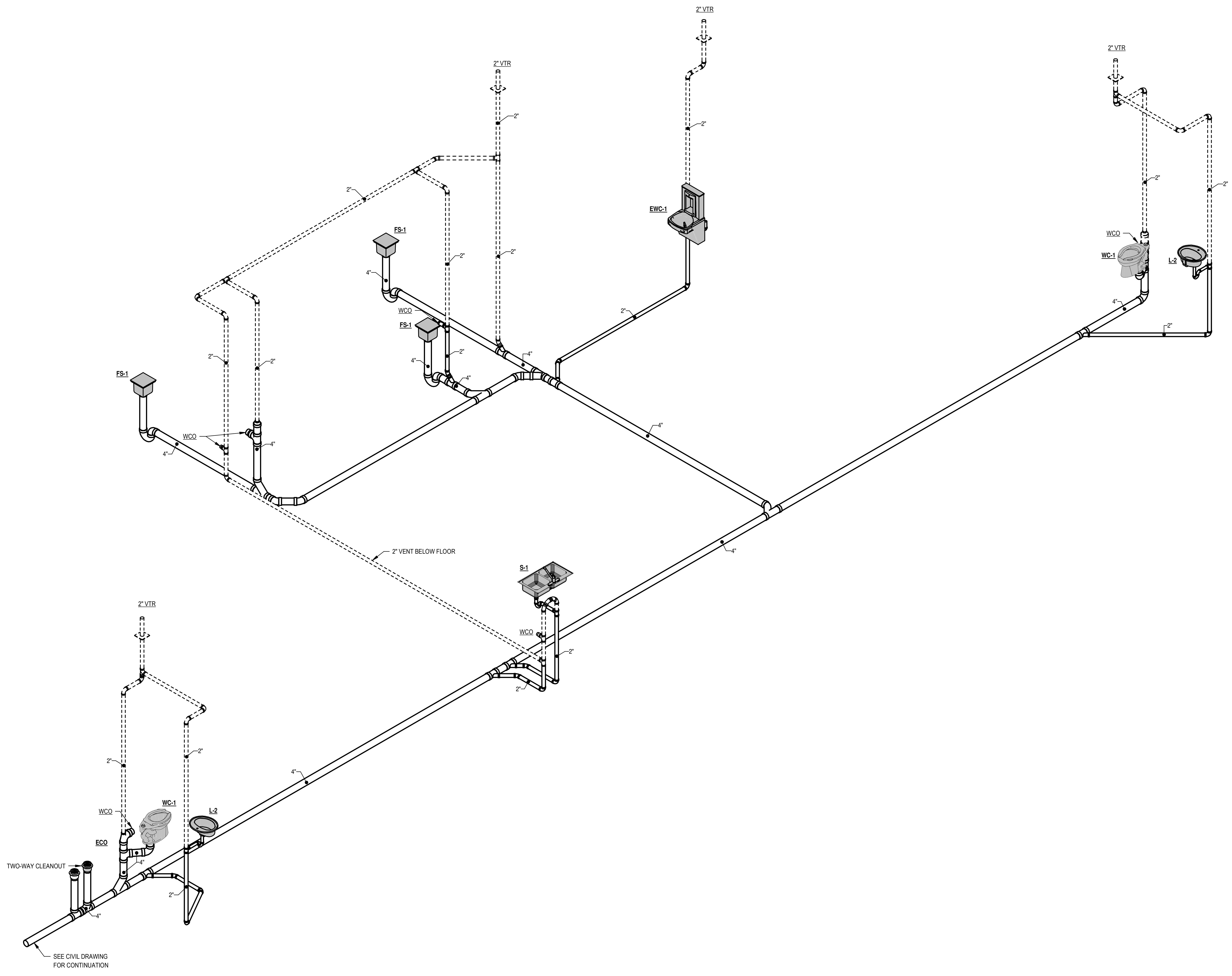

R
1

WASTE & VENT RISER - OFFICE

STAMPS

MARCUS D. CATHEY
No.11043

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PUBLIC WORKS FACILITY
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PLUMBING RISERS

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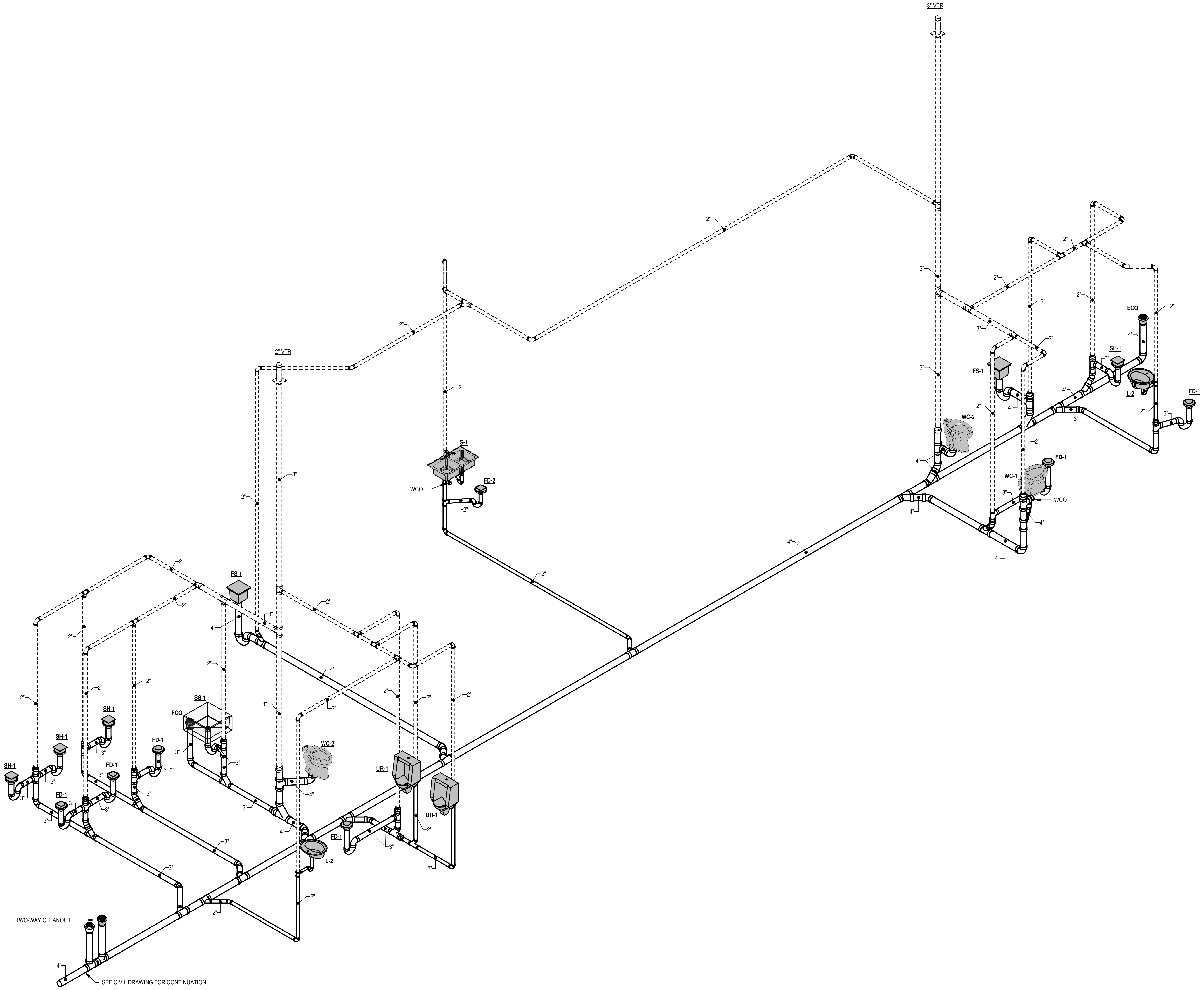

R
1

WASTE & VENT RISER - MAINTENANCE SHOP

STAMPS

No.11043
MARCUS D. CATHEY
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PLUMBING RISERS

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PLUMBING FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	DESCRIPTION	ADA COMPLIANT	TRIM	SUPPLIES	TRAP	GPM	SUPPORT	COMMENTS
EWC-1	Oasis International	PGF8SBF	Barrier-Free Versacooler II w/ bottle filler, delivers 8.0 gph 50 degree water, built-in strainer, stainless steel cabinet, 5 year warranty.		McGuire LFST17LK		McGuire 8088		Zurn Z-1225	
FPWH	Zurn	Z-1300	'Ecolotrol' anti-siphon, non-freeze, 3/4 inch size nickel bronze casing and all bronze interior parts and non turning operating rod with free floating compression closure valve, nickel bronze face, integral backflow preventer, union elbow inlet, wall clamp and key handle. Box face and hinged cover shall be nickel bronze complete with operating key and 'Water' cast on cover.							
FPYH	Woodford	Y2	Automatic draining freezeless yard hydrant, ASSE 1052, backflow protected, max working pressure 125 PSI.							Provide all hardware required for complete installation.
HB-1	Woodfrod Manufacturing Company	79	"BACKFLOW PROTECTED MODERATE CLIMATE WALL HYDRANT. ASSE 1052, AUTOMATIC DRAINING, BRASS BODY, CHROME FINISH, LOOSE KEY."							
L-2	Kohler	K-2196	Pennington® self-rimming lavatory, 20 inch by 17 inch size, vitreous china, oval basin, front overflow, with 8 inch faucet drilling centers		Kohler K-7307-4A 'Triton' lavatory faucet with 5 inch spout with standard water guard aerator, renewable valve units, lever handles, coupling nuts, rigid connectors, Mcguire 155-A drain with perforated strainer and 1-1/4 inch tailpiece; Sloan thermostatic mixing valve.	Mcguire H2167LK 1/2 inch IPS heavy cast brass angle stop, loose key handle, annealed vertical tube, chrome plated cast brass set screw escutcheon, c.p. brass nipple to wall;	Mcguire 8872 (1-1/4 inch) polished chrome plated cast brass adjustable 'P' trap with cleanout and 17-gage tubing to wall with C.P. cast brass set screw escutcheon;		Counter Mounted	NOTE: All exposed supply (hot and cold water) and drain piping shall be insulated to meet ADA requirements. P-Trap and angle valve assemblies shall be covered with molded, anti-microbial Truebro, Inc. 'Lav-Guard' Model #102 (verify exact model required). Color grey. Cover shall be secured with snap-clips. Angle stops shall have lock-lid access covers.
S-1	Just	DL-ADA-1933-A-GR	Double Compartment, 19 inch by 33 inch by 6½ inch size, 18 gauge Type 304 (18-8) stainless steel, self rimming, hand blended satin finish, underside undercoated, compartment and faucet deck recessed 3/16 inch below outside of sink, (2) J-35 stainless steel cup strainer with removable stainless steel basket, rubber seat stopper and 1½ inch O.D. chrome plated brass tail piece 4 inches long, punch 3 holes on 4" centers.		T&S B-2731 Single lever deck mount faucet, 9" Swivel Spout, 2.2 gpm aerator, 10" deck plate, temperature limit stop.	Mcguire H2167LK 1/2 inch IPS heavy cast brass angle stop, loose key handle, annealed vertical tube, chrome plated cast brass set screw escutcheon, C.P. brass nipple to wall;	Mcguire 8912 (1-1/2 inch) polished chrome plated cast brass adjustable 'P' trap with cleanout and 17-gage tubing to wall with C.P. cast brass set screw escutcheon;		Counter Mounted	
SH-1	---	---	Site Built Shower- See Architectural Drawings. Plumbing contractor to provide and install Wade 1100G-5 inch x 5 inch nickel bronze square top shower drain with membrane clamping flange (verify exact clamping flange required with architectural requirements).		Symmons 'Origins' Pressure Balancing Valve Model 9605-PLR-X-B-VP, Seperate Diverter, Wall/Hand Shower with 5 foot flexible metal hose and in-line vacuum breaker, 36 inch slide bar for hand shower mounting, Lever Handle, Integral Service Stops (-X), Chrome Plated Brass Escutcheon (-B), Vandal Resistant (-VP). Furnish Symmons 'Super Showerhead' Model 4-231 with 2.0 gpm flow rate restrictor.					
SS-1	Stern Williams	SB-900	'Serviceptor' Mop Sink, 24 inch x 24 inch x 12 inch, Precast Terrazzo, with one piece stainless steel cast integral cap on all four sides and Integral Cast Brass Drain with S.S. strainer, 3 inch outlet. Provide 'T-40' mop hanger, 'T-35' hose, and 'BP' stainless steel back splash panels		T&S B-0665-BSTP faucet, polished chrome finish, integral stops, top brace, lever handles, vacuum breaker, 8inch centers.		Cast Iron 3 inch size, deep seal type below floor		Floor Mounted	
UR-1	KOHLER	K-4960-ET	BARDON™ URINAL WITH TOP SPUD, VITREOUS CHINA, WASH OUT WITH 3/4 INCH TOP SPUD, 2 INCH I.P.S. OUTLET CONNECTION.		SLOAN 186-0.5-YB-YC 'REGAL' EXPOSED FLUSH VALVE, NON-HOLD OPEN HANDLE, 1 INCH I.P.S. SCREWDRIVER ANGLE STOP, VACUUM BREAKER FLUSH CONNECTION, 1-1/2 INCH TOP SPUD, SWEAT SOLDER ADAPTOR, CAST WALL FLANGE WITH SET SCREW, SOLID RING PIPE SUPPORT AND 0.5 GALLON FLUSH CYCLE.		INTEGRAL WITH FIXTURE		ZURN Z-1222 'RIGID PLATE SYSTEM' HAVING STEEL UPRIGHTS WITH SUPPORT PLATES, AND BEARING JACKS ON ADJUSTABLE HEADERS.	
WC-1	KOHLER	K-96053	WELLCOMME' ULTRA, VITREOUS CHINA, SIPHON JET, 1.6 GPF, 12 INCH ROUGH IN, ELONGATED RIM, FLOOR MOUNTED, 1-1/2 INCH TOP SPUD BOWL, BOLT CAPS. OLSONITE 95-SS 'INDUSTRIAL' SEAT- FINISH WHITE, EXTRA HEAVY DUTY PLASTIC FOR ELONGATED BOWL, OPEN FRONT WITH CONCEALED CHECK HINGE, SELF-SUSTAINING FEATURE AND STAINLESS STEEL HINGE POST.	Yes	SLOAN 111-1.6-YO "REGAL" EXPOSED FLUSH VALVE, ANGLE STOP, VACUUM BREAKER, 1-1/2" TOP SPUD - 1.6 GPF, WALL FLANGE, SET SCREW.		INTEGRAL WITH FIXTURE		FLOOR MOUNTED	
WC-2	KOHLER	K-96057	HIGHCLIFF' ULTRA, VITREOUS CHINA, SIPHON JET, 1.6 GPF, 12 INCH ROUGH IN, ELONGATED RIM, FLOOR MOUNTED, 1-1/2 INCH TOP SPUD BOWL, BOLT CAPS. OLSONITE 95-SS 'INDUSTRIAL' SEAT- FINISH WHITE, EXTRA HEAVY DUTY PLASTIC FOR ELONGATED BOWL, OPEN FRONT WITH CONCEALED CHECK HINGE, SELF-SUSTAINING FEATURE AND STAINLESS STEEL HINGE POST.	Yes	SLOAN 111-1.6-YO "REGAL" EXPOSED FLUSH VALVE, ANGLE STOP, VACUUM BREAKER, 1-1/2 INCH TOP SPUD - 1.6 GPF, WALL FLANGE, SET SCREW.		INTEGRAL WITH FIXTURE		FLOOR MOUNTED	CONTROL FOR ADA FLUSH VALVE SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA. IN LOCATIONS WHERE THIS OCCURS TO THE RIGHT OF THE FIXTURE, FURNISH AND INSTALL SLOAN 111-C-I-YC-YK 'REGAL' EXPOSED FLUSH VALVE. PROVIDE SLOAN MODEL VBF-72-A VACUUM BREAKER TRAP PRIMER ACCESSORY AS REQUIRED IN RESTROOMS WITH FLOOR DRAIN.

EQUIPMENT (BY OTHERS) - ROUGH IN AND MAKE FINAL CONNECTIONS FOR EQUIPMENT AS INDICATED ON PLANS. FURNISH MCGUIRE, ZURN, OR KOHLER STRAIGHT STOP, (1/2" IPS) OR FEMALE INLET AND OUTLET AND POLISHED CHROMIUM PLATED CAST BRASS, MCGUIRE HEAVY-DUTY (1 1/4") P-TRAP WITH CLEANOUT AND OTHER TRIM AS INDICATED ON PLANS. ALL EXPOSED PIPING SHALL BE CHROME PLATED AND ESCUTCHEONS SHALL BE C.P. CAST BRASS SET SCREW TYPE.

FIXTURE CONNECTION SCHEDULE

Type Mark	FIXTURE	TRAP & ARM	WASTE	VENT	CW SUPPLY	HW SUPPLY
EWC-1	DRINKING FOUNTAIN	1-1/4	2	2	1/2	
FPWH	WALL HYDRANT				3/4	
FPYH	FP HYDRANT				1	
HB-1	HOSE BIBB				3/4	
L-2	LAVATORY	1-1/4	2	2	1/2	1/2
S-1	SINK	1-1/2	2	2	1/2	1/2
SH-1	SHOWER		3	2	1/2	1/2
SS-1	SERVICE SINK	3	3	2	3/4	3/4
UR-1	URINAL	INTEGRAL	2	2	1	
WC-1	WATER CLOSET	INTEGRAL	4	2	1-1/4	
WC-2	WATER CLOSET	INTEGRAL	4	2	1-1/2	

PLUMBING EQUIPMENT SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	DESCRIPTION	HORSEPOWER	VOLTAGE	PHASE	COMMENTS
EWH-1	Chronomite	M-30L/277	'Microprocessor', Model M-30L, .35 low flow activation gpm output flow rate, 1.0 gpm at 43 degree temperature rise, rated at 8310 watts, 277 volts, 1 phase, UL listed, cast aluminum alloy casing, celcon plastic element assembly with nichrome coils. Factory preset temperature setting for handwashing at 104 degrees.				
EWH-2	Chronomite	M-40L/208	'Microprocessor', Model M-40L, 0.5-1.5 gpm output flow rate, 41-64 degree temperature rise, rated at 8320 watts, 208 volts, 1 phase, UL listed, cast aluminum alloy casing, celcon plastic element assembly with nichrome coils. Factory preset temperature setting for handwashing at 104 degrees.				
EWH-3	A. O. Smith	DRE-52	Commercial Electric Water Heater- Heater shall be rated at 12.3 KW, 480 V, Three Phase, 60 cycle AC, and listed by Underwriters Laboratories. Heater shall have a maximum working pressure of 150 psi. A nominal storage tank capacity of 50 gallons with a separate 3/4 inch tapping for relief valve installation and be equipped with extruded high density magnesium anode, internal surfaces exposed to water shall be glass lined, outer jacket of baked emamel finish provided with full size control compartment for performance and maintenance through hinged front panels and tank enclosed with foam insulation. Elements shall be medium watt density with zinc plated copper sheath, controlled by individually mounted thermostat and high temperature cut off switch. Tank shall be 50 gallon capacity, brass drain valve with wheel handle, and A.W. Cash Valve Mfg. Corp., A.S.M.E. temperature and pressure relief valve. Units shall have manufacturer's three year warranty and shall meet the requirements of ASHRAE 90-A for energy efficiency. Provide 18 inch diameter, 2 inch deep catch pan kit with 1 inch drain outlet. Fully illustrated instruction manual to be included.				
EWH-4	A. O. Smith	DEL-10S2	Commercial Electric Water Heater - Heater shall be rated at 2.0 KW, 480 V, Three Phase, and listed by Underwriters Laboratories. Heater shall have a maximum working pressure of 150 psi. A nominal storage tank capacity of 10 gallons with a separate 3/4 inch tapping for relief valve installation and be equipped with extruded high density magnesium anode, internal surfaces exposed to water shall be glass lined, outer jacket of baked emamel finish provided with full size control compartment for performance and maintenance through hinged front panels and tank enclosed with foam insulation. Elements shall be medium watt density with zinc plated copper sheath, controlled by individually mounted thermostat and high temperature cut off switch. Tank shall be 10 gallon capacity, brass drain valve with wheel handle, and A.W. Cash Valve Mfg. Corp., A.S.M.E. temperature and pressure relief valve. Units shall have manufacturer's three year warranty and shall meet the requirements of ASHRAE 90-A for energy efficiency. Provide 18 inch diameter, 2 inch deep catch pan kit with 1 inch drain outlet. Fully illustrated instruction manual to be included.				

PLUMBING EQUIPMENT

1. AIR REELS: ALEMITE 8078-M, 1/2"x50' DELIVERY HOSE, 300PSI MAXIMUM PRESSURE, 1/2" DELIVERY HOSE OUTLET, FURNISH AIR CHUCK AND BALL STOP. APPROVED MANUFACTURERS: ALEMITE, LINCOLN, GRACO.

PLUMBING DRAIN SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	DESCRIPTION	COMMENTS
DN-1	ZURN	Z199	Downspout nozzle with threaded outlet and flange. Provide optional stainless steel birdscreen	
FD-1	Zurn	ZN-415B-P-VP	Cast iron drain, 7" polished nickel bronze "TYPE B" strainer, adjustable collar with seepage slots, 1/2" trap primer connection.	
FD-2	Zurn	ZN-415I-P	Cast iron drain, 7" polished nickel bronze "TYPE I" strainer with raised flange, 1/2" trap primer connection.	
FS-1	Zurn	ZN-1902-P-11-2-32	Cast Iron 12inchx12inchx10inch square floor sink with 10 inch sump, deep cast iron body and square, light duty grate A.R.E. Interior, Aluminum Dome Strainer, and 1/2 Nickel Bronze Hinged Top. 1/2" trap primer.	
RD-1	Zurn Industries	Z165-NH	8-3/8 inch Diameter Combination Main Roof Drain and Overflow Drain Low Silhouette Dome (No-Hub)	
TD-1	DURATRENCH		DTPF4-05B24DI-HDGS08ZSA-GLZN4-NSR-4b POLYESTER FIBER REINFORCED POLYMER CEMENT. 65 FEET 7INCH LONG x 4 INCH CLEAR OPEN THROAT. GRAY COLOR TO MATCH CONCRETE, WITH GRATE SEAT. 12,600 PSI MIN TENSILE STRENGTH PER ASTM C307, 12,000 PSI MIN COMPRESSIVE STRENGTH PER ASTM C579, 26,500 PSI MINIMUM FLEXURAL STRENGTH PER ASTM C580. GRATING TO BE 05B24DI HEAVY DUTY SLOTTED GRATE, 65-45-12 CAST DUCTILE IRON PER ASTM A 536-84, EPOXY COATED BLACK. 4.875 INCH x 24 INCH LONG x 0.75 INCH THICK WITH A MINIMUM LOAD RATING OF DIN CLASS E. HEAVY DUTY LOAD BEARING Z PROFILE 10 GA HOT DIPPED GALVANIZED STRUCTURAL STEEL FOR 3/4 INCH GRATE. 3 INCH x 3/8 INCH DIAMETER HEADED CONCRETE ANCHORS AT 18 INCH OC WITH RIGID METAL LEVELING AND ALIGNING DEVICES. GRATE LOCKS. 4 INCH PVC SCH 40 BOTTOM OUTLET.	

STAMPS

MARCUS D. CATHEY
No.11043
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
PLUMBING SCHEDULES

Revision	
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Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
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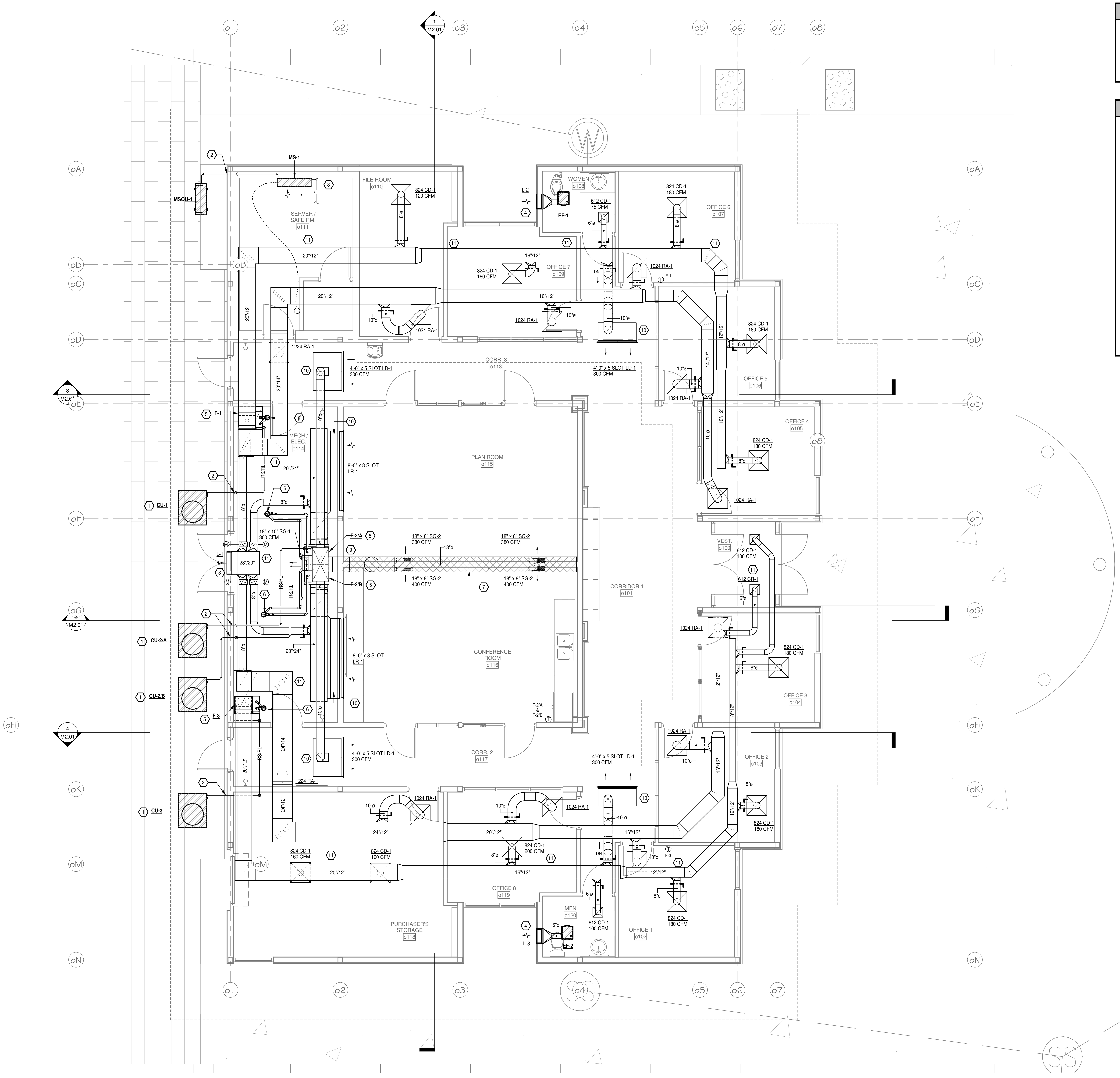

OFFICE BUILDING FLOOR PLAN - HVAC
1/4" = 1'-0"

NORTH

HVAC GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.

HVAC KEYED NOTES - M1.00

1 INSTALL CONDENSING UNIT (CU-1, 2/A, 2/B, 3) ON 6" EQUIPMENT PAD. COORD. EXACT LOCATION OF UNITS WITH ARCHITECT.

2 ROUTE REFRIGERANT PIPING DOWN WALL. SECURE PIPING TO WALL. PENTRATE WALL LOW, MIN. 6" ABOVE CONDENSING UNIT PAD. SLEEVE AND SEAL WALL PENETRATION.

3 INSTALL INTAKE LOUVER OVER CENTER OF MECHANICAL ROOM DOOR. COORD. MOUNTING HEIGHT OF LOUVER WITH ARCHITECT.

4 COORD. MOUTING HEIGHT OF EXHAUST LOUVERS WITH ARCHITECT.

5 ROUTE FULL SIZE CONDENSATE TO FLOOR DRAIN PROVIDED. CONTRACTOR TO COORDINATE LOCATION OF UNITS WITH ALL TRADES AND ADHERING TO ALL MANUFACTURER'S CLEARANCES AND LOCAL REGULATIONS. SEE PLUMBING SHEETS FOR EXACT LOCATION OF DRAIN.

6 ROUTE FLUE / COMUSTION AIR UP TO CONCETRIC TERIMNATION ON ROOF PER MANUFACTURER'S REQUIREMENTS.

7 EXPOSED DUCTWORK SHALL BE INTERNALLY INSULATED WITH PAINTGRIP FINIISH. FINAL COLOR BY ARCHITECT.

8 ROUTE FULL SIZE CONDENSATE DRAIN FROM MINI SPILT INDOOR UNIT (MS-1) TO STORM DRAIN ABOVE.

9 MECHANICAL CONTRACTOR TO COORDINATE ROUTING OF 18" DIA. SUPPLY AIR DUCT FROM FURNACE UNITS (F-2/A & F-2/B) IN MECHANICAL ROOM WITH ARCHITECT

10 CONNECT TO INTERNALLY LINED SUPPLY PLENUM AT AIR DEVICE. PLENUM HEIGHT SHALL BE ADEQUATELY TALL FOR CONNECTION OF DUCT RUNOUT SIZE SHOWN.

11 MECHANICAL CONTRACTOR TO COORD. WITH PLUMBING FOR ROUTING OF DUCTWORK IN THIS AREA WITH ROOF DRAINS ABOVE.

STAMPS

REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CATHEY 7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
OFFICE BUILDING FLOOR PLAN - HVAC

Revision	
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HVAC GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.

HVAC KEYED NOTES - M1.01

1 MOUNT PACKAGE UNIT (A/C-1) A TOP OF A 30" TALL CURB. COORDINATE LOCATION OF UNIT AND PLATFORM TO ADHERE TO ALL MANUFACTUER'S CLEARANCES AND LOCAL REGULATIONS. ROUTE FULL SIZE CONDENATE TO AREA DRAIN. SEE PLUMBING SHEETS FOR DETAILS OF GAS CONNECTION.

2 PROVIDE AREA DRAIN FOR CONDENSATE DISPOSAL. SEE DETAIL 7, SHEET M3.02.

3 EXPOSED DUCT SHALL BE INSULATED WITH RIGID INSULATION AND FINISHED WITH ALUMAGUARD WEATHERPROOF JACKET. SLOPE TOP OF DUCT AT ALL HORIZONTAL RUNS TO PREVENT PONDING. SEE ARCHITECT FOR COLOR OF OUTER JACKET.

4 MECHANICAL CONTRACTOR TO COORDINATE MOUNTING HEIGHT OF LOUVER WITH ARCHITECT. SEE DETAIL 8, SHEET M3.02.

5 ROUTE 5" DIA. COMBUSTION AIR & FLUE UP TO CONCENTRIC VENT ON ROOF. COORDINATE ROUTING OF DUCTWORK WITH STRUCTURE AND OVERHEAD BRIDGE CRANE. SEE DETAIL 12, SHEET M3.01.

6 COORDINATE MOUNTING HEIGHT OF UNIT HEATERS WITH BUILDIING AND BRIDGE CRANE STRUCTURE.

7 INTERLOCK LOUVER (L-5) WITH EXHAUST FAN (EF-5). SEE DETAIL 8, SHEET M3.02.

8 INTERLOCK LOUVER (L-6)- WITH EXHAUST FAN (EF-6). SEE DETAIL 8, SHEET M3.02.

9 INTERLOCK LOUVER (L-7)- WITH EXHAUST FAN (EF-7). SEE DETAIL 8, SHEET M3.02.

10 INTERLOCK LOUVER (L-8)- WITH EXHAUST FAN (EF-8). SEE DETAIL 8, SHEET M3.02.

11 INTERLOCK LOUVER (L-9)- WITH EXHAUST FAN (EF-9). SEE DETAIL 8, SHEET M3.02.

12 INTERLOCK LOUVER (L-10)- WITH EXHAUST FAN (EF-10). SEE DETAIL 8, SHEET M3.02.

13 EXHAUST FAN CENTERED ABOVE DOOR. COORDINATE MOUNTING HEIGHT OF FAN WITH ARCHITECT. SEE DETAIL 9, SHEET M3.02.

14 COORIDNATE LOCATION OF HIGH VOLUME LOW SPEED FANS (HVLS-1) & (HVLS-2) WITH BUILDING / BRIDGE CRANE STRUCTURE AND LIGHTS.

15 COORDINATE LOCATION OF PIPE BOLLARDS WITH ARCHITECT. SEE DETAIL 5, SHEET M3.02.

16 INSTALL CONDENSING UNIT (CU-4) ON 6" EQUIPMENT PAD. COORDINATE EXACT LOACITON OF UNITS WITH ARCHITECT.

17 FURNACE (F-4) SUPPORTED FROM STRUCTURE ABOVE. ROUTE FULL SIZE COMBUSTION AIR AND FLUE UP TO CONCENTRIC TERMINATION ON ROOF. COORD. ELEVATION OF FURNACE (F-4) WITH EQUIPMENT PLATFORM SO THAT THE FURNCACE CAN BE SERVICED WITHOUT THE NEED OF A LADDER.

18 PROVIDE CLEAR LOCKABLE THERMOSTAT COVER.

19 ROUTE REFRIGERANT PIPING DOWN WALL. SECURE PIPING TO WALL. PENTRATE WALL LOW, MIN. 6" ABOVE CONDENSING UNIT PAD. SLEEVE AND SEAL WALL PENETRATION.

20 COORDINATE LOCATION OF MINI-SPLIT OUTDOOR UNIT (MSOU-2) WITH SPACE PROVIDED BY ARCHITECT. CONTRACTOR TO LOCATE UNIT ADHERING TO ALL MANUFACTURE'S CLEARANCES AND LOCAL REGULATIONS.

21 ROUTE ALL EXHAUST DUCTWORK ABOVE (m110) MEN'S RR BELOW EQUIPMENT PLATFORM. EXHAUST FAN (EF-3) TO BE ACCESSIBLE FROM LAYIN CEILING BELOW PLATFORM.

22 EXHAUST FAN (EF-4) TO BE ACCESSIBLE FROM LAY-IN CEILING BELOW.

23 COORDINATE ROUTING OF BOTH S.A. AND R.A. DUCTWORK WITH HEIGHT OF LAY-IN CEILING.

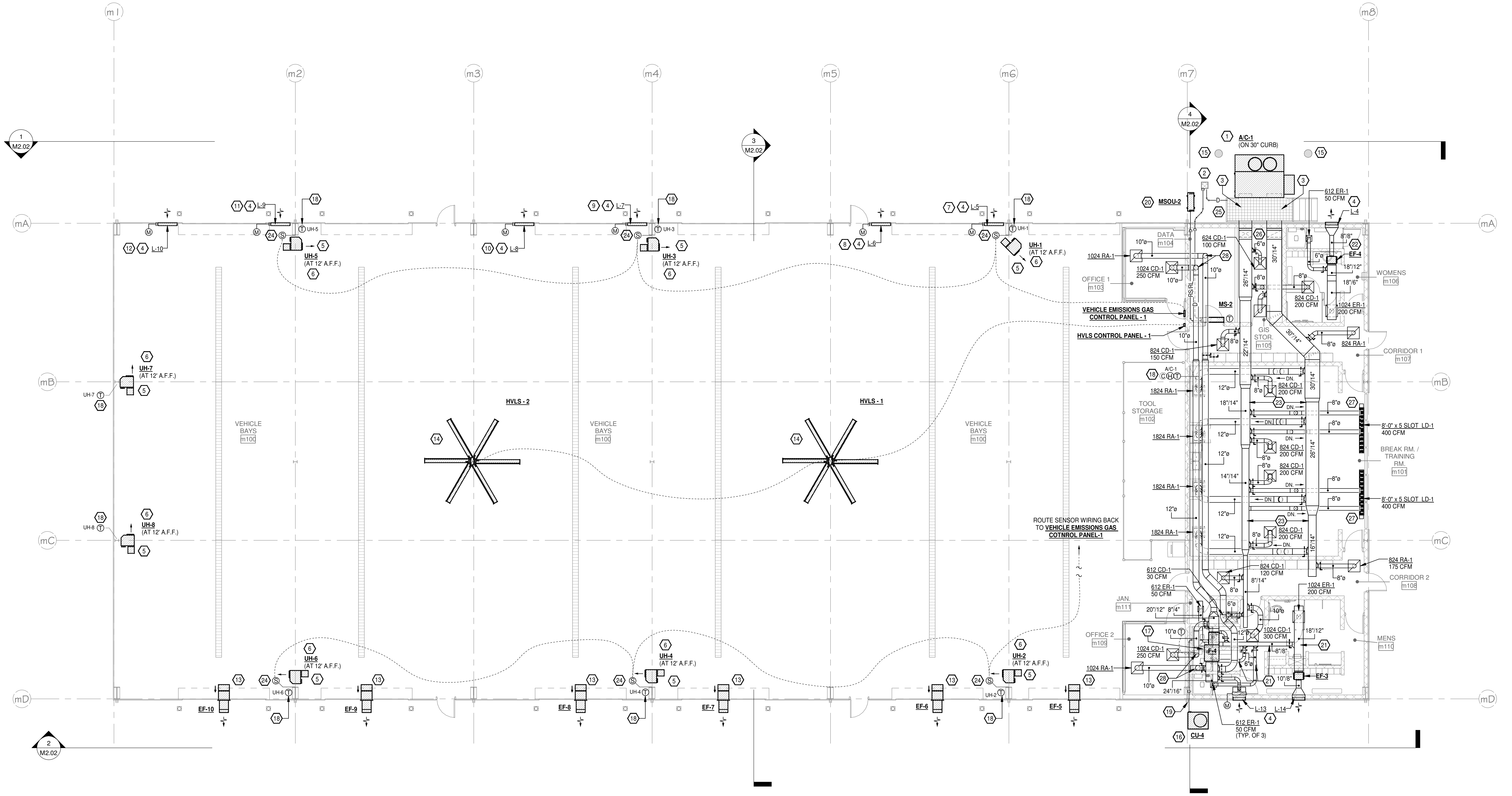
24 MOUNT NEW DUAL GAS (CO/NO2) GAS DETECTION / TRASMITTER ON COLUMN AT BREATHING ZONE AT APPROXIMETLY 4-5 FOOT A.F.F.

25 PROVIDE ELEVATED PLATFORM FOR SERVICING PACKAGE UNIT (A/C-1). SERVICE PLATFORM TO ADHERE TO ALL MANUFACTURER'S CLEARANCES AND LOCAL REGULATION. SERVICE PLATFORM'S LAYOUT TO BE FIELD COORDINATED WITH UNIT PLACEMENT AND ARCHITECT'S PREFERENCE. SEE DETAIL 3, SHEET M3.02.

26 MECHANICAL CONTRACTOR TO COORDINATE ROUTING OF 26"/14" S.A. & 30"/14 R.A. DUCT WITH ALL TRADES IN THIS AREA.

27 CONNECT TO INTERNALLY LINED SUPPLY PLENUM AT AIR DEVICE. PLENUM HEIGHT SHALL BE ADEQUATELY TALL FOR CONNECTION OF DUCT RUNOUT SIZE SHOWN.

28 ROUTE 10" DIA. S.A. / R.A. DUCT WORK DOWN TO PENTRATE WALL ABOVE OFFICE'S CEILING SPACE.



1 MAINTENENCE BLDG. FLOOR PLAN - HVAC
1/8" = 1'-0"

NORTH

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CATHEY 7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
MAINTENANCE BLDG. FLOOR PLAN - HVAC

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HVAC GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.

HVAC KEYED NOTES - M1.02

1 MECHANICAL CONTRACTOR TO COORDINATE MOUNTING HEIGHT OF LOUVER WITH ARCHITECT. SEE DETAIL 8, SHEET M3.02.

2 MECHAINCAL CONTRACTOR TO COORDINATE MOUTING HEIGHT OF RADIANT HEATERS (RH-1) & (RH-2) WITH LIGHTS AND STRUCTURE.

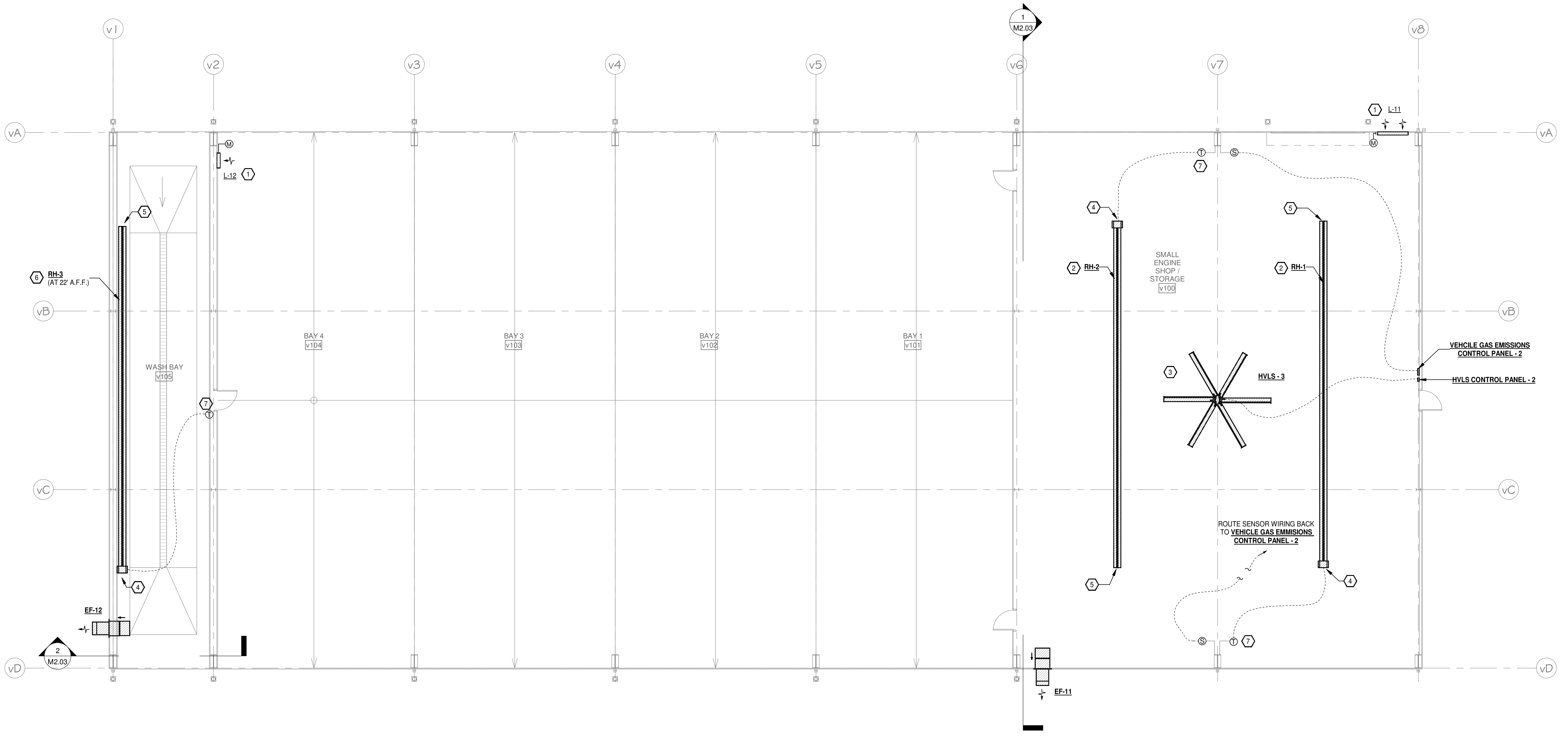
3 MECHANICAL CONTRACTOR TO COORDIANTE MOUNTING HEIGHT OF HIGH VOLUME LOW VELOCITY FAN (HVLS-3) WITH ELEVATION OF LIGHTS AND STRUCTURE.

4 ROUTE 4" DIA. COMBUSTION AIR ROUTED UP TO GOOSENECK TERMINATION ON ROOF. SEE DETAIL 13, SHEET M3.01.

5 ROUTE 4" DIA. FLUE DUCT UP TO TERMINATION ON ROOF. SEE DETAIL 11, SHEET M3.01.

6 INSTALL RADIANT HEATER (RH-3) AT LEAST 10" OFF SIDE WALL. PROVIDE SIDE WALL REFLECTORS. COORDINATE MOUNTING HEIGHT WITH BUILDING STRUCTURE.

7 PROVIDE CLEAR LOCKABLE THERMOSTAT COVER.



1 VEHICLE STORAGE BLDG. FLOOR PLAN - HVAC
1/8" = 1'-0"

NORTH

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.11043
MARCUS D. CATHEY
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

VEHICLE STORAGE BLDG. FLOOR PLAN - HVAC

Revision

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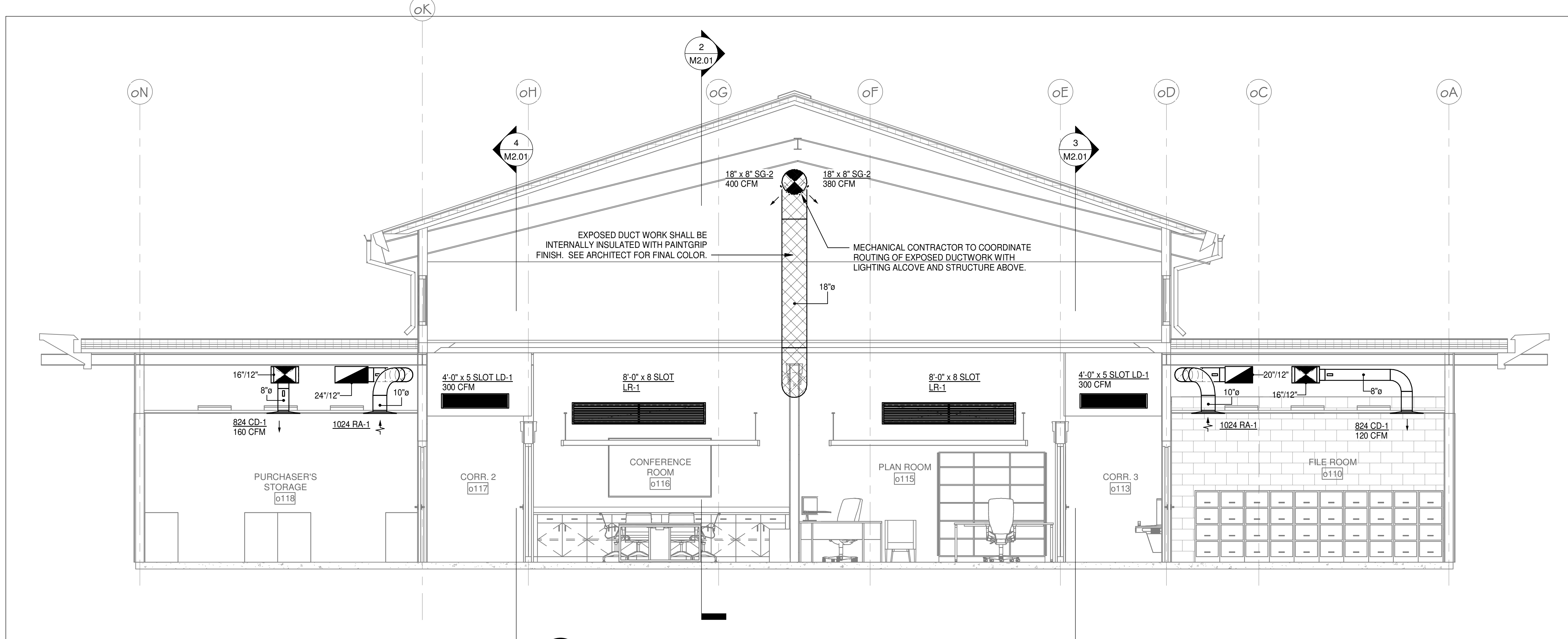
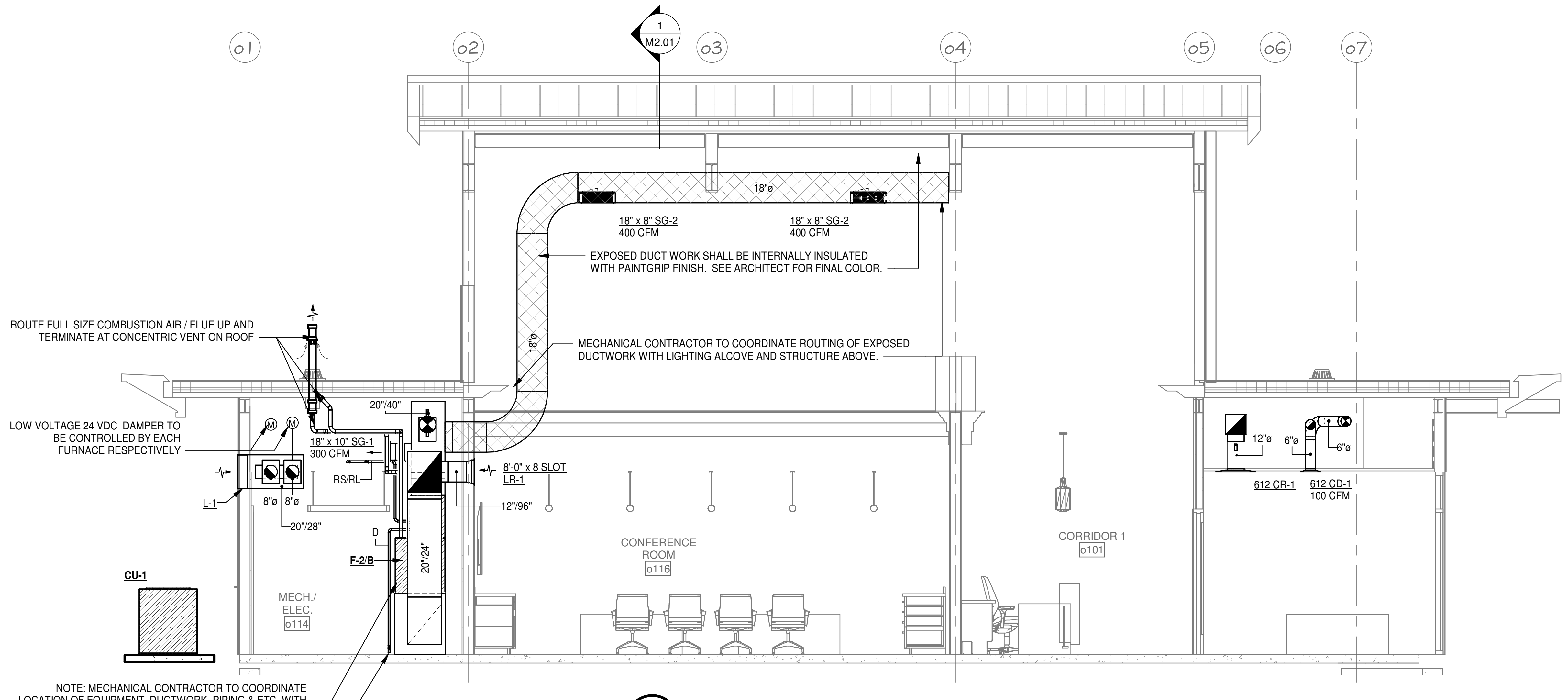


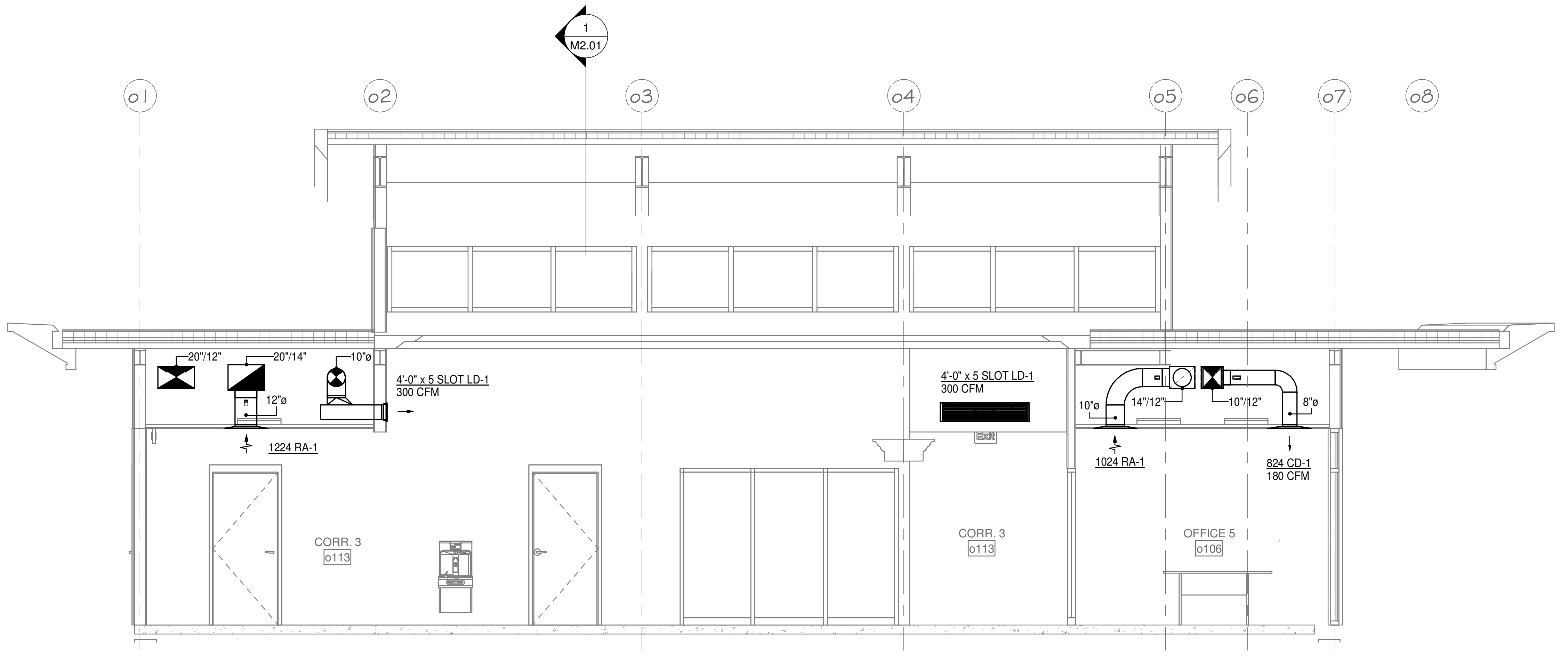
① OFFICE BUILDING - SECTION 1

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


o1
o2
o3
o4
o5
o6
o7
1
M2.01
18"ø
18" x 8" SG-2
400 CFM
18" x 8" SG-2
400 CFM
EXPOSED DUCT WORK SHALL BE INTERNALLY INSULATED WITH PAINTGRIP FINISH. SEE ARCHITECT FOR FINAL COLOR.
ROUTE FULL SIZE COMBUSTION AIR / FLUE UP AND TERMINATE AT CONCENTRIC VENT ON ROOF
MECHANICAL CONTRACTOR TO COORDINATE ROUTING OF EXPOSED DUCTWORK WITH LIGHTING ALCOVE AND STRUCTURE ABOVE.
18"ø
LOW VOLTAGE 24 VDC DAMPER TO BE CONTROLLED BY EACH FURNACE RESPECTIVELY
M
M
20"/40"
18" x 10" SG-1
300 CFM
RS/RL
8'-0" x 8 SLOT
LR-1
12"/96"
L-1
8"ø
8"ø
20"/28"
D
F-2/B
20"/24"
CU-1
MECH./ ELEC.
o114
CONFERENCE ROOM
o116
CORRIDOR 1
o101
12"ø
6"ø
6"ø
612 CR-1
612 CD-1
100 CFM
NOTE: MECHANICAL CONTRACTOR TO COORDINATE LOCATION OF EQUIPMENT, DUCTWORK, PIPING & ETC. WITH PLUMBING CONTRACTOR RPZ, FLOOR DRAINS, & ETC.

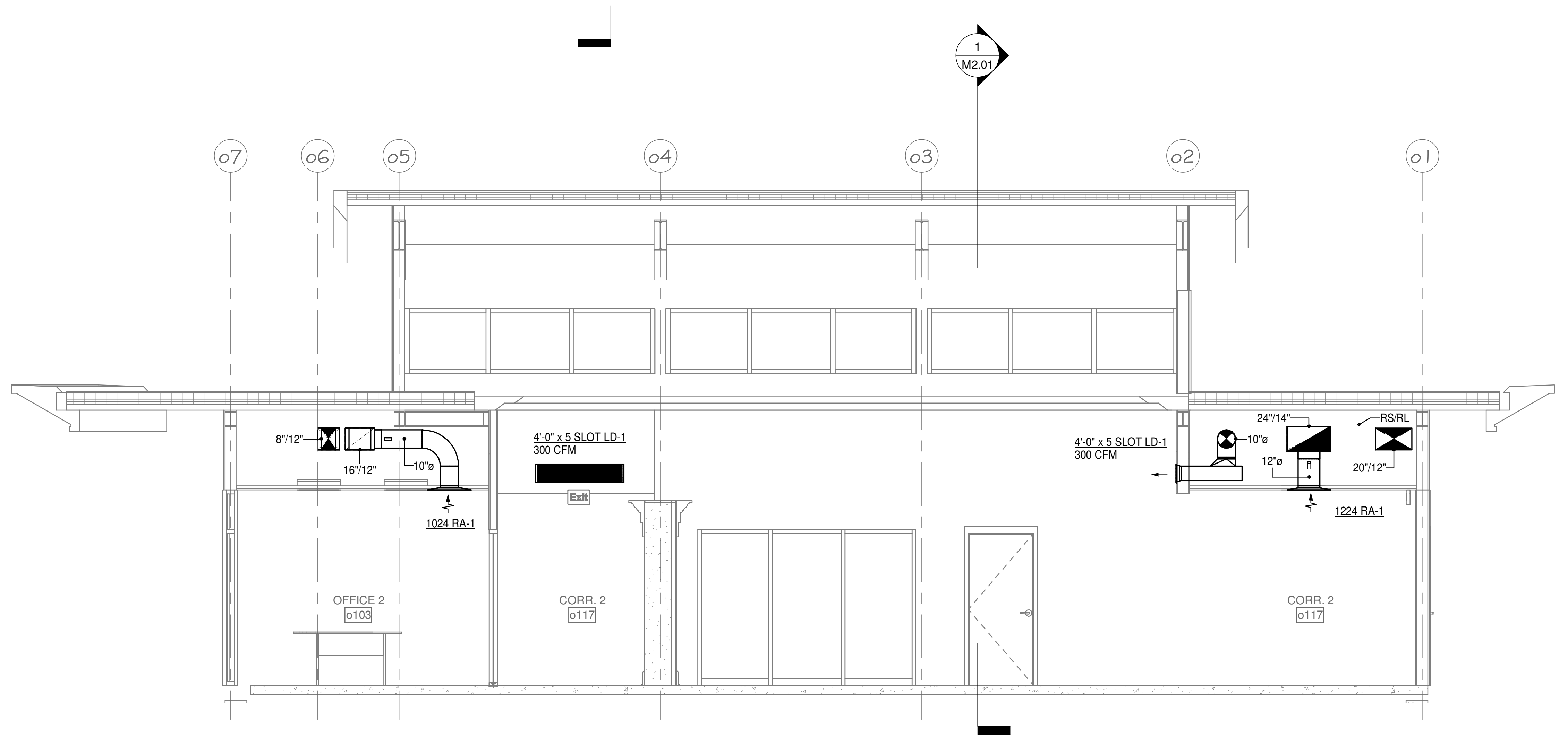
② OFFICE BUILDING - SECTION 2

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



③ OFFICE BUILDING - SECTION 3

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



④ OFFICE BUILDING - SECTION 4

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

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CITY OF BATESVILLE
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

HVAC SECTION - OFFICE BLDG.

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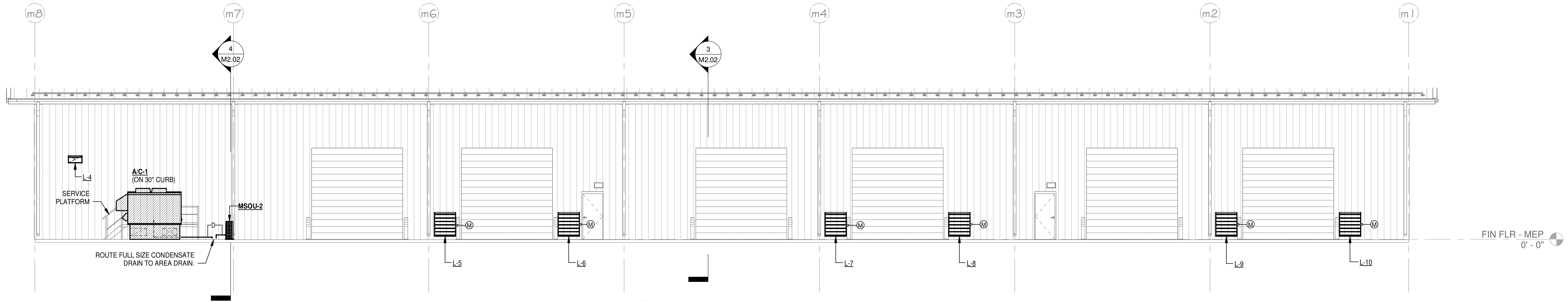
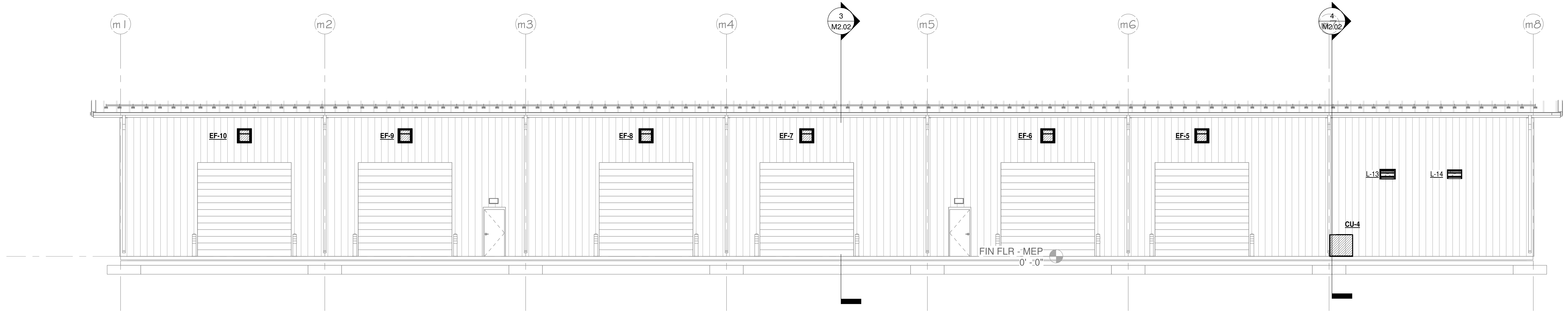
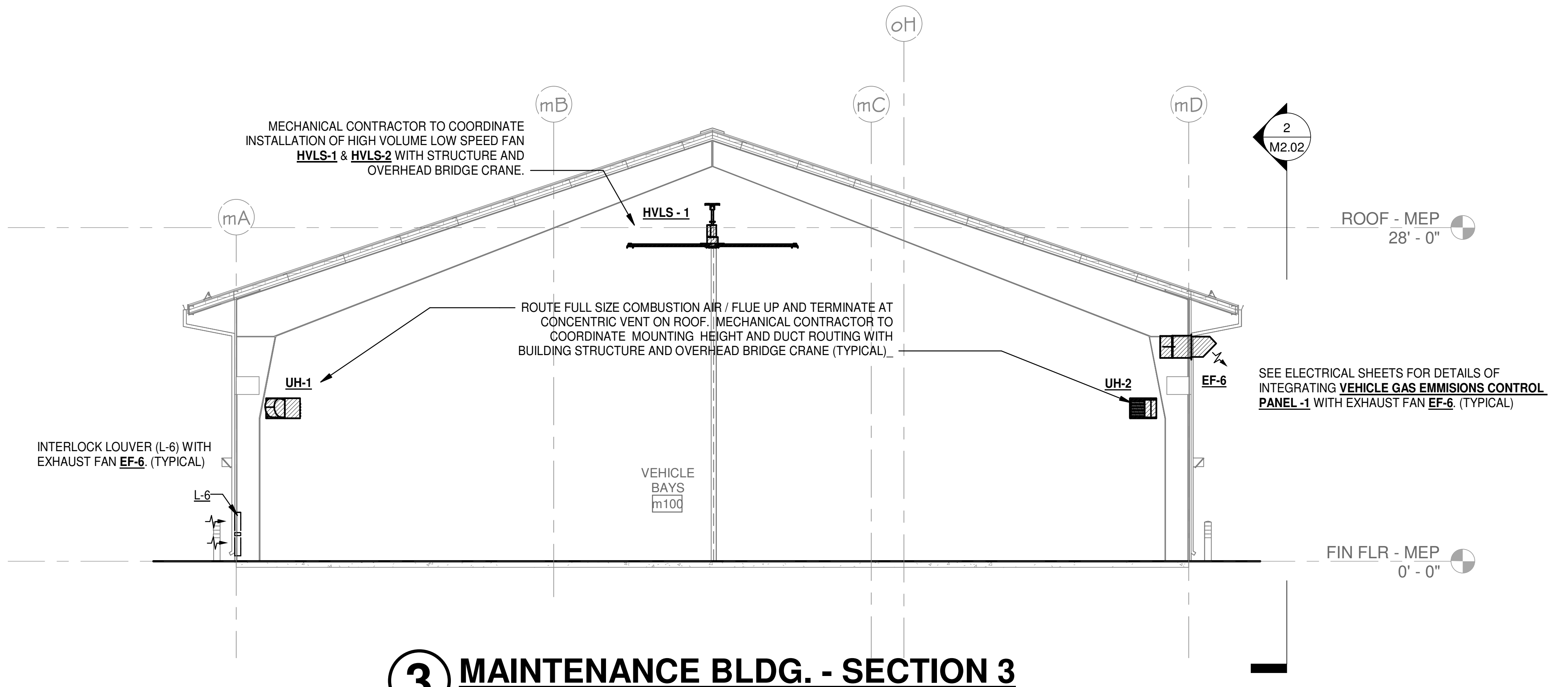


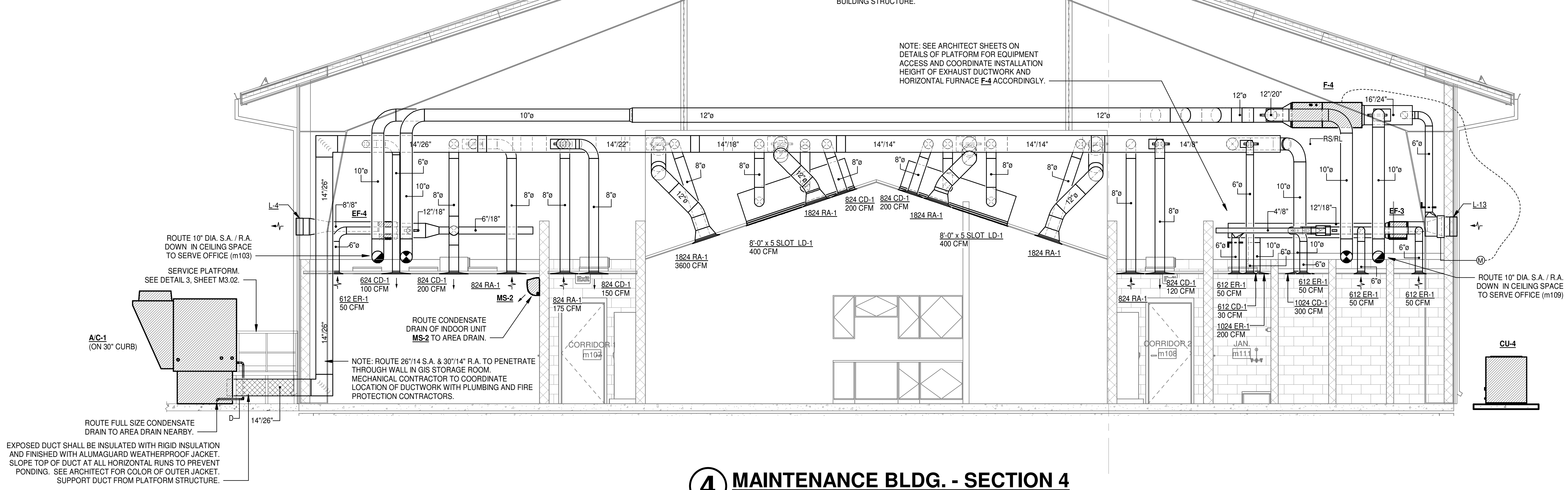
① MAINTENANCE BLDG. - SECTION 1
SCALE: 1/8" = 1'-0"



② MAINTENANCE BLDG. - SECTION 2
SCALE: 1/8" = 1'-0"


oH
mA
mB
mC
mD
2
M2.02
MECHANICAL CONTRACTOR TO COORDINATE INSTALLATION OF HIGH VOLUME LOW SPEED FAN HVLS-1 & HVLS-2 WITH STRUCTURE AND OVERHEAD BRIDGE CRANE.
HVLS - 1
ROOF - MEP
28' - 0"
ROUTE FULL SIZE COMBUSTION AIR / FLUE UP AND TERMINATE AT CONCENTRIC VENT ON ROOF. MECHANICAL CONTRACTOR TO COORDINATE MOUNTING HEIGHT AND DUCT ROUTING WITH BUILDING STRUCTURE AND OVERHEAD BRIDGE CRANE (TYPICAL)
UH-1
UH-2
EF-6
SEE ELECTRICAL SHEETS FOR DETAILS OF INTEGRATING VEHICLE GAS EMMISIONS CONTROL PANEL -1 WITH EXHAUST FAN EF-6. (TYPICAL)
INTERLOCK LOUVER (L-6) WITH EXHAUST FAN EF-6. (TYPICAL)
L-6
VEHICLE
BAYS
m100
FIN FLR - MEP
0' - 0"

③ MAINTENANCE BLDG. - SECTION 3
SCALE: 1/8" = 1'-0"


oH
NOTE: COORDINATE INSTALLATION OF EQUIPMENT AND DUCT ROUTING WITH BUILDING STRUCTURE.
NOTE: SEE ARCHITECT SHEETS ON DETAILS OF PLATFORM FOR EQUIPMENT ACCESS AND COORDINATE INSTALLATION HEIGHT OF EXHAUST DUCTWORK AND HORIZONTAL FURNACE F-4 ACCORDINGLY.
F-4
10"ø
12"ø
12"ø
12"ø
12"/20"
16"/24"
14"/26"
14"/22"
14"/18"
14"/14"
14"/14"
14"/8"
RS/RL
10"ø
6"ø
10"ø
8"ø
8"/8"
EF-4
12"/18"
6"/18"
6"ø
8"ø
8"ø
8"ø
12"ø
8"ø
L-4
14"/26"
ROUTE 10" DIA. S.A. / R.A. DOWN IN CEILING SPACE TO SERVE OFFICE (m103)
SERVICE PLATFORM. SEE DETAIL 3, SHEET M3.02.
624 CD-1
100 CFM
612 ER-1
50 CFM
824 CD-1
200 CFM
824 RA-1
MS-2
824 RA-1
175 CFM
824 CD-1
150 CFM
ROUTE CONDENSATE DRAIN OF INDOOR UNIT MS-2 TO AREA DRAIN.
A/C-1
(ON 30" CURB)
14"/26"
NOTE: ROUTE 26"/14 S.A. & 30"/14" R.A. TO PENETRATE THROUGH WALL IN GIS STORAGE ROOM. MECHANICAL CONTRACTOR TO COORDINATE LOCATION OF DUCTWORK WITH PLUMBING AND FIRE PROTECTION CONTRACTORS.
CORRIDOR 1
m104
Exit
ROUTE FULL SIZE CONDENSATE DRAIN TO AREA DRAIN NEARBY.
D
14"/26"
EXPOSED DUCT SHALL BE INSULATED WITH RIGID INSULATION AND FINISHED WITH ALUMAGUARD WEATHERPROOF JACKET. SLOPE TOP OF DUCT AT ALL HORIZONTAL RUNS TO PREVENT PONDING. SEE ARCHITECT FOR COLOR OF OUTER JACKET. SUPPORT DUCT FROM PLATFORM STRUCTURE.
1824 RA-1
3600 CFM
8'-0" x 5 SLOT LD-1
400 CFM
824 CD-1
200 CFM
1824 RA-1
824 CD-1
200 CFM
1824 RA-1
8'-0" x 5 SLOT LD-1
400 CFM
1824 RA-1
8"ø
8"ø
6"ø
10"ø
10"ø
10"ø
4"/8"
12"/18"
EF-3
L-13
6"ø
6"ø
10"ø
6"ø
10"ø
6"ø
6"ø
6"ø
M
824 RA-1
824 CD-1
120 CFM
612 ER-1
50 CFM
612 CD-1
30 CFM
1024 ER-1
200 CFM
612 ER-1
50 CFM
1024 CD-1
300 CFM
612 ER-1
50 CFM
612 ER-1
50 CFM
ROUTE 10" DIA. S.A. / R.A. DOWN IN CEILING SPACE TO SERVE OFFICE (m109)
CORRIDOR 2
m108
JAN.
m111
CU-4

④ MAINTENANCE BLDG. - SECTION 4
SCALE: 1/4" = 1'-0"

STAMPS

MARCUS D. CATHEY
No.11043
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
HVAC SECTION - MAINT. BLDG.

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: AK **Checked By:** MDC
DATE: JULY 29, 2022

M2.02

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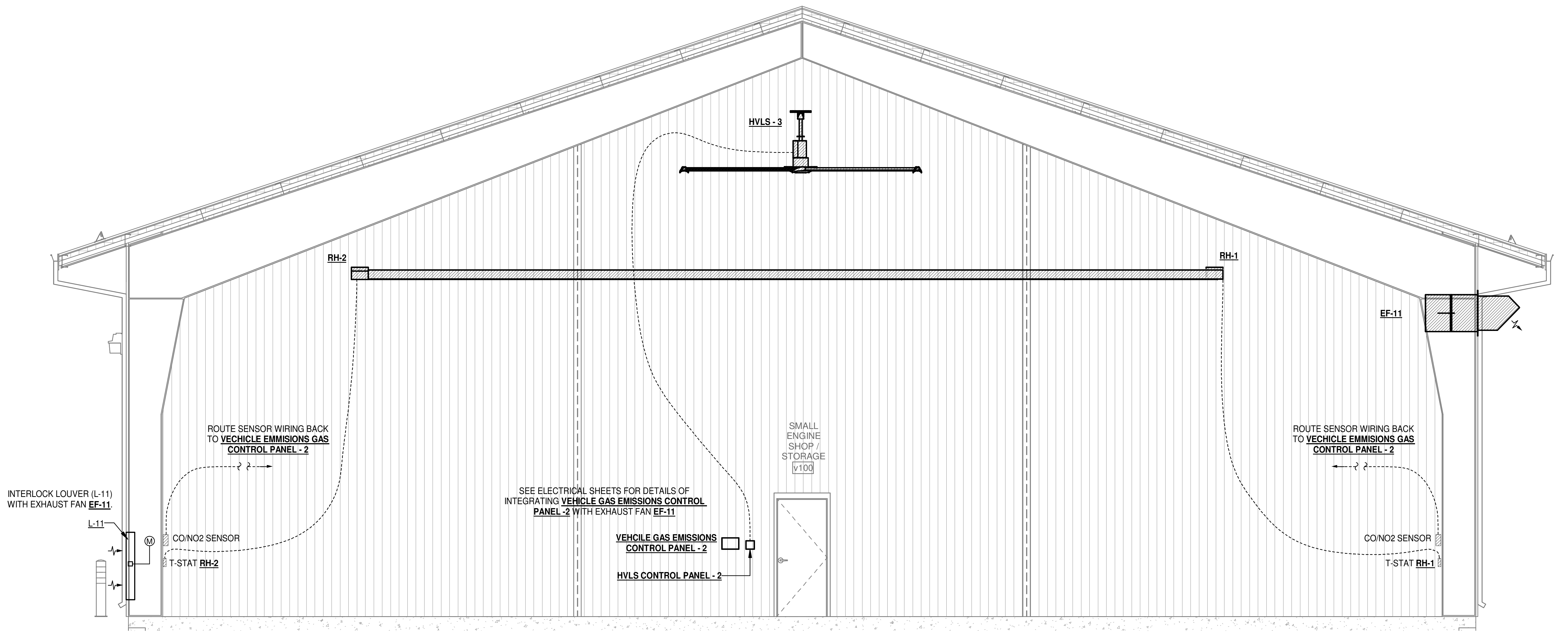
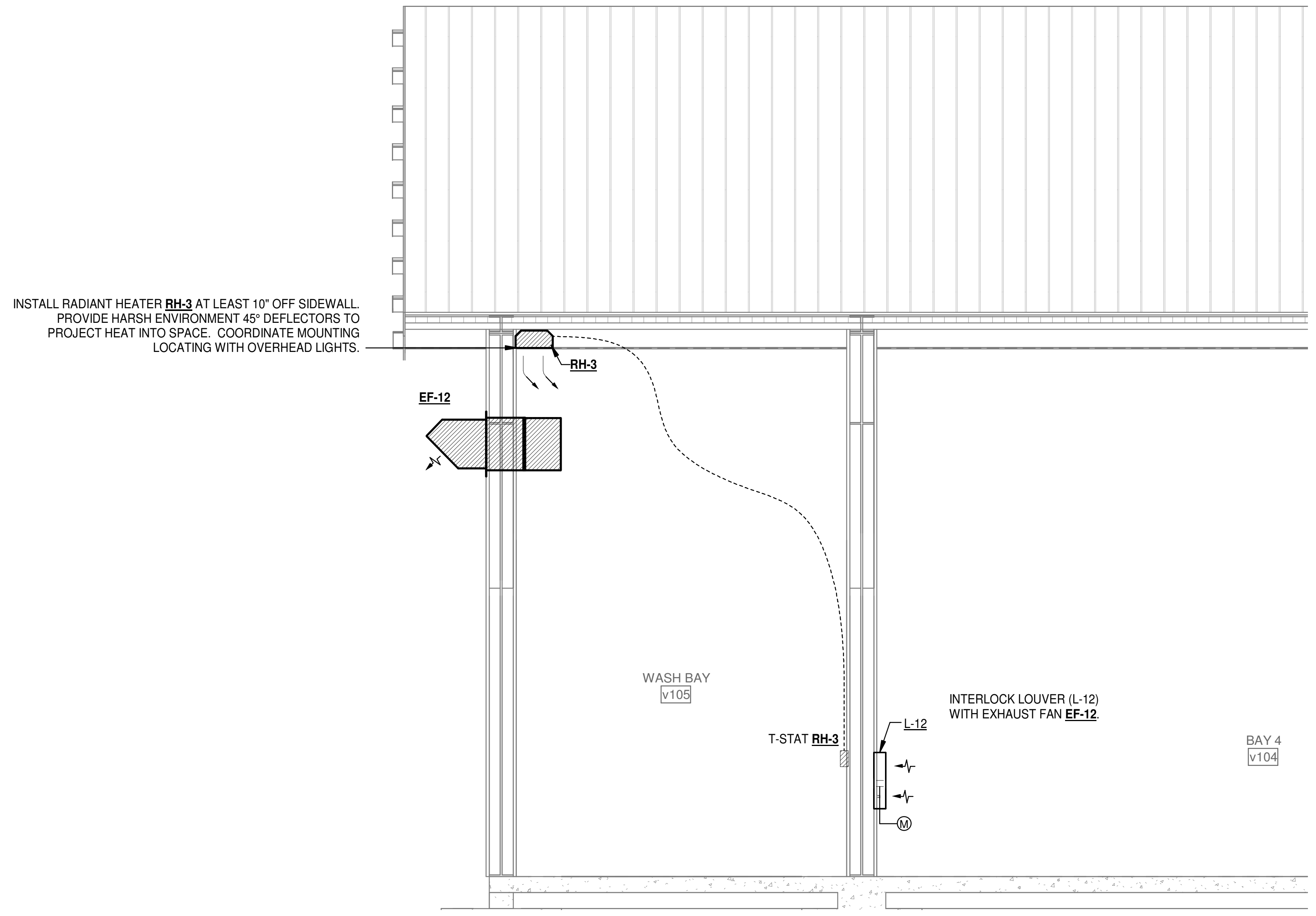

HVLS - 3
RH-2
RH-1
EF-11
SMALL ENGINE SHOP / STORAGE
v100
ROUTE SENSOR WIRING BACK TO **VECHICLE EMMISIONS GAS CONTROL PANEL - 2**
ROUTE SENSOR WIRING BACK TO **VECHICLE EMMISIONS GAS CONTROL PANEL - 2**
INTERLOCK LOUVER (L-11) WITH EXHAUST FAN **EF-11**.
L-11
M
CO/NO2 SENSOR
T-STAT **RH-2**
SEE ELECTRICAL SHEETS FOR DETAILS OF INTEGRATING **VEHICLE GAS EMISSIONS CONTROL PANEL -2** WITH EXHAUST FAN **EF-11**
VEHCILE GAS EMISSIONS CONTROL PANEL - 2
HVLS CONTROL PANEL - 2
CO/NO2 SENSOR
T-STAT **RH-1**

① VEHICLE STORAGE - SECTION 1

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


INSTALL RADIANT HEATER **RH-3** AT LEAST 10" OFF SIDEWALL. PROVIDE HARSH ENVIRONMENT 45° DEFLECTORS TO PROJECT HEAT INTO SPACE. COORDINATE MOUNTING LOCATING WITH OVERHEAD LIGHTS.
RH-3
EF-12
WASH BAY
v105
T-STAT **RH-3**
L-12
M
INTERLOCK LOUVER (L-12) WITH EXHAUST FAN **EF-12**.
BAY 4
v104

② VEHCILE STORAGE - SECTION 2

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

STAMPS

MARCUS D. CATHEY
No.11043
7/29/22

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
HVAC SECTION - VEHICLE STORAGE

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: AK **Checked By:** MDC

DATE: JULY 29, 2022

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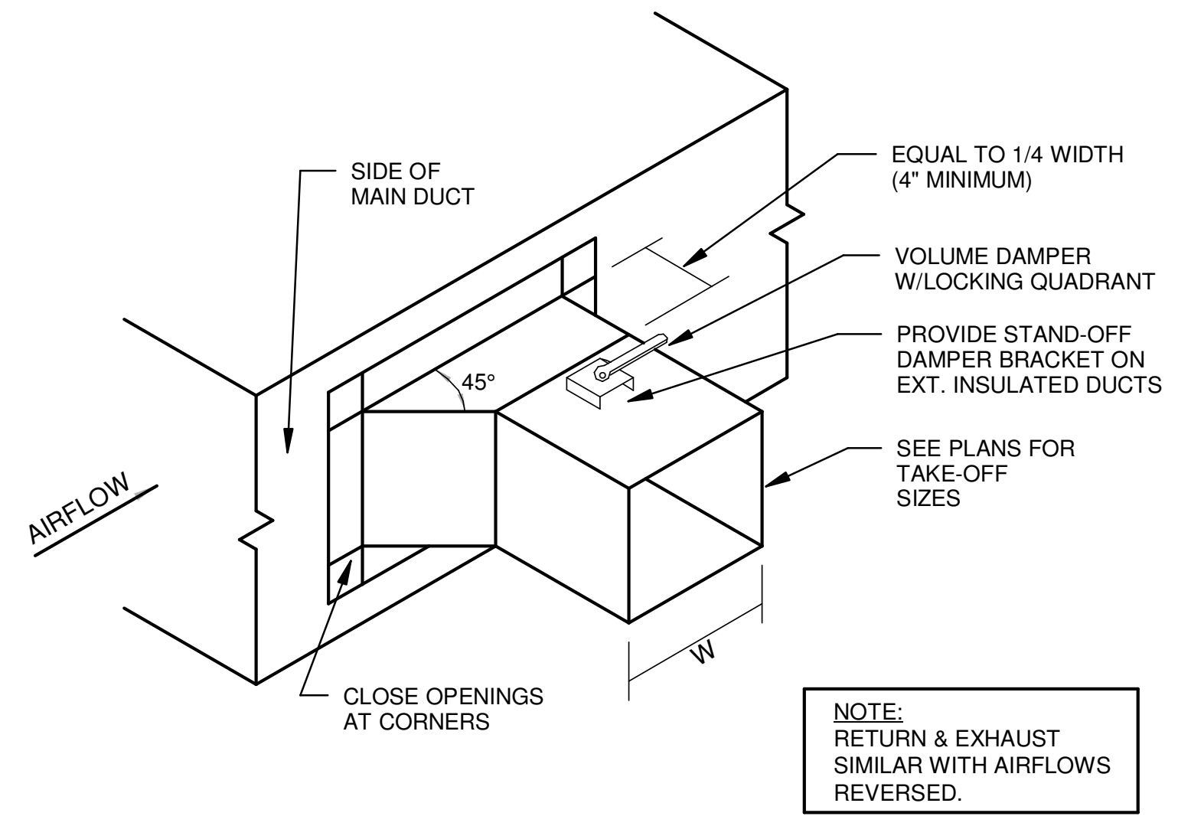
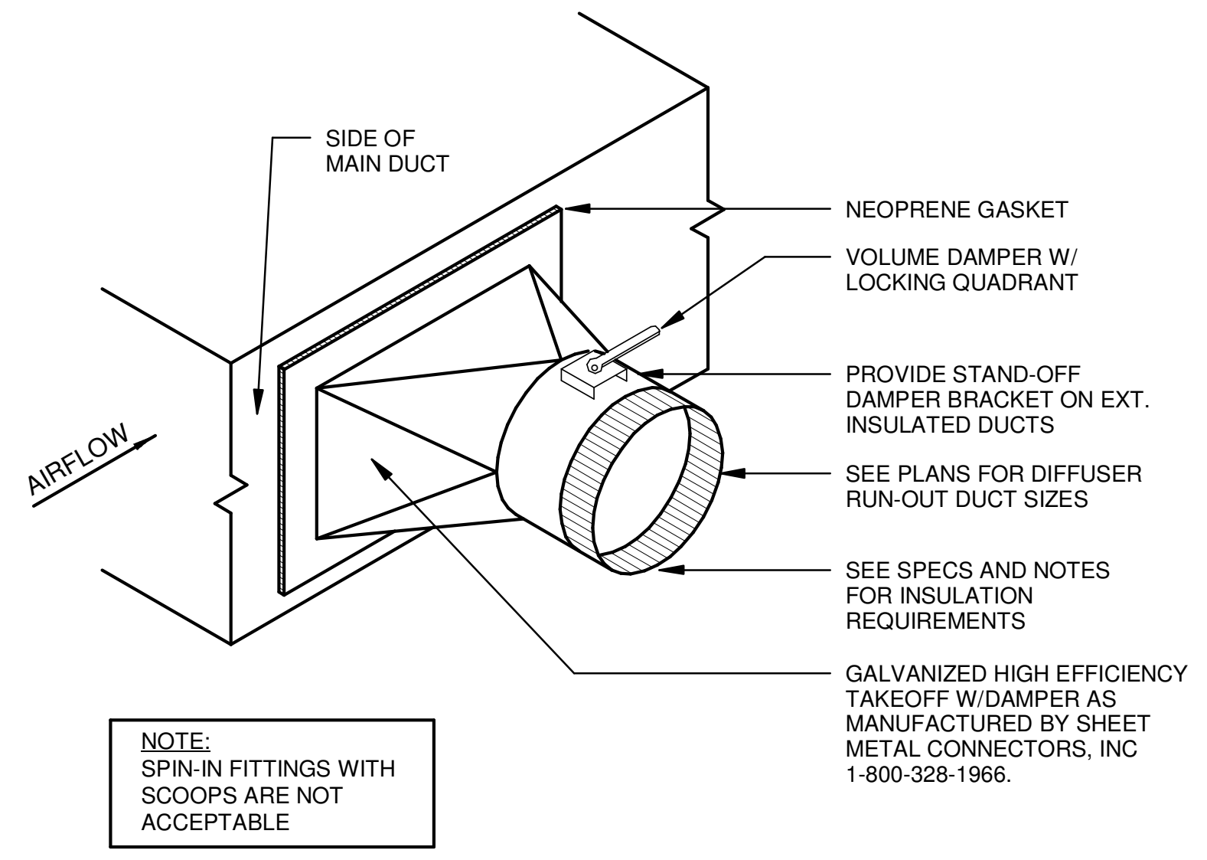
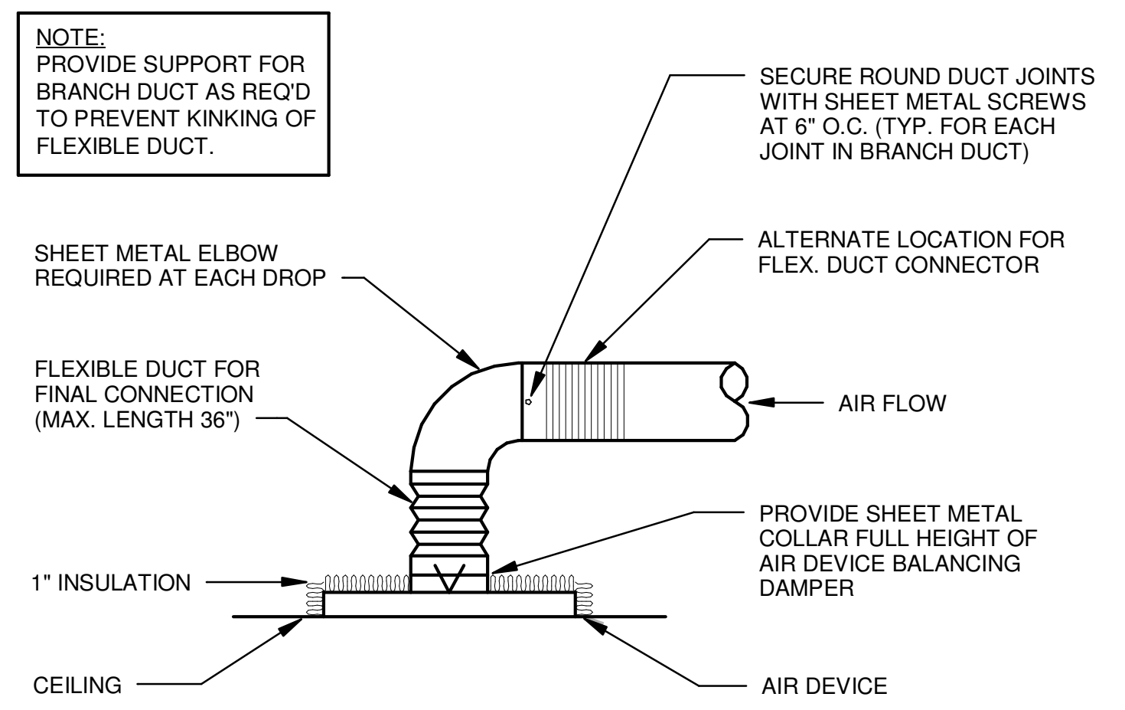

SIDE OF MAIN DUCT
EQUAL TO 1/4 WIDTH (4" MINIMUM)
VOLUME DAMPER W/LOCKING QUADRANT
PROVIDE STAND-OFF DAMPER BRACKET ON EXT. INSULATED DUCTS
SEE PLANS FOR TAKE-OFF SIZES
45°
AIRFLOW
W
CLOSE OPENINGS AT CORNERS
NOTE: RETURN & EXHAUST SIMILAR WITH AIRFLOWS REVERSED.

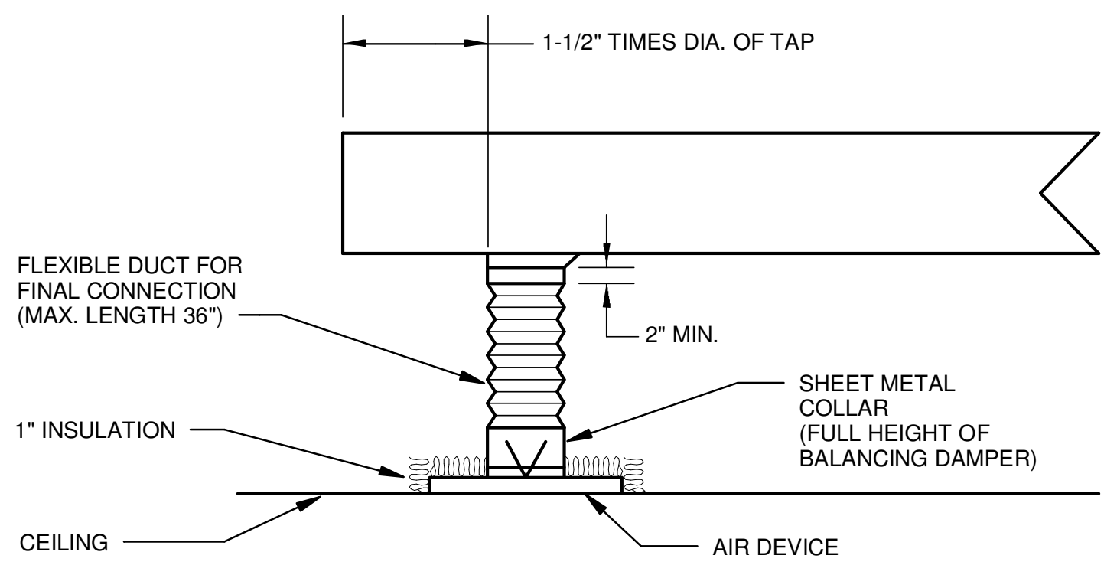
① BRANCH DUCT TAKE-OFF DETAIL
N.T.S.


SIDE OF MAIN DUCT
NEOPRENE GASKET
VOLUME DAMPER W/ LOCKING QUADRANT
PROVIDE STAND-OFF DAMPER BRACKET ON EXT. INSULATED DUCTS
AIRFLOW
SEE PLANS FOR DIFFUSER RUN-OUT DUCT SIZES
SEE SPECS AND NOTES FOR INSULATION REQUIREMENTS
GALVANIZED HIGH EFFICIENCY TAKEOFF W/DAMPER AS MANUFACTURED BY SHEET METAL CONNECTORS, INC 1-800-328-1966.
NOTE: SPIN-IN FITTINGS WITH SCOOPS ARE NOT ACCEPTABLE

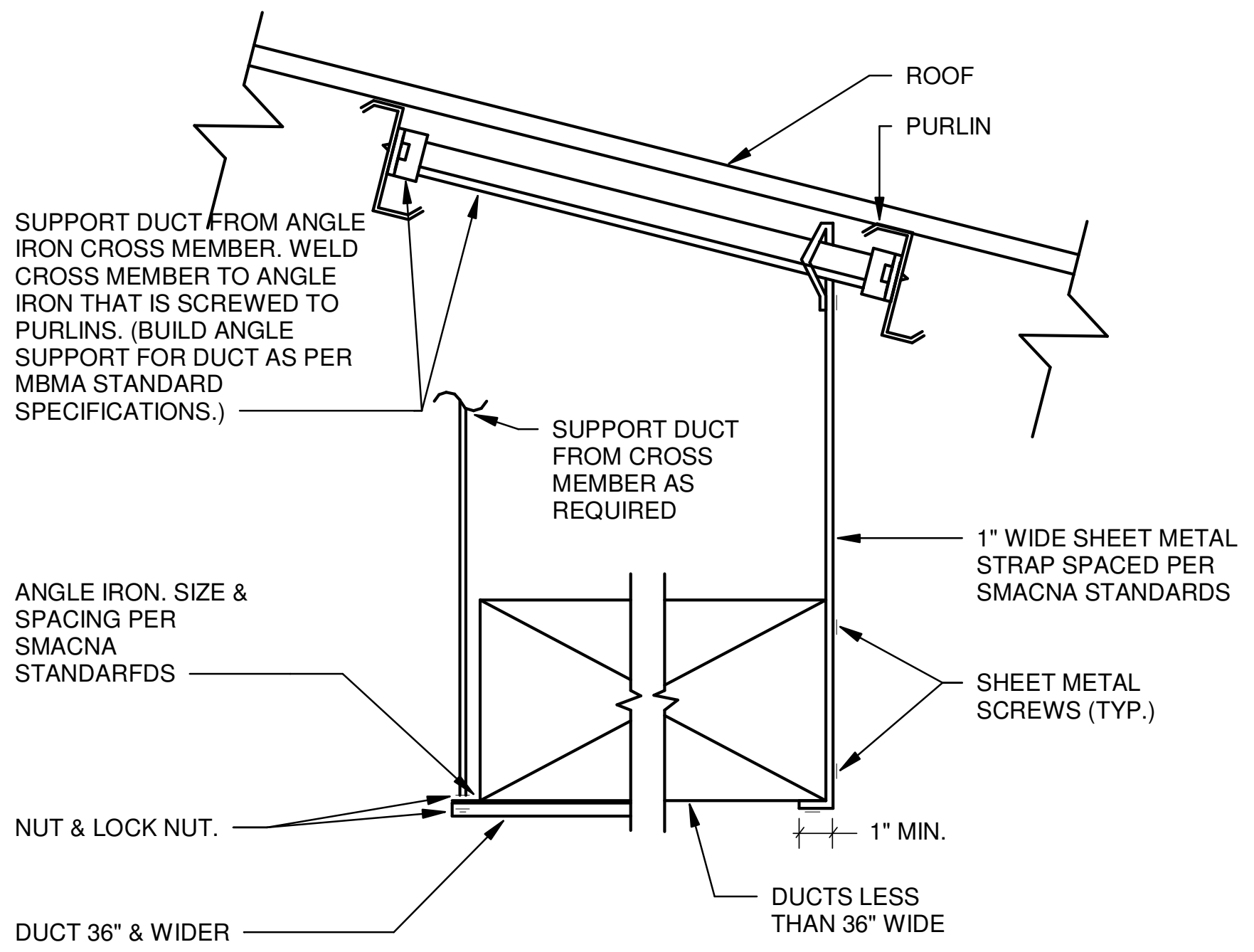
② BRANCH DUCT TAKE-OFF DETAIL
N.T.S.


NOTE: PROVIDE SUPPORT FOR BRANCH DUCT AS REQ'D TO PREVENT KINKING OF FLEXIBLE DUCT.
SECURE ROUND DUCT JOINTS WITH SHEET METAL SCREWS AT 6" O.C. (TYP. FOR EACH JOINT IN BRANCH DUCT)
SHEET METAL ELBOW REQUIRED AT EACH DROP
ALTERNATE LOCATION FOR FLEX. DUCT CONNECTOR
FLEXIBLE DUCT FOR FINAL CONNECTION (MAX. LENGTH 36")
AIR FLOW
PROVIDE SHEET METAL COLLAR FULL HEIGHT OF AIR DEVICE BALANCING DAMPER
1" INSULATION
CEILING
AIR DEVICE

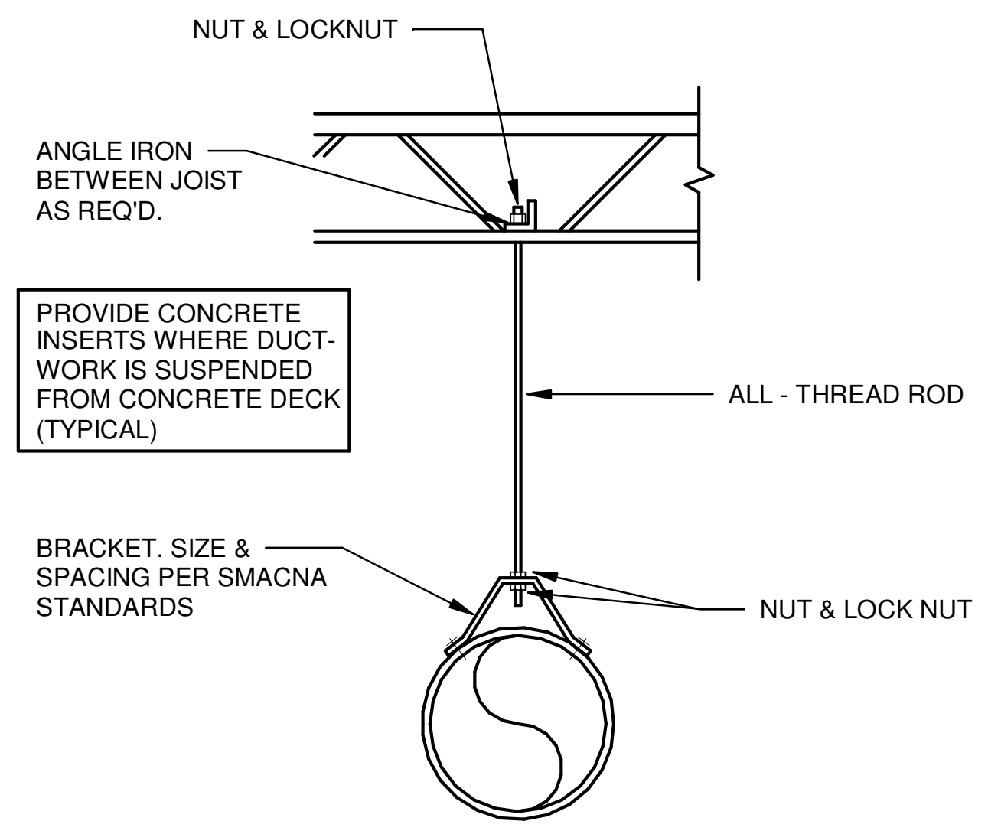
③ DIFFUSER CONNECTION DETAIL
N.T.S.


1-1/2" TIMES DIA. OF TAP
FLEXIBLE DUCT FOR FINAL CONNECTION (MAX. LENGTH 36")
2" MIN.
1" INSULATION
SHEET METAL COLLAR (FULL HEIGHT OF BALANCING DAMPER)
CEILING
AIR DEVICE

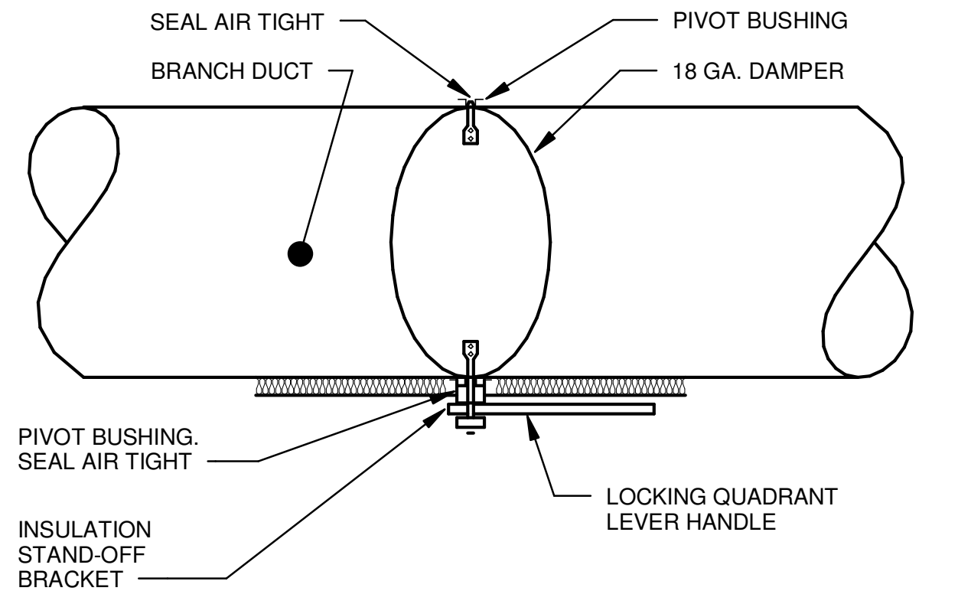
④ DIFFUSER CONNECTION END OF TRUNK DUCT
N.T.S.


ROOF
PURLIN
SUPPORT DUCT FROM ANGLE IRON CROSS MEMBER. WELD CROSS MEMBER TO ANGLE IRON THAT IS SCREWED TO PURLINS. (BUILD ANGLE SUPPORT FOR DUCT AS PER MBMA STANDARD SPECIFICATIONS.)
SUPPORT DUCT FROM CROSS MEMBER AS REQUIRED
1" WIDE SHEET METAL STRAP SPACED PER SMACNA STANDARDS
ANGLE IRON. SIZE & SPACING PER SMACNA STANDARFDS
SHEET METAL SCREWS (TYP.)
NUT & LOCK NUT.
1" MIN.
DUCTS LESS THAN 36" WIDE
DUCT 36" & WIDER

⑤ DUCT SUPPORT DETAIL
N.T.S.

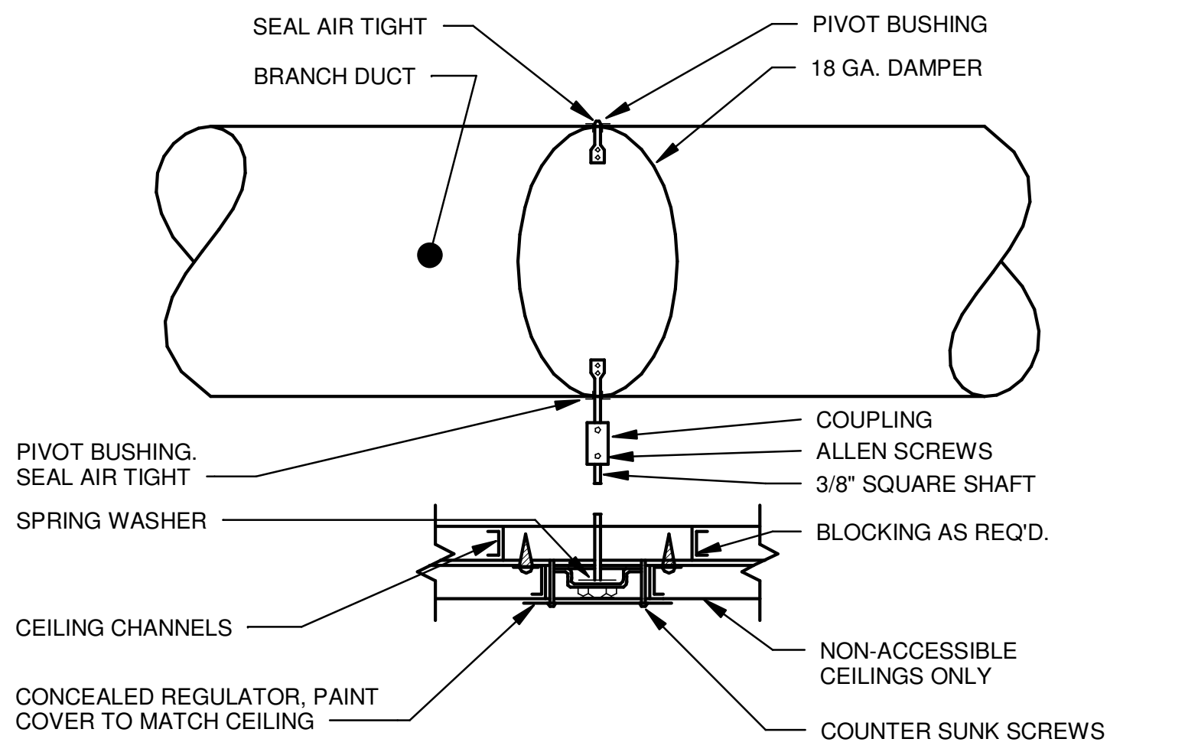

NUT & LOCKNUT
ANGLE IRON BETWEEN JOIST AS REQ'D.
PROVIDE CONCRETE INSERTS WHERE DUCT-WORK IS SUSPENDED FROM CONCRETE DECK (TYPICAL)
ALL - THREAD ROD
BRACKET. SIZE & SPACING PER SMACNA STANDARDS
NUT & LOCK NUT

⑥ EXPOSED ROUND DUCT SUPPORT DETAIL
N.T.S.


SEAL AIR TIGHT
PIVOT BUSHING
BRANCH DUCT
18 GA. DAMPER
PIVOT BUSHING. SEAL AIR TIGHT
LOCKING QUADRANT LEVER HANDLE
INSULATION STAND-OFF BRACKET

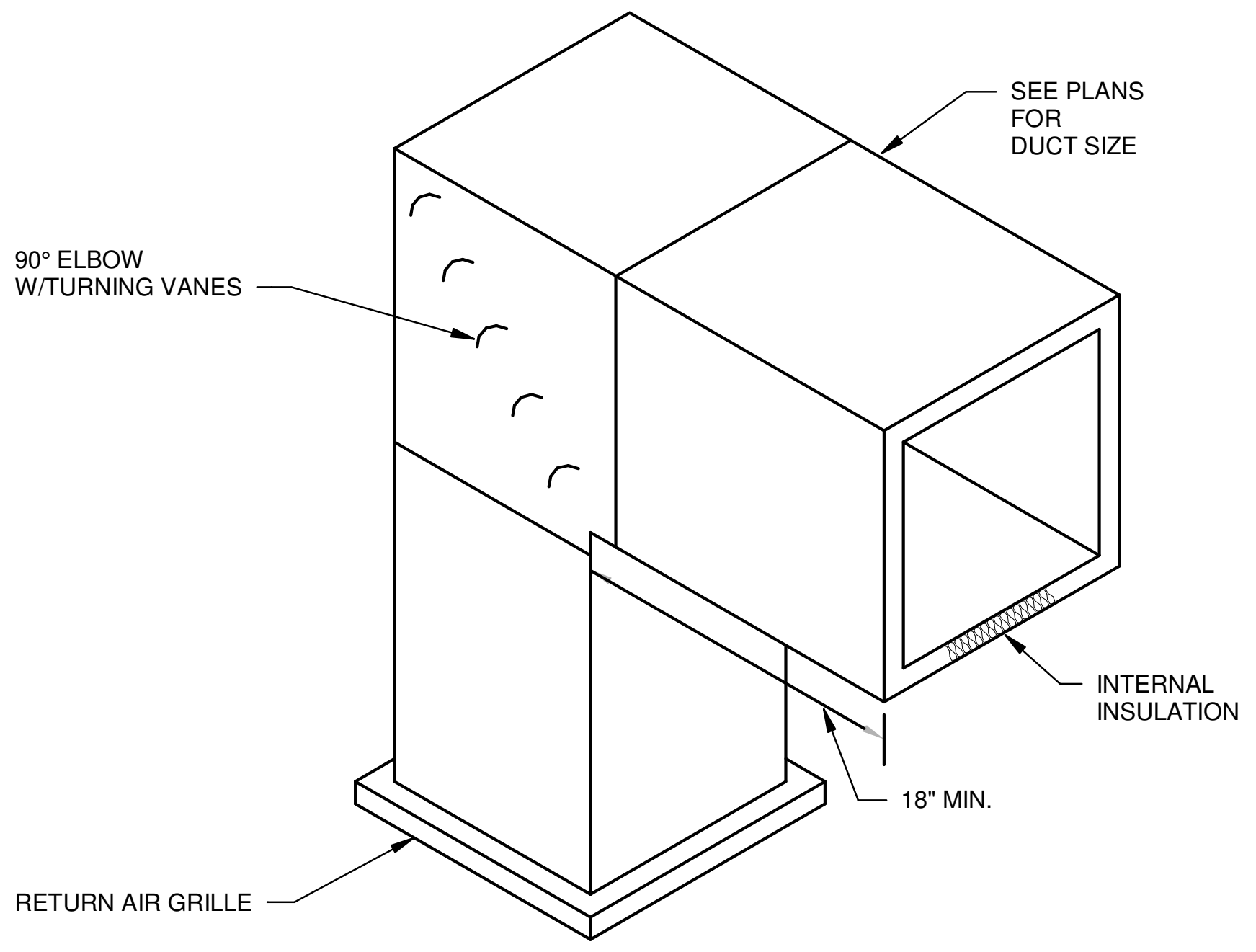
ABOVE ACCESSIBLE CEILINGS

⑦ MANUAL DAMPER OPERATOR DETAIL
N.T.S.

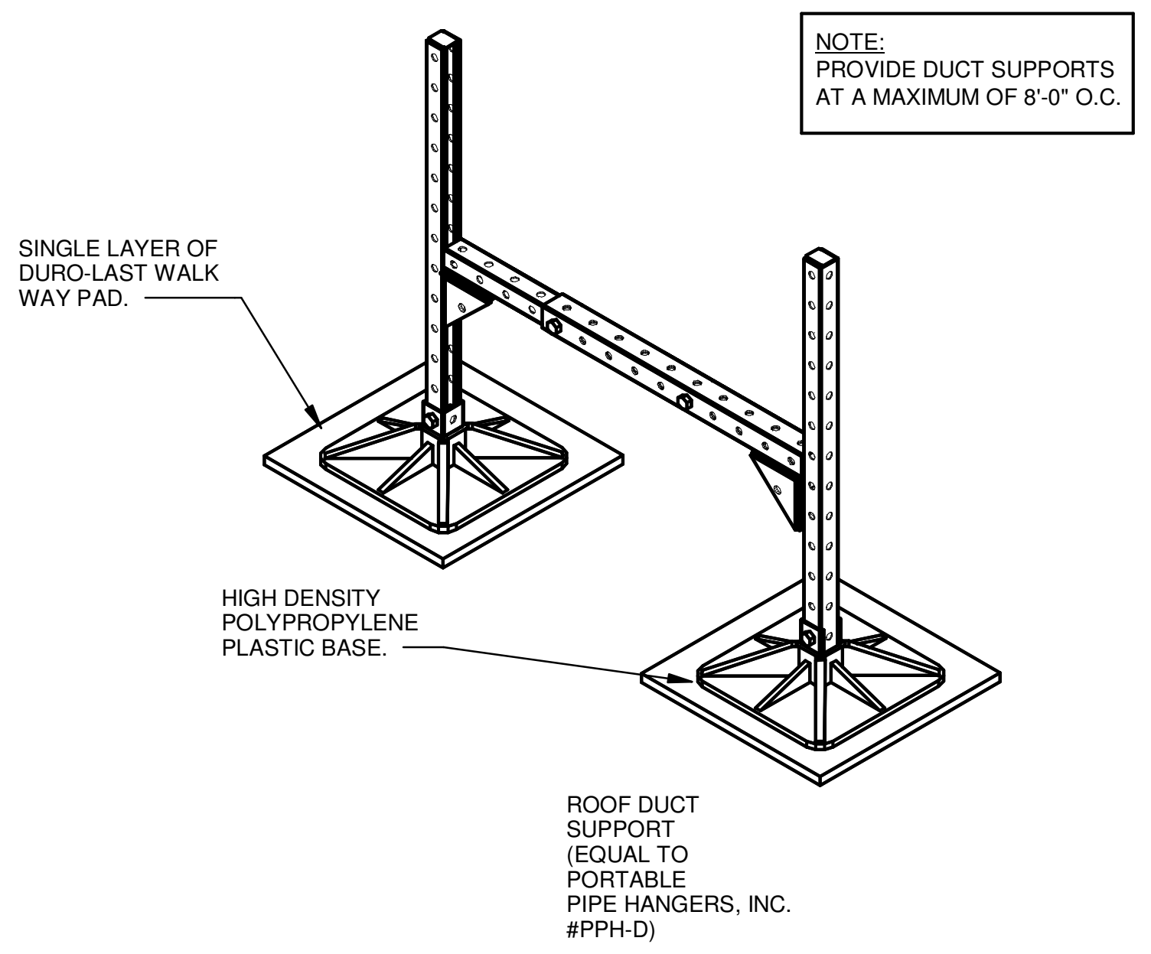


ABOVE NON-ACCESSIBLE CEILINGS

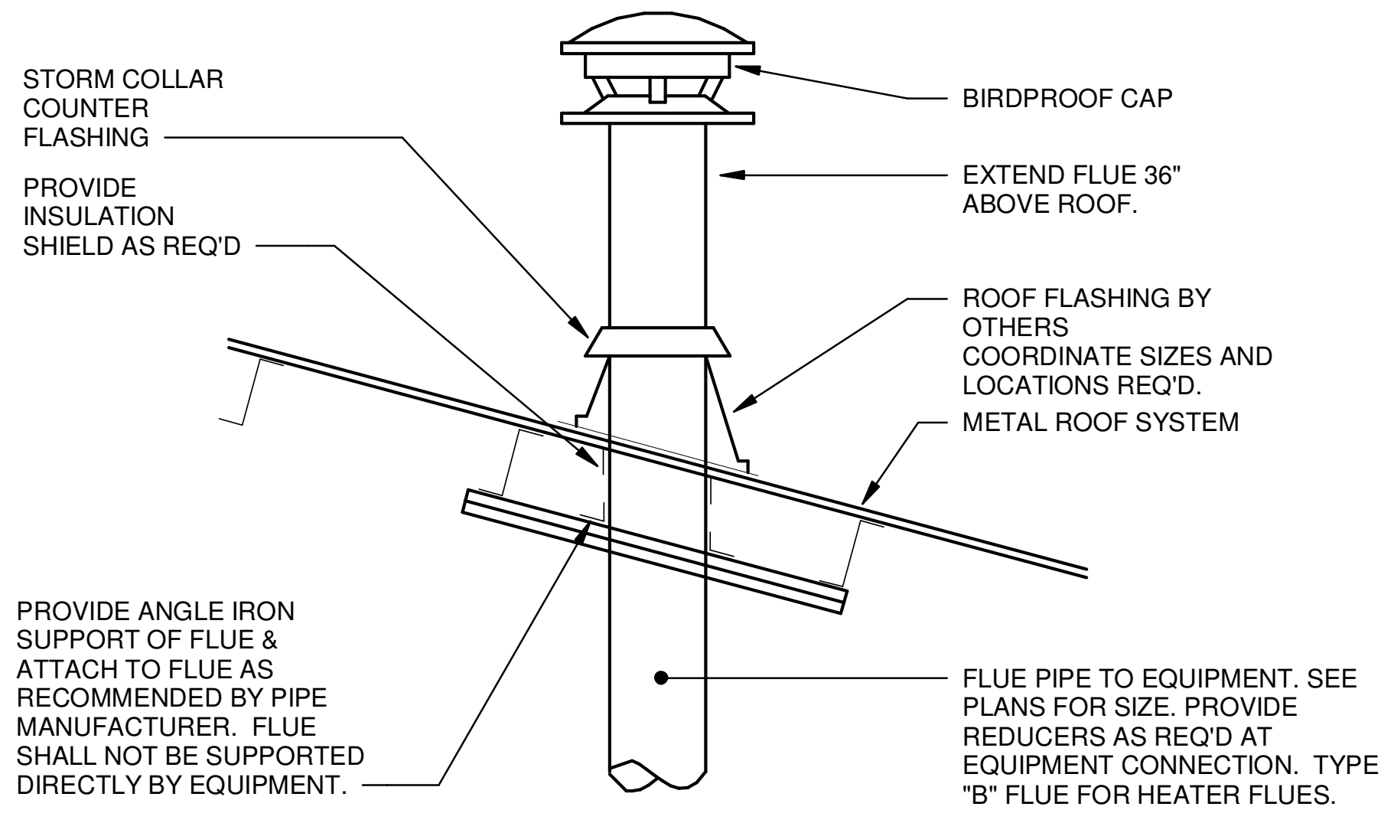
⑧ MANUAL DAMPER OPERATOR DETAIL
N.T.S.



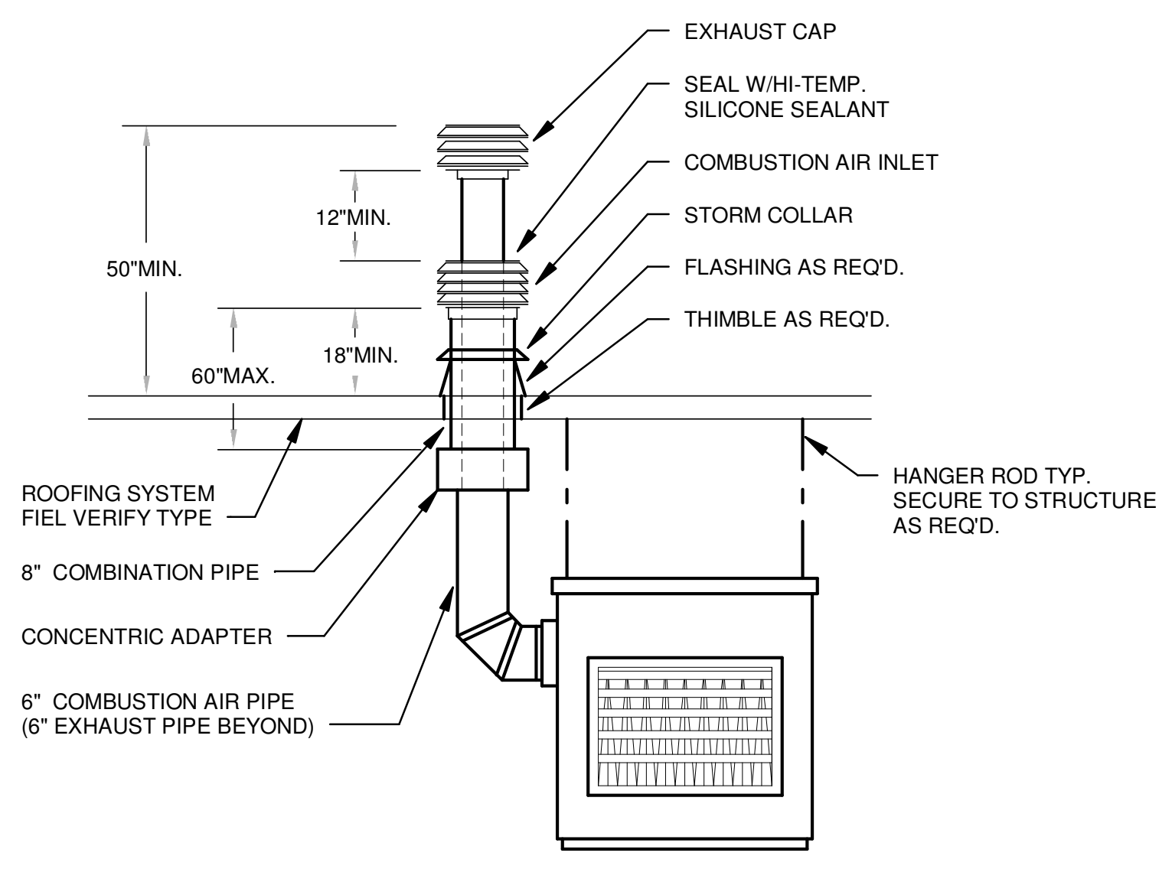
⑨ TRANSFER DUCT DETAIL
N.T.S.


NOTE: PROVIDE DUCT SUPPORTS AT A MAXIMUM OF 8'-0" O.C.
SINGLE LAYER OF DURO-LAST WALK WAY PAD.
HIGH DENSITY POLYPROPYLENE PLASTIC BASE.
ROOF DUCT SUPPORT (EQUAL TO PORTABLE PIPE HANGERS, INC. #PPH-D)

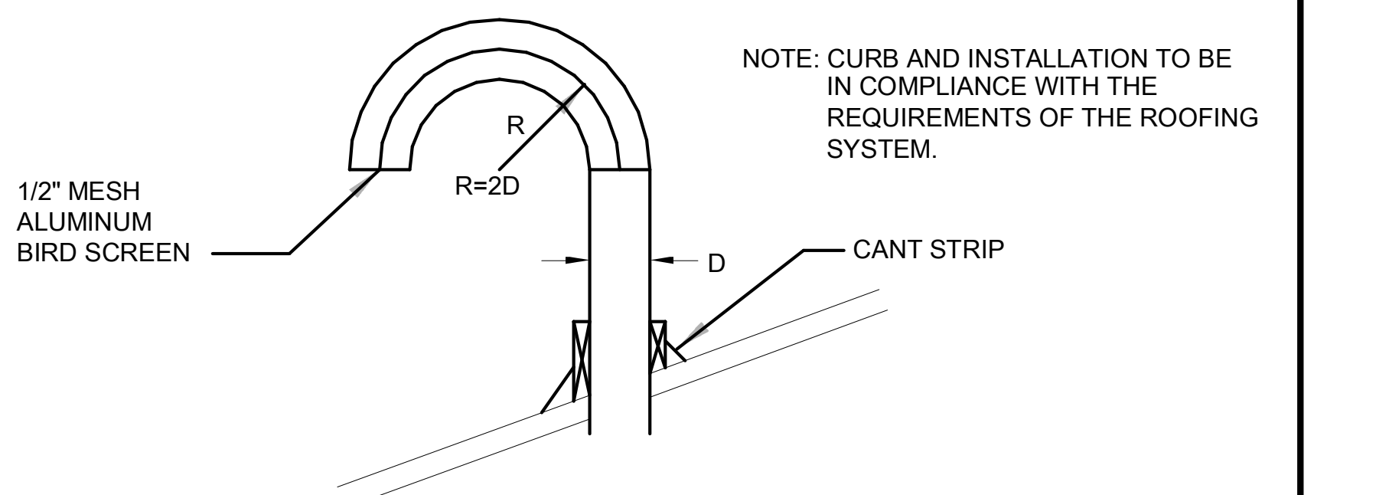
⑩ DUCT SUPPORT DETAIL
N.T.S.


STORM COLLAR COUNTER FLASHING
BIRDPROOF CAP
PROVIDE INSULATION SHIELD AS REQ'D
EXTEND FLUE 36" ABOVE ROOF.
ROOF FLASHING BY OTHERS COORDINATE SIZES AND LOCATIONS REQ'D.
METAL ROOF SYSTEM
PROVIDE ANGLE IRON SUPPORT OF FLUE & ATTACH TO FLUE AS RECOMMENDED BY PIPE MANUFACTURER. FLUE SHALL NOT BE SUPPORTED DIRECTLY BY EQUIPMENT.
FLUE PIPE TO EQUIPMENT. SEE PLANS FOR SIZE. PROVIDE REDUCERS AS REQ'D AT EQUIPMENT CONNECTION. TYPE "B" FLUE FOR HEATER FLUES.

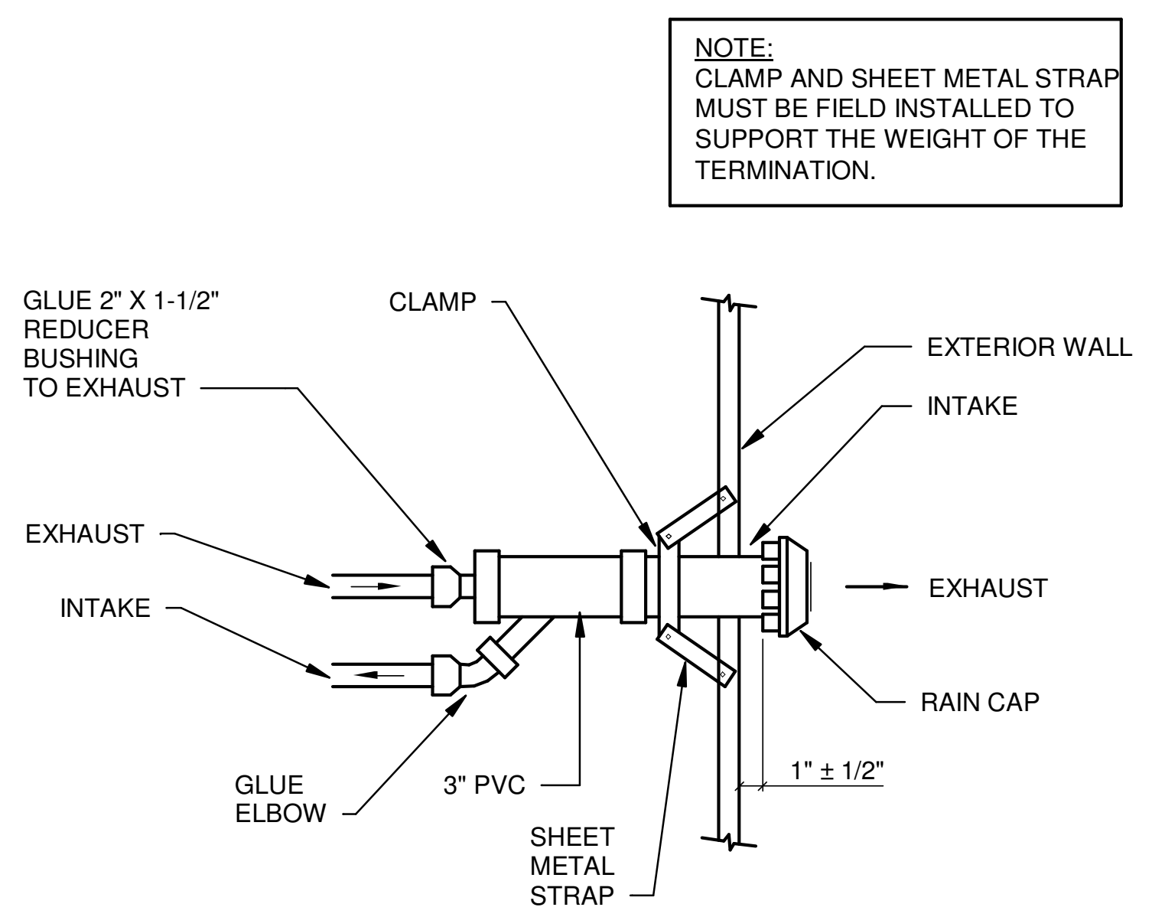
⑪ TYPICAL FLUE DETAIL
N.T.S.


EXHAUST CAP
SEAL W/HI-TEMP. SILICONE SEALANT
COMBUSTION AIR INLET
12"MIN.
50"MIN.
STORM COLLAR
FLASHING AS REQ'D.
THIMBLE AS REQ'D.
18"MIN.
60"MAX.
ROOFING SYSTEM FIEL VERIFY TYPE
HANGER ROD TYP. SECURE TO STRUCTURE AS REQ'D.
8" COMBINATION PIPE
CONCENTRIC ADAPTER
6" COMBUSTION AIR PIPE (6" EXHAUST PIPE BEYOND)

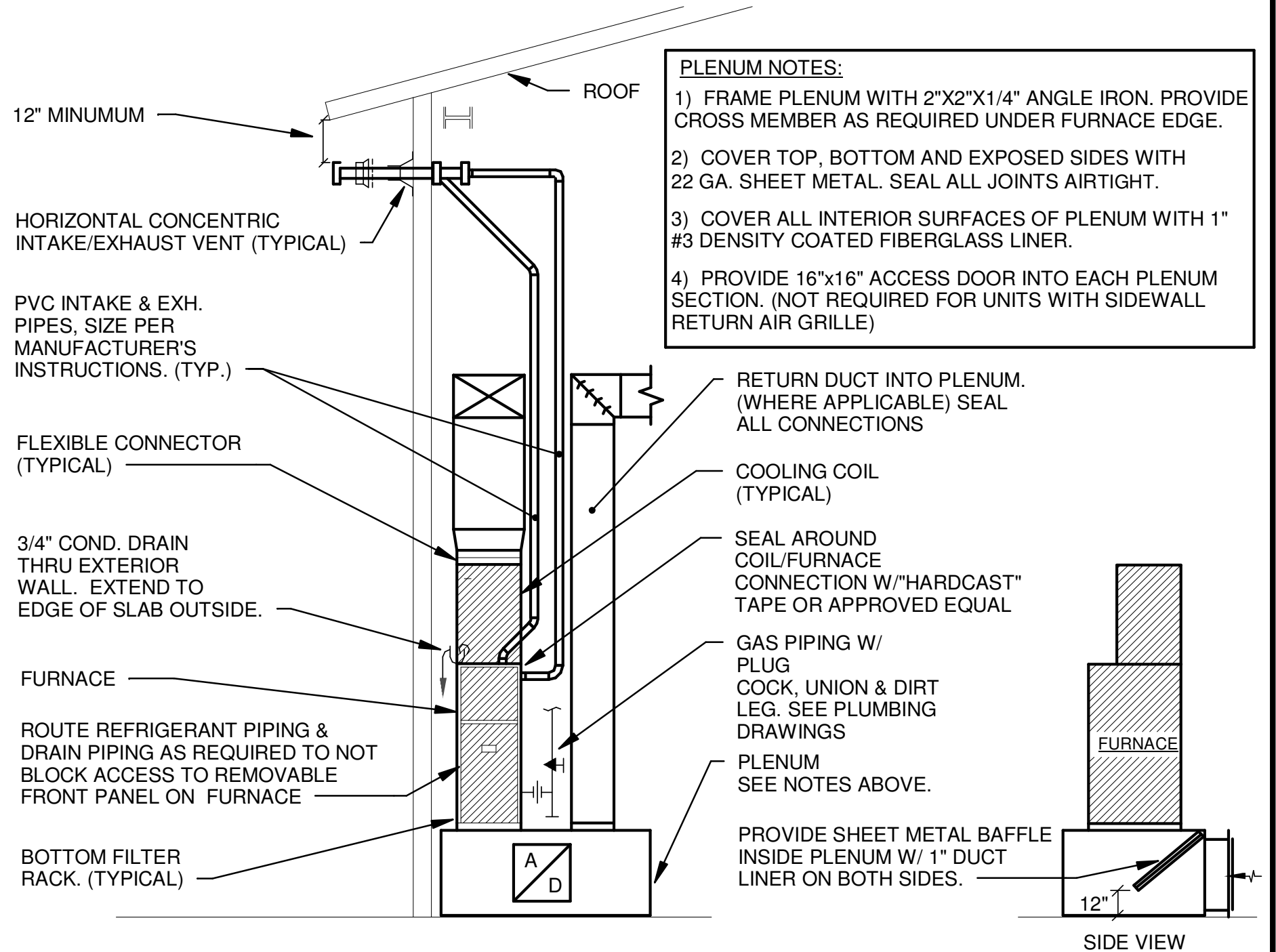
⑫ UNIT HEATER FLUE DETAIL
N.T.S. SIMILAR FOR SIDEWALL INSTALLATION


NOTE: CURB AND INSTALLATION TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE ROOFING SYSTEM.
R
R=2D
1/2" MESH ALUMINUM BIRD SCREEN
D
CANT STRIP

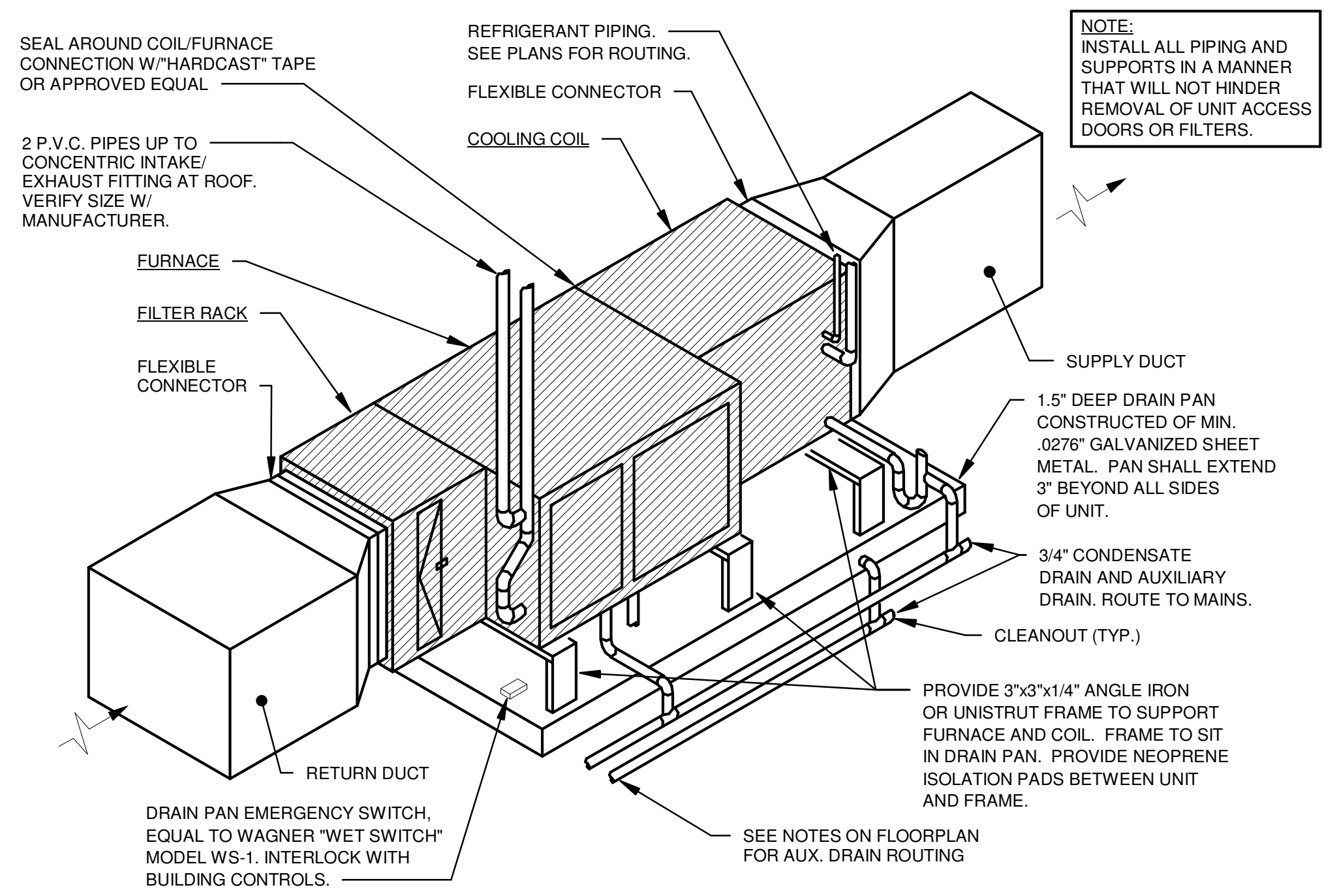
⑬ GOOSENECK INTAKE DETAIL
N.T.S.


NOTE: CLAMP AND SHEET METAL STRAP MUST BE FIELD INSTALLED TO SUPPORT THE WEIGHT OF THE TERMINATION.
GLUE 2" X 1-1/2" REDUCER BUSHING TO EXHAUST
CLAMP
EXTERIOR WALL
INTAKE
EXHAUST
INTAKE
EXHAUST
RAIN CAP
1" ± 1/2"
GLUE ELBOW
3" PVC
SHEET METAL STRAP

⑭ FURNACE INTAKE/EXHAUST PIPING DETAIL
N.T.S.


12" MINUMUM
ROOF
PLENUM NOTES:
1) FRAME PLENUM WITH 2"X2"X1/4" ANGLE IRON. PROVIDE CROSS MEMBER AS REQUIRED UNDER FURNACE EDGE.
2) COVER TOP, BOTTOM AND EXPOSED SIDES WITH 22 GA. SHEET METAL. SEAL ALL JOINTS AIRTIGHT.
3) COVER ALL INTERIOR SURFACES OF PLENUM WITH 1" #3 DENSITY COATED FIBERGLASS LINER.
4) PROVIDE 16"x16" ACCESS DOOR INTO EACH PLENUM SECTION. (NOT REQUIRED FOR UNITS WITH SIDEWALL RETURN AIR GRILLE)
HORIZONTAL CONCENTRIC INTAKE/EXHAUST VENT (TYPICAL)
PVC INTAKE & EXH. PIPES, SIZE PER MANUFACTURER'S INSTRUCTIONS. (TYP.)
RETURN DUCT INTO PLENUM. (WHERE APPLICABLE) SEAL ALL CONNECTIONS
FLEXIBLE CONNECTOR (TYPICAL)
COOLING COIL (TYPICAL)
3/4" COND. DRAIN THRU EXTERIOR WALL. EXTEND TO EDGE OF SLAB OUTSIDE.
SEAL AROUND COIL/FURNACE CONNECTION W/"HARDCAST" TAPE OR APPROVED EQUAL
FURNACE
GAS PIPING W/ PLUG COCK, UNION & DIRT LEG. SEE PLUMBING DRAWINGS
ROUTE REFRIGERANT PIPING & DRAIN PIPING AS REQUIRED TO NOT BLOCK ACCESS TO REMOVABLE FRONT PANEL ON FURNACE
PLENUM SEE NOTES ABOVE.
FURNACE
BOTTOM FILTER RACK. (TYPICAL)
A
D
PROVIDE SHEET METAL BAFFLE INSIDE PLENUM W/ 1" DUCT LINER ON BOTH SIDES.
12"
SIDE VIEW TYPICAL

⑮ FURNACE INSTALLATION DETAIL
N.T.S.


SEAL AROUND COIL/FURNACE CONNECTION W/"HARDCAST" TAPE OR APPROVED EQUAL
REFRIGERANT PIPING. SEE PLANS FOR ROUTING.
FLEXIBLE CONNECTOR
NOTE: INSTALL ALL PIPING AND SUPPORTS IN A MANNER THAT WILL NOT HINDER REMOVAL OF UNIT ACCESS DOORS OR FILTERS.
COOLING COIL
2 P.V.C. PIPES UP TO CONCENTRIC INTAKE/ EXHAUST FITTING AT ROOF. VERIFY SIZE W/ MANUFACTURER.
FURNACE
FILTER RACK
FLEXIBLE CONNECTOR
SUPPLY DUCT
1.5" DEEP DRAIN PAN CONSTRUCTED OF MIN. .0276" GALVANIZED SHEET METAL. PAN SHALL EXTEND 3" BEYOND ALL SIDES OF UNIT.
3/4" CONDENSATE DRAIN AND AUXILIARY DRAIN. ROUTE TO MAINS.
CLEANOUT (TYP.)
PROVIDE 3"x3"x1/4" ANGLE IRON OR UNISTRUT FRAME TO SUPPORT FURNACE AND COIL. FRAME TO SIT IN DRAIN PAN. PROVIDE NEOPRENE ISOLATION PADS BETWEEN UNIT AND FRAME.
RETURN DUCT
DRAIN PAN EMERGENCY SWITCH, EQUAL TO WAGNER "WET SWITCH" MODEL WS-1. INTERLOCK WITH BUILDING CONTROLS.
SEE NOTES ON FLOORPLAN FOR AUX. DRAIN ROUTING

⑯ HORIZONTAL FURNACE INSTALLATION DETAIL
N.T.S.

STAMPS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CATHEY 7/29/22

CORPORATE REGISTRATION PETTIT & PETTIT CONSULTING ENGINEERS, INC. No. 78 ARKANSAS ENGINEER

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

HVAC DETAILS

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: AK Checked By: MDC

DATE: JULY 29, 2022

M3.01

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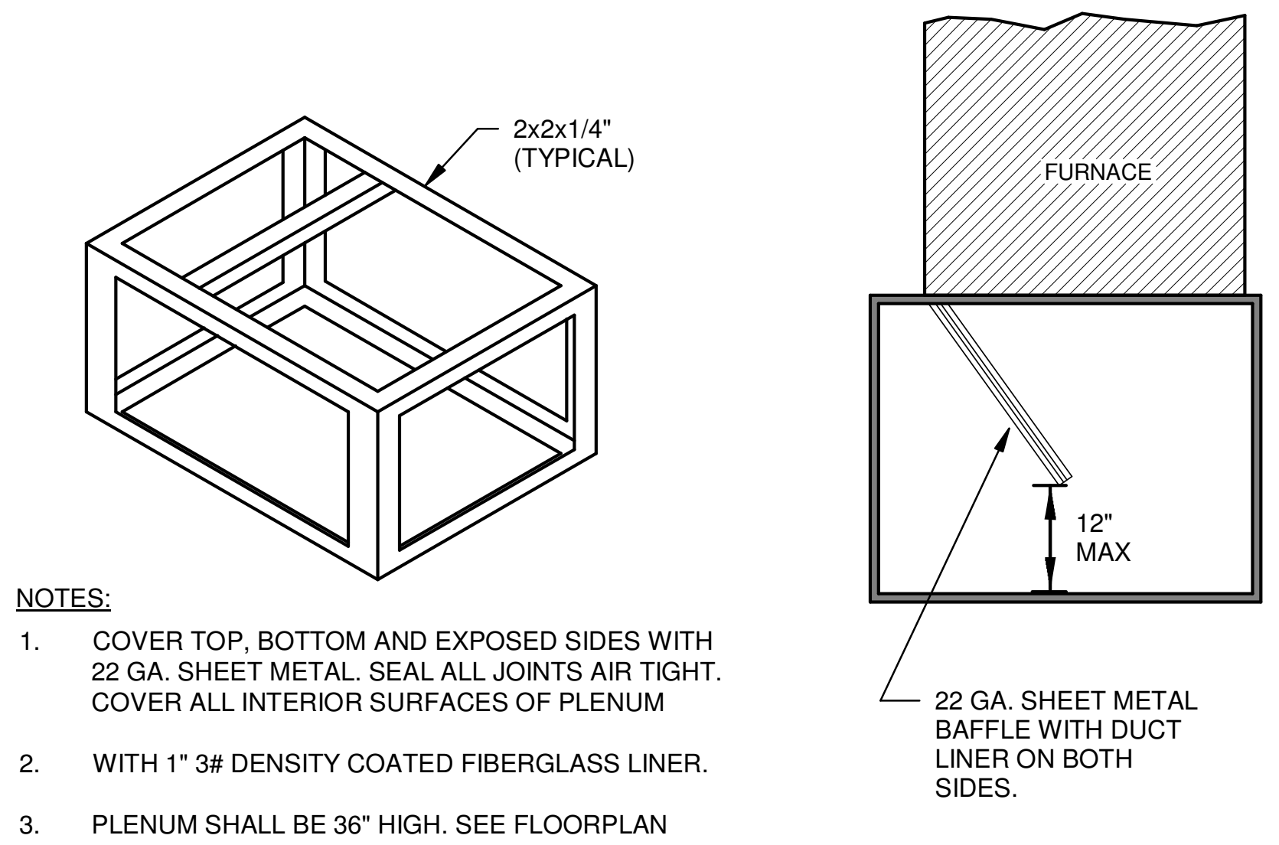


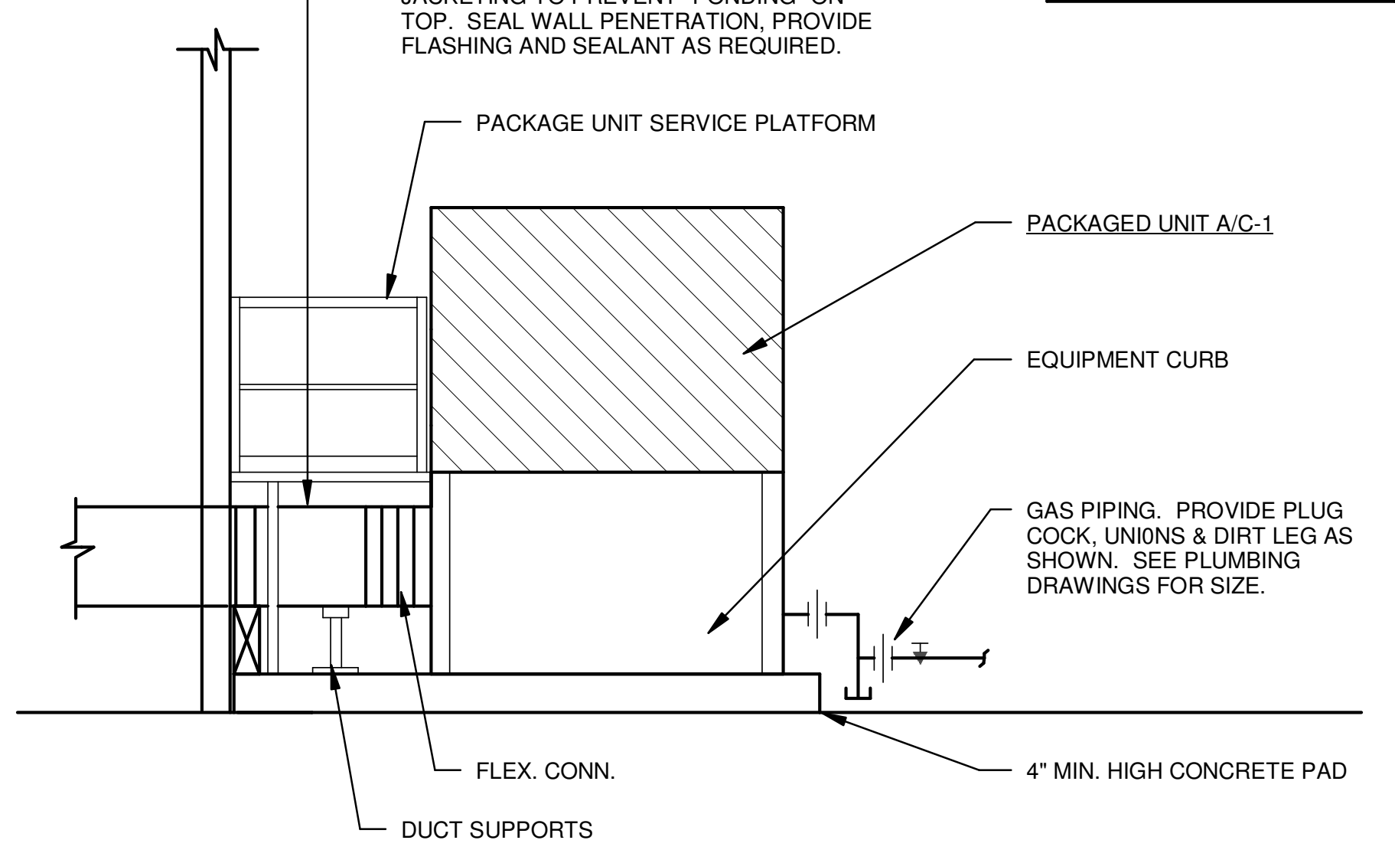
NOTES:

1. COVER TOP, BOTTOM AND EXPOSED SIDES WITH 22 GA. SHEET METAL. SEAL ALL JOINTS AIR TIGHT. COVER ALL INTERIOR SURFACES OF PLENUM
2. WITH 1" 3# DENSITY COATED FIBERGLASS LINER.
3. PLENUM SHALL BE 36" HIGH. SEE FLOORPLAN FOR PLENUM SIZES.

① TYPICAL RETURN AIR PLENUM AND FURNACE SUPPORT DETAIL

N.T.S.

NOTE:
ROUTE CONDENSATE DRAIN PIPE TO STORM DRAIN.

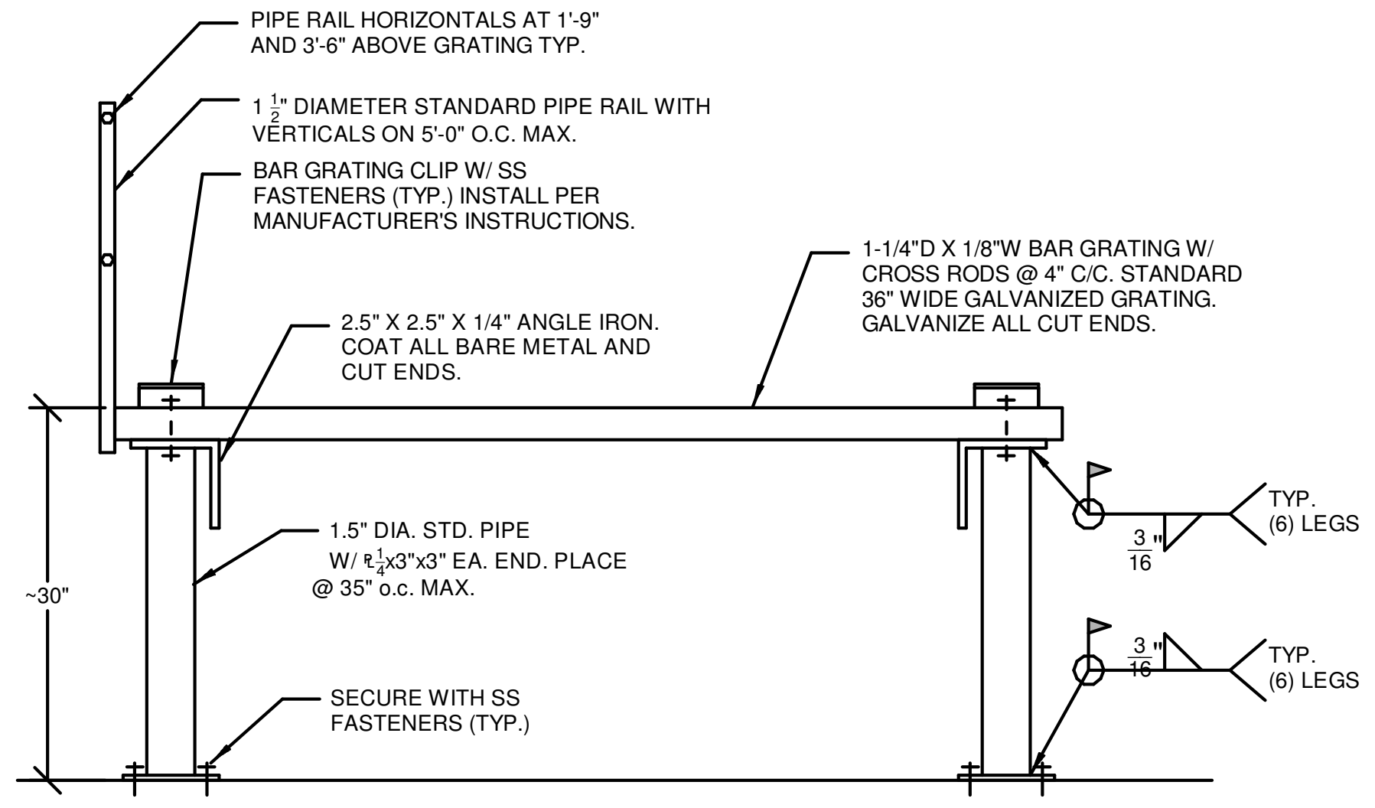

EXTERIOR DUCTWORK SHALL BE COVERED W/2" RIGID INSULATION AND ALUMINUM JACKETING. CROWN ALUMINUM JACKETING TO PREVENT "PONDING" ON TOP. SEAL WALL PENETRATION, PROVIDE FLASHING AND SEALANT AS REQUIRED.
PACKAGE UNIT SERVICE PLATFORM
PACKAGED UNIT A/C-1
EQUIPMENT CURB
GAS PIPING. PROVIDE PLUG COCK, UNI0NS & DIRT LEG AS SHOWN. SEE PLUMBING DRAWINGS FOR SIZE.
FLEX. CONN.
4" MIN. HIGH CONCRETE PAD
DUCT SUPPORTS

② PACKAGED UNIT INSTALLATION DETAIL

N.T.S.

NOTE:
WELDING GALVANIZED STEEL WILL PRODUCE ZINC-OXIDE FUMES FROM HEATING THE ZINC COATING. CONTRACTOR TO USE 3M RESPIRATORS WITH 3M DISPOSABLE FILTERS OR EQUAL AND TO PROVIDE ADEQUATE VENTILATION DURING WELDING.

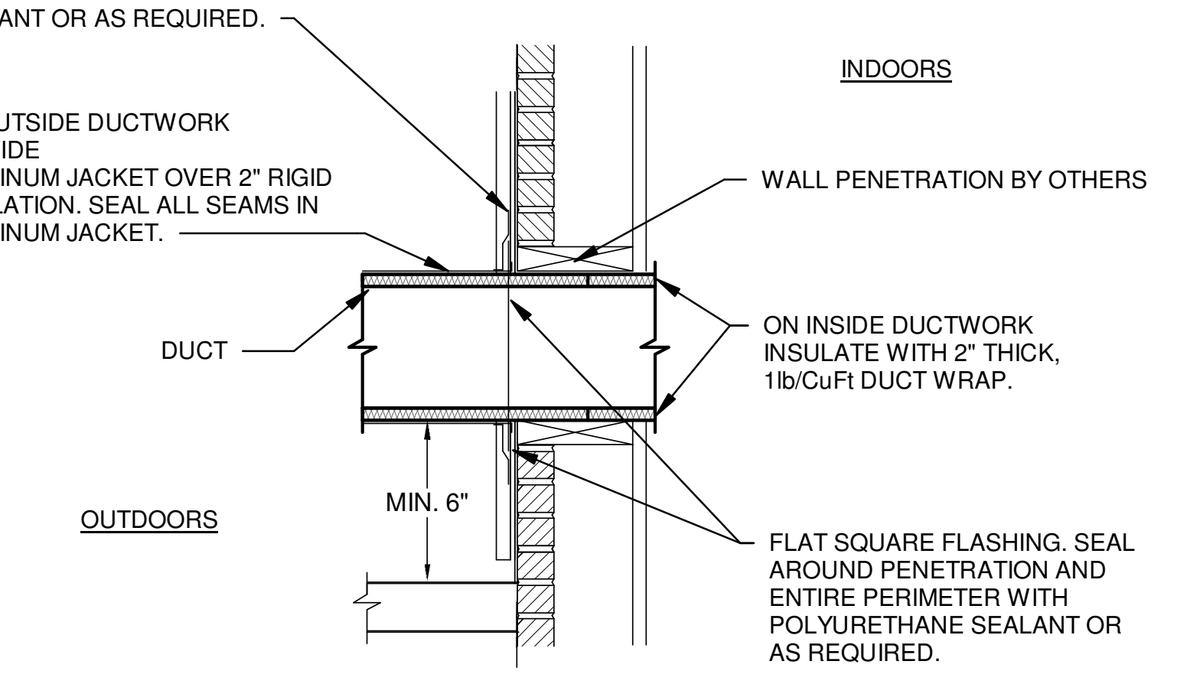
NOTE:
CONTRACTOR TO PAINT / COAT ALL WELDED AREAS, FASTENERS, ANY EXPOSED METAL DURING CONSTRUCTION, AND AREAS NOT GALVANIZED, WITH SSPC-PS PAINT 20 OR EQUAL ZINC-RICH TYPE I & II COATING.


PIPE RAIL HORIZONTALS AT 1'-9" AND 3'-6" ABOVE GRATING TYP.
1 1/2" DIAMETER STANDARD PIPE RAIL WITH VERTICALS ON 5'-0" O.C. MAX.
BAR GRATING CLIP W/ SS FASTENERS (TYP.) INSTALL PER MANUFACTURER'S INSTRUCTIONS.
1-1/4"D X 1/8"W BAR GRATING W/ CROSS RODS @ 4" C/C. STANDARD 36" WIDE GALVANIZED GRATING. GALVANIZE ALL CUT ENDS.
2.5" X 2.5" X 1/4" ANGLE IRON. COAT ALL BARE METAL AND CUT ENDS.
1.5" DIA. STD. PIPE W/ ℙ1/4x3"x3" EA. END. PLACE @ 35" o.c. MAX.
~30"
SECURE WITH SS FASTENERS (TYP.)
3/16"
TYP.
(6) LEGS
3/16"
TYP.
(6) LEGS
WIDTH AS REQUIRED FOR UNIT SERVICE CLEARANCES

CONTRACTOR TO USE GALVANIZED STEEL FRAMING FOR CONSTRUCTION OF THE NEW SERVICE SUPPORT FRAME

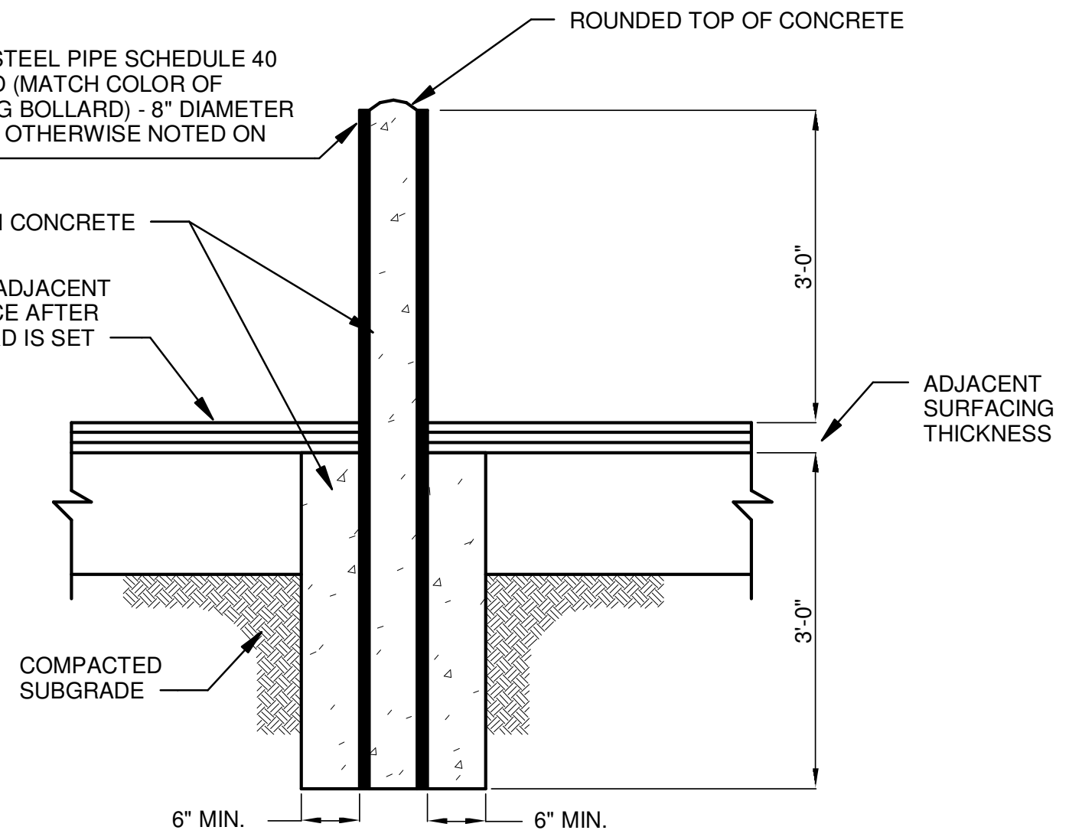
③ SERVICE PLATFORM DETAIL

N.T.S.


PROVIDE FLASHING AND SEAL WITH POLYURETHANE SEALANT OR AS REQUIRED.
INDOORS
ON OUTSIDE DUCTWORK PROVIDE ALUMINUM JACKET OVER 2" RIGID INSULATION. SEAL ALL SEAMS IN ALUMINUM JACKET.
WALL PENETRATION BY OTHERS
DUCT
ON INSIDE DUCTWORK INSULATE WITH 2" THICK, 1lb/CuFt DUCT WRAP.
MIN. 6"
OUTDOORS
FLAT SQUARE FLASHING. SEAL AROUND PENETRATION AND ENTIRE PERIMETER WITH POLYURETHANE SEALANT OR AS REQUIRED.

④ DUCT PENETRATION THRU EXTERIOR WALL DETAIL

N.T.S.

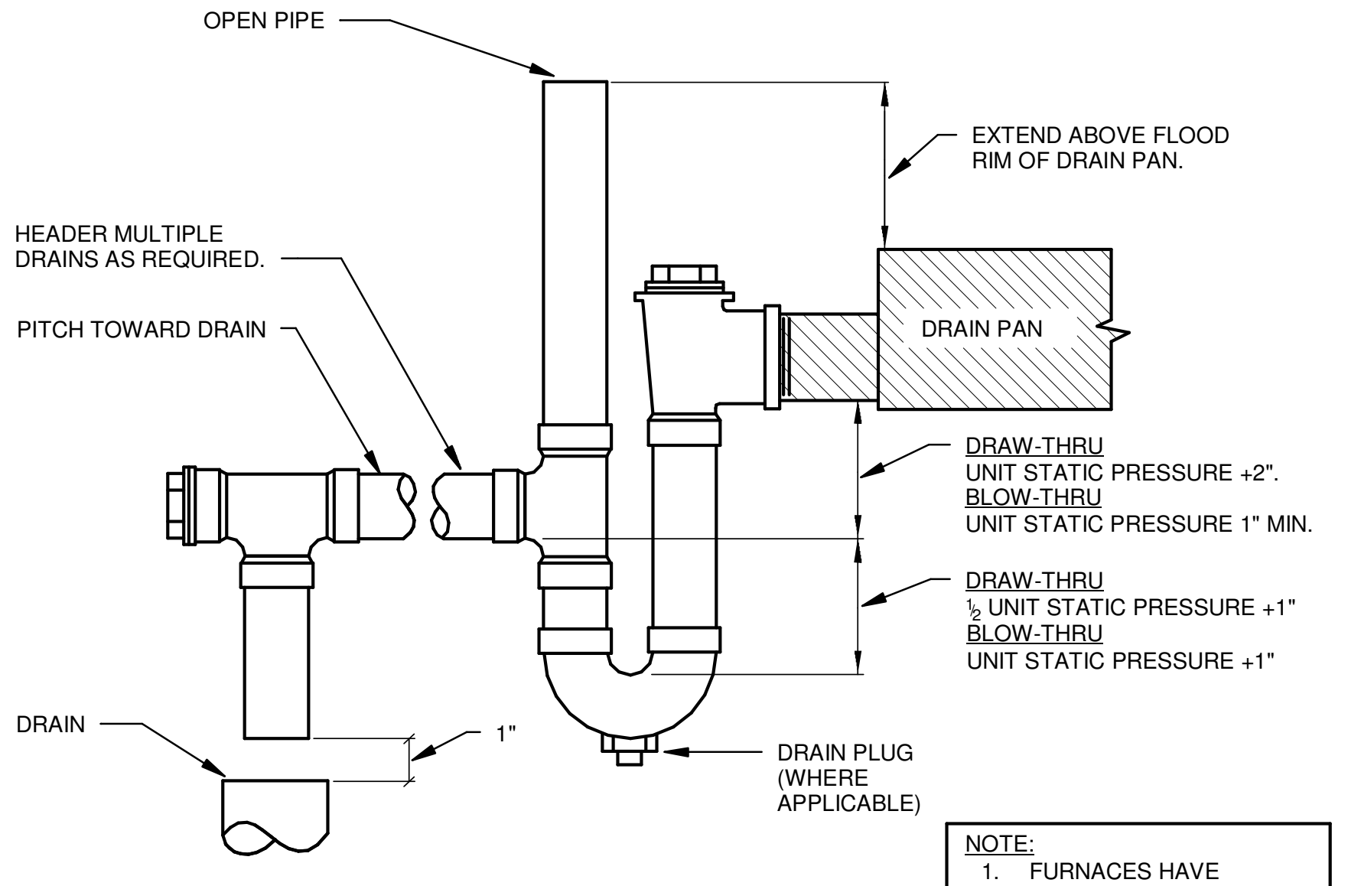

ROUNDED TOP OF CONCRETE
BLACK STEEL PIPE SCHEDULE 40 PAINTED (MATCH COLOR OF EXISTING BOLLARD) - 8" DIAMETER UNLESS OTHERWISE NOTED ON PLANS
2500 PSI CONCRETE
PLACE ADJACENT SURFACE AFTER BOLLARD IS SET
3'-0"
ADJACENT SURFACING THICKNESS
3'-0"
COMPACTED SUBGRADE
6" MIN.
6" MIN.

NOTES:

1. SELECT PIPE DIAMETER AND PAINT COLOR AS CALLED FOR IN PLANS. USE 8" AS MAXIMUM UNLESS EXTREMELY HEAVY LOADINGS ARE ANTICIPATED. USE 4" ONLY WHERE VERY LIGHT LOADS ARE ANTICIPATED.
2. BOLLARDS NOT TO BE USED IN OR NEAR STREET AREAS.

⑤ PIPE BOLLARD DETAIL

N.T.S.

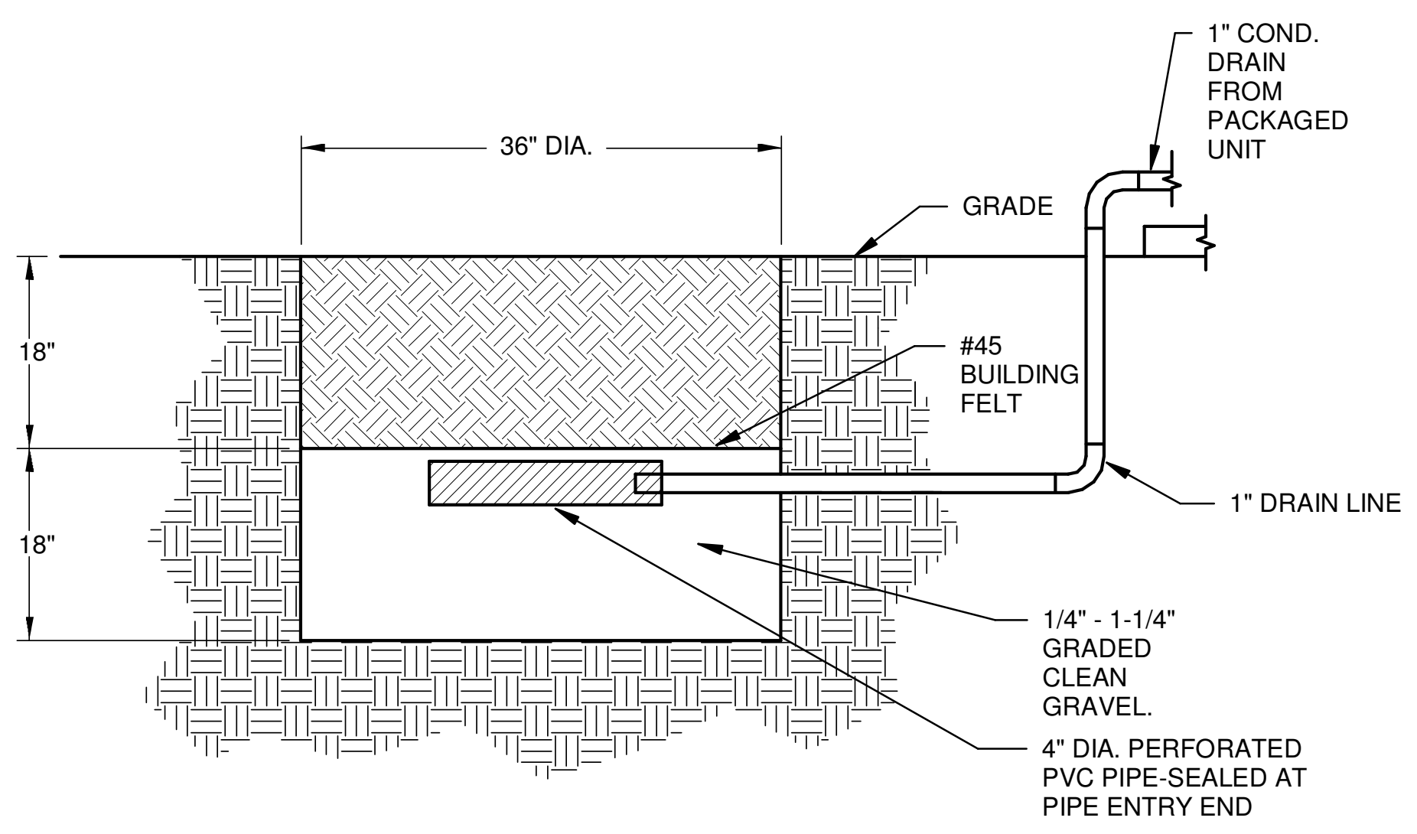

OPEN PIPE
EXTEND ABOVE FLOOD RIM OF DRAIN PAN.
HEADER MULTIPLE DRAINS AS REQUIRED.
PITCH TOWARD DRAIN
DRAIN PAN
DRAW-THRU
UNIT STATIC PRESSURE +2".
BLOW-THRU
UNIT STATIC PRESSURE 1" MIN.
DRAW-THRU
1/2 UNIT STATIC PRESSURE +1"
BLOW-THRU
UNIT STATIC PRESSURE +1"
DRAIN
1"
DRAIN PLUG (WHERE APPLICABLE)

NOTE:

1. FURNACES HAVE BLOW-THRU TYPE COILS.
2. VAU UNITS HAVE DRAW-THRU TYPE COILS.

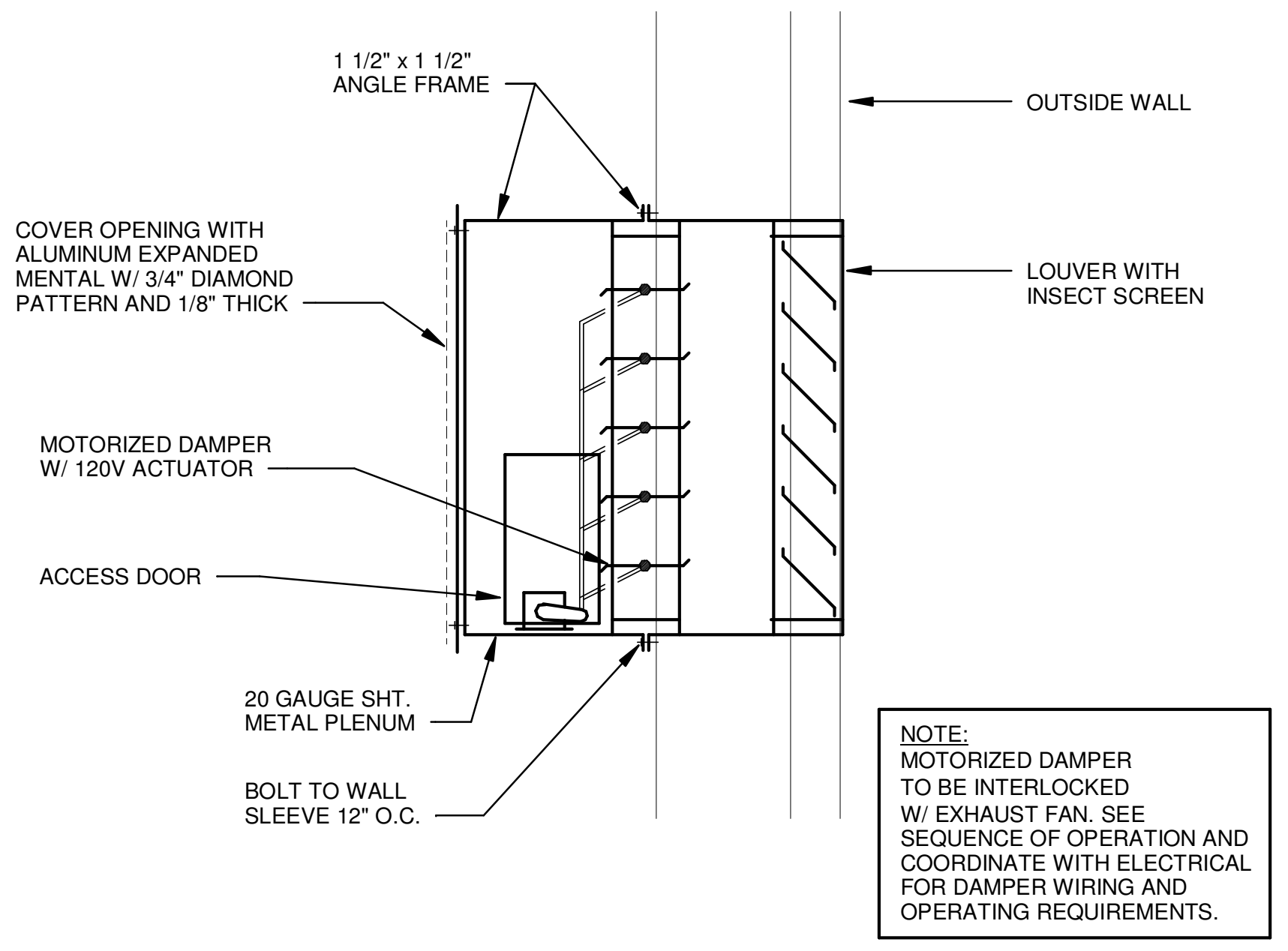
⑥ CONDENSATE TRAP DETAIL

N.T.S.


1" COND. DRAIN FROM PACKAGED UNIT
36" DIA.
GRADE
18"
18"
#45 BUILDING FELT
1" DRAIN LINE
1/4" - 1-1/4" GRADED CLEAN GRAVEL.
4" DIA. PERFORATED PVC PIPE-SEALED AT PIPE ENTRY END

⑦ DRAIN PIT DETAIL

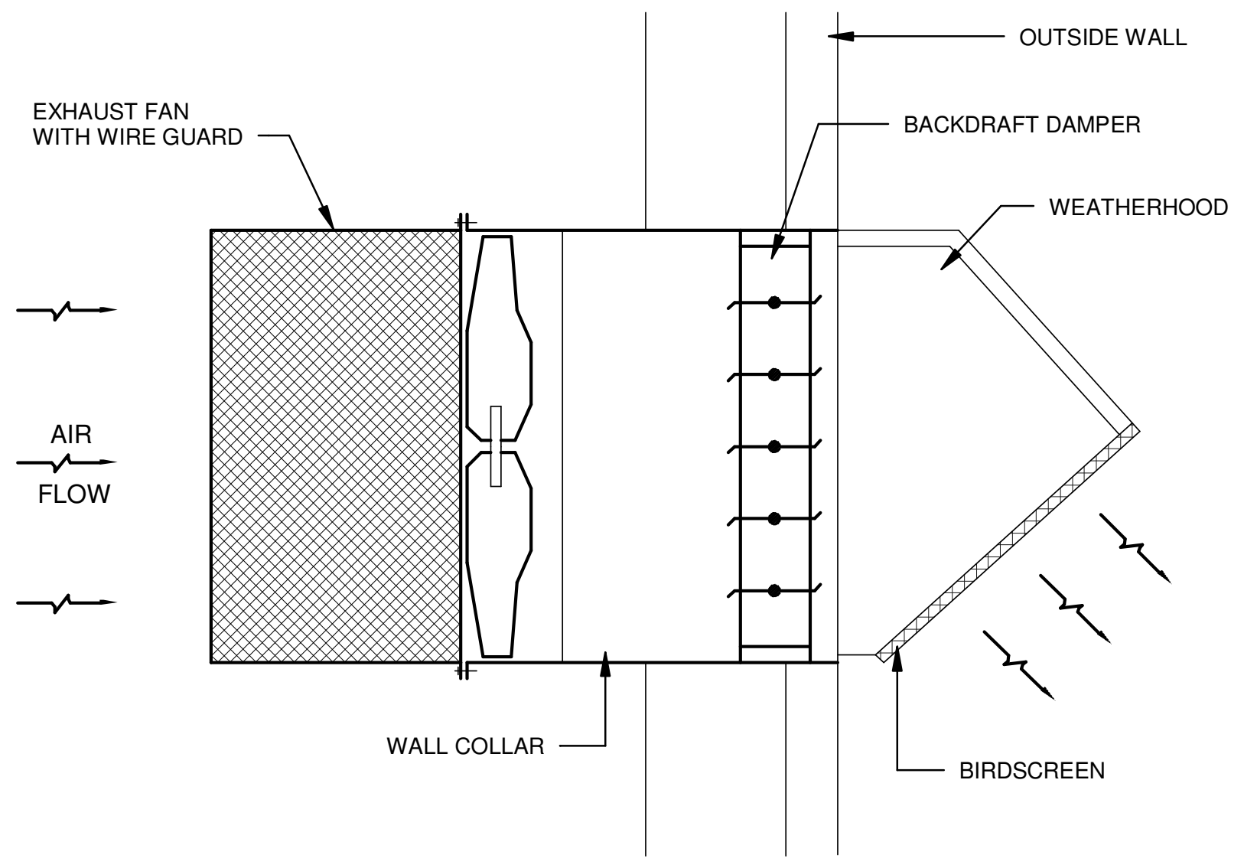
N.T.S.


1 1/2" x 1 1/2" ANGLE FRAME
OUTSIDE WALL
COVER OPENING WITH ALUMINUM EXPANDED MENTAL W/ 3/4" DIAMOND PATTERN AND 1/8" THICK
LOUVER WITH INSECT SCREEN
MOTORIZED DAMPER W/ 120V ACTUATOR
ACCESS DOOR
20 GAUGE SHT. METAL PLENUM
BOLT TO WALL SLEEVE 12" O.C.

NOTE:
MOTORIZED DAMPER TO BE INTERLOCKED W/ EXHAUST FAN. SEE SEQUENCE OF OPERATION AND COORDINATE WITH ELECTRICAL FOR DAMPER WIRING AND OPERATING REQUIREMENTS.

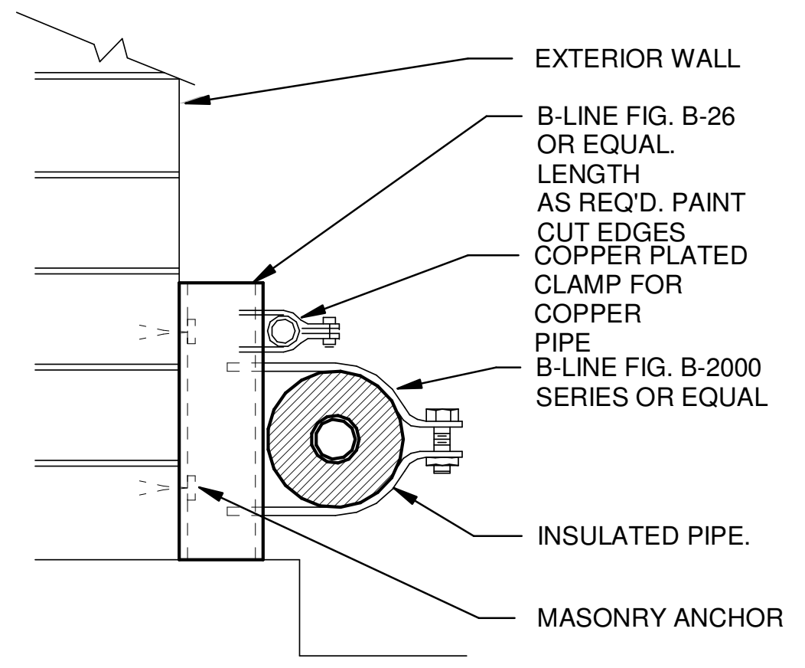
⑧ INTAKE LOUVER DETAIL

N.T.S.



⑨ WALL FAN DETAIL

N.T.S.


EXTERIOR WALL
B-LINE FIG. B-26 OR EQUAL. LENGTH AS REQ'D. PAINT CUT EDGES
COPPER PLATED CLAMP FOR COPPER PIPE
B-LINE FIG. B-2000 SERIES OR EQUAL
INSULATED PIPE.
MASONRY ANCHOR

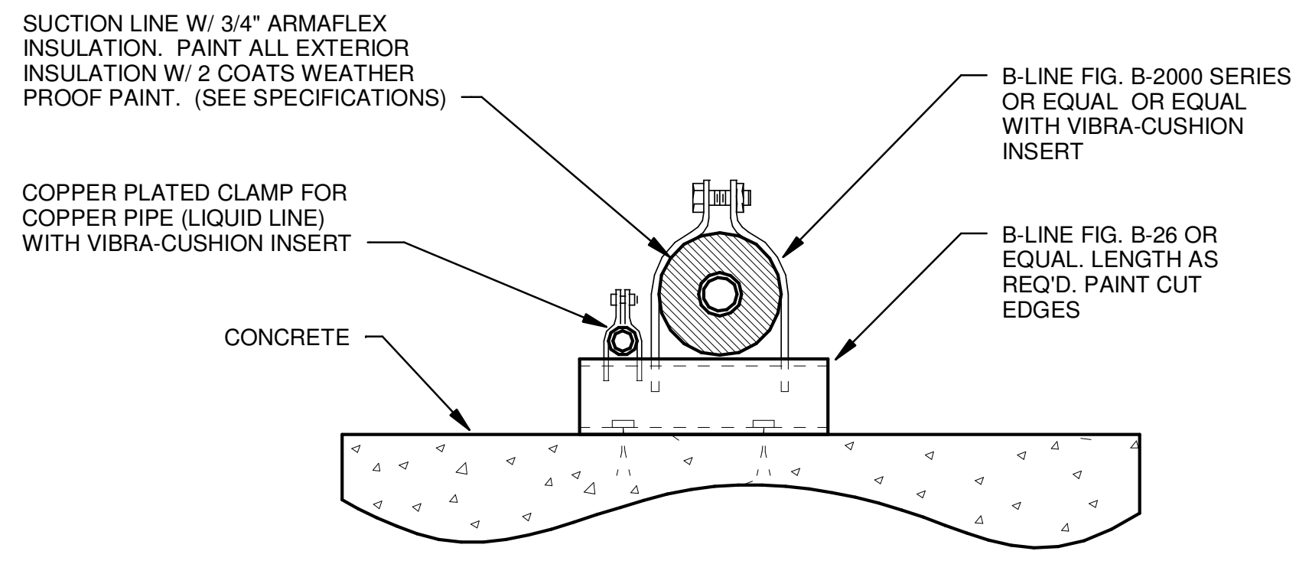
NOTES:

1. INSULATION TO BE UN-SLIT AND MUST BE CONTINUOUS OVER ALL SUCTION PIPING.
2. PAINT INSULATION PER SPECIFICATIONS

⑩ REFRIGERANT PIPE SUPPORT DETAIL

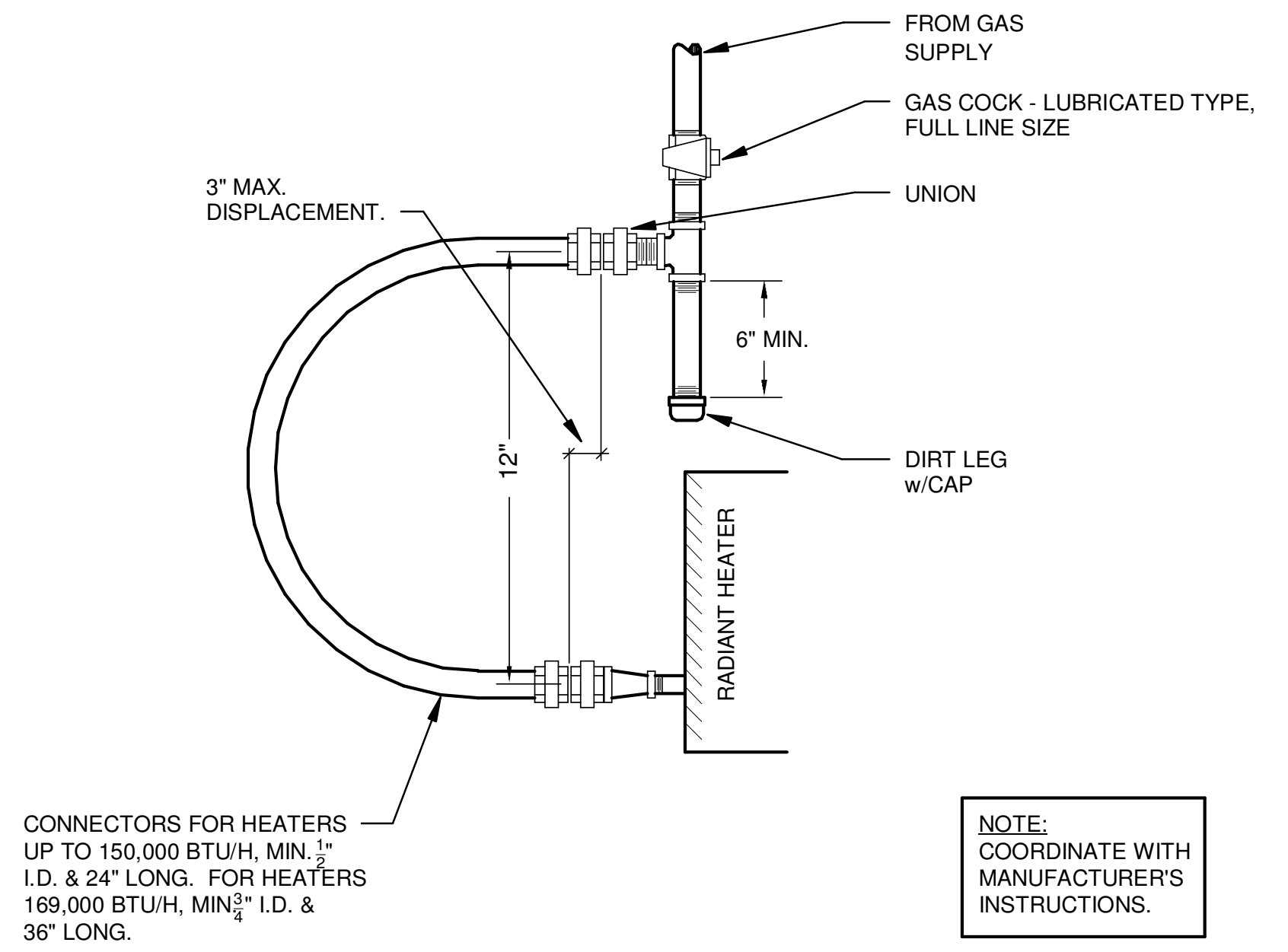
N.T.S.

NOTE:
TYPICAL FOR VERT. WALL SUPPORT AT PIPING CHASES.


SUCTION LINE W/ 3/4" ARMAFLEX INSULATION. PAINT ALL EXTERIOR INSULATION W/ 2 COATS WEATHER PROOF PAINT. (SEE SPECIFICATIONS)
B-LINE FIG. B-2000 SERIES OR EQUAL OR EQUAL WITH VIBRA-CUSHION INSERT
COPPER PLATED CLAMP FOR COPPER PIPE (LIQUID LINE) WITH VIBRA-CUSHION INSERT
B-LINE FIG. B-26 OR EQUAL. LENGTH AS REQ'D. PAINT CUT EDGES
CONCRETE

⑪ REFRIGERANT PIPE SUPPORT DETAIL

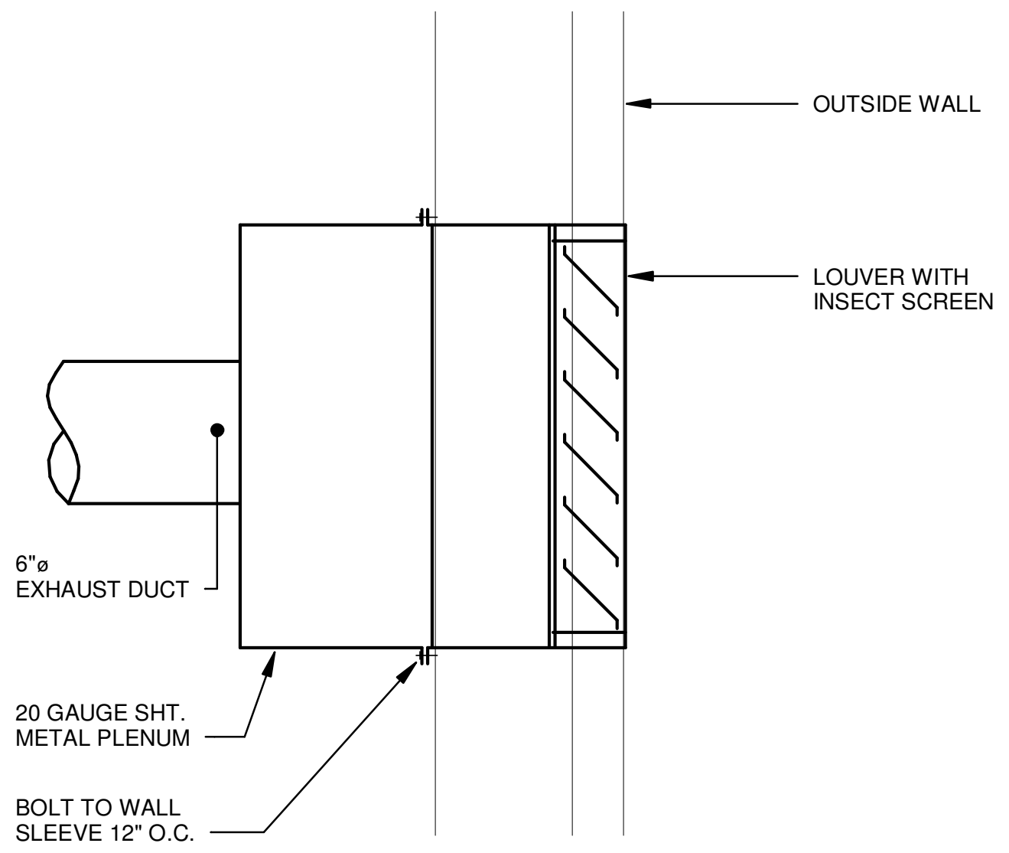
N.T.S.


FROM GAS SUPPLY
GAS COCK - LUBRICATED TYPE, FULL LINE SIZE
3" MAX. DISPLACEMENT.
UNION
6" MIN.
12"
DIRT LEG w/CAP
RADIANT HEATER
CONNECTORS FOR HEATERS UP TO 150,000 BTU/H, MIN. 1/2" I.D. & 24" LONG. FOR HEATERS 169,000 BTU/H, MIN 3/4" I.D. & 36" LONG.

NOTE:
COORDINATE WITH MANUFACTURER'S INSTRUCTIONS.

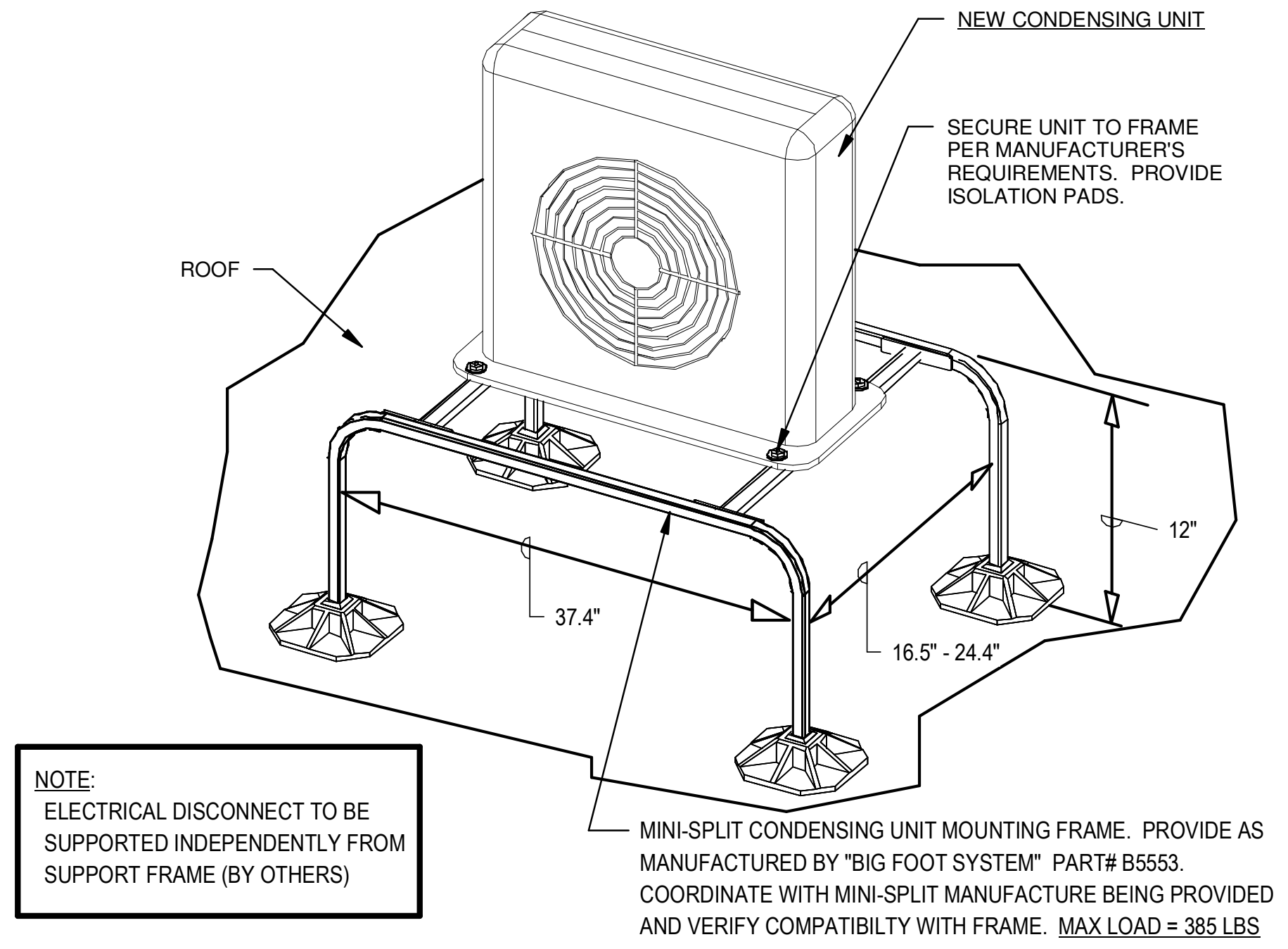
⑫ RADIANT HEATER GAS CONNECTION

N.T.S.


OUTSIDE WALL
LOUVER WITH INSECT SCREEN
6"ø EXHAUST DUCT
20 GAUGE SHT. METAL PLENUM
BOLT TO WALL SLEEVE 12" O.C.

⑬ EXHAUST LOUVER DETAIL

N.T.S.


NEW CONDENSING UNIT
SECURE UNIT TO FRAME PER MANUFACTURER'S REQUIREMENTS. PROVIDE ISOLATION PADS.
ROOF
12"
37.4"
16.5" - 24.4"
MINI-SPLIT CONDENSING UNIT MOUNTING FRAME. PROVIDE AS MANUFACTURED BY "BIG FOOT SYSTEM" PART# B5553. COORDINATE WITH MINI-SPLIT MANUFACTURE BEING PROVIDED AND VERIFY COMPATIBILTY WITH FRAME. MAX LOAD = 385 LBS

NOTE:
ELECTRICAL DISCONNECT TO BE SUPPORTED INDEPENDENTLY FROM SUPPORT FRAME (BY OTHERS)

⑭ MINI-SPLIT CONDENSING UNIT ROOF SUPPORT DETAIL

N.T.S.

STAMPS

MARCUS D. CATHEY
No.11043
7/29/22

PETTIT & PETTIT CONSULTING ENGINEERS, INC.
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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
HVAC DETAILS

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: AK
Checked By: MDC

DATE: JULY 29, 2022

M3.02

7/29/2022 4:48:56 PM

PACKAGE UNIT SCHEDULE

DESIG.	MFR/MDL	SERVES	CFM	OSA	ESP/TSP	COOLING					HEATING				HGRH CAPACITY	UNIT MOTOR DATA						ELECTRICAL DATA			REMARKS
						TOTAL	SENS	COIL EAT	COIL LAT	AMBIENT	FUEL	INPUT	OUTPUT	EAT/LAT		COMPRESSOR		COND. FAN		SUPPLY		V/P	MCA	MOCP	
																RLA	NO	FLA	NO	HP	NO				
A/C - 1	GREENHECK / RV-25-12.5I-G-A1	MAINTENANCE (REST ROOM & BREAK ROOM)	2,500	700	0.5"/1.5"	147	79	83.0° d.b. 72.0° w.b.	54.4° d.b. 54.4° w.b.	98°F d.b. 77°F d.b.	NATURAL GAS	200 MBH	160 MBH	4.0°/115.3°	60.2 MBH ---- 76.7° LAT	15.7	1	--	--	1.5	1	460 / 3ø	25.7	40.0	UNIT PROVIDED W/ 30" CURB WITH HORIZONTAL S.A. / R.A. DUCT CONNECTION, FACTORY CONTROLS, HINGED ACCESS PANELS, MODULATING HOT GAS RE-HEAT, 100% COMPARATIVE ENTHALPY ECONOMIZER, STAINLESS STEEL H.X., S.S. CONDENSATE PAN W/ OVERFLOW SWITCH, UNIT DISCONNECT, 2" FILTERS MERV 13 W/ 2 SETS OF SPARES, ROOM T-STAT / HUMIDITY, HAIL GUARDS, BAROMETRIC RELIEF DAMPER, & DEHUMIDIFICATION CONTROLS. VARIABLE CAPACITY COMPRESSOR. (SEE SPECIFICATIONS)

GAS FIRED FURNACE SCHEDULE

DESIG.	MFR/MDL	TYPE	CFM	OSA	ESP	FAN DIA.xWID.	DRIVE	HP	HEATING SECTION						EVAPORATOR					ELECTRICAL DATA			REMARKS
									INPUT MBH	OUTPUT MBH	FUEL	EAT	LAT	AFUE	TOTAL MBH	SENS. MBH	EAT	LAT	MODEL	MCA	MOCP	VOLT/PHASE	
F-1	FRASER-JOHNSTON / TM9E080C20MP12	VERTICAL UPFLOW FURNACE	1,300	110	0.68	--"x--"	DIRECT	1.0	80	76	NAT. GAS	68.0°	122.1°	95.0	44.0	26.2	78.0/67.0	57.3/56.3	XAFC48FXXN1	14.5	20	115V / 1ø	PROVIDE CONCENTRIC FLUE/VENT, RETURN FILTER RACK, & INTERGRATE W/ CONTRACTOR SUPPLIED 24 VOLT O.S.A. DAMPER. (SEE PLANS)
F-2/A	FRASER-JOHNSTON / TM9E080C16MP12	VERTICAL UPFLOW FURNACE	1,250	110	0.41	--"x--"	DIRECT	0.75	80	76	NAT. GAS	68.0°	124.3°	95.0	39.9	24.2	78.0/67.0	56.5/55.5	XAFC42EXXN1	12.0	15	115V / 1ø	PROVIDE CONCENTRIC FLUE/VENT, TWINNING KIT, BOTTOM RETURN FILTER RACK, & INTERGRATE W. CONTRACTOR SUPPLIED 24 VOLT O.S.A. DAMPER. (SEE PLANS).
F-2/B	FRASER-JOHNSTON / TM9E080C16MP12	VERTICAL UPFLOW FURNACE	1,250	110	0.41	--"x--"	DIRECT	0.75	80	76	NAT. GAS	68.0°	124.3°	95.0	39.9	24.2	78.0/67.0	56.5/55.5	XAFC42EXXN1	12.0	15	115V / 1ø	PROVIDE CONCENTRIC FLUE/VENT, TWINNING KIT, BOTTOM RETURN FILTER RACK, & INTERGRATE W/ CONTRACTOR SUPPLIED 24 VOLT O.S.A. DAMPER. (SEE PLANS)
F-3	FRASER-JOHNSTON / TM9E080C20MP12	VERTICAL UPFLOW FURNACE	1,525	150	0.48	--"x--"	DIRECT	1.0	80	76	NAT. GAS	68.0°	114.1°	95.0	56.1	35.2	78.0/67.0	56.2/55.2	XAFC60HXXN1	14.5	20	115V / 1ø	PROVIDE CONCENTRIC FLUE/VENT, RETURN FILTER RACK, & INTERGRATE W/ CONTRACTOR SUPPLIED 24 VOLT O.S.A. DAMPER. (SEE PLANS)
F-4	FRASER-JOHNSTON / TM9E026A08MP12	HORIZONTAL FURNACE	500	30	0.51	--"x--"	DIRECT	0.33	26	25	NAT. GAS	68.0°	114.3°	95.0	17.5	9.6	75.0/67.0	57.3/55.8	XAHA24BXXN1	8.4	15	115V / 1ø	PROVIDE CONCENTRIC FLUE/VENT, RETURN FILTER RACK, & INTERGRATE W/ CONTRACTOR SUPPLIED 24 VOLT O.S.A. DAMPER. (SEE PLANS)

CONDENSING UNIT SCHEDULE

DESIG.	MFR/MDL	SERVES	TOTAL MBH	SENS. MBH	AMBIENT TEMP.	REFRIG. CIRCUITS	COMPRESSOR DATA			FAN DATA			ELECTRICAL DATA			SEER (EER)	REMARKS
							NO	RLA(EACH)	STEPS	NO	RLA(EACH)	HP	MCA	MOCP	VOLT/PH		
CU-1	FRASER JOHNSTON / TC7B4821S	F-1	44.0 NET	26.2 NET	95°F	1	1	18.5	1	1	2.8	1/3	25.9	40	208/230 V / 1ø	15.5 12.75	PROVIDE REFRIGERANT LINE SETS SIZED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND TXV VALVE.
CU-2/A	FRASER JOHNSTON / TC7B4221S	F-2/A	39.9 NET	24.2 NET	95°F	1	1	16.6	1	1	2.8	1/3	23.6	40	208/230 V / 1ø	15.5 12.75	PROVIDE REFRIGERANT LINE SETS SIZED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND TXV VALVE.
CU-2/B	FRASER JOHNSTON / TC7B4221S	F-2/B	39.9 NET	24.2 NET	95°F	1	1	16.6	1	1	2.8	1/3	23.6	40	208/230 V / 1ø	15.5 12.75	PROVIDE REFRIGERANT LINE SETS SIZED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND TXV VALVE.
CU-3	FRASER JOHNSTON / TC7B6021S	F-3	56.1 NET	35.2 NET	95°F	1	1	23.7	1	1	2.8	1/3	32.4	50	208/230 V / 1ø	14.75 12.25	PROVIDE REFRIGERANT LINE SETS SIZED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND TXV VALVE.
CU-4	FRASER JOHNSTON / TC7B1821S	F-4	17.5 NET	9.6 NET	95°F	1	1	9.0	1	1	2.8	1/3	14	20	208/230 V / 1ø	17.5 12.25	PROVIDE REFRIGERANT LINE SETS SIZED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND TXV VALVE.

MINI-SPLIT INDOOR HEAT PUMP UNIT SCHEDULE

DESIG.	MFR/MDL	TYPE	LOCATION	CFM (WET)	OSA	ESP	DIMENSIONS (L x W x D)	WEIGHT	COOLING				HEATING				REFRIGERANT PIPE SIZE		ELECTRICAL DATA			REMARKS
									CAPACITY	INDOOR	OUTDOOR	SEER	CAPACITY	INDOOR	OUTDOOR	HSPF	GAS	LIQUID	MCA	MOCP	VOLT/PHASE	
MS-1	LG / LSN243HLV3	WALL MOUNTED	o111 - SERVER / SAFE ROOM	813 - HIGH 601 - MID 495 - MID 389 - LOW	--	0"	41 3/4" x 10 1/2" x 14 3/4"	37 LBS.	30.0 MBH	80° d.b. 67° w.b.	95° d.b. 75° w.b.	21.5	36.2 MBH	70° d.b. 60° w.b.	47° d.b. 43° w.b.	93.6%	5/8"	3/8"	2.0	---	208v / 230v, 1 ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH. UNIT POWERED FROM OUTDOOR UNIT.
MS-2	LG / LSN243HLV3	WALL MOUNTED	m104 - DATA	813 - HIGH 601 - MID 495 - MID 389 - LOW	--	0"	41 3/4" x 10 1/2" x 14 3/4"	37 LBS.	30.0 MBH	80° d.b. 67° w.b.	95° d.b. 75° w.b.	21.5	36.2 MBH	70° d.b. 60° w.b.	47° d.b. 43° w.b.	93.6%	5/8"	3/8"	2.0	---	208v / 230v, 1 ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH. UNIT POWERED FROM OUTDOOR UNIT.

MINI-SPLIT CONDENSING UNIT SCHEDULE

DESIG.	MFR/MDL	TYPE	SERVES	DIMENSIONS (L x W x H)	WEIGHT	COOLING			HEATING			FAN DATA			COMPRESSOR DATA			ELECTRICAL DATA			REMARKS
						CAPACITY	INDOOR	OUTDOOR	CAPACITY	INDOOR	OUTDOOR	TYPE / QUANTITY	CFM	FLA	TYPE	RANGE	HEATER KW	MCA	MOCP	VOLT/PHASE	
MSCU-1	LG / LSU243HLV3	AIR COOLED	MS-1	38" x 15 3/4" x 32 3/4"	136 LBS.	30.0 MBH	80° d.b. 67° w.b.	95° d.b. 75° w.b.	36.2 MBH	70° d.b. 60° w.b.	47° d.b. 43° w.b.	PROP / 1	2,119	0.4	INVERTER	35-100%	--	19	30	208v / 230v, 1ø	0-115 DEGREE OPERATING RANGE
MSCU-2	LG / LSU243HLV3	AIR COOLED	MS-2	38" x 15 3/4" x 32 3/4"	136 LBS.	30.0 MBH	80° d.b. 67° w.b.	95° d.b. 75° w.b.	36.2 MBH	70° d.b. 60° w.b.	47° d.b. 43° w.b.	PROP / 1	2,119	0.4	INVERTER	35-100%	--	19	30	208v / 230v, 1ø	0-115 DEGREE OPERATING RANGE

HIGH VOLUME LOW SPEED FAN SCHEDULE

DESIG.	MFR/MDL	SERVES	LOCAT.	TYPE	FAN DATA							MOTOR DATA				REMARKS
					CFM	AREA	RPM	DRIVE	TYPE	DIA.	dBA	RPM	FLA	WATTS	VOLT/PH	
HVLS-1	GREENHECK / DS-6-16-70HV	m100 - VEHICLE MAINT. BAYS	BAYS 1-3	HVLS	91,644	7,200 SF	70	DIRECT	6 BLADED AIRFOIL IMPELLER	192"	44	81	2.5	493	460 / 3ø	PROVIDE EACH UNIT WITH MOTOR / HUB ASSEMBLY, FACTORY INSTALLED VFD, HUB PLATE (AND HARDWARE KIT), DOWN-TUBE AND MOUNT ASSEMBLY (FIELD COORDINATE FINAL LENGTH REQUIRED), UNIVERSAL MOUNTING BRACKET HARDWARE, UNIVERSAL MOUNTING HARDWARE KIT, GUY WIRE ATTACHMENT RING, LED LIGHT ASSEMBLY KIT, FACTORY SAFETY RETENTION GUY WIRE (AND ASSOCIATED ACCESSORIES), AIRFOIL BLADES, WINGLETS, BLADE HARDWARE KIT, FIRE SUPPRESSION SYSTEM RELAY, POWER CABLE, COMMUNICATIONS CABLE, AND FIRE ALARM CABLE. PROVIDE WITH RECESSED STANDARD WALL-MOUNTED PLUG-AND-PLAY (THREE FAN) TOUCHSCREEN CONTROLLER (WITH MOUNTING KIT AND COVER PLATE). COORDINATE WITH FIRE ALARM SYSTEM INSTALLER FOR FINAL CONNECTION. INCLUDE LED LIGHT KIT. FINAL COLOR SELECTION TO BE PER ARCHITECT.
HVLS-2	GREENHECK / DS-6-16-70HV	m100 - VEHICLE MAINT. BAYS	BAYS 4-6	HVLS	91,644	7,200 SF	70	DIRECT	6 BLADED AIRFOIL IMPELLER	192"	44	81	2.5	493	460 / 3ø	PROVIDE EACH UNIT WITH MOTOR / HUB ASSEMBLY, FACTORY INSTALLED VFD, HUB PLATE (AND HARDWARE KIT), DOWN-TUBE AND MOUNT ASSEMBLY (FIELD COORDINATE FINAL LENGTH REQUIRED), UNIVERSAL MOUNTING BRACKET HARDWARE, UNIVERSAL MOUNTING HARDWARE KIT, GUY WIRE ATTACHMENT RING, LED LIGHT ASSEMBLY KIT, FACTORY SAFETY RETENTION GUY WIRE (AND ASSOCIATED ACCESSORIES), AIRFOIL BLADES, WINGLETS, BLADE HARDWARE KIT, FIRE SUPPRESSION SYSTEM RELAY, POWER CABLE, COMMUNICATIONS CABLE, AND FIRE ALARM CABLE. PROVIDE WITH RECESSED STANDARD WALL-MOUNTED PLUG-AND-PLAY (THREE FAN) TOUCHSCREEN CONTROLLER (WITH MOUNTING KIT AND COVER PLATE). COORDINATE WITH FIRE ALARM SYSTEM INSTALLER FOR FINAL CONNECTION. INCLUDE LED LIGHT KIT. FINAL COLOR SELECTION TO BE PER ARCHITECT.
HVLS-3	GREENHECK / DS-6-14-70HV	v100 - SMALL ENGINE SHOP / STORAGE	- - -	HVLS	60,545	4,800 SF	67	DIRECT	6 BLADED AIRFOIL IMPELLER	168"	40	97	2.5	259	460 / 3ø	PROVIDE EACH UNIT WITH MOTOR / HUB ASSEMBLY, FACTORY INSTALLED VFD, HUB PLATE (AND HARDWARE KIT), DOWN-TUBE AND MOUNT ASSEMBLY (FIELD COORDINATE FINAL LENGTH REQUIRED), UNIVERSAL MOUNTING BRACKET HARDWARE, UNIVERSAL MOUNTING HARDWARE KIT, GUY WIRE ATTACHMENT RING, LED LIGHT ASSEMBLY KIT, FACTORY SAFETY RETENTION GUY WIRE (AND ASSOCIATED ACCESSORIES), AIRFOIL BLADES, WINGLETS, BLADE HARDWARE KIT, FIRE SUPPRESSION SYSTEM RELAY, POWER CABLE, COMMUNICATIONS CABLE, AND FIRE ALARM CABLE. PROVIDE WITH RECESSED STANDARD WALL-MOUNTED PLUG-AND-PLAY (THREE FAN) TOUCHSCREEN CONTROLLER (WITH MOUNTING KIT AND COVER PLATE). COORDINATE WITH FIRE ALARM SYSTEM INSTALLER FOR FINAL CONNECTION. INCLUDE LED LIGHT KIT. FINAL COLOR SELECTION TO BE PER ARCHITECT.

EXHAUST FAN SCHEDULE

DESIG.	MFR/MDL	SERVES	LOCAT.	TYPE	FAN DATA							MOTOR DATA				REMARKS
					CFM	S.P.	RPM	DRIVE	TYPE	DIA.	SONES	RPM	BHP	HP	VOLT/PH	
EF-1	GREENHECK / SP SP-A200L	o108 - WOMEN'S RR	CEILING SUSPENDED	CEILING	150	0.35"	900	DIRECT	--	--	3.5	1,100	--	51W	120 / 1Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, AND DISCONNECT SWITCH.
EF-2	GREENHECK / SP SP-A200L	o121 - MEN'S RR	CEILING SUSPENDED	CEILING	150	0.35"	900	DIRECT	--	--	3.5	1,100	--	51W	120 / 1Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, AND DISCONNECT SWITCH.
EF-3	GREENHECK / CSP CSP-A710	m110 - MEN'S RR	CEILING SUSPENDED	INLINE	400	0.375"	928	DIRECT	--	--	0.6	1,100	--	173W	120 / 1Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, AND DISCONNECT SWITCH.
EF-4	GREENHECK / CSP CSP-A510	m106 - WOMEN'S RR	CEILING SUSPENDED	INLINE	250	0.375"	907	DIRECT	--	--	0.9	1,100	--	107W	120 / 1Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, AND DISCONNECT SWITCH.
EF-5	GREENHECK / SBE-1H20-3	m100 - VEHICLE BAY (1)	SIDEWALL	PROP	2,200	.266"	938	DIRECT	--	20"	15.7	1,725	0.24	1/3	460 / 3Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, WALL COLLAR, OSHA SIDE GUARD, OUTDOOR WEATHER HOOD AND DISCONNECT SWITCH. INTERLOCK FAN WITH INTAKE LOUVER L-5.
EF-6	GREENHECK / SBE-1H20-3	m100 - VEHICLE BAY (2)	SIDEWALL	PROP	2,200	.266"	938	DIRECT	--	20"	15.7	1,725	0.24	1/3	460 / 3Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, WALL COLLAR, OSHA MOTOR SIDE GUARD, OUTDOOR WEATHER HOOD AND DISCONNECT SWITCH. INTERLOCK FAN WITH INTAKE LOUVER L-6.
EF-7	GREENHECK / SBE-1H20-3	m100 - VEHICLE BAY (3)	SIDEWALL	PROP	2,200	.266"	938	DIRECT	--	20"	15.7	1,725	0.24	1/3	460 / 3Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, WALL COLLAR, OSHA MOTOR SIDE GUARD, OUTDOOR WEATHER HOOD AND DISCONNECT SWITCH. INTERLOCK FAN WITH INTAKE LOUVER L-7.
EF-8	GREENHECK / SBE-1H20-3	m100 - VEHICLE BAY (4)	SIDEWALL	PROP	2,200	.266"	938	DIRECT	--	20"	15.7	1,725	0.24	1/3	460 / 3Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, WALL COLLAR, OSHA MOTOR SIDE GUARD, OUTDOOR WEATHER HOOD AND DISCONNECT SWITCH. INTERLOCK FAN WITH INTAKE LOUVER L-8.
EF-9	GREENHECK / SBE-1H20-3	m100 - VEHICLE BAY (5)	SIDEWALL	PROP	2,200	.266"	938	DIRECT	--	20"	15.7	1,725	0.24	1/3	460 / 3Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, WALL COLLAR, OSHA MOTOR SIDE GUARD, OUTDOOR WEATHER HOOD AND DISCONNECT SWITCH. INTERLOCK FAN WITH INTAKE LOUVER L-9.
EF-10	GREENHECK / SBE-1H20-3	m100 - VEHICLE BAY (6)	SIDEWALL	PROP	2,200	.266"	938	DIRECT	--	20"	15.7	1,725	0.24	1/3	460 / 3Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, WALL COLLAR, OSHA MOTOR SIDE GUARD, OUTDOOR WEATHER HOOD AND DISCONNECT SWITCH. INTERLOCK FAN WITH INTAKE LOUVER L-10.
EF-11	GREENHECK / SBE-2L20-5	v100 - SMALL ENGINE BAY	SIDEWALL	PROP	3,600	0.181"	922	DIRECT	--	20"	15.0	1,725	0.4	1/2	460 / 3Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, WALL COLLAR, OSHA MOTOR SIDE GUARD, OUTDOOR WEATHER HOOD AND DISCONNECT SWITCH. INTERLOCK FAN WITH INTAKE LOUVER L-11.
EF-12	GREENHECK / SBE-1H20-3	v105 - WASH BAY	SIDEWALL	PROP	750	0.209"	689	DIRECT	--	20"	9.4	1,725	0.12	1/3	460 / 3Ø	PROVIDE BACKDRAFT DAMPER, FAN SPEED CONTROLLER, BIRD SCREEN, WALL COLLAR, OSHA MOTOR SIDE GUARD, OUTDOOR WEATHER HOOD AND DISCONNECT SWITCH. INTERLOCK FAN WITH INTAKE LOUVER L-12.

DUCTWORK LEGEND

⊠	CEILING DIFFUSER (CD)
◿	RETURN AIR GRILLE (RA)
⊠	EXHAUST REGISTER (ER)
624 CD-1 100 CFM	SIZE - DESIGNATION CUBIC FEET PER MINUTE
	FLEXIBLE DUCT CONNECTOR
	TURNING VANES
	SPLITTER DAMPER (TEE)
▨	INTERNALLY INSULATED DUCT
	EXTRACTOR
M.D.	MANUAL DAMPER
F.D.	FIRE DAMPER AND ACCESS DOOR (SMOKE DAMPER S.D. SIMILAR)
—D—	CONDENSATE DRAIN PIPING
—RS/RL—	REFRIGERANT SUCTION AND LIQUID PIPES
Ø	DIAMETER
(T)5	THERMOSTAT (WITH UNIT NUMBER)
1 / M-1 DETAIL 2 / M-2 SECTION	TOP NUMBER REFERS TO THE DETAIL NUMBER. BOTTOM NUMBER REFERS TO THE SHEET WHERE DETAIL IS SHOWN

HVAC GENERAL NOTES

1. DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
2. ROUND BRANCH DUCT RUNOUTS SHALL BE SAME SIZE AS DIFFUSER THROAT UNLESS OTHERWISE NOTED.
3. FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTIONS TO DIFFUSERS. A MAXIMUM LENGTH OF THREE FEET (3') SHALL BE USED. A HARD 90° ELBOW MUST BE USED WHERE DUCT TURNS DOWN ABOVE DIFFUSER.
4. ALL CEILING-MOUNTED SUPPLY DIFFUSERS SHALL HAVE FOUR-WAY (4-WAY) PATTERN UNLESS OTHERWISE INDICATED.
5. WHERE MANUAL DAMPERS ARE INSTALLED IN EXTERNALLY INSULATED DUCTWORK, PROVIDE STAND-OFF BRACKET TO PREVENT COMPRESSION OF INSULATION BY DAMPER OPERATOR HANDLE.
6. PROVIDE TURNING VANES IN ALL 90-DEGREE MITERED ELBOWS.
7. PROVIDE SLEEVES THROUGH WALLS AND FLOORS. SEAL EXCESS OPENING WITH WATER-PROOF SEALANT. COORDINATE LOCATIONS AND SIZES OF SLEEVES WITH GENERAL CONTRACTOR. SLEEVES SHALL PROVIDE A MAXIMUM OF 1" CLEARANCE BETWEEN DUCT OR PIPE AND SLEEVE. SEAL PENETRATION IN FIRE/SMOKE RATED WALLS AND FLOOR WITH AN APPROVED FIRE/SMOKE BLOCK SEALANT.
8. EXTERNALLY INSULATE SUPPLY, RETURN, RELIEF, AND OUTSIDE AIR DUCTWORK UNLESS NOTED OTHERWISE.
9. EXHAUST DUCTWORK SHALL BE UN-INSULATED, UNLESS NOTED OTHERWISE
10. EXTERNALLY INSULATE LOW-VELOCITY ROUND RUNOUT DUCTWORK
11. DUAL WALL DUCTWORK SHALL BE 1" THICK WITH INSULATION BETWEEN WALLS.
12. INSULATE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH A MINIMUM OF 1/2" THICK FIBERGLASS DUCT WRAP.
13. RUN COOLING COIL CONDENSATE DRAINS FULL SIZE TO NEAREST FLOOR OR ROOF DRAIN.
14. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE AND SMOKE RATED PARTITIONS.
15. COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBERS. OFFSET DUCTS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS.
16. COORDINATE LOCATIONS AND ELEVATION OF DUCT RUNS WITH PLUMBING, SPRINKLER, AND ELECTRICAL CONTRACTORS.
17. COORDINATE MAKE-UP WATER AND GAS REQUIREMENTS WITH PLUMBING CONTRACTOR.
18. PROVIDE ACCESS DOORS FOR ALL FIRE DAMPERS. PROVIDE CEILING ACCESS DOORS FOR DAMPERS ABOVE GYPSUM BOARD CEILINGS.
19. PAINT DUCTWORK BLACK THAT MAY BE VISIBLE ABOVE PARTIAL CEILINGS. COORDINATE PAINTING OF DUCTWORK WITH ARCHITECT.
20. COORDINATE CEILING DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

STAMPS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.11043
MARCUS D. CATHEY

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
HVAC SCHEDULES

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: AK Checked By: MDC
DATE: JULY 29, 2022

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LOUVER SCHEDULE

DESIG.	MFR./MDL.	TYPE	SERVES	CFM	S.P.	SIZE	VELOCITY FPM	FINISH	REMARKS
L-1	GREENHECK / EVH-501	FIXED DRAINABLE	FURNACE O.S.A. INTAKE (F-1, 2/A, 2/B, & 3)	540	0.022	28" x 20"	360	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN. COLOR BY ARCHITECT.
L-2	GREENHECK / EVH-501	FIXED DRAINABLE	o108 - WOMEN'S BATHROOM EXHAUST FOR EF-1	150	0.020	18" x 12"	347	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN. COLOR BY ARCHITECT.
L-3	GREENHECK / EVH-501	FIXED DRAINABLE	o121 - MEN'S BATHROOM EXHAUST FOR EF-2	150	0.020	18" x 12"	347	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN. COLOR BY ARCHITECT.
L-4	GREENHECK / EVH-501	FIXED DRAINABLE	m106 - WOMEN'S BATHROOM EXHAUST FOR EF-4	250	0.020	26" x 16"	302	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN. COLOR BY ARCHITECT.
L-5	GREENHECK / EACA-601	COMBO LOUVER / DAMPER DRAINABLE	m100 VEHICLE BAY (BAY - 1) INTAKE FOR EXHAUST FAN EF-5	2,200	0.016	40" x 48"	361	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN, INTERGAL DAMPER AND ACTUATOR. INTERLOCK LOUVER WITH EXHAUST FAN (EF-5) COLOR BY ARCHITECT.
L-6	GREENHECK / EACA-601	COMBO LOUVER / DAMPER DRAINABLE	m100 VEHICLE BAY (BAY - 2) INTAKE FOR EXHAUST FAN EF-6	2,200	0.016	40" x 48"	361	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN, INTERGAL DAMPER AND ACTUATOR. INTERLOCK LOUVER WITH EXHAUST FAN (EF-6) COLOR BY ARCHITECT.
L-7	GREENHECK / EACA-601	COMBO LOUVER / DAMPER DRAINABLE	m100 VEHICLE BAY (BAY - 3) INTAKE FOR EXHAUST FAN EF-7	2,200	0.016	40" x 48"	361	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN, INTERGAL DAMPER AND ACTUATOR. INTERLOCK LOUVER WITH EXHAUST FAN (EF-7) COLOR BY ARCHITECT.
L-8	GREENHECK / EACA-601	COMBO LOUVER / DAMPER DRAINABLE	m100 VEHICLE BAY (BAY - 4) INTAKE FOR EXHAUST FAN EF-8	2,200	0.016	40" x 48"	361	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN, INTERGAL DAMPER AND ACTUATOR. INTERLOCK LOUVER WITH EXHAUST FAN (EF-8) COLOR BY ARCHITECT.
L-9	GREENHECK / EACA-601	COMBO LOUVER / DAMPER DRAINABLE	m100 VEHICLE BAY (BAY - 5) & INTAKE FOR EXHAUST FAN EF-9	2,200	0.016	40" x 48"	361	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN, INTERGAL DAMPER AND ACTUATOR. INTERLOCK LOUVER WITH EXHAUST FAN (EF-9) COLOR BY ARCHITECT.
L-10	GREENHECK / EACA-601	COMBO LOUVER / DAMPER DRAINABLE	m100 VEHICLE BAY (BAY - 6) & WELDING AREA INTAKE FOR EXHAUST FAN EF-10	2,200	0.016	40" x 48"	361	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN, INTERGAL DAMPER AND ACTUATOR. INTERLOCK LOUVER WITH EXHAUST FAN (EF-10) COLOR BY ARCHITECT.
L-11	GREENHECK / EACA-601	COMBO LOUVER / DAMPER DRAINABLE	v100 - SMALL ENGINE SHOP / STORAGE INTAKE FOR EXHAUST FAN FOR EF-11	3,600	0.018	56" x 48"	398	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN, INTERGAL DAMPER AND ACTUATOR. INTERLOCK LOUVER WITH EXHAUST FAN (EF-11) COLOR BY ARCHITECT.
L-12	GREENHECK / EACA-601	COMBO LOUVER / DAMPER DRAINABLE	v105 - WASH BAY AREA INTAKE FOR EXHAUST FAN EF-12	750	0.015	28" x 28"	362	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN, INTERGAL DAMPER AND ACTUATOR. INTERLOCK LOUVER WITH EXHAUST FAN (EF-12) COLOR BY ARCHITECT.
L-13	GREENHECK / EVH-501	FIXED DRAINABLE	FURNACE O.S.A. INTAKE (F-4)	30	0.008	26" x 16"	180	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN, INTERGAL DAMPER AND ACTUATOR. INTERLOCK LOUVER WITH EXHAUST FAN (EF-12) COLOR BY ARCHITECT.
L-14	GREENHECK / EVH-501	FIXED DRAINABLE	m110 - MEN'S BATHROOM EXHAUST FOR EF-3	350	0.020	26" x 16"	340	COORDINATE WITH ARCHITECT	PROVIDE WITH BIRD SCREEN, INTERGAL DAMPER AND ACTUATOR. INTERLOCK LOUVER WITH EXHAUST FAN (EF-4) COLOR BY ARCHITECT.

AIR DEVICE SCHEDULE

DESIG.	MFR./MDL.	TYPE	FACE SIZE	FINISH	FREE AREA	ACCESS.	REMARKS
CD-1	TITUS / TMS	LOUVER FACE CEILING SUPPLY	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	2'x2' GRILLE WITH ROUND NECK
SG-1	TITUS / 300RL	DOUBLE DEFLECTION SIDEWALL SUPPLY	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	PROVIDE WITH 3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION.
SG-2	TITUS / S300FL	DOUBLE SPIRAL DUCT MOUNTED GRILLE	AS NOTED	BY ARCHITECT	---	OPPOSED BLADE DAMPER	PROVIDE WITH 3/4" SPACED BLADES FRONT BLADES PARALLEL TO LONG DIMENSION. ENDCAPS, INDIVIDUALLY ADJUSTABLE BLADES AND RADIUS TO MATCH DUCT DIAMETER (SEE PLANS).
LD-1	TITUS / ML-38	LINEAR SUPPLY	AS NOTED	BY ARCHITECT	---	OPPOSED BLADE DAMPER	PROVIDE W/ NUMBER OF SLOTS AND LENGTH AS DESIGNATED ON PLANS, 3/4" SLOT WIDTH, END CAPS, AND CONTINUOUS INSULATED PLENUM. PLENUM HEIGHT SHALL BE ADEQUATELY TALL FOR CONNECTION OF DUCT SIZES SHOWN ON PLANS.
RA-1	TITUS / PAR	PERF. FACE CEILING RETURN	AS NOTED	WHITE	51%	OPPOSED BLADE DAMPER	22" x 22" NECK TYPICAL UNLESS NOTED OTHERWISE ON PLANS.
RA-2	TITUS / 350 RL	SIDEWALL RETURN	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	PROVIDE WITH 3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION.
LR-1	TITUS / MLR-39	LINEAR RETURN	AS NOTED	BY ARCHITECT	---	OPPOSED BLADE DAMPER	PROVIDE W/ NUMBER OF SLOTS AND LENGTH AS DESIGNATED ON PLANS, 1" SLOT WIDTH, END CAPS, AND CONTINUOUS INSULATED PLENUM. PLENUM HEIGHT SHALL BE ADEQUATELY TALL FOR CONNECTION OF DUCT SIZES SHOWN ON PLANS.
ER-1	TITUS / 50F	EGGCRATE CEILING EXHAUST	AS NOTED	WHITE	51%	OPPOSED BLADE DAMPER	ROUND NECK.
ER-2	TITUS / 350 RL	SIDEWALL EXHAUST	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	PROVIDE WITH 3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION.

UNIT HEATER SCHEDULE

DESIG.	MFR/MDL	SERVES	LOCATION	TYPE	RISE	HP	LB	HEATING			ELECTRICAL		REMARKS
								INPUT	OUTPUT	CFM	VOLT / PHASE	AMPS	
UH-1	STERLING / XC15061NS211	MAINTENANCE AREA	NORTH WALL (BAY 1 & 2)	WALL HEATER	65°F	1/2	205	150 MBH	124.5 MBH	1,771	115 / 1ø	11.2	PROVIDE WITH OSHA TYPE FAN GUARD, SUMMER/WINTER SWITCH, SS BURNERS, TWO-STAGE T-STAT W/ PROTECTIVE COVER, LOW AMBIENT CONTROLS, STRATIFICATION SENSOR, HORIZONTAL CONCENTRIC FLUE KIT, HIGH LIMIT SWITCH, 60° NOZZLE, WALL MOUNT, AND DISCONNECT.
UH-2	STERLING / XC15061NS211	MAINTENANCE AREA	SOUTH WALL (BAY 1 & 2)	WALL HEATER	65°F	1/2	205	150 MBH	124.5 MBH	1,771	115 / 1ø	11.2	PROVIDE WITH OSHA TYPE FAN GUARD, SUMMER/WINTER SWITCH, SS BURNERS, TWO-STAGE T-STAT W/ PROTECTIVE COVER, LOW AMBIENT CONTROLS, STRATIFICATION SENSOR, HORIZONTAL CONCENTRIC FLUE KIT, HIGH LIMIT SWITCH, 60° NOZZLE, WALL MOUNT, AND DISCONNECT.
UH-3	STERLING / XC15061NS211	MAINTENANCE AREA	NORTH WALL (BAY 3 & 4)	WALL HEATER	65°F	1/2	205	150 MBH	124.5 MBH	1,771	115 / 1ø	11.2	PROVIDE WITH OSHA TYPE FAN GUARD, SUMMER/WINTER SWITCH, SS BURNERS, TWO-STAGE T-STAT W/ PROTECTIVE COVER, LOW AMBIENT CONTROLS, STRATIFICATION SENSOR, HORIZONTAL CONCENTRIC FLUE KIT, HIGH LIMIT SWITCH, 60° NOZZLE, WALL MOUNT, AND DISCONNECT.
UH-4	STERLING / XC15061NS211	MAINTENANCE AREA	SOUTH WALL (BAY 3 & 4)	WALL HEATER	65°F	1/2	205	150 MBH	124.5 MBH	1,771	115 / 1ø	11.2	PROVIDE WITH OSHA TYPE FAN GUARD, SUMMER/WINTER SWITCH, SS BURNERS, TWO-STAGE T-STAT W/ PROTECTIVE COVER, LOW AMBIENT CONTROLS, STRATIFICATION SENSOR, HORIZONTAL CONCENTRIC FLUE KIT, HIGH LIMIT SWITCH, 60° NOZZLE, WALL MOUNT, AND DISCONNECT.
UH-5	STERLING / XC15061NS211	MAINTENANCE AREA	NORTH WALL (BAY 5 & 6)	WALL HEATER	65°F	1/2	205	150 MBH	124.5 MBH	1,771	115 / 1ø	11.2	PROVIDE WITH OSHA TYPE FAN GUARD, SUMMER/WINTER SWITCH, SS BURNERS, TWO-STAGE T-STAT W/ PROTECTIVE COVER, LOW AMBIENT CONTROLS, STRATIFICATION SENSOR, HORIZONTAL CONCENTRIC FLUE KIT, HIGH LIMIT SWITCH, 60° NOZZLE, WALL MOUNT, AND DISCONNECT.
UH-6	STERLING / XC15061NS211	MAINTENANCE AREA	SOUTH WALL (BAY 1 & 2)	WALL HEATER	65°F	1/2	205	150 MBH	124.5 MBH	1,771	115 / 1ø	11.2	PROVIDE WITH OSHA TYPE FAN GUARD, SUMMER/WINTER SWITCH, SS BURNERS, TWO-STAGE T-STAT W/ PROTECTIVE COVER, LOW AMBIENT CONTROLS, STRATIFICATION SENSOR, HORIZONTAL CONCENTRIC FLUE KIT, HIGH LIMIT SWITCH, 60° NOZZLE, WALL MOUNT, AND DISCONNECT.
UH-7	STERLING / XC10061NS211	MAINTENANCE AREA	NORTH (WEST WALL)	WALL HEATER	65°F	1/4	173	100 MBH	83.0 MBH	1,181	115 / 1ø	8.6	PROVIDE WITH OSHA TYPE FAN GUARD, SUMMER/WINTER SWITCH, SS BURNERS, TWO-STAGE T-STAT W/ PROTECTIVE COVER, LOW AMBIENT CONTROLS, STRATIFICATION SENSOR, HORIZONTAL CONCENTRIC FLUE KIT, HIGH LIMIT SWITCH, 60° NOZZLE, WALL MOUNT, AND DISCONNECT.
UH-8	STERLING / XC10061NS211	MAINTENANCE AREA	SOUTH (WEST WALL)	WALL HEATER	65°F	1/4	173	100 MBH	83.0 MBH	1,181	115 / 1ø	8.6	PROVIDE WITH OSHA TYPE FAN GUARD, SUMMER/WINTER SWITCH, SS BURNERS, TWO-STAGE T-STAT W/ PROTECTIVE COVER, LOW AMBIENT CONTROLS, STRATIFICATION SENSOR, HORIZONTAL CONCENTRIC FLUE KIT, HIGH LIMIT SWITCH, 60° NOZZLE, WALL MOUNT, AND DISCONNECT.

RADIANT HEATER SCHEDULE

DESIG.	MFR/MDL	SERVES	LOCATION	TYPE	TUBE DIA.	WEIGHT	HEATING			ELECTRICAL		REMARKS
							HIGH	LOW	LENGTH	VOLT / PHASE	AMPS	
RH-1	ADVANCE RADIANT SYSTEMS / DU205-S50	VEHICLE STORAGE (SMALL ENGINE)	EAST	NAT. GAS HI-LO		325	205 MBH	160 MBH	50 FT	115 / 1ø	1	PROVIDE WITH NATURAL GAS DIRECT SPARK IGNITION, W/ 100% SAFETY SHUTOFF W/ INDICATOR LIGHTS, BALL VALVE AND S.S. FLEX GAS CONNECTOR, 4" 16 GA ALUMINIZED COMBUSTION CHAMBER AND RADIANT TUBING, POLISHED ALUMINUM REFLECTORS AND ENDCAPS, 24V DIGITAL TOUCH SCREEN 2-STAGE 7-DAY PROGRAMMABLE T-STAT, TOTAL ENCLOSED BURNER CABINET, 4" VENT ADAPTER, 4" SEPERATED COMBUSTION AIR COLLAR , & HANGING CHAIN SET W/ ALL THE NECESSARY HARDWARE INCLUDED.
RH-2	ADVANCE RADIANT SYSTEMS / DU205-S50	VEHICLE STORAGE (SMALL ENGINE)	WEST	NAT. GAS HI-LO		325	205 MBH	160 MBH	50 FT	115 / 1ø	1	PROVIDE WITH NATURAL GAS DIRECT SPARK IGNITION, W/ 100% SAFETY SHUTOFF W/ INDICATOR LIGHTS, BALL VALVE AND S.S. FLEX GAS CONNECTOR, 4" 16 GA ALUMINIZED COMBUSTION CHAMBER AND RADIANT TUBING, POLISHED ALUMINUM REFLECTORS AND ENDCAPS, 24V DIGITAL TOUCH SCREEN 2-STAGE 7-DAY PROGRAMMABLE T-STAT, TOTAL ENCLOSED BURNER CABINET, 4" VENT ADAPTER, 4" SEPERATED COMBUSTION AIR COLLAR , & HANGING CHAIN SET W/ ALL THE NECESSARY HARDWARE INCLUDED.
RH-3	ADVANCE RADIANT SYSTEMS / DUH125-S50	VEHICLE STORAGE (WASH BAY)	WEST WALL	NAT. GAS HI-LO		300	125 MBH	95 MBH	50 FT	115 / 1ø	1	PROVIDE WITH NATURAL GAS DIRECT SPARK IGNITION, W/ 100% SAFETY SHUTOFF W/ INDICATOR LIGHTS, BALL VALVE AND S.S. FLEX GAS CONNECTOR, 4" 16 GA ALUMINIZED COMBUSTION CHAMBER AND RADIANT TUBING, S.S. REFLECTORS AND ENDCAPS, S.S. SIDEWALL REFLECTORS, CORROSION RESISTANT ALUMINIZED STEEL TUBING, 24V DIGITAL TOUCH SCREEN 2-STAGE 7-DAY PROGRAMMABLE T-STAT W/ NEMA 4X ENCLOSURE, S.S. TOTAL ENCLOSED BURNER CABINET, 4" VENT ADAPTER, 4" SEPERATED COMBUSTION AIR COLLAR , & HANGING CHAIN SET W/ ALL THE NECESSARY HARDWARE INCLUDED.

EQUIPMENT SEQUENCE OF OPERATION

EQUIPMENT SEQUENCES OF OPERATION

FURNACES/CONDENSING UNITS (F-1/CU-1, F-2A/CU-2A, F-2B/CU-2B, F-3/CU-3, & F-4/CU-4):
THE OCCUPIED MODE SHALL BE INITIATED ACCORDING TO THE OWNER DEFINED SCHEDULE. F-2A/CU-2A & F-2B/CU-2B SHALL BE TWINNED TOGETHER TO OPERATE AS ONE SYSTEM.

OCCUPIED:
THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE SPACE THERMOSTAT SHALL CYCLE MECHANICAL COOLING TO MAINTAIN THE OCCUPIED COOLING SETPOINT (75 °F ADJ.). THE OUTSIDE AIR DAMPER SHALL OPEN TO THE MINIMUM POSITION. WHEN THE SPACE TEMPERATURE IS SATISFIED, THE CONDENSING UNIT CYCLES OFF. WHEN THE SPACE THERMOSTAT CALLS FOR HEATING, GAS HEAT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING SETPOINT (72 °F ADJ.). WHEN THE SPACE TEMPERATURE IS SATISFIED, THE GAS HEAT CYCLES OFF.

UNOCCUPIED:
THE SPACE THERMOSTAT SHALL CYCLE THE SUPPLY FAN AND MECHANICAL COOLING OR HEATING TO MAINTAIN THE UNOCCUPIED TEMPERATURE SETPOINT. THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED. A SPACE OVERRIDE TIMER (2 HRS.) LOCATED AT THE THERMOSTAT SHALL START/STOP THE SYSTEM ACCORDING TO ITS NORMAL OCCUPIED MODE SEQUENCE.

PACKAGED UNITS (A/C-1):
THE OCCUPIED MODE SHALL BE INITIATED ACCORDING TO THE OWNER DEFINED SCHEDULE.

OCCUPIED:
THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE SPACE THERMOSTAT SHALL CYCLE MECHANICAL COOLING TO MAINTAIN THE OCCUPIED COOLING SETPOINT (75 °F ADJ.). THE OUTSIDE AIR DAMPER SHALL OPEN TO THE MINIMUM POSITION. WHEN THE SPACE TEMPERATURE IS SATISFIED, MECHANICAL COOLING CYCLES OFF. WHEN THE SPACE THERMOSTAT CALLS FOR HEATING, GAS HEAT SHALL CYCLE ON TO MAINTAIN THE OCCUPIED HEATING SETPOINT (72 °F ADJ.). WHEN THE SPACE TEMPERATURE IS SATISFIED, THE GAS HEAT CYCLES OFF.

DEHUMIDIFICATION:
WHEN SPACE RELATIVE HUMIDITY RISES ABOVE 50% (ADJ.) AS MEASURED BY THE SPACE HUMIDISTAT, THE LEAD COMPRESSOR SHALL CYCLE ON AND HOT GAS REHEAT SHALL BE ENABLED.

THE ECONOMIZER MODE SHALL OPERATE BASED ON THE ENTHALPY SETPOINT. DURING ECONOMIZER MODE, THE OUTSIDE AIR DAMPER SHALL MODULATE FULLY OPEN AND THE RETURN AIR DAMPER SHALL CLOSE. WHEN OUTDOOR AIR IS ABOVE ENTHALPY SETPOINT, THE OUTSIDE AIR DAMPER SHALL CLOSE TO THE MINIMUM POSITION AND THE RETURN AIR DAMPER SHALL OPEN.

UNOCCUPIED:
THE SPACE THERMOSTAT SHALL CYCLE THE SUPPLY FAN AND MECHANICAL COOLING OR HEATING TO MAINTAIN THE UNOCCUPIED TEMPERATURE SETPOINT. THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED. A SPACE OVERRIDE TIMER (2 HRS.) LOCATED AT THE THERMOSTAT SHALL START/STOP THE SYSTEM ACCORDING TO ITS NORMAL OCCUPIED MODE SEQUENCE.

THE UNIT SHALL SHUT DOWN UPON DETECTION OF SMOKE BY EITHER THE SUPPLY OR RETURN AIR SMOKE DETECTORS.

DUCTLESS SPLIT SYSTEMS (MS-1/MSOU-1 & MS-2/MSOU-2):
EACH SYSTEM SHALL BE CONTROLLED BY ITS WALL MOUNTED HEAT PUMP CONTROLLER. OCCUPIED AND UNOCCUPIED SETTINGS SUCH AS TIME SCHEDULES AND TEMPERATURE SETPOINTS SHALL BE ADJUSTED AT THE CONTROLLERS.

EXHAUST FANS (EF-1, 2, 3 & 4):
THE EXHAUST FAN SHALL BE CONTROLLED (OFF/ON) BY A WALL MOUNTED SWITCH.

EXHAUST FANS (EF-5, 6, 7, 8, 9, 10, 11, &12):
THE EXHAUST FANS SHALL BE CONTROLLED INDIVIDUALLY BY AN (ON/OFF) BY A WALL MOUNTED SWITCH. INTERLOCK LOUVER WITH ITS ASSOCIATIVE EXHAUST FANS (SEE PLANS)

UNIT HEATERS (UH-1, 2, 3, 4, 5, 6, 7, & 8):
THE THERMOSTAT SHALL CYCLE THE HEATER WHEN THE SPACE TEMPERATURE FALLS BELOW SETPOINT.

RADIANT HEATERS (RH- 1, 2, & 3):
THE THERMOSTAT SHALL CYCLE THE HEATER WHEN THE SPACE TEMPERATURE FALLS BELOW SETPOINT.

HAZARDOUS GAS DETECTION SYSTEM:

UPON AN ALARM DUE TO HIGH LEVELS OF CO2 / NO2, THE GAS DETECTOR SYSTEM IN THE MAINTENANCE BAY SHALL ENABLE ALL FANS (EF-5, 6, 7, 8, 9, & 10) TO RUN CONTINUOUSLY, EACH ASSOCIATED LOUVER TO OPEN, AND THE GARAGE DOORS OPEN UNTIL THE GAS DETECTOR ALARM IS CLEARED. EXHAUST FANS (EF-5, 6, 7, 8, 9, & 10) SHALL BE DISABLED AND THEIR ASSOCIATED LOUVERS CLOSED.

SEQUENCE SIMILAR FOR HAZARDOUS GAS DETECTION SYSTEM IN SMALL ENGINE BAY AND ASSOCIATED EXHAUST FAN (EF-11) AND LOUVER (L-11).

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
HVAC SCHEDULES

Revision

Date	Description

Project No.: 2106601CBATE

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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—SP—	FIRE SPRINKLER PIPING
—DSP—	DRY PIPE FIRE SPRINKLER PIPING
—F—	FIRE PROTECTION WATER SUPPLY
—●—	BRASS SPRINKLER HEAD (UPRIGHT OR PENDANT AS REQ'D)
—◉—	RECESSED PENDANT SPRINKLER HEAD IN CEILING
—◎—	EXTRA LARGE ORIFICE TYPE SPRINKLER HEAD
—◉—	DRY PENDENT ON DROP SPRINKLER HEAD
—⊗—	CONCEALED TYPE SPRINKLER HEAD
▶—	HORIZONTAL SIDEWALL SPRINKLER HEAD
—✕—	EXISTING SPRINKLER HEAD
S	SUPERVISED INDICATING TYPE VALVE (O.S.&Y)
F	FLOW SWITCH
▨	RECESSED FIRE HOSE CABINET
▨	RECESSED FIRE EXTINGUISHER CABINET
F.E.	FIRE EXTINGUISHER
F.H.C.	FIRE HOSE CABINET
O.S.&Y.	OUTSIDE SCREW & YOKE
F.E.C.	FIRE EXTINGUISHER CABINET
—Y—	FIRE HYDRANT
⊂—<	FIRE DEPARTMENT CONNECTION

AUTO FIRE SPRINKLER LEGEND

(THIS LEGEND FOR ALL SHEETS)

▨	DOUBLE CROSSHATCHING DENOTES BOUNDARIES OF AREAS THAT REQUIRE AUTOMATIC FIRE SPRINKLER SYSTEM, BUT WITH NOTED EXCEPTION, AND OR, ADDITION.

FIRE PROTECTION GENERAL NOTES

1. THE BUILDING ADDITION SHALL BE COMPLETELY SPRINKLED. SEE HVAC AND ELECTRICAL DRAWINGS FOR GRILLES, LIGHTS ETC. AND COORDINATE SPRINKLER HEAD LOCATION AS REQUIRED. THESE SYSTEMS SHALL BE HYDRAULICALLY DESIGNED TO MEET NFPA 13, STATE, AND LOCAL CODES. IN FINISHED AREAS LOCATE SPRINKLER HEADS IN CENTER OF LAY-IN TILE CEILING AND LOCATE SYMMETRICALLY IN ROOMS AN SPACES AS FAR AS PRACTICAL.
2. PROVIDE SPRINKLER HEADS AT TOP AND BOTTOM FLOORS OF ALL LARGE MECHANICAL CHASES (AS REQUIRED BY CODE).
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIRE EXTINGUISHER CABINETS, ETC.
4. COORDINATE FIRE SPRINKLER ZONING WITH ELECTRICAL DRAWINGS AND FIRE ALARM SYSTEM.
5. ALL VALVES MUST BE ACCESSIBLE, IF INSTALLED ABOVE A FIXED CEILING, ACCESS DOORS SHALL BE INSTALLED.
6. ALL SPRINKLER BRANCHES DOWNSTREAM OF AN ALARM SHALL HAVE A 1" MINIMUM TEST DRAIN LINE WITH EASILY ACCESSIBLE VALVE. DISCHARGE DRAIN TO AN APPROPRIATE LOCATION, THRU OUTSIDE WALL IF POSSIBLE, OR TO A LARGE FLOOR DRAIN IN A MECHANICAL ROOM, ETC.
7. ALL SPRINKLER PIPING SHALL SLOPE TO LOW POINTS WITH VALVES FOR DRAINING.
8. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE, EXCEPT IN SPECIAL AREAS.
9. SPRINKLER HEADS SHALL BE LOCATED 15' (OR LESS) ON CENTER - EXTENDED COVERAGE HEADS NOT ACCEPTABLE.
10. PROVIDE SYSTEM TO NFPA 13 COVERAGE AND OCCUPANCY REQUIREMENTS
11. WATER SUPPLY - FIELD VERIFY EXISTING CONDITIONS
12. INTERFACE SYSTEM WITH BUILDING FIRE AND SMOKE ALARM SYSTEM.
13. VERIFY THAT THE EXISTING FIRE DEPARTMENT CONNECTION IS ACCEPTABLE AS IS EVEN AFTER THIS SPRINKLER ADDITION IS CONNECTED.
14. ALL PIPING TO BE SCHEDULE 40 STEEL.
15. ALL EXPOSED SPRINKLER PIPING SHALL BE PAINTED - CLEAN, PRIME, AND PAINT WITH (2) COATS EPOXY PAINT (COLOR AS SELECTED BY ARCHITECT) FIRE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR
16. ALL SPRINKLER HEADS IN LAY-IN CEILING SHALL HAVE FLEXIBLE DROPS TO COMPLY WITH SEISMIC DESIGN CATEGORY "D" - FLEXIBLE SPRINKLER HEADS MUST BE "FLEXHEAD INDUSTRIES" (NO SUBSTITUTIONS)
17. ALL SPRINKLER HEADS MUST BE CENTERED IN CEILING TILES OF LAY-IN CEILINGS.

FIRE PROTECTION NOTES

A COMPLETE AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 AS A WET SPRINKLER SYSTEM. BACKFLOW PROTECTION SHALL BE PROVIDED AS REQUIRED BY ARKANSAS DEPARTMENT OF HEALTH.

FIRE PROTECTION KEYED NOTES

① THESE DESIGNATED AREAS SHALL BE PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM OF STANDARD WET TYPE. SEE GENERAL FIRE PROTECTION NOTES AND OTHER KEYED NOTES FOR SPECIAL AREA REQUIREMENTS.

② PROVIDE SPRINKLER HEADS AT TOP AND BOTTOM FLOORS OF ALL LARGE MECHANICAL CHASES (AS REQUIRED BY CODE)

③ FIRE SPRINKLER HEADS AROUND ELECTRICAL PANELS (SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATIONS) SHALL HAVE DEFLECTOR SHIELDS TO AVOID DIRECT WATER SPRAY ON EQUIPMENT.

④ IN MECHANICAL AND ELECTRICAL ROOMS (ESPECIALLY ROOMS WITHOUT CEILINGS) COORDINATE CAREFULLY THE EXACT LOCATIONS OF HEADS. REVIEW MECHANICAL AND ELECTRICAL DRAWINGS TO ENSURE THAT HEADS ARE NOT INSTALLED DIRECTLY ABOVE DUCTWORK, EQUIPMENT, ETC.

⑤ PROVIDE SIDEWALL SPRINKLER HEADS AT OPEN STAIR (AS REQUIRED BY CODE)

⑥ THESE AREAS ARE ORDINARY HAZARD - GROUP 1 (OTHER AREAS ARE LIGHT HAZARD UNLESS OTHERWISE NOTED).

FIRE SPRINKLER DESIGN NOTES

ESTIMATED AREA/DENSITY DEMANDS PLUS HOSE WATER

LIGHT HAZARD - .10 GPM x 1500 SQ. FT. x OVERAGE + 100 GPM HOSE WATER = 272.5 GPM.

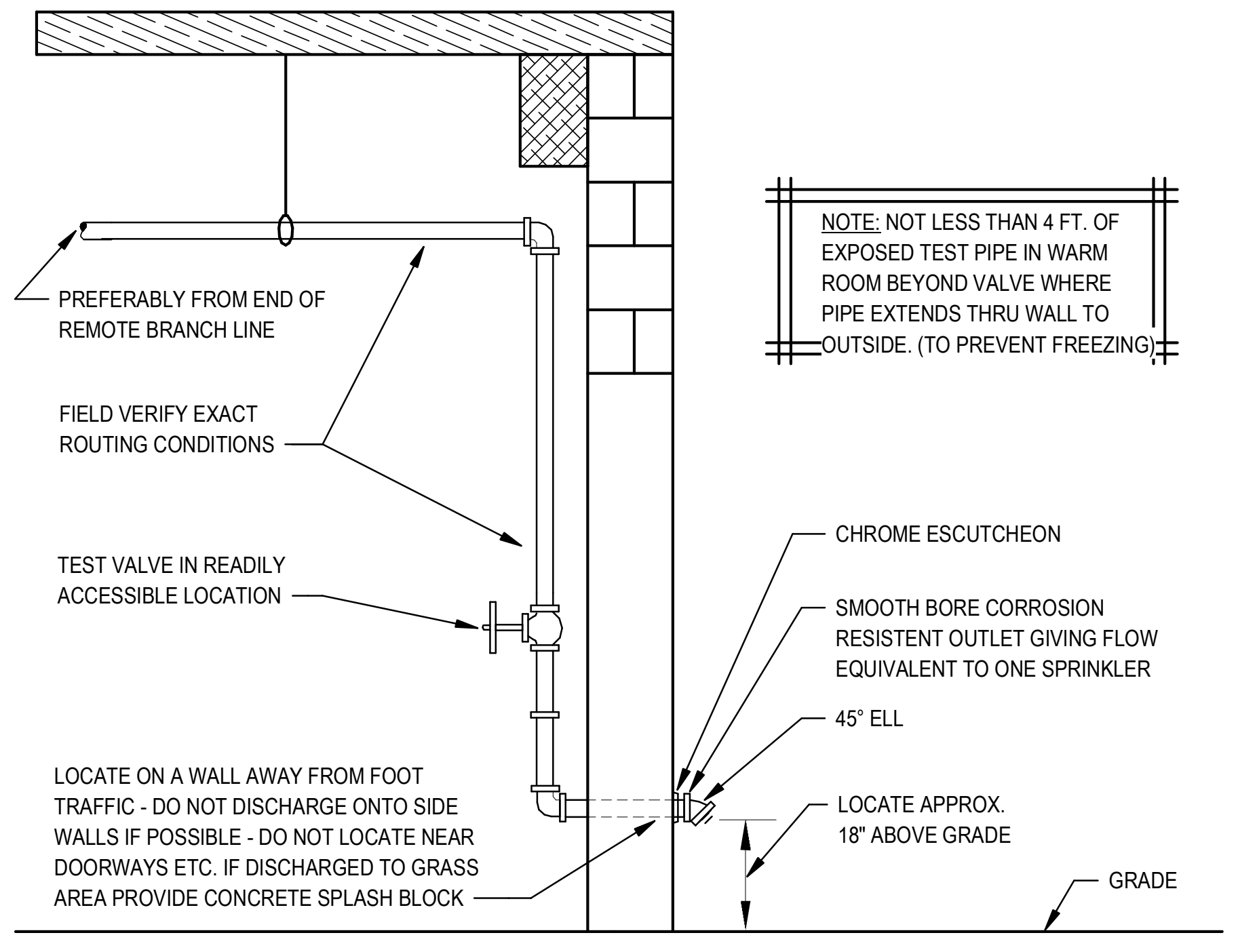
ORDINARY HAZARD (GROUP 1) - 0.15 GPM x 1500 SQ. FT. x OVERAGE + 250 GPM HOSE WATER = 509.0 GPM.

ORDINARY HAZARD (GROUP 2) - 0.25 GPM x 1500 SQ. FT. x OVERAGE + 250 GPM HOSEWATER = 595.0 GPM.

NOTE: REDUCTION AREA ADJUSTMENTS FOR QUICK RESPONSE SPRINKLER HEADS AS NOTED IN NFPA 13 WILL BE ALLOWED.

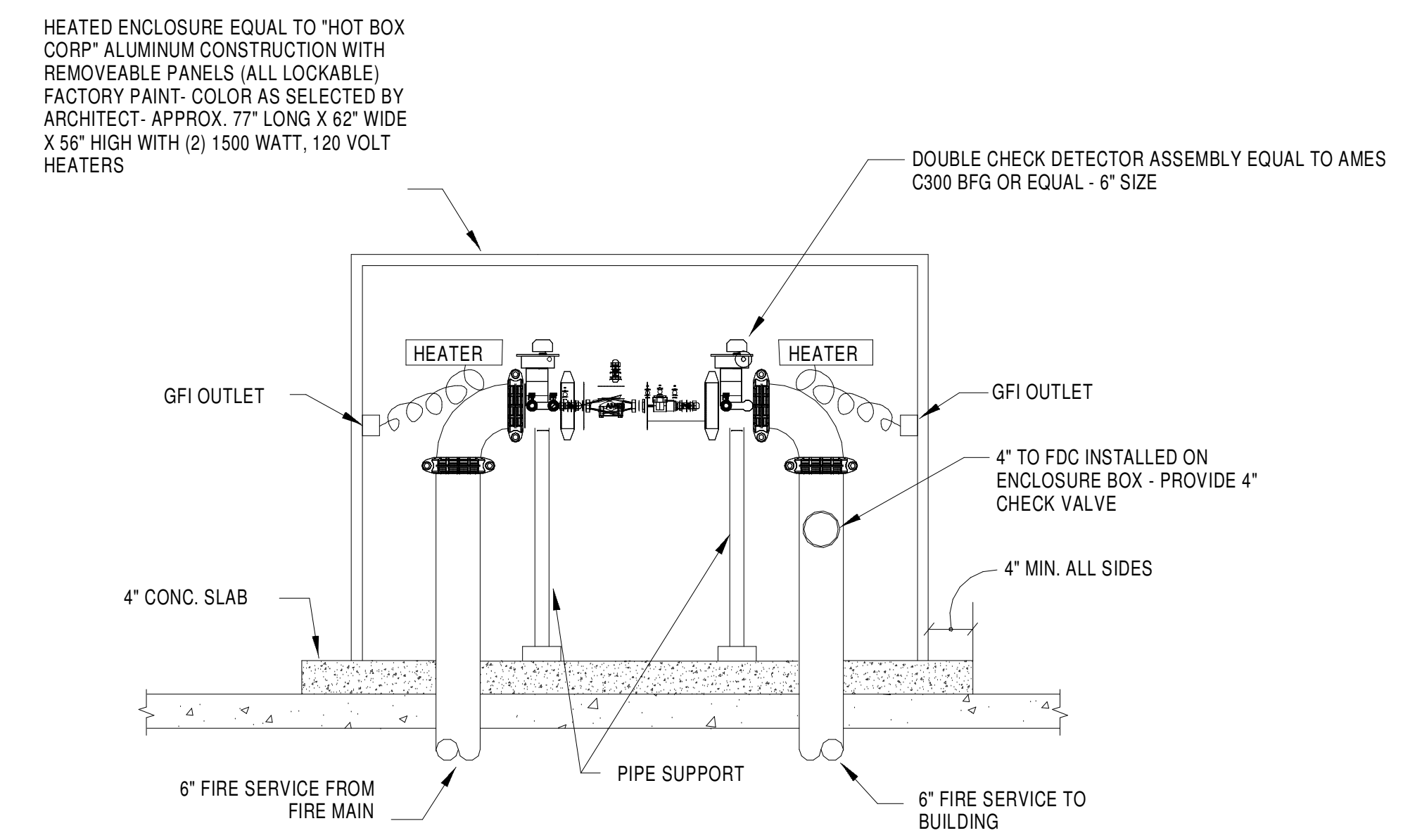
THE CONTRACTOR MUST VERIFY AND COORDINATE EXACT DESIGN REQUIREMENTS.

FIRE FLOW TEST - VERIFY IF REQUIRED - CONNECTING TO AN EXISTING FIRE SPRINKLER SYSTEM


PREFERABLY FROM END OF REMOTE BRANCH LINE
FIELD VERIFY EXACT ROUTING CONDITIONS
TEST VALVE IN READILY ACCESSIBLE LOCATION
LOCATE ON A WALL AWAY FROM FOOT TRAFFIC - DO NOT DISCHARGE ONTO SIDE WALLS IF POSSIBLE - DO NOT LOCATE NEAR DOORWAYS ETC. IF DISCHARGED TO GRASS AREA PROVIDE CONCRETE SPLASH BLOCK
NOTE: NOT LESS THAN 4 FT. OF EXPOSED TEST PIPE IN WARM ROOM BEYOND VALVE WHERE PIPE EXTENDS THRU WALL TO OUTSIDE. (TO PREVENT FREEZING)
CHROME ESCUTCHEON
SMOOTH BORE CORROSION RESISTENT OUTLET GIVING FLOW EQUIVALENT TO ONE SPRINKLER
45° ELL
LOCATE APPROX. 18" ABOVE GRADE
GRADE

① FIRE SPRINKLER TEST DRAIN DETAIL

SCALE: NONE


HEATED ENCLOSURE EQUAL TO "HOT BOX CORP" ALUMINUM CONSTRUCTION WITH REMOVEABLE PANELS (ALL LOCKABLE) FACTORY PAINT- COLOR AS SELECTED BY ARCHITECT- APPROX. 77" LONG X 62" WIDE X 56" HIGH WITH (2) 1500 WATT, 120 VOLT HEATERS
DOUBLE CHECK DETECTOR ASSEMBLY EQUAL TO AMES C300 BFG OR EQUAL - 6" SIZE
HEATER
HEATER
GFI OUTLET
GFI OUTLET
4" TO FDC INSTALLED ON ENCLOSURE BOX - PROVIDE 4" CHECK VALVE
4" MIN. ALL SIDES
4" CONC. SLAB
6" FIRE SERVICE FROM FIRE MAIN
PIPE SUPPORT
6" FIRE SERVICE TO BUILDING

② DOUBLE CHECK DETECTOR ASSEMBLY IN HEATED ENCLOSURE

SCALE: NONE (FOR FIRE PROTECTION)

NOTE: THE CONTRACTOR MUST VERIFY THE EXACT DIMENSIONS OF THE HEATED ENCLOSURE TO HOUSE THE DCDA.

STAMPS

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
FIRE PROTECTION GENERAL NOTES AND LEGENDS

Revision

Date	Description

Project No.: 2106601CBATE

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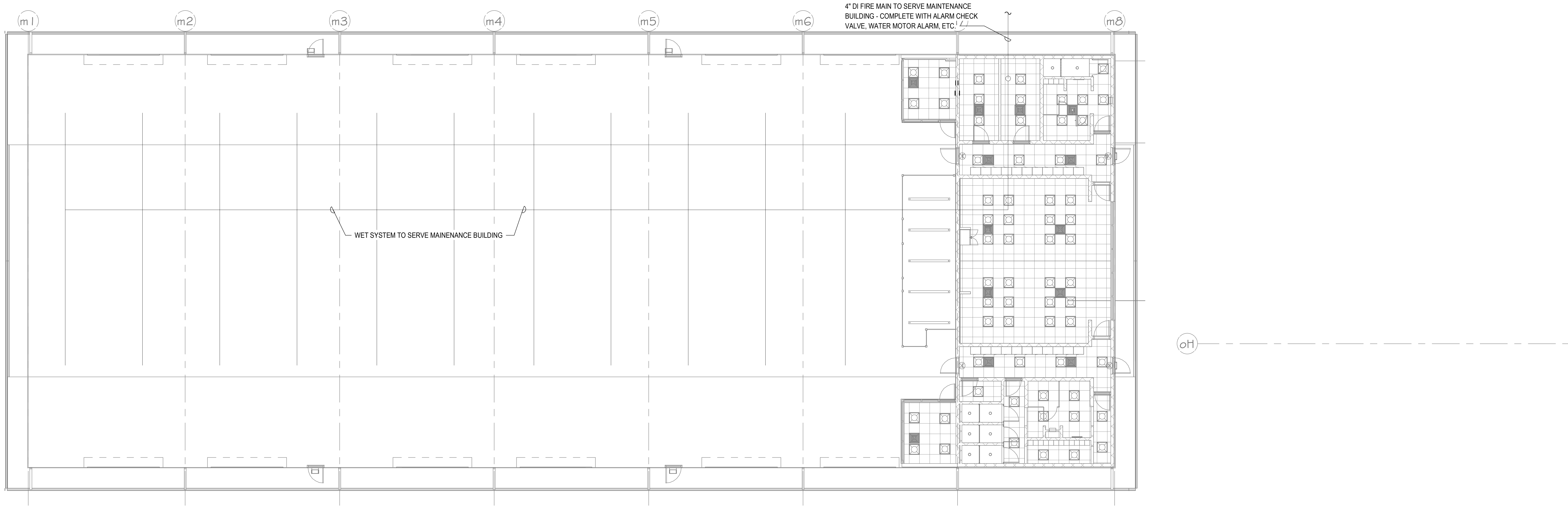
m1
m2
m3
m4
m5
m6
m8
oH
4" DI FIRE MAIN TO SERVE MAINTENANCE BUILDING - COMPLETE WITH ALARM CHECK VALVE, WATER MOTOR ALARM, ETC.
WET SYSTEM TO SERVE MAINENANCE BUILDING

1 MAINTENANCE BUILDING - FIRE PROTECTION
3/32" = 1'-0"

NORTH

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
MAINTENANCE BUILDING - FIRE PROTECTION

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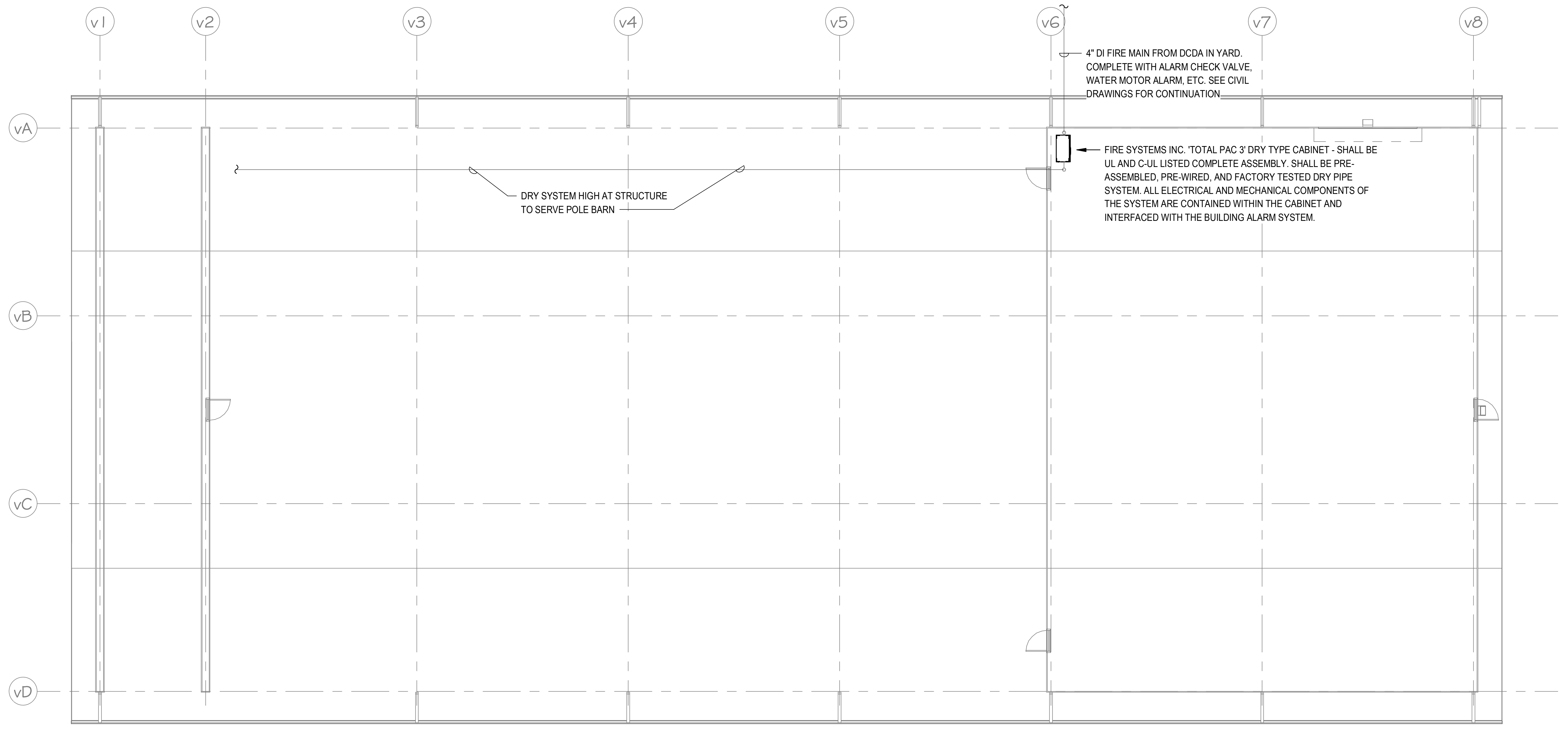

4" DI FIRE MAIN FROM DCDA IN YARD. COMPLETE WITH ALARM CHECK VALVE, WATER MOTOR ALARM, ETC. SEE CIVIL DRAWINGS FOR CONTINUATION

FIRE SYSTEMS INC. 'TOTAL PAC 3' DRY TYPE CABINET - SHALL BE UL AND C-UL LISTED COMPLETE ASSEMBLY. SHALL BE PRE-ASSEMBLED, PRE-WIRED, AND FACTORY TESTED DRY PIPE SYSTEM. ALL ELECTRICAL AND MECHANICAL COMPONENTS OF THE SYSTEM ARE CONTAINED WITHIN THE CABINET AND INTERFACED WITH THE BUILDING ALARM SYSTEM.

DRY SYSTEM HIGH AT STRUCTURE TO SERVE POLE BARN

1 POLE BARN - FIRE PROTECTION
3/32" = 1'-0"

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

POLE BARN - FIRE PROTECTION

Revision	
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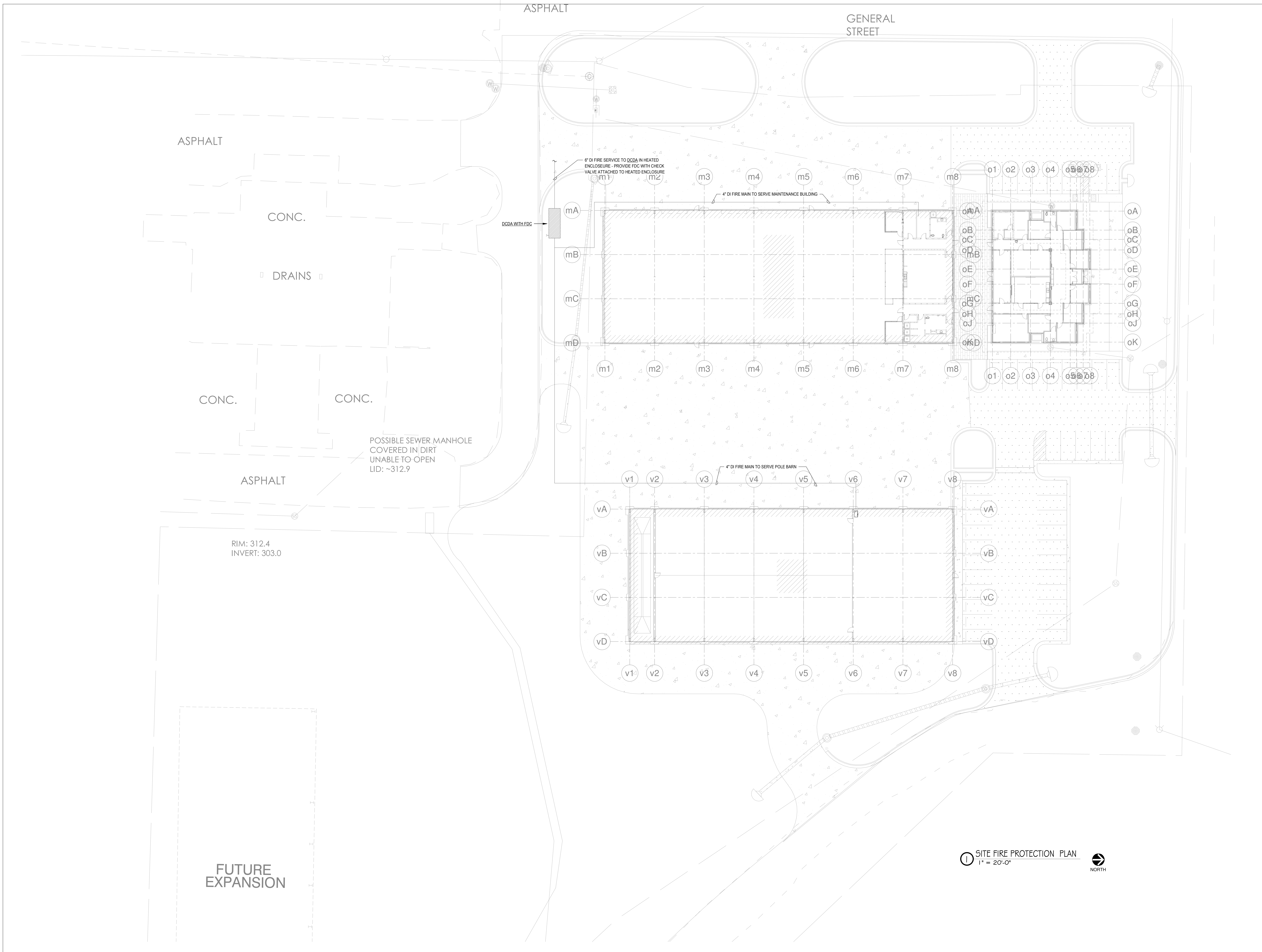

1 SITE FIRE PROTECTION PLAN
1" = 20'-0"

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
SITE PLAN - FIRE PROTECTION

Revision

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DOCUMENTS

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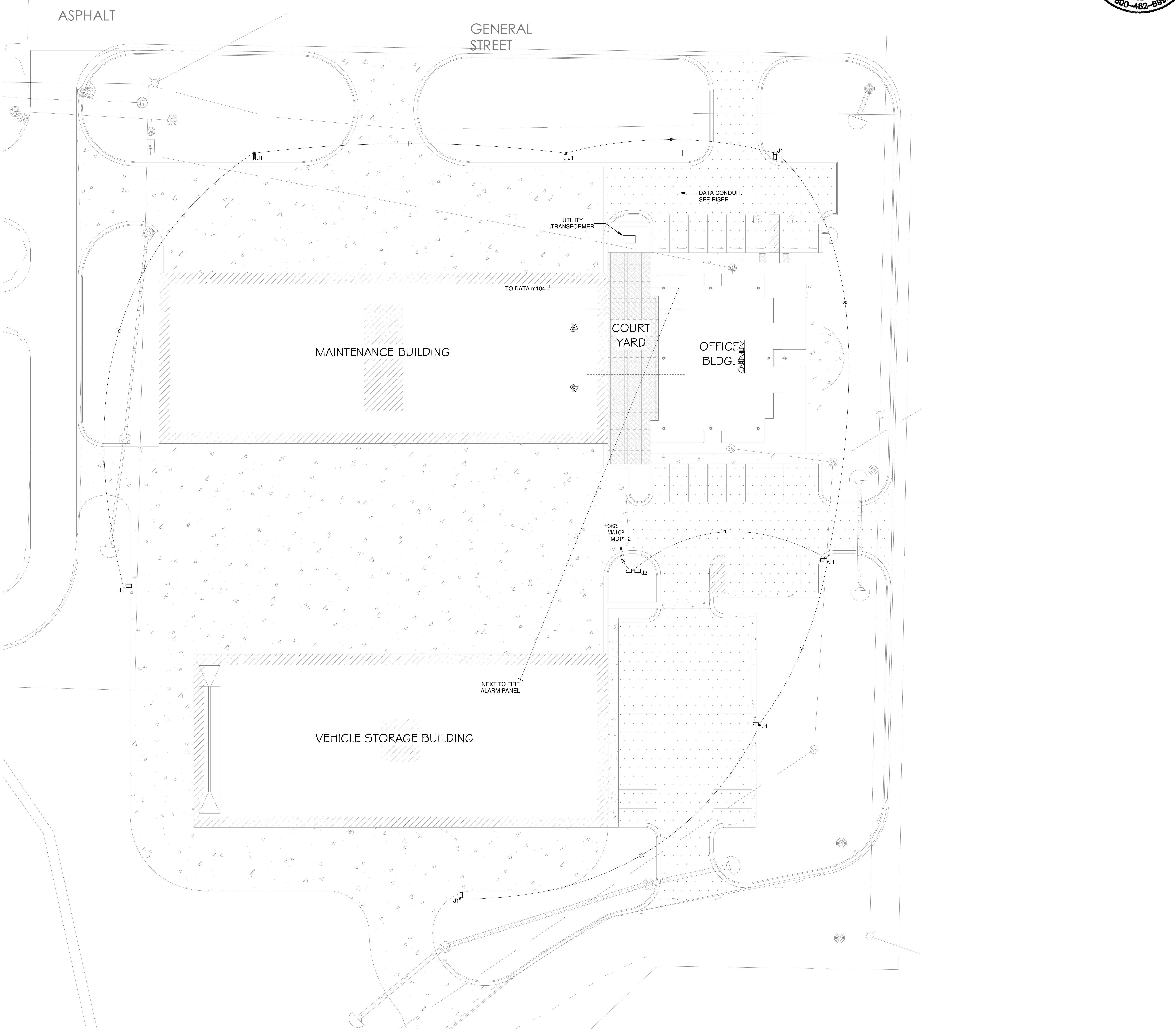

1 SITE PLAN - ELECTRICAL
SCALE: 1" = 20'-0"

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
SITE PLAN - ELECTRICAL

Revision	
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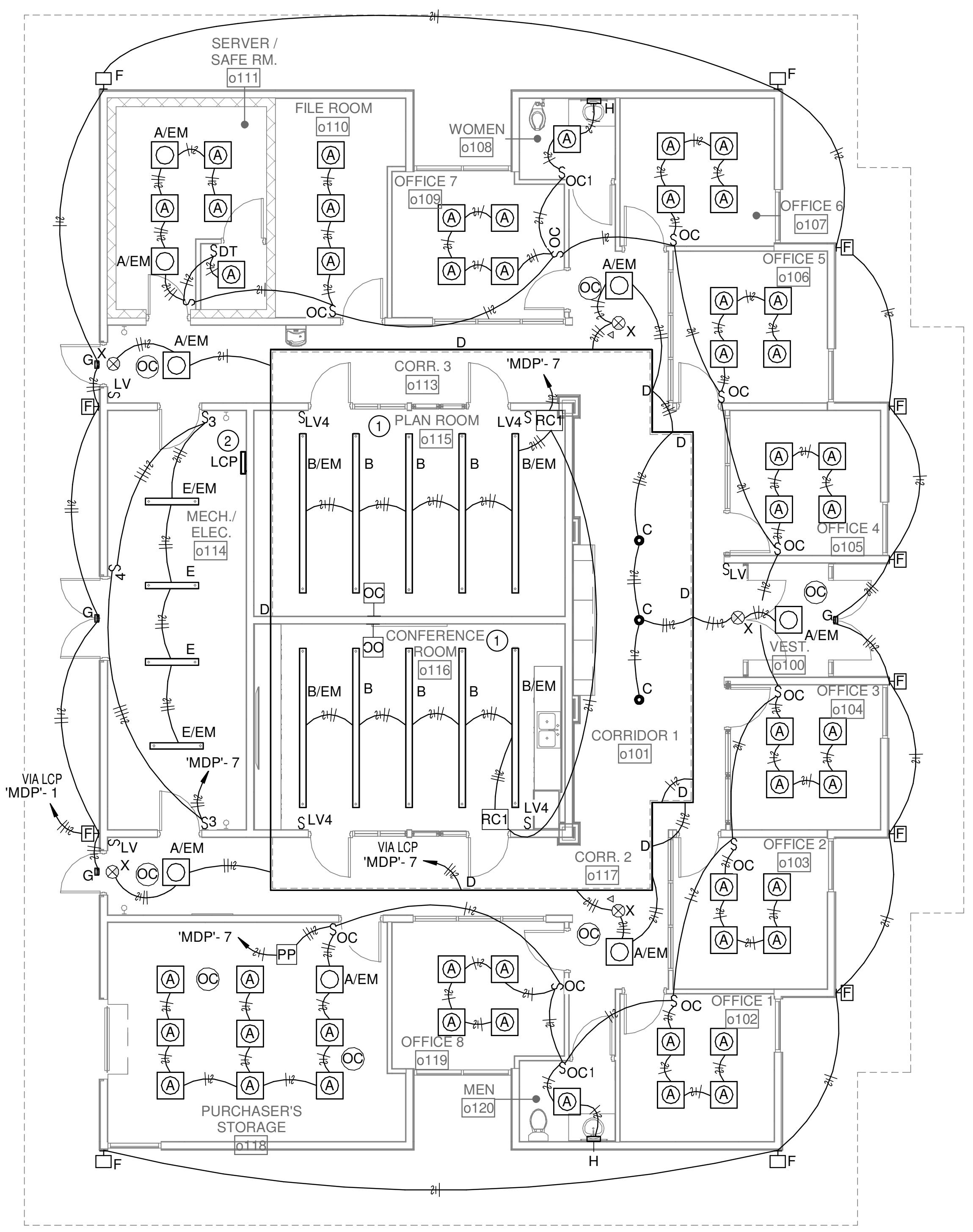
LIGHT FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	ELECTRICAL DATA	DESCRIPTION
A	MERCURY LIGHTING	LR34-22G-4800-35K-9A-0-10V-UNI	277 V/1-40 VA	2X2 LED LAY-IN TROFFER
A/EM	MERCURY LIGHTING	LR34-22G-4800-35K-9A-0-10V-UNI-EM12	277 V/1-40 VA	2X2 LED LAY-IN TROFFER WITH EMERGENCY LIGHITNG
B	LIGHT STREAMS	MLS3-M-144-825-35K-HTA-0-10V-U	277 V/1-90 VA	12' PENDANT MOUNT
B/EM	LIGHT STREAMS	MLS3-M-144-825-35K-HTA-0-10V-U-EM12	277 V/1-90 VA	12' PENDANT MOUNT WITH EMERGENCY LIGHTING
C	UTOPIA LIGHTING	ICICLE-4-36L-35K-UNV	277 V/1-36 VA	DECORATIVE SUSPENDED 4' PENDANT CYLINDER
D	CORE LIGHTING	LSM55-35K-'XX-24-ALP-50C-DRIVERS AS NEEDED.	<varies>	LED STRIP LIGHTS. POWER PER FOOT
E	MERCURY LIGHTING	LSA-4-4000-35K-HTA-0-10V-UNI	277 V/1-33 VA	4' STRIP SUSPENDED
E/EM	MERCURY LIGHTING	LSA-4-4000-35K-HTA-0-10V-UNI-EM12	277 V/1-33 VA	4' STRIP SUSPENDED W/ EMERGENCY BATTERY BACKUP
F	FC OUTDOOR LIGHTING	FCF1105-UNV-35K-CRI90-22L-XX-XX-0-10V-XX-AS	277 V/1-20 VA	EXTERIOR UPLIGHT. FINISH BY ARCHITECT. VERIFY MOUNTING.
G	LIGHTWAY	BVPW-9-LED-02B-4-XX-CEG-BB10	277 V/1-29 VA	EXTERIOR WALL PACK - EMERGENCY. COORDINATE FINISH AND MOUNTING WITH ARCHITECT.
H	LIGHT STREAMS	MLS3-WMD-24-825-35K-HTA-0-10V-U	277 V/1-15 VA	2' WALL MOUNT
I	ATLANTIC LIGHTING	COM6-SYL11-35K-U	277 V/1-10 VA	6" RECESSED LIGHT. FINISH BY ARCHITECT.
J1	VISONIAIRE	VLX-1-T4-96LC-5-5K-UNV-AM-XX	277 V/1-135 VA	SITE LIGHTING. POLE: SNTS-4S-7-25'-12BC-136-S1-XX. COORDINATE FINISH AND MOUNTING WITH ARCHITECT.
J2	VISONIAIRE	VLX-2-T4-96LC-5-5K-UNV-AM-XX	277 V/1-135 VA	SITE LIGHTING. POLE: SNTS-4S-7-25'-12BC-136-D2-XX. COORDINATE FINISH AND MOUNTING WITH ARCHITECT.
K	MERCURY LIGHTING	L501-8-9000-50K-HTA-UNV	277 V/1-73 VA	2', 4' and 8' Industrial LED
M	ENVISIONLED	LED-WPFC-5P80-TRI-XX-UNV-EMB	277 V/1-80 VA	EXTERIOR WALL PACK. COORDINATE MOUNTING WITH ARCHITECT.
V	VISIONAIRE LIGHTING	BHB-6_SW_192LC_3_4K_UNV_CPM_XX	277 V/1-212 VA	CABLE MOUNT HIGH BAY LIGHT. FINISH BY ARCHITECT.
X	EMERGI-LITE	ELX400RN	277 V/1-3 VA	CEILING MOUNTED EXIT

LIGHTING KEYED NOTES

① PROVIDE AND INSTALL 0-10V DIMMING WIRING TO ALL LIGHT FIXTURES IN THIS SPACE. LOW VOLTAGE SWITCHES SHALL HAVE ON/OFF/RAISE/LOWER. SEE ARCHITECTURAL DRAWINGS FOR FIXTURES HEIGHTS.

② PROVIDE AND INSTALL A LIGHTING CONTROL PANEL. THE LOW VOLTAGE SWITCHES AND OCCUPANCY SENSORS IN THE COMMON AREA SHALL BE CONNECTED TO THE LIGHTING CONTROL PANEL. VERIFY WITH OWNER PROGRAMMING TIMES AND REQUIREMENTS. THE EXTERIOR LIGHTS SHALL BE CONTROLLED BY THE LIGHTING CONTROL PANEL VIA A BUILDING MOUNTED PHOTOCELL AND TIME OF DAY.



1 OFFICE BUILDING FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

STAMPS

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
OFFICE BUILDING FLOOR PLAN - LIGHTING

Revision

Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: TAS
Checked By: TDA
DATE: JULY 29, 2022

E1.00

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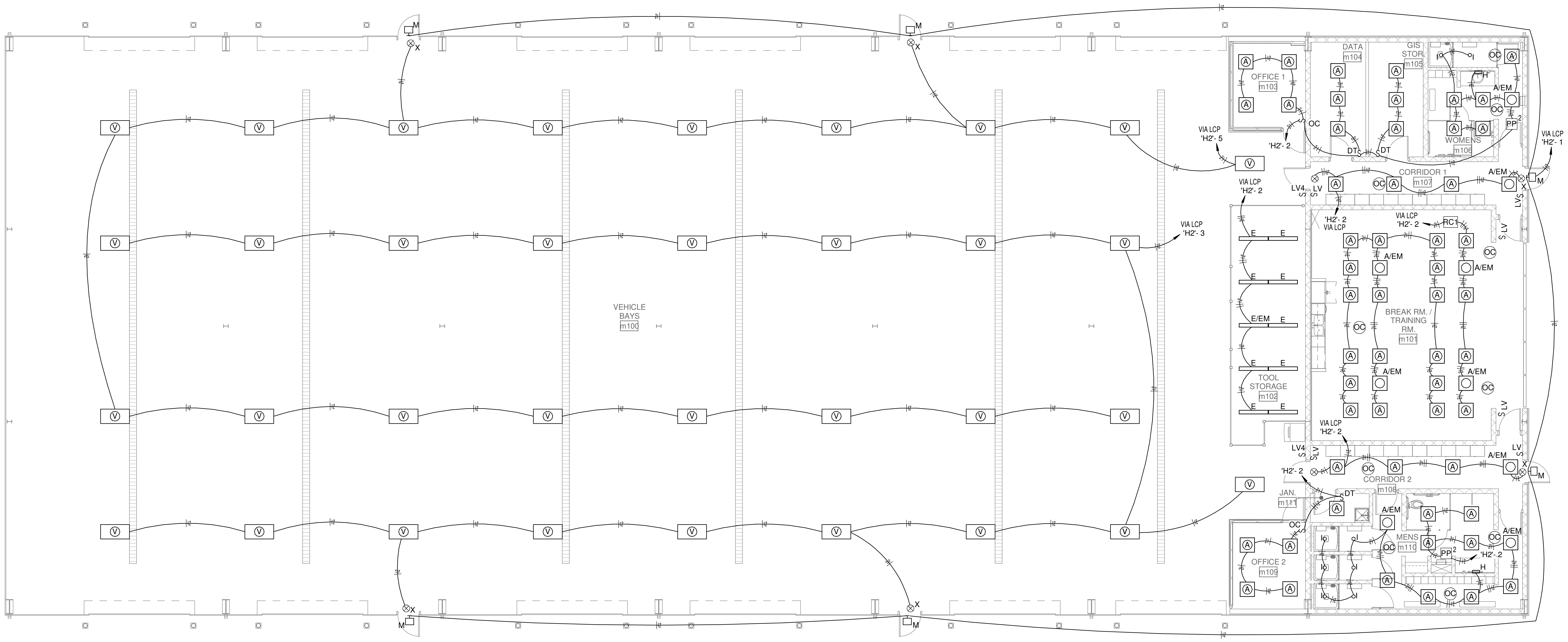
LIGHTING KEYED NOTES

① PROVIDE AND INSTALL 0-10V DIMMING WIRING TO ALL LIGHT FIXTURES IN THIS SPACE. LOW VOLTAGE SWITCHES SHALL HAVE ON/OFF/RAISE/LOWER. SEE ARCHITECTURAL DRAWINGS FOR FIXTURES HEIGHTS.

② PROVIDE AND INSTALL A LIGHTING CONTROL PANEL. THE LOW VOLTAGE SWITCHES AND OCCUPANCY SENSORS IN THE COMMON AREA SHALL BE CONNECTED TO THE LIGHTING CONTROL PANEL. VERIFY WITH OWNER PROGRAMMING TIMES AND REQUIREMENTS. THE EXTERIOR LIGHTS SHALL BE CONTROLLED BY THE LIGHTING CONTROL PANEL VIA A BUILDING MOUNTED PHOTOCELL AND TIME OF DAY.



① MAINTENENCE BLDG. FLOOR PLAN - LIGHTING

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

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
MAINTENANCE BLDG. FLOOR PLAN - LIGHTING

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: TAS
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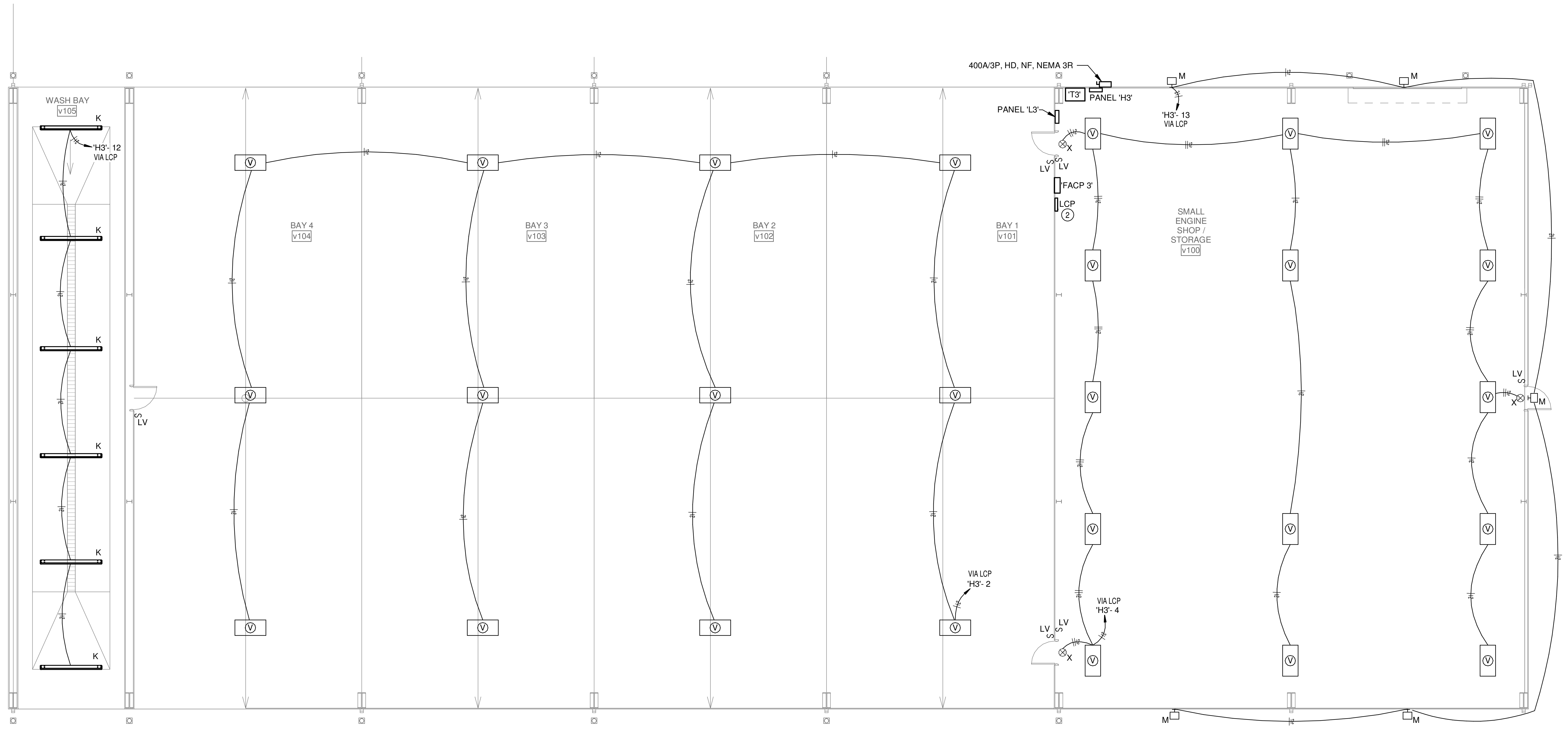
DATE: JULY 29, 2022

E1.01

7/29/2022 4:40:14 PM

LIGHTING KEYED NOTES

①	PROVIDE AND INSTALL 0-10V DIMMING WIRING TO ALL LIGHT FIXTURES IN THIS SPACE. LOW VOLTAGE SWITCHES SHALL HAVE ON/OFF/RAISE/LOWER. SEE ARCHITECTURAL DRAWINGS FOR FIXTURES HEIGHTS.
②	PROVIDE AND INSTALL A LIGHTING CONTROL PANEL. THE LOW VOLTAGE SWITCHES AND OCCUPANCY SENSORS IN THE COMMON AREA SHALL BE CONNECTED TO THE LIGHTING CONTROL PANEL. VERIFY WITH OWNER PROGRAMMING TIMES AND REQUIREMENTS. THE EXTERIOR LIGHTS SHALL BE CONTROLLED BY THE LIGHTING CONTROL PANEL VIA A BUILDING MOUNTED PHOTOCELL AND TIME OF DAY.



① VEHICLE STORAGE BLDG. FLOOR PLAN - LIGHTING

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

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
VEHICLE STORAGE BLDG. FLOOR PLAN - LIGHTING

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: TAS Checked By: TDA

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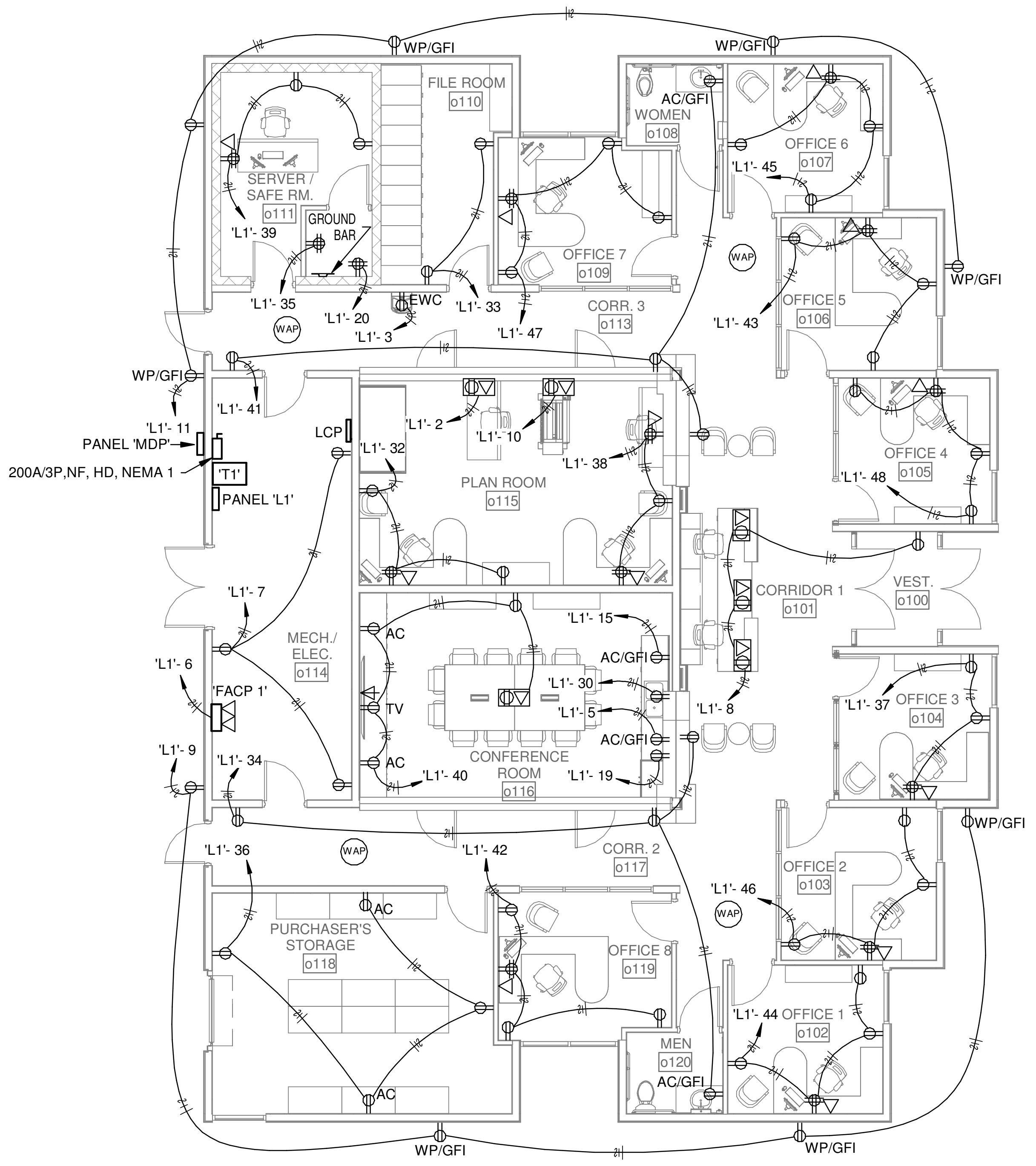

N 1 OFFICE BUILDING FLOOR PLAN - POWER

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

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ARKANSAS ENGINEER REGISTRATION

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
OFFICE BUILDING FLOOR PLAN - POWER

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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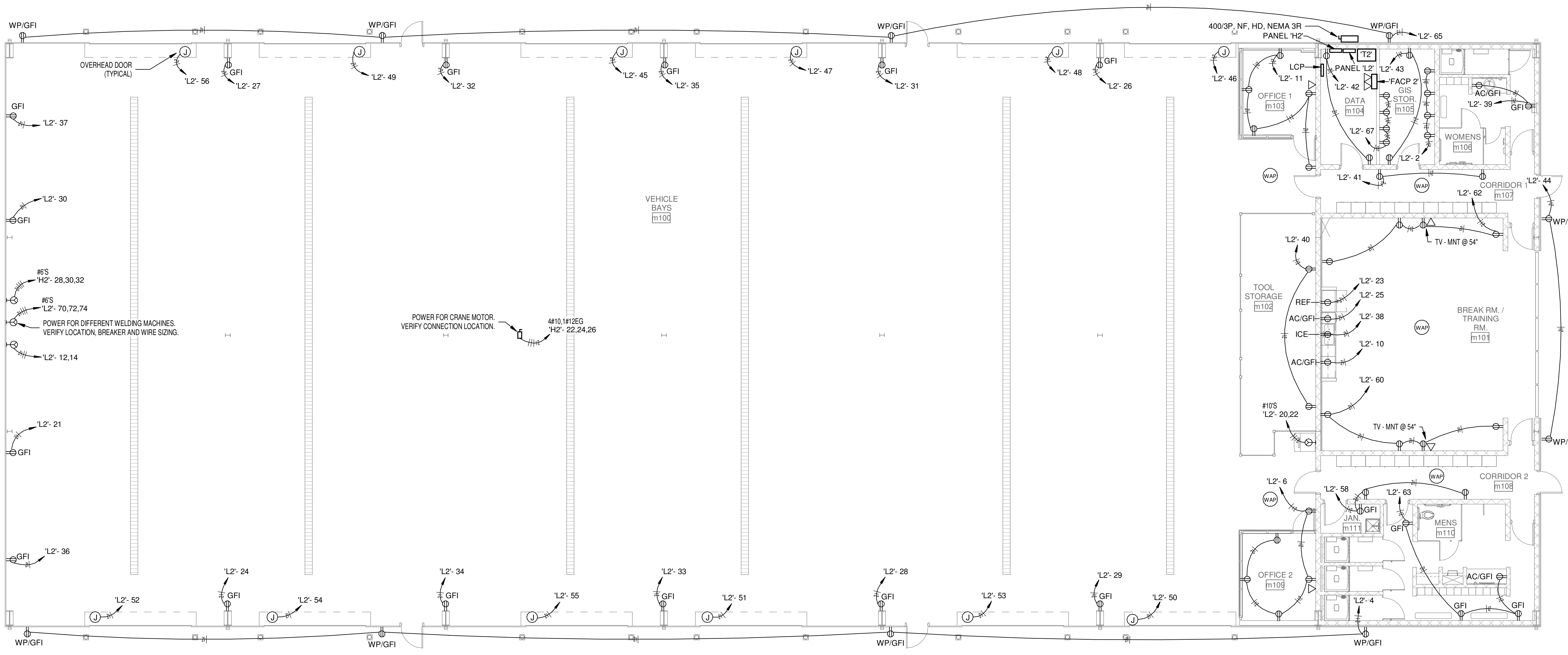
7/29/2022 4:40:18 PM



POWER FOR DIFFERENT WELDING MACHINES.
VERIFY LOCATION, BREAKER AND WIRE SIZING.

POWER FOR CRANE MOTOR.
VERIFY CONNECTION LOCATION.

1 MAINTENENCE BLDG. FLOOR PLAN - POWER

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

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

MAINTENANCE BLDG. FLOOR PLAN - POWER

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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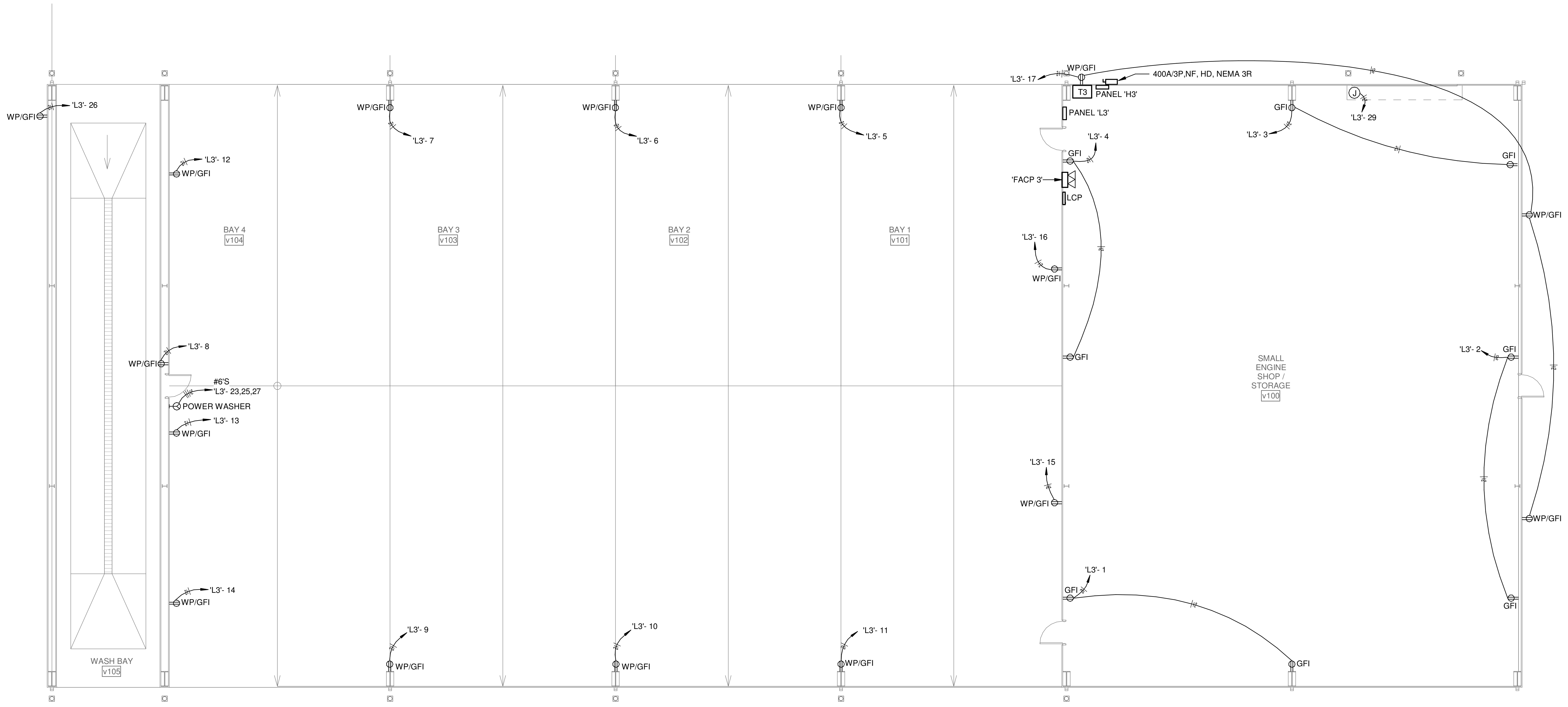

1 VEHICLE STORAGE BLDG. FLOOR PLAN - POWER

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

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CITY OF BATESVILLE
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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
VEHICLE STORAGE BLDG. FLOOR PLAN - POWER

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: TAS
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E1.05

7/29/2022 4:40:24 PM

SYSTEMS KEYED NOTES

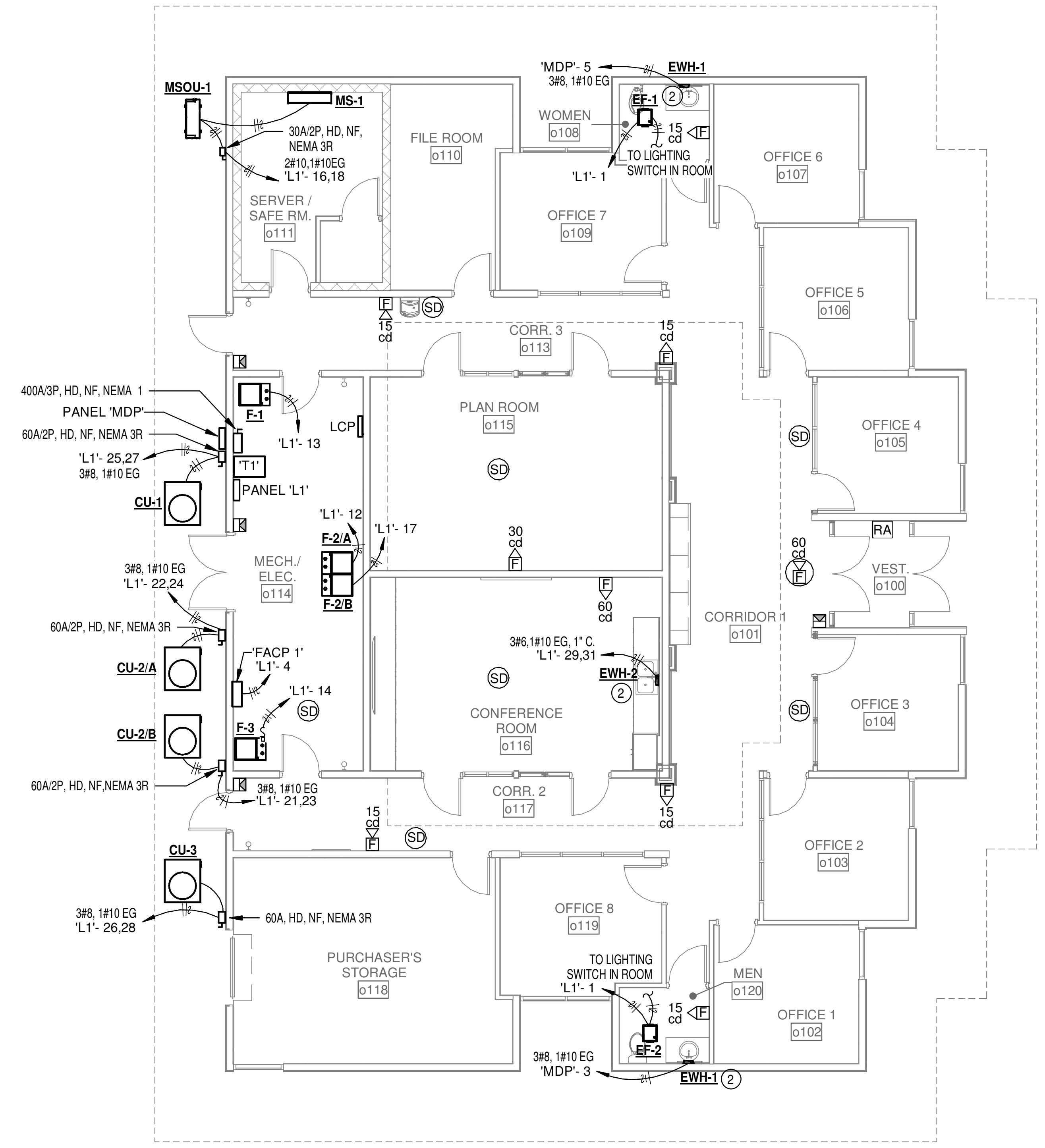
① 480V/3P COMBO STARTER DISCONNECT SIZE 0 WITH HOA SWITCH. VERIFY VOLTAGE FOR TYPICAL.

② DISCONNECT PROVIDED BY DIVISION 22.

③ VERIFY LOCATION AND SIZING OF DISCONNECT, WIRE AND BREAKER OF OWNER PROVIDED AIR COMPRESSOR.

④ DISCONNECT PROVIDED BY DIVISION 23.

⑤ PROVIDE AND INSTALL A CONTROL TRANSFORMER AND RELAY/CONTACTS AS NEEDED TO INTERLOCK THE CARBON MONIXIDE DETECTION SYSTEM SO ALL THE EXHAUST FANS, LOUVERS, AND OVERHEAD DOORS SHALL TURN ON AND OPEN. COORDINATE AND VERIFY ALL INSTALLATION REQUIREMENTS WITH HVAC CONTRACTOR.



① OFFICE BUILDING FLOOR PLAN - SYSTEMS

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

STAMPS

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

OFFICE BUILDING FLOOR PLAN - SYSTEMS

Revision	
Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

Drawn By: TAS **Checked By:** TDA

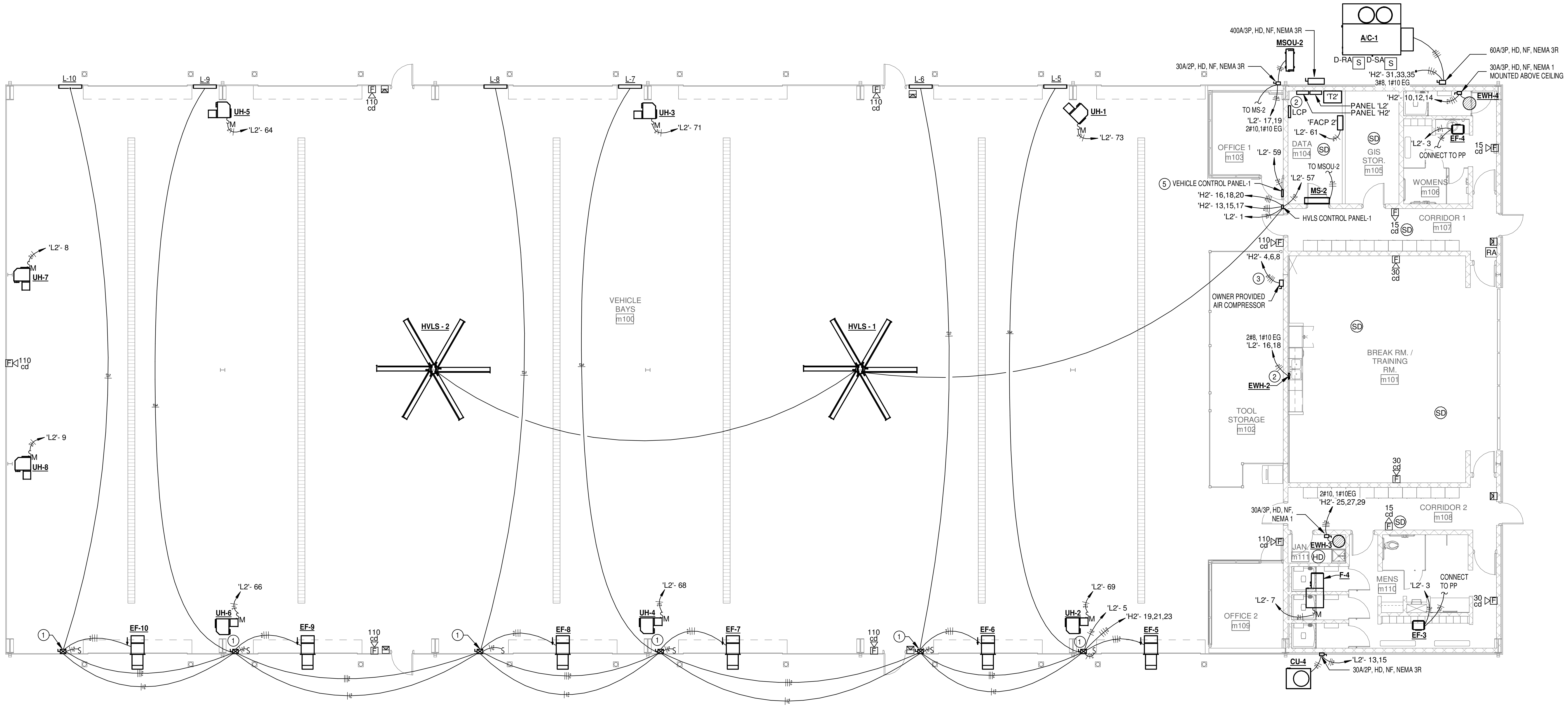
DATE: JULY 29, 2022

E1.06

7/29/2022 4:40:27 PM

SYSTEMS KEYED NOTES

①	480V/3P COMBO STARTER DISCONNECT SIZE 0 WITH HOA SWITCH. VERIFY VOLTAGE FOR TYPICAL.
②	DISCONNECT PROVIDED BY DIVISION 22.
③	VERIFY LOCATION AND SIZING OF DISCONNECT, WIRE AND BREAKER OF OWNER PROVIDED AIR COMPRESSOR.
④	DISCONNECT PROVIDED BY DIVISION 23.
⑤	PROVIDE AND INSTALL A CONTROL TRANSFORMER AND RELAY/CONTACTS AS NEEDED TO INTERLOCK THE CARBON MONIXIDE DETECTION SYSTEM SO ALL THE EXHAUST FANS, LOUVERS, AND OVERHEAD DOORS SHALL TURN ON AND OPEN. COORDINATE AND VERIFY ALL INSTALLATION REQUIREMENTS WITH HVAC CONTRACTOR.



1 MAINTENENCE BLDG. FLOOR PLAN - SYSTEMS

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

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

MAINTENANCE BLDG. FLOOR PLAN - SYSTEMS

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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DATE: JULY 29, 2022

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7/29/2022 4:40:30 PM

SYSTEMS KEYED NOTES

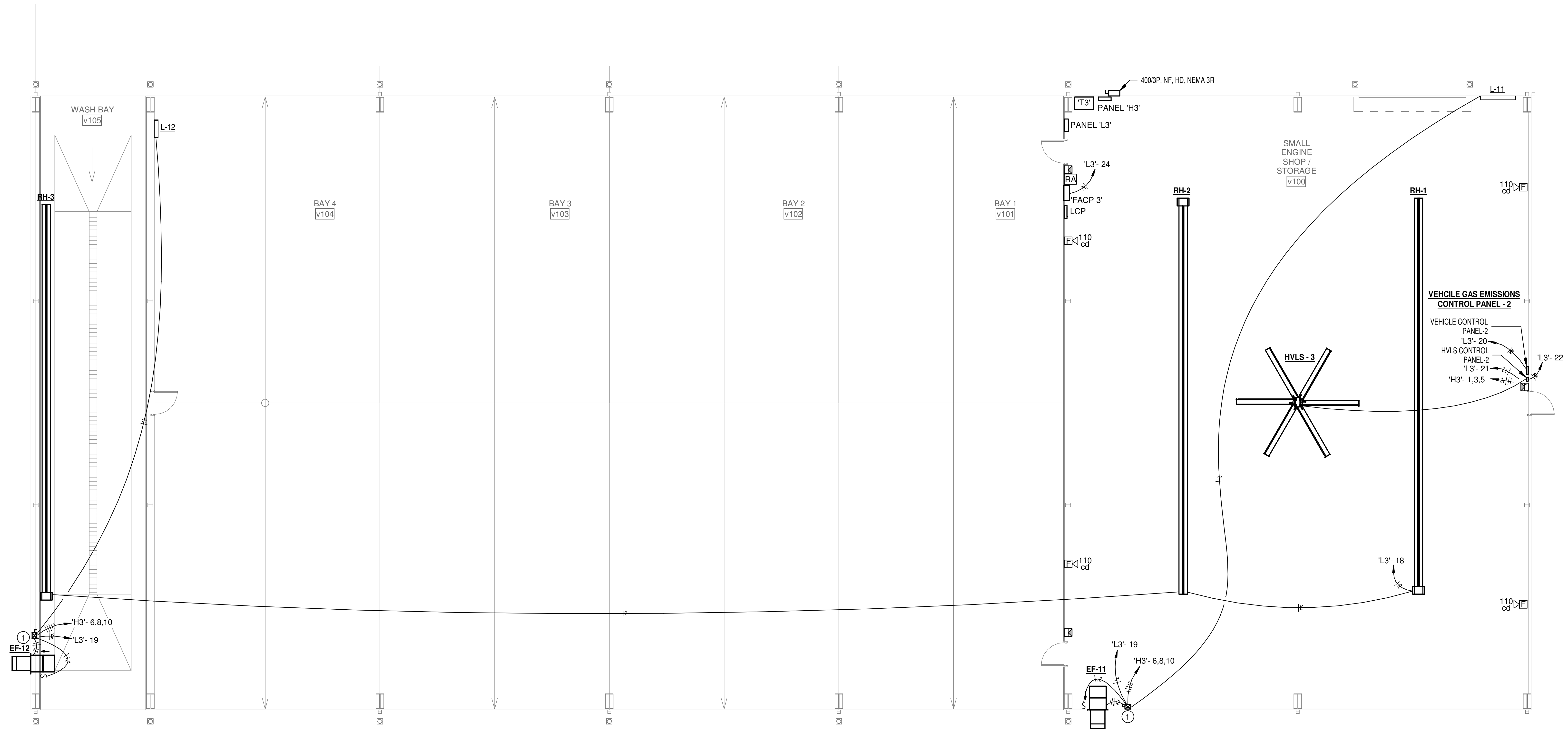
① 480V/3P COMBO STARTER DISCONNECT SIZE 0 WITH HOA SWITCH. VERIFY VOLTAGE FOR TYPICAL.

② DISCONNECT PROVIDED BY DIVISION 22.

③ VERIFY LOCATION AND SIZING OF DISCONNECT, WIRE AND BREAKER OF OWNER PROVIDED AIR COMPRESSOR.

④ DISCONNECT PROVIDED BY DIVISION 23.

⑤ PROVIDE AND INSTALL A CONTROL TRANSFORMER AND RELAY/CONTACTS AS NEEDED TO INTERLOCK THE CARBON MONIXIDE DETECTION SYSTEM SO ALL THE EXHAUST FANS, LOUVERS, AND OVERHEAD DOORS SHALL TURN ON AND OPEN. COORDINATE AND VERIFY ALL INSTALLATION REQUIREMENTS WITH HVAC CONTRACTOR.



N ① **VEHICLE STORAGE BLDG. FLOOR PLAN - SYSTEMS**
SCALE: 1/8" = 1'-0"

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PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
VEHICLE STORAGE BLDG. FLOOR PLAN - SYSTEMS

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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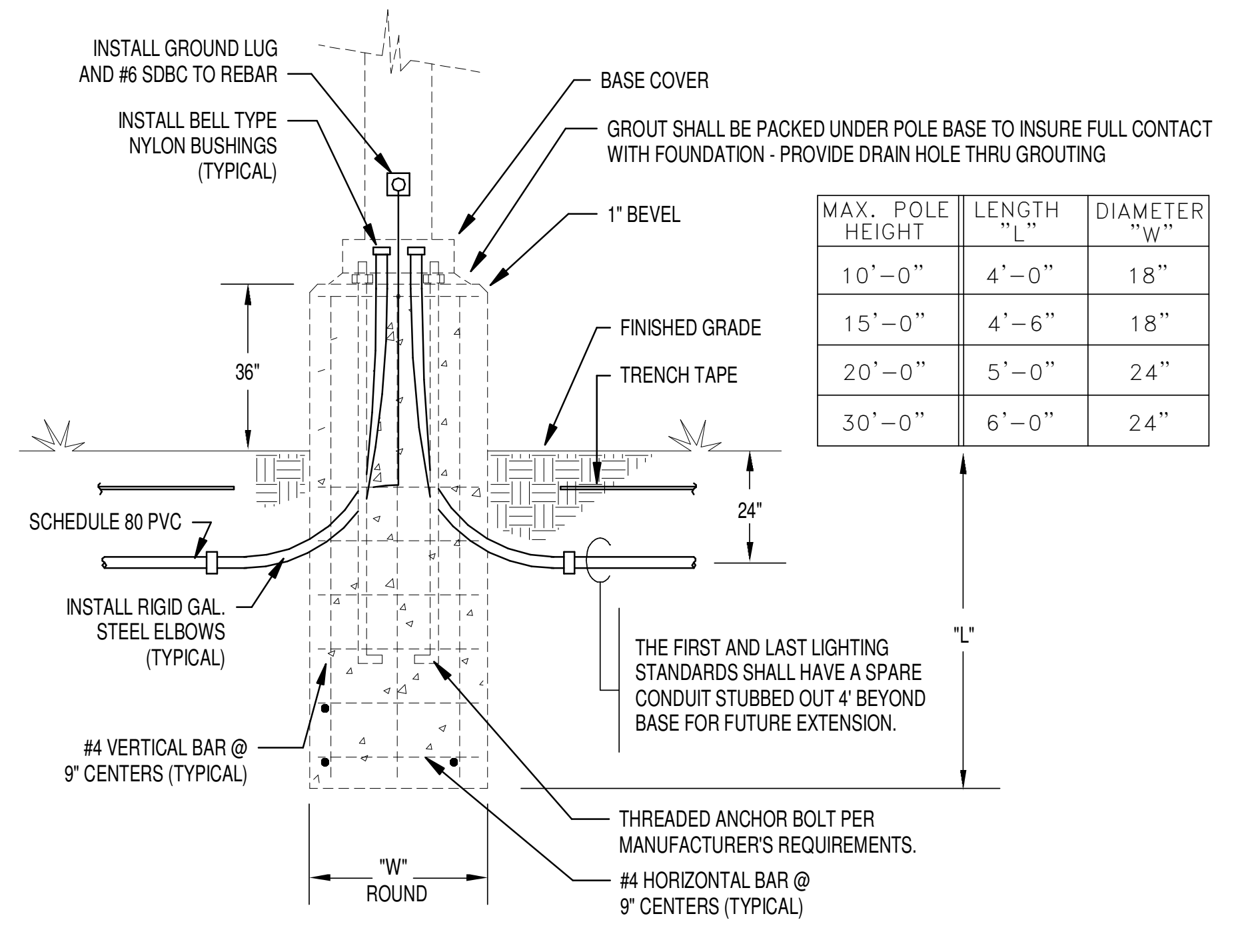
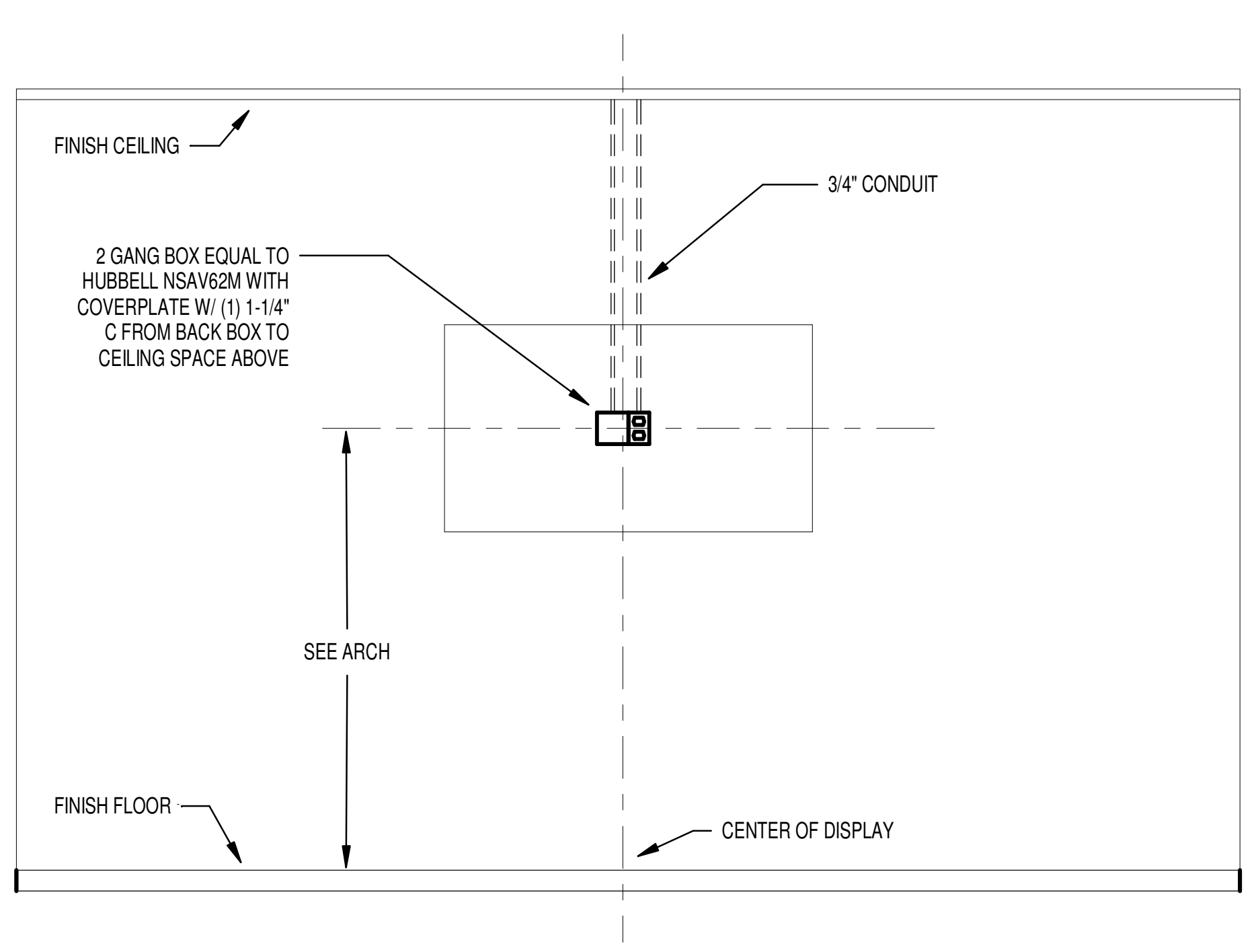

INSTALL GROUND LUG AND #6 SDBC TO REBAR
INSTALL BELL TYPE NYLON BUSHINGS (TYPICAL)
BASE COVER
GROUT SHALL BE PACKED UNDER POLE BASE TO INSURE FULL CONTACT WITH FOUNDATION - PROVIDE DRAIN HOLE THRU GROUTING
1" BEVEL
36"
FINISHED GRADE
TRENCH TAPE
24"
SCHEDULE 80 PVC
INSTALL RIGID GAL. STEEL ELBOWS (TYPICAL)
"L"
#4 VERTICAL BAR @ 9" CENTERS (TYPICAL)
THREADED ANCHOR BOLT PER MANUFACTURER'S REQUIREMENTS.
"W" ROUND
#4 HORIZONTAL BAR @ 9" CENTERS (TYPICAL)

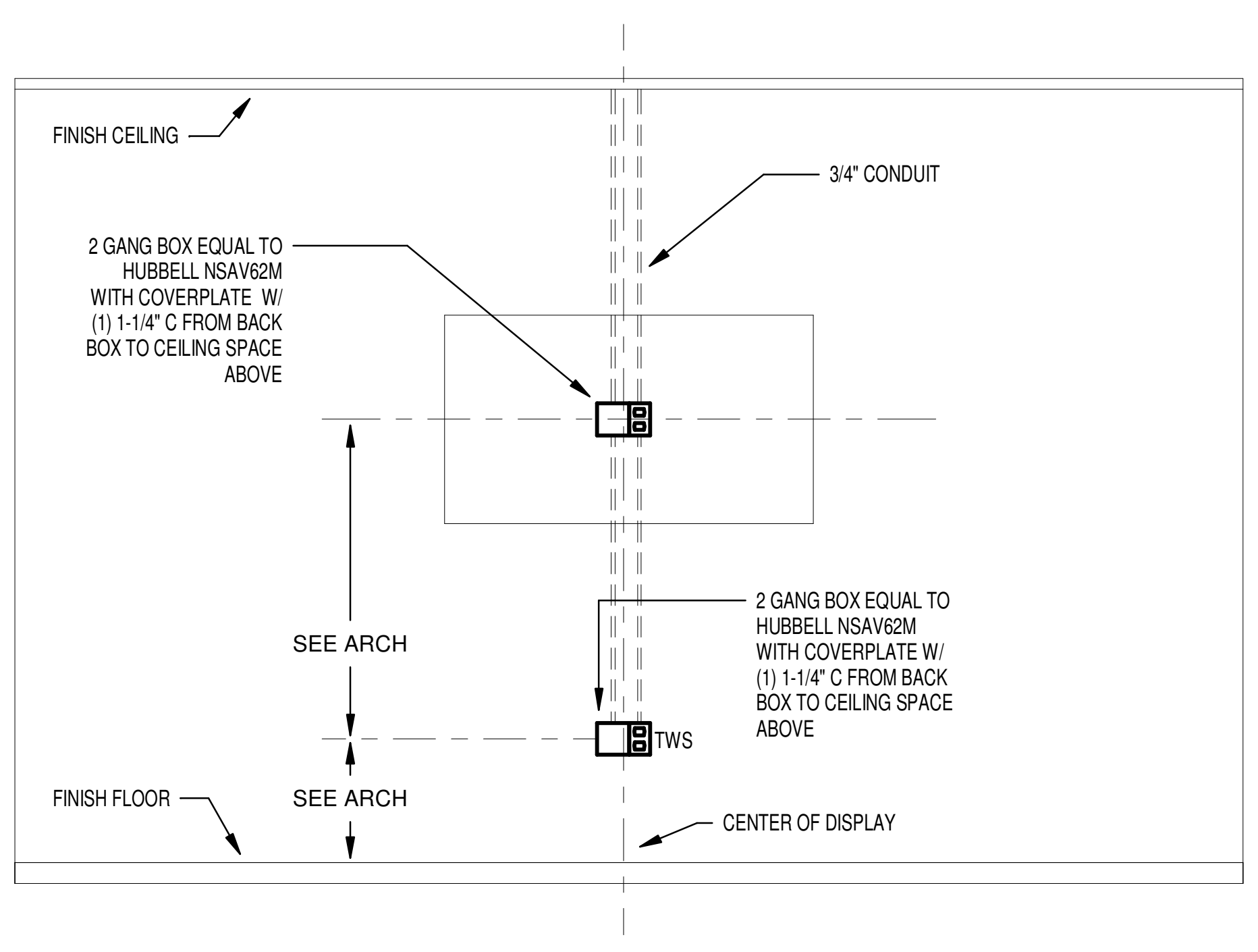
THE FIRST AND LAST LIGHTING STANDARDS SHALL HAVE A SPARE CONDUIT STUBBED OUT 4' BEYOND BASE FOR FUTURE EXTENSION.

MAX. POLE HEIGHT	LENGTH "L"	DIAMETER "W"
10'–0"	4'–0"	18"
15'–0"	4'–6"	18"
20'–0"	5'–0"	24"
30'–0"	6'–0"	24"

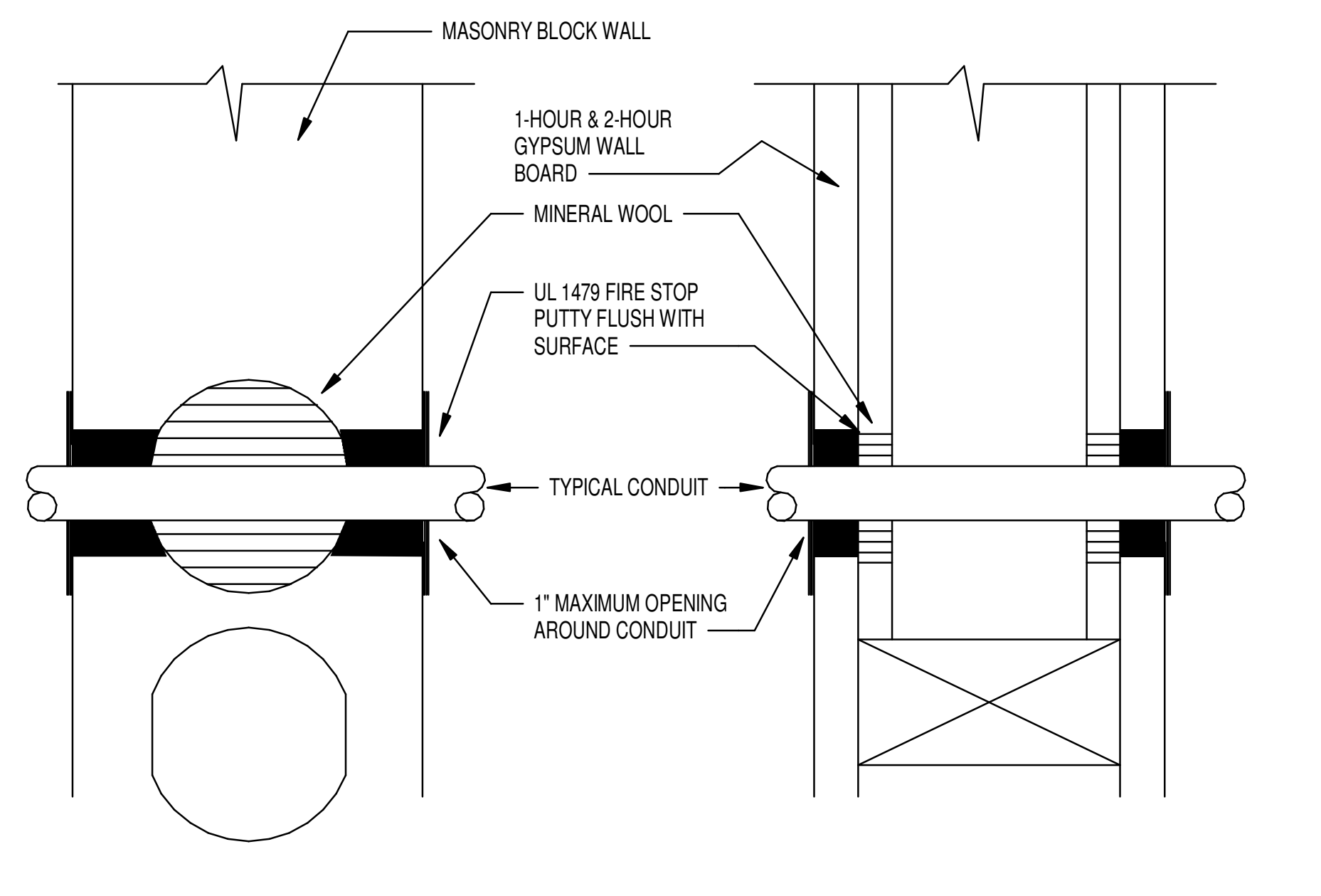
① LIGHTING POLE BASE DETAIL
NOT TO SCALE


FINISH CEILING
3/4" CONDUIT
2 GANG BOX EQUAL TO HUBBELL NSAV62M WITH COVERPLATE W/ (1) 1-1/4" C FROM BACK BOX TO CEILING SPACE ABOVE
SEE ARCH
FINISH FLOOR
CENTER OF DISPLAY

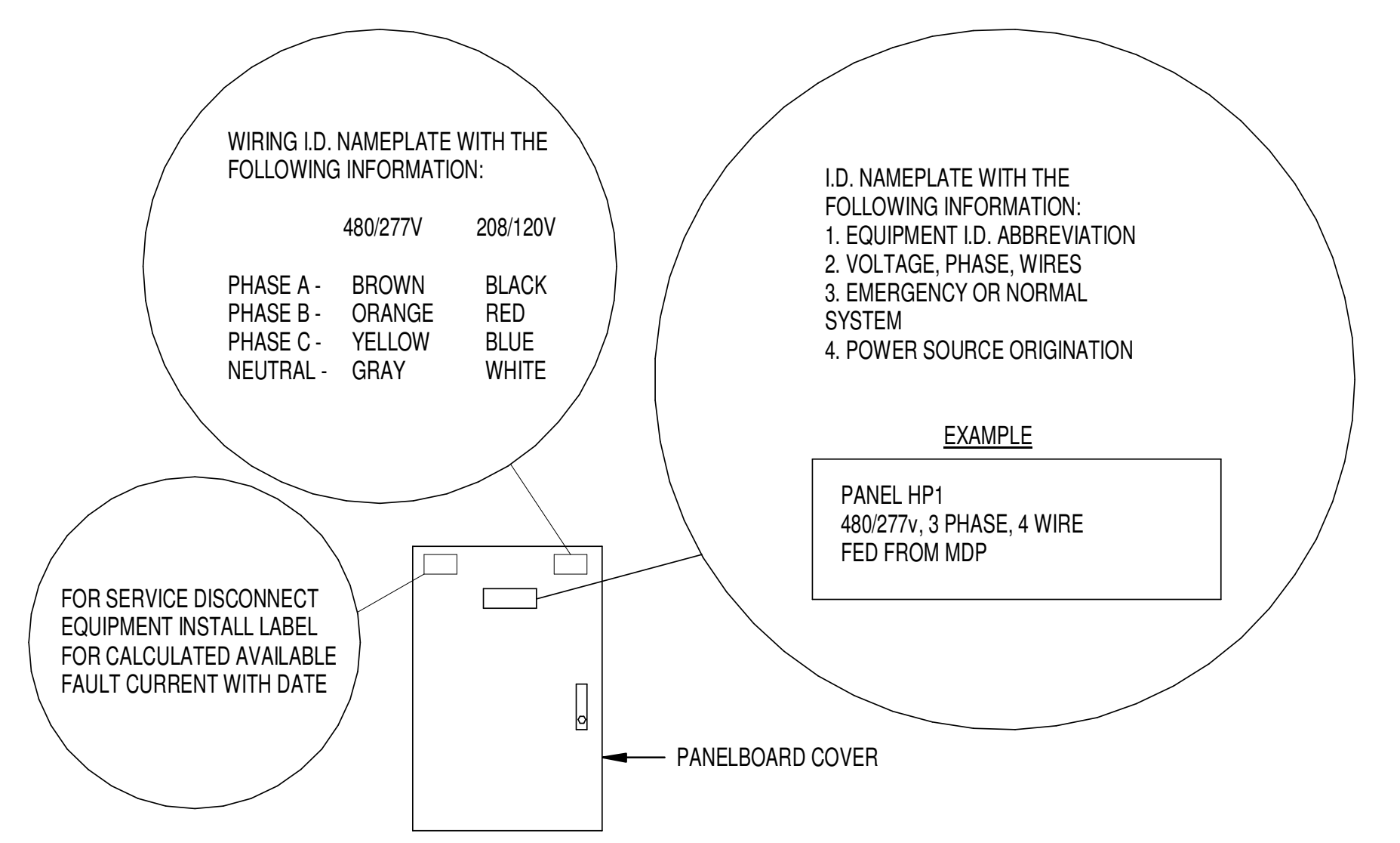
② TV BACK BOX DETAIL HIGH
NOT TO SCALE


FINISH CEILING
3/4" CONDUIT
2 GANG BOX EQUAL TO HUBBELL NSAV62M WITH COVERPLATE W/ (1) 1-1/4" C FROM BACK BOX TO CEILING SPACE ABOVE
SEE ARCH
2 GANG BOX EQUAL TO HUBBELL NSAV62M WITH COVERPLATE W/ (1) 1-1/4" C FROM BACK BOX TO CEILING SPACE ABOVE
TWS
SEE ARCH
FINISH FLOOR
CENTER OF DISPLAY

③ TV BACK BOX DETAIL HIGH AND LOW
NOT TO SCALE


MASONRY BLOCK WALL
1-HOUR & 2-HOUR GYPSUM WALL BOARD
MINERAL WOOL
UL 1479 FIRE STOP PUTTY FLUSH WITH SURFACE
TYPICAL CONDUIT
1" MAXIMUM OPENING AROUND CONDUIT

④ FIRE WALL PENETRATION DETAIL
NOT TO SCALE


WIRING I.D. NAMEPLATE WITH THE FOLLOWING INFORMATION:
I.D. NAMEPLATE WITH THE FOLLOWING INFORMATION:
1. EQUIPMENT I.D. ABBREVIATION
2. VOLTAGE, PHASE, WIRES
3. EMERGENCY OR NORMAL SYSTEM
4. POWER SOURCE ORIGINATION
EXAMPLE
PANEL HP1
480/277v, 3 PHASE, 4 WIRE
FED FROM MDP
FOR SERVICE DISCONNECT EQUIPMENT INSTALL LABEL FOR CALCULATED AVAILABLE FAULT CURRENT WITH DATE
PANELBOARD COVER

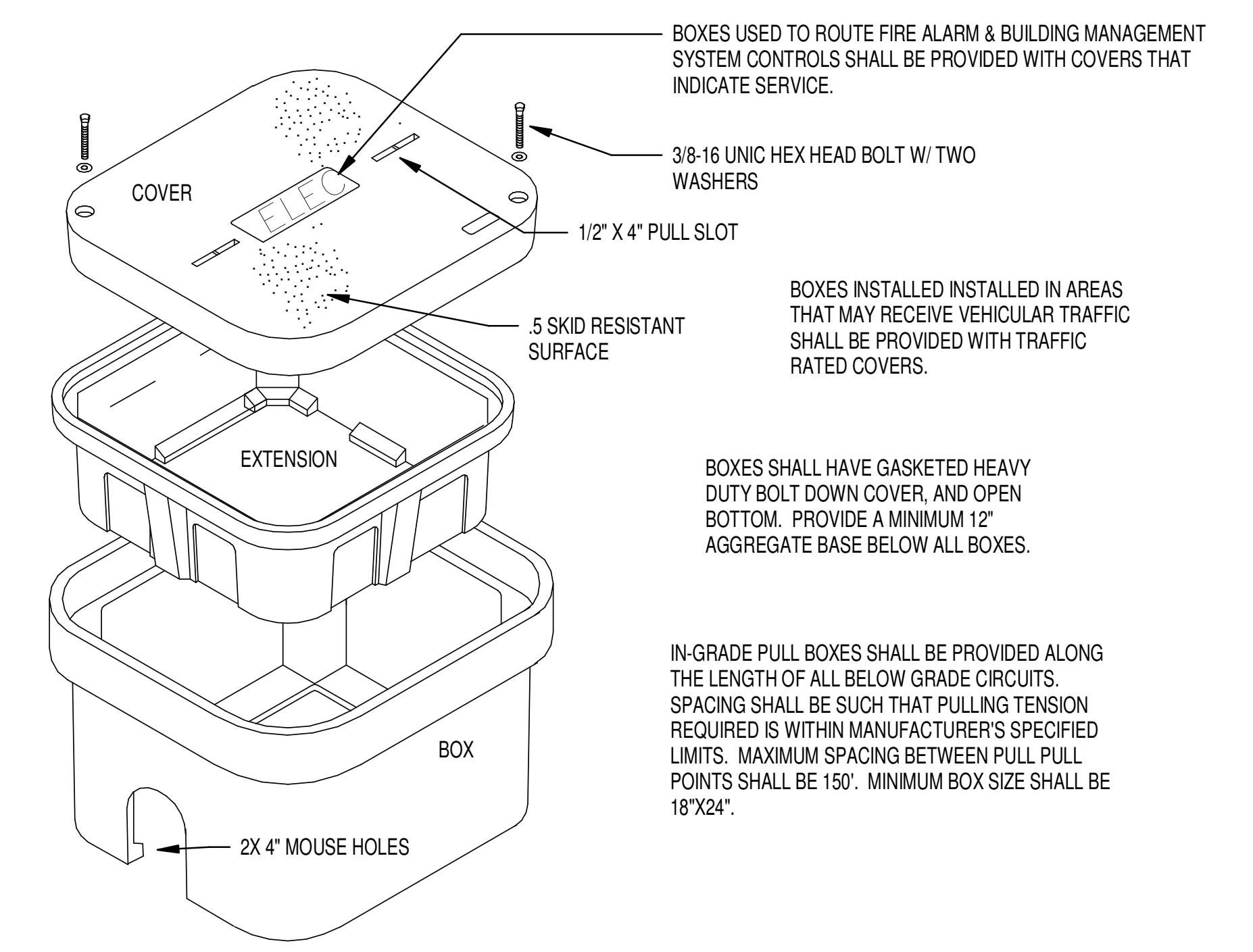
	480/277V	208/120V
PHASE A -	BROWN	BLACK
PHASE B -	ORANGE	RED
PHASE C -	YELLOW	BLUE
NEUTRAL -	GRAY	WHITE

PANEL IDENTIFICATION NOTES:

1. SIMILAR FOR DISCONNECTS, MOTOR CONTROLLERS, TRANSFORMERS, LIGHTING CONTROL PANEL, AUTOMATIC TRANSFER SWITCHES, ETC.

2. PROVIDE PANEL IDENTIFICATION FOR ALL NEW PANELS AND FOR ALL EXISTING REWORKED PANELS THAT DO NOT CURRENTLY HAVE IDENTIFICATION TAGS IN PLACE.

⑤ PANEL & SERVICE ID DETAIL
NOT TO SCALE

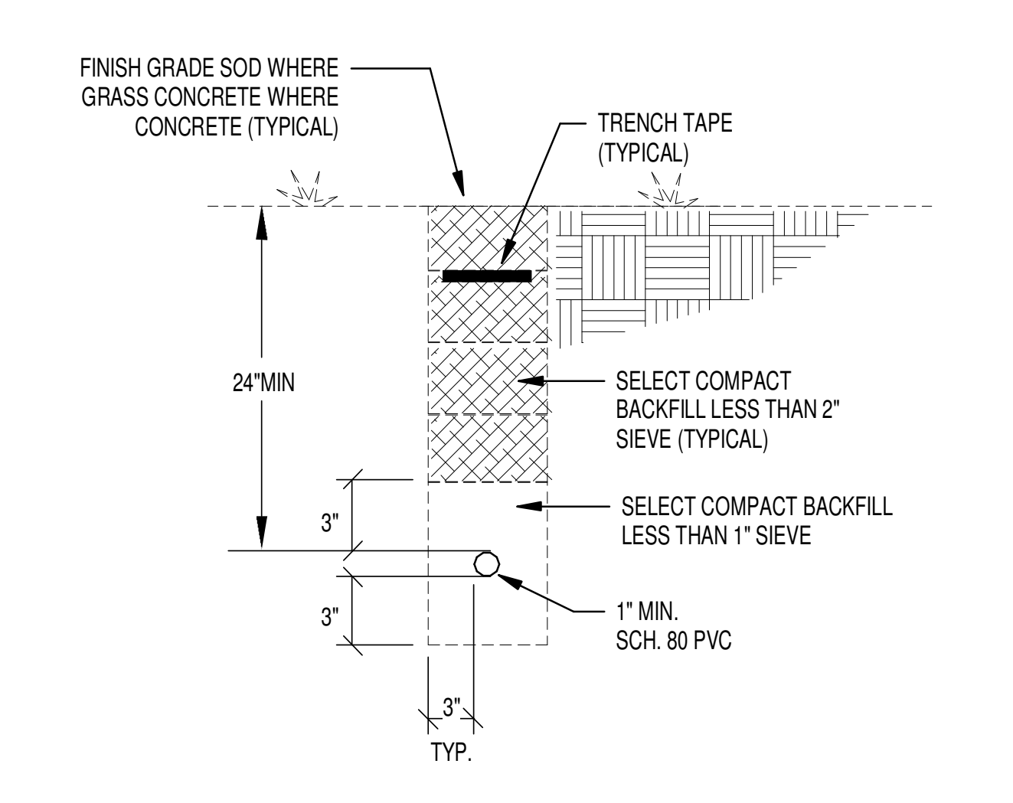

COVER
ELEC
BOXES USED TO ROUTE FIRE ALARM & BUILDING MANAGEMENT SYSTEM CONTROLS SHALL BE PROVIDED WITH COVERS THAT INDICATE SERVICE.
3/8-16 UNIC HEX HEAD BOLT W/ TWO WASHERS
1/2" X 4" PULL SLOT
.5 SKID RESISTANT SURFACE
EXTENSION
BOX
2X 4" MOUSE HOLES

BOXES INSTALLED INSTALLED IN AREAS THAT MAY RECEIVE VEHICULAR TRAFFIC SHALL BE PROVIDED WITH TRAFFIC RATED COVERS.

BOXES SHALL HAVE GASKETED HEAVY DUTY BOLT DOWN COVER, AND OPEN BOTTOM. PROVIDE A MINIMUM 12" AGGREGATE BASE BELOW ALL BOXES.

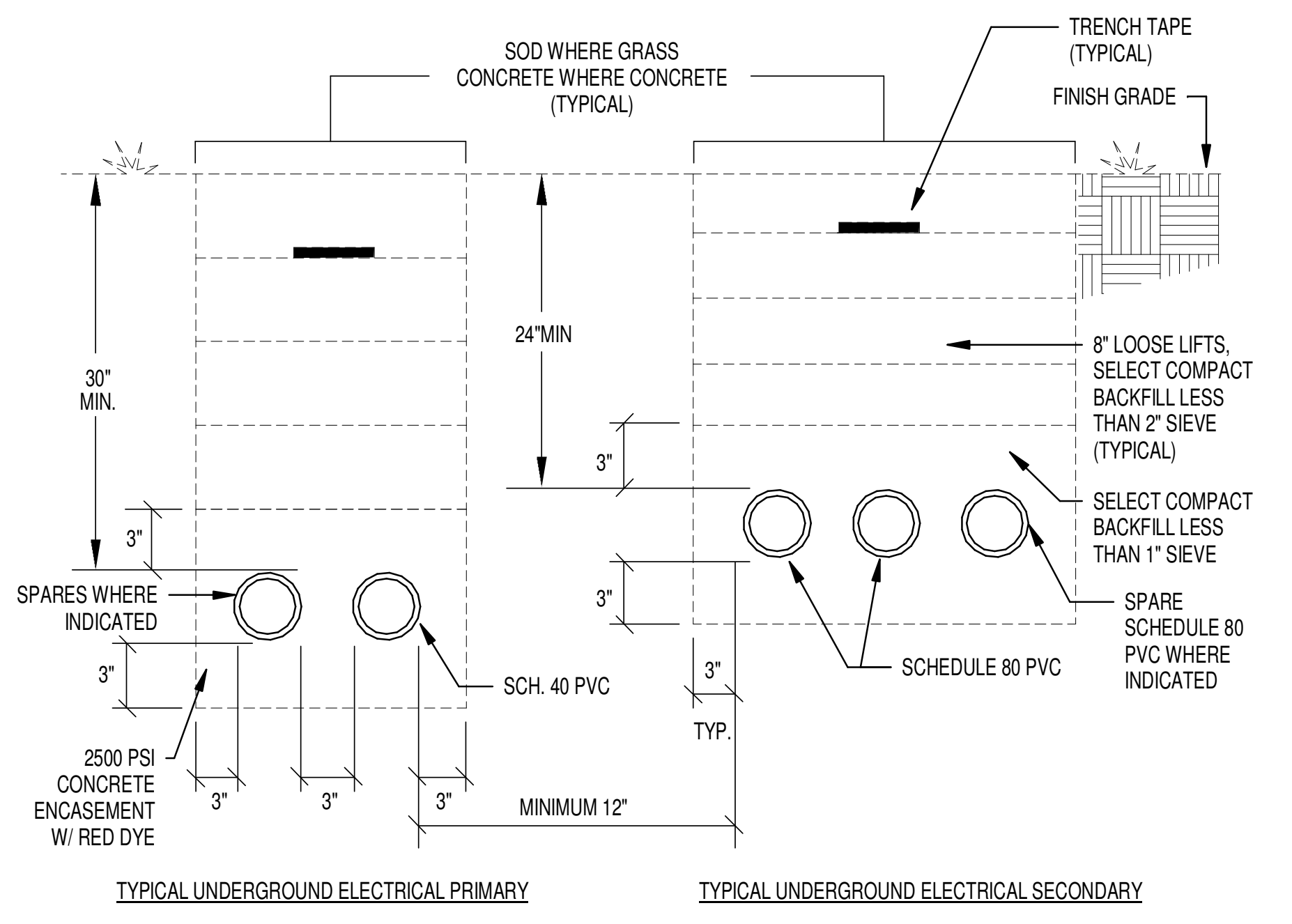
IN-GRADE PULL BOXES SHALL BE PROVIDED ALONG THE LENGTH OF ALL BELOW GRADE CIRCUITS. SPACING SHALL BE SUCH THAT PULLING TENSION REQUIRED IS WITHIN MANUFACTURER'S SPECIFIED LIMITS. MAXIMUM SPACING BETWEEN PULL PULL POINTS SHALL BE 150'. MINIMUM BOX SIZE SHALL BE 18"X24".

⑥ IN-GRADE PULL BOX DETAIL
NOT TO SCALE

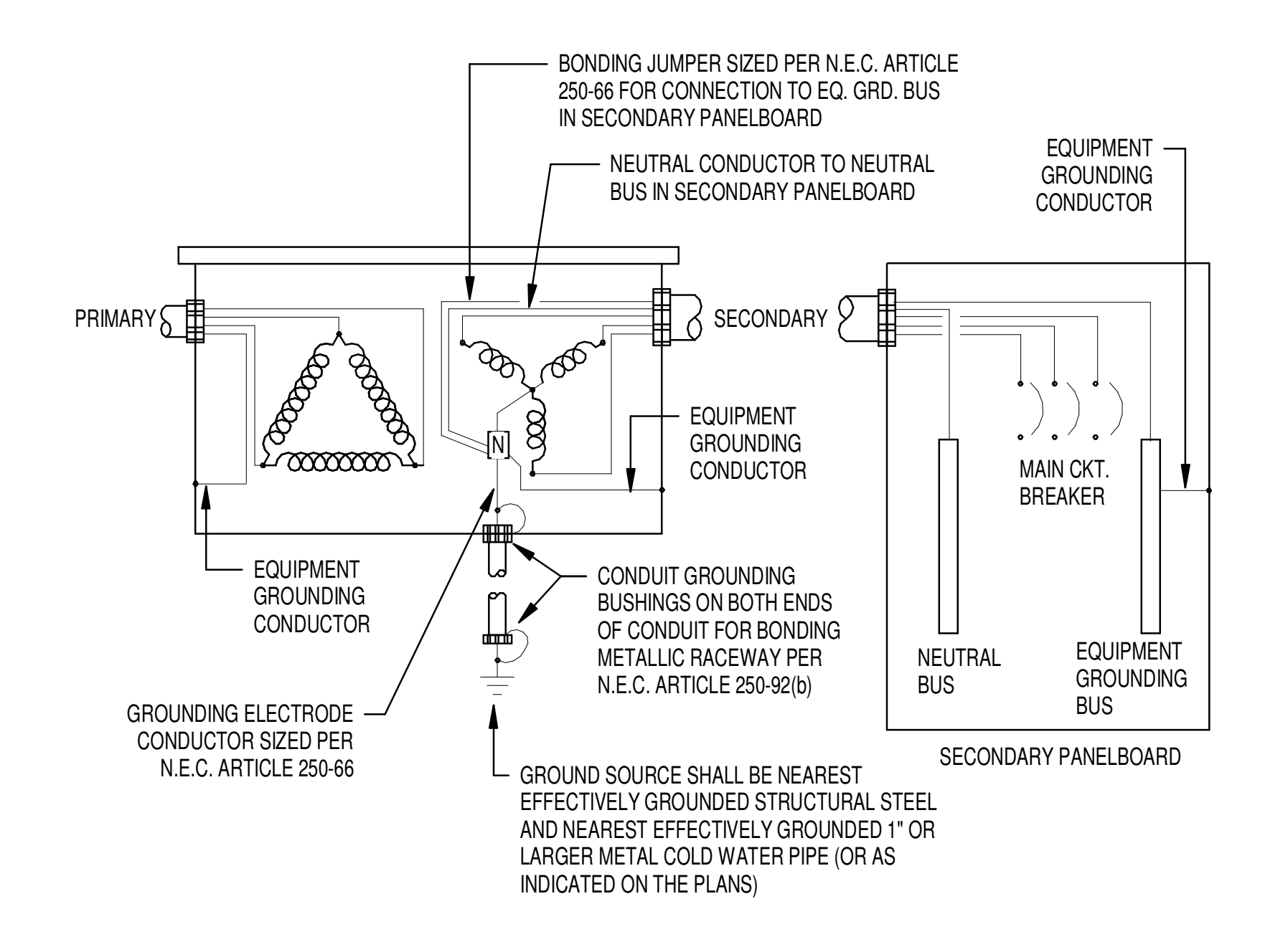

FINISH GRADE SOD WHERE GRASS CONCRETE WHERE CONCRETE (TYPICAL)
TRENCH TAPE (TYPICAL)
24"MIN
SELECT COMPACT BACKFILL LESS THAN 2" SIEVE (TYPICAL)
3"
SELECT COMPACT BACKFILL LESS THAN 1" SIEVE
3"
1" MIN. SCH. 80 PVC
3"
TYP.

TYPICAL DITCHING DETAIL
600 VOLTS OR LESS

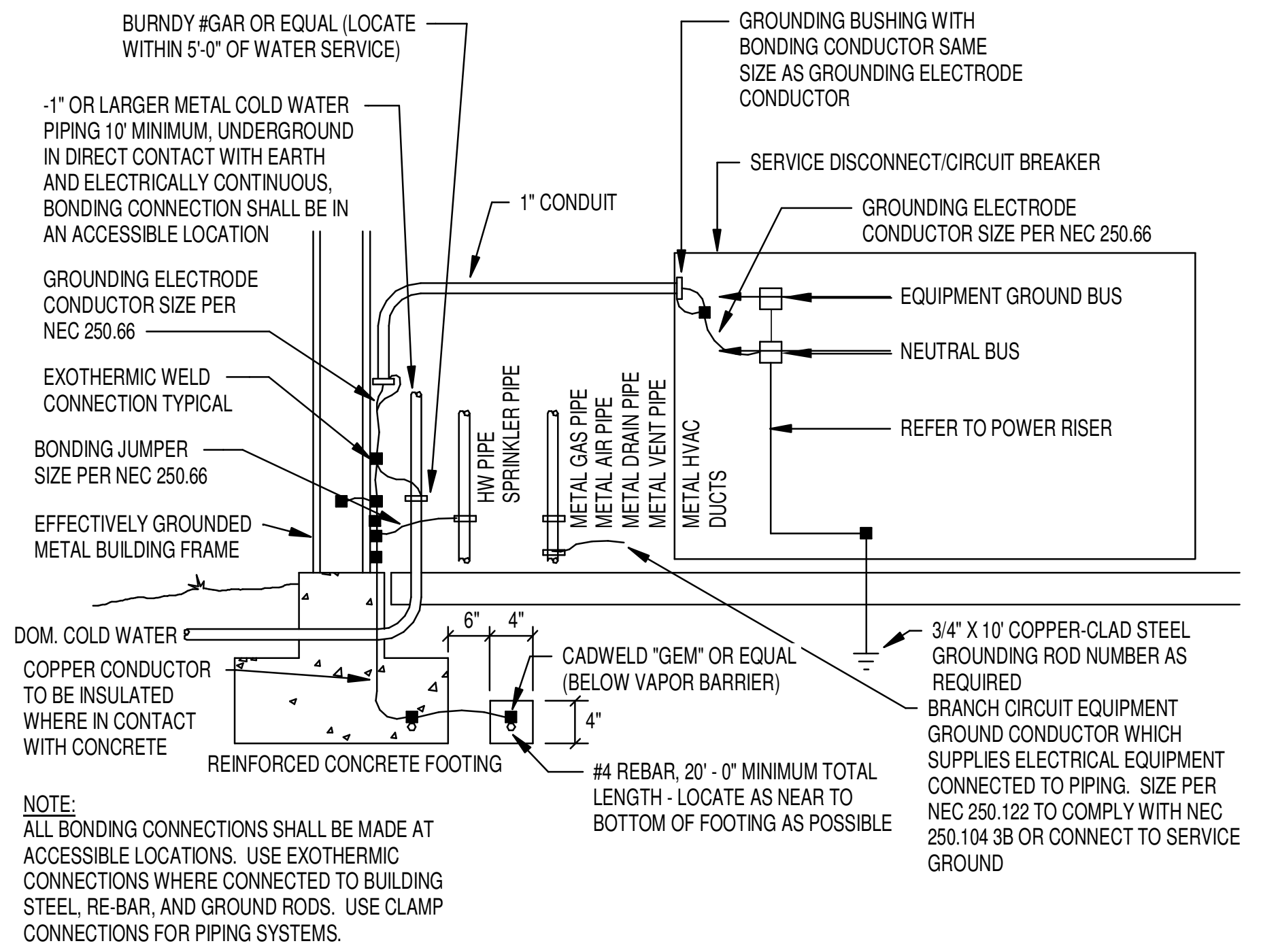
⑦ UNDERGROUND CONDUIT DETAIL
NOT TO SCALE


SOD WHERE GRASS CONCRETE WHERE CONCRETE (TYPICAL)
TRENCH TAPE (TYPICAL)
FINISH GRADE
30" MIN.
24"MIN
8" LOOSE LIFTS, SELECT COMPACT BACKFILL LESS THAN 2" SIEVE (TYPICAL)
3"
SELECT COMPACT BACKFILL LESS THAN 1" SIEVE
3"
SPARES WHERE INDICATED
3"
SCH. 40 PVC
SCHEDULE 80 PVC
SPARE SCHEDULE 80 PVC WHERE INDICATED
3"
TYP.
2500 PSI CONCRETE ENCASEMENT W/ RED DYE
3"
3"
3"
MINIMUM 12"
TYPICAL UNDERGROUND ELECTRICAL PRIMARY
TYPICAL UNDERGROUND ELECTRICAL SECONDARY

⑧ UNDERGROUND DUCT BANK DETAIL
NOT TO SCALE


BONDING JUMPER SIZED PER N.E.C. ARTICLE 250-66 FOR CONNECTION TO EQ. GRD. BUS IN SECONDARY PANELBOARD
NEUTRAL CONDUCTOR TO NEUTRAL BUS IN SECONDARY PANELBOARD
EQUIPMENT GROUNDING CONDUCTOR
PRIMARY
SECONDARY
N
EQUIPMENT GROUNDING CONDUCTOR
MAIN CKT. BREAKER
EQUIPMENT GROUNDING CONDUCTOR
CONDUIT GROUNDING BUSHINGS ON BOTH ENDS OF CONDUIT FOR BONDING METALLIC RACEWAY PER N.E.C. ARTICLE 250-92(b)
NEUTRAL BUS
EQUIPMENT GROUNDING BUS
GROUNDING ELECTRODE CONDUCTOR SIZED PER N.E.C. ARTICLE 250-66
SECONDARY PANELBOARD
GROUND SOURCE SHALL BE NEAREST EFFECTIVELY GROUNDED STRUCTURAL STEEL AND NEAREST EFFECTIVELY GROUNDED 1" OR LARGER METAL COLD WATER PIPE (OR AS INDICATED ON THE PLANS)

⑨ TRANSFORMER CONNECTION DETAIL
NOT TO SCALE

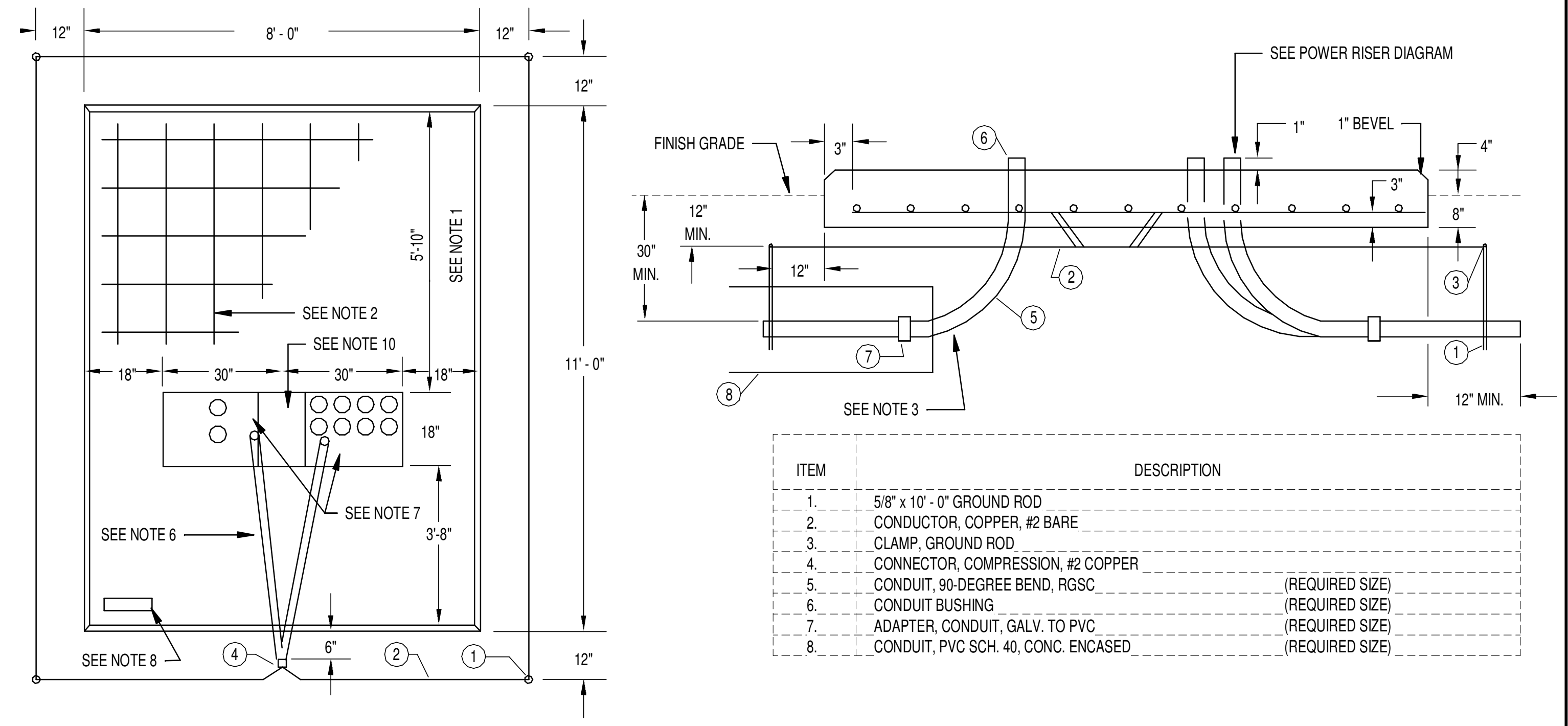

BURNDY #GAR OR EQUAL (LOCATE WITHIN 5'-0" OF WATER SERVICE)
-1" OR LARGER METAL COLD WATER PIPING 10' MINIMUM, UNDERGROUND IN DIRECT CONTACT WITH EARTH AND ELECTRICALLY CONTINUOUS, BONDING CONNECTION SHALL BE IN AN ACCESSIBLE LOCATION
GROUNDING ELECTRODE CONDUCTOR SIZE PER NEC 250.66
EXOTHERMIC WELD CONNECTION TYPICAL
BONDING JUMPER SIZE PER NEC 250.66
EFFECTIVELY GROUNDED METAL BUILDING FRAME
1" CONDUIT
HW PIPE
SPRINKLER PIPE
METAL GAS PIPE
METAL AIR PIPE
METAL DRAIN PIPE
METAL VENT PIPE
METAL HVAC DUCTS
GROUNDING BUSHING WITH BONDING CONDUCTOR SAME SIZE AS GROUNDING ELECTRODE CONDUCTOR
SERVICE DISCONNECT/CIRCUIT BREAKER
GROUNDING ELECTRODE CONDUCTOR SIZE PER NEC 250.66
EQUIPMENT GROUND BUS
NEUTRAL BUS
REFER TO POWER RISER
DOM. COLD WATER
COPPER CONDUCTOR TO BE INSULATED WHERE IN CONTACT WITH CONCRETE
6"
4"
CADWELD "GEM" OR EQUAL (BELOW VAPOR BARRIER)
4"
REINFORCED CONCRETE FOOTING
#4 REBAR, 20' - 0" MINIMUM TOTAL LENGTH - LOCATE AS NEAR TO BOTTOM OF FOOTING AS POSSIBLE
3/4" X 10' COPPER-CLAD STEEL GROUNDING ROD NUMBER AS REQUIRED
BRANCH CIRCUIT EQUIPMENT GROUND CONDUCTOR WHICH SUPPLIES ELECTRICAL EQUIPMENT CONNECTED TO PIPING. SIZE PER NEC 250.122 TO COMPLY WITH NEC 250.104 3B OR CONNECT TO SERVICE GROUND

NOTE:
ALL BONDING CONNECTIONS SHALL BE MADE AT ACCESSIBLE LOCATIONS. USE EXOTHERMIC CONNECTIONS WHERE CONNECTED TO BUILDING STEEL, RE-BAR, AND GROUND RODS. USE CLAMP CONNECTIONS FOR PIPING SYSTEMS.

⑩ SERVICE GROUNDING DETAIL
NOT TO SCALE

NOTE:

1. WHERE POSSIBLE, DO NOT PLACE CONDUIT UNDER THIS SECTION OF FOUNDATION.
2. REINFORCING: #4 BARS 12"C. BOTH WAYS.
3. WHEN INSTALLING CONDUIT, DISTURB GROUND IN FOUNDATION AREA AS LITTLE AS POSSIBLE. EXTEND CONDUIT 1" ABOVE FOUNDATION.
4. TOP OF FOUNDATION TO BE SMOOTH AND LEVEL. FINAL GRADE SHALL SLOPE AWAY FROM PAD.
5. CONCRETE SHALL BE 3500 PSI AT 28 DAYS AND 1:2:4 MIXTURE WITH 6 GAL. MAX. WATER CONTENT PER SACK OF CEMENT.
6. 1" CONDUIT UNDER PAD FOR GROUND WIRE.
7. LOCATE CONDUITS UNDER PRIMARY AND SECONDARY BUSHINGS.
8. TRANSFORMER LOCATION TAG SHALL BE ATTACHED TO PAD WITH CONCRETE NAILS OR SHEET METAL SCREWS.
9. TRANSFORMER PAD REQUIRES 3' CLEARANCE ON BACK AND SIDES AND 15' IN FRONT.
10. 18" MINIMUM BETWEEN PRIMARY AND SECONDARY CONDUITS.



ITEM	DESCRIPTION	
1.	5/8" x 10' - 0" GROUND ROD	
2.	CONDUCTOR, COPPER, #2 BARE	
3.	CLAMP, GROUND ROD	
4.	CONNECTOR, COMPRESSION, #2 COPPER	
5.	CONDUIT, 90-DEGREE BEND, RGSC	(REQUIRED SIZE)
6.	CONDUIT BUSHING	(REQUIRED SIZE)
7.	ADAPTER, CONDUIT, GALV. TO PVC	(REQUIRED SIZE)
8.	CONDUIT, PVC SCH. 40, CONC. ENCASED	(REQUIRED SIZE)

⑪ UTILITY TRANSFORMER PAD DETAIL
NOT TO SCALE

STAMPS

PRELIMINARY

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
ELECTRICAL DETAILS

Revision

Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: TAS
Checked By: TDA
DATE: JULY 29, 2022

E2.01

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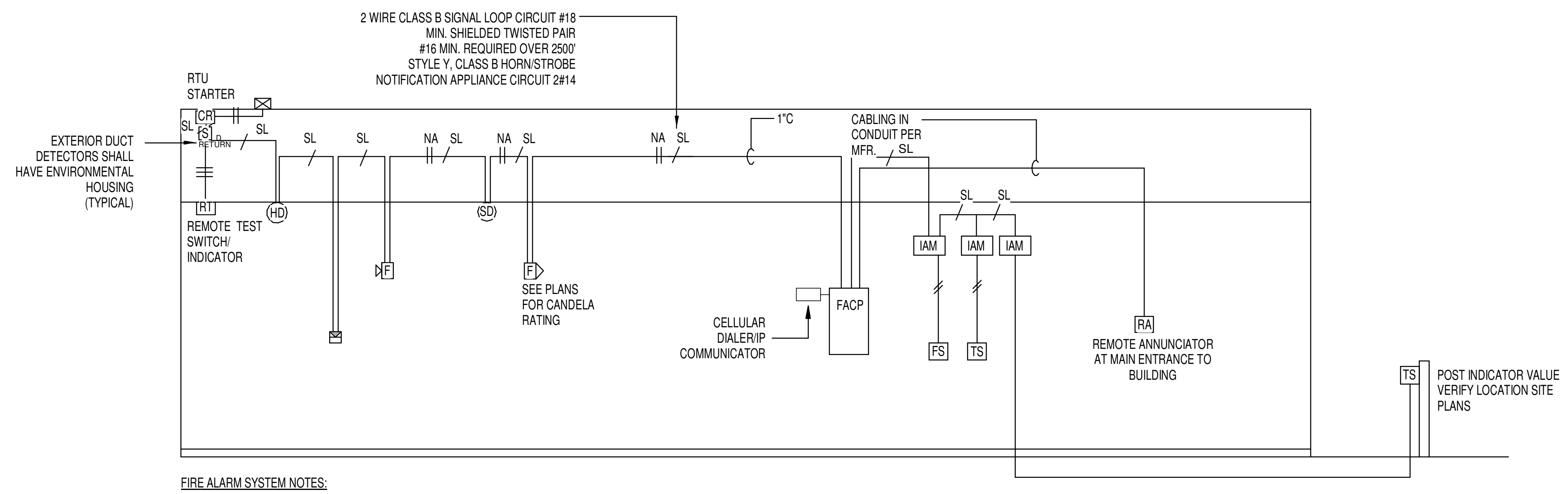

2 WIRE CLASS B SIGNAL LOOP CIRCUIT #18
MIN. SHIELDED TWISTED PAIR
#16 MIN. REQUIRED OVER 2500'
STYLE Y, CLASS B HORN/STROBE
NOTIFICATION APPLIANCE CIRCUIT 2#14
RTU
STARTER
CR
SL
S D RETURN
EXTERIOR DUCT DETECTORS SHALL HAVE ENVIRONMENTAL HOUSING (TYPICAL)
RT
REMOTE TEST SWITCH/ INDICATOR
HD
SL
SL
SL
NA SL
SD
NA SL
F
F
SEE PLANS FOR CANDELA RATING
NA SL
1"C
CABLING IN CONDUIT PER MFR.
SL
CELLULAR DIALER/IP COMMUNICATOR
FACP
SL SL
IAM
IAM
IAM
FS
TS
RA
REMOTE ANNUNCIATOR AT MAIN ENTRANCE TO BUILDING
TS
POST INDICATOR VALUE VERIFY LOCATION SITE PLANS

FIRE ALARM SYSTEM NOTES:

1. ALL WIRING IN CONDUIT. SEE FLOOR PLANS FOR TOTAL NUMBER OF DEVICES REQUIRED. VERIFY EXACT WIRING REQUIREMENTS AND NOTIFICATION POWER SUPPLY PANELS WITH FIRE ALARM SYSTEM INSTALLER. ALL NOTIFICATION POWER SUPPLIES SHALL BE CONNECTED TO DEDICATED 20A/120V BRANCH CIRCUITS FROM POWER PANELS. FIRE ALARM SYSTEM CONTRACTOR SHALL INCLUDE COSTS FOR BRANCH CIRCUITS REQUIRED FOR NOTIFICATION POWER SUPPLY PANELS IN BID. PANELS SHALL BE INSTALLED IN AVAILABLE SPACE IN ELECTRICAL ROOMS ONLY. EXACT LOCATIONS DETERMINED BY ARCHITECT.
2. FIRE ALARM SYSTEM TO BE INSTALLED PER APPROVED SHOP DRAWINGS FURNISHED BY THE FIRE ALARM VENDOR. CONTRACTOR TO PROVIDE A COMPLETE SCHEDULE OF DEVICE ADDRESSES WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL.
3. CONTRACTOR TO PROVIDE COMPLETE SCHEDULE FOR EACH DEVICE ADDRESS WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL. SEE FLOOR PLANS FOR TOTAL NUMBER OF DEVICES REQUIRED. ALL CABLING INSTALLED IN CONDUIT. VERIFY EXACT WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER.
4. PROVIDE AND INSTALL A GSM DIALER FOR FIRE ALARM COMMUNICATIONS. CONTRACTOR SHALL INCLUDE 1 YEAR OF CELLULAR AND MONITORING SERVICE IN THE CONTRACT.
5. CONTRACTOR TO PROVIDE COMPLETE SCHEDULE FOR EACH DEVICE ADDRESS WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL. SEE FLOOR PLANS FOR TOTAL NUMBER OF DEVICES REQUIRED. ALL CABLING INSTALLED IN CONDUIT. VERIFY EXACT WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER.

6 FIRE PROTECTION RISER IS FOR REFERENCE ONLY. VERIFY ALL FLOW/TAMPER SWITCH LOCATIONS AND QUANTITIES

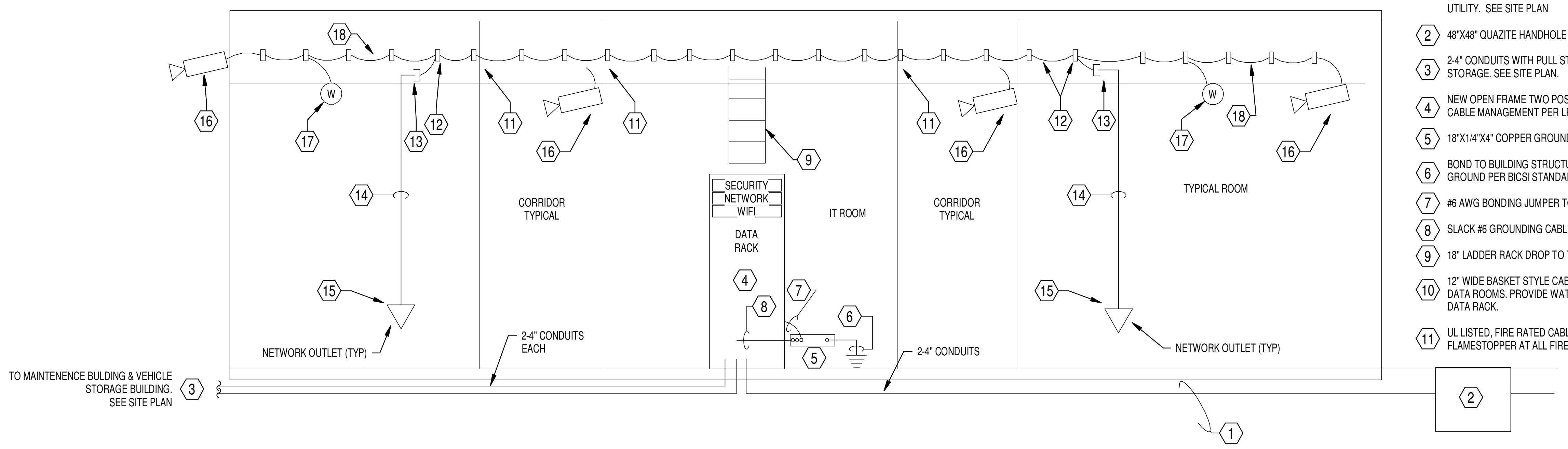
① FIRE ALARM SYSTEM RISER DIAGRAM
NOT TO SCALE

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUND. EQUIPMENT GROUND CONDUCTOR SIZE SHALL NOT BE LESS THAN #12 AWG OR AS INDICATED ON THE DRAWINGS.
3. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER THW, THHN, THWN, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
4. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED.
5. PULL ALL THE CONDUCTORS THROUGH RACEWAY AT THE SAME TIME.
6. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. SEE SPECS FOR CONDUIT REQUIREMENTS. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
7. 6'-0" MAXIMUM LENGTH ON FLEXIBLE CONDUIT.
8. USE COMPRESSION FITTINGS ON CONDUIT, SET SCREW FITTINGS ARE NOT ALLOWED.
9. PROVIDE PULL STRING AND PROTECTIVE BUSHINGS IN ALL SPARE CONDUITS.
10. LABEL ALL CIRCUITS ON PANEL SCHEDULES.
11. TURN ALL UNUSED CIRCUIT BREAKERS TO OFF POSITION.
12. FIRE PROOF ALL PENETRATIONS MADE THROUGH FIRE RATED WALLS.
13. ALL DEVICES SHALL BE RATED 20 AMP MINIMUM, VERIFY COLOR WITH ARCHITECT.
14. CONNECT DEVICES BY WRAPPING WIRE AROUND SCREW TERMINAL IN A CLOCKWISE DIRECTION AND TIGHTEN SCREW, BACK-CONNECTED SPRING DEVICES ARE NOT ALLOWED.
15. ALL BOXES SHALL BE INDEPENDENTLY SUPPORTED TO THE BUILDINGS STRUCTURE.
16. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL ELEVATIONS AND MILLWORK DETAILS FOR EXACT LOCATIONS OF ALL WIRING DEVICES AND LIGHT FIXTURES.
17. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LAY-IN LIGHT FIXTURES.
18. THE SPECIFICATIONS ARE AS BINDING ON THE CONTRACTOR AS THE DRAWINGS. THE CONTRACTOR SHALL READ THE SPECIFICATIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS BEFORE SUBMITTING A BID.
19. ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS FOR EXACT LOCATION OF HVAC AND PLUMBING EQUIPMENT.
20. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTOR BEING INSTALLED.
21. PROVIDE TAMPER RESISTANT DEVICES AS REQUIRED BY CODE.

SYMBOL LEGEND

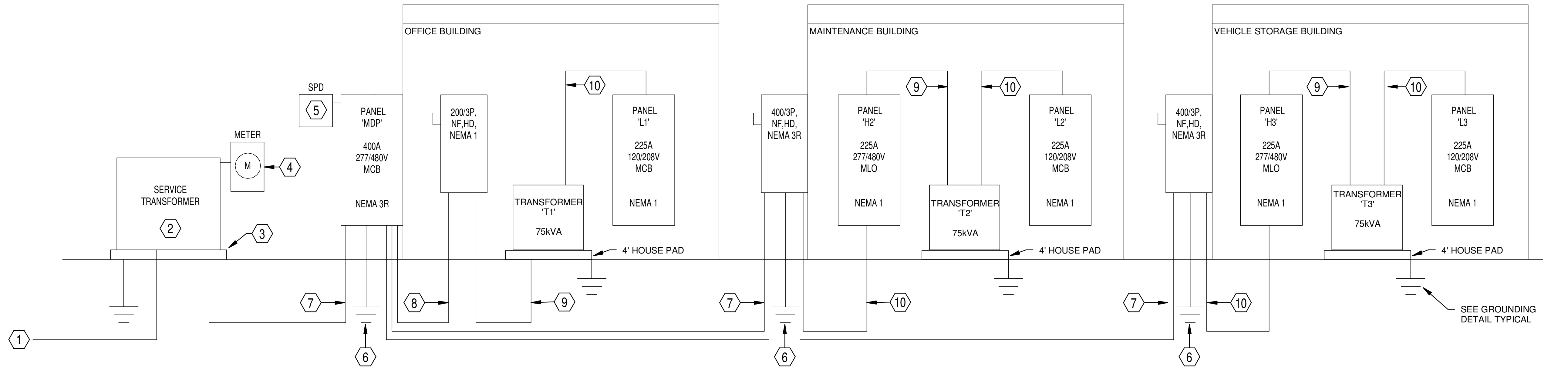
⏀	DUPLEX RECEPTACLE AT 18" A.F.F. GFI - GROUND FAULT CIRCUIT INTERRUPTER AC - MOUNTED ABOVE COUNTER BC - MOUNTED BELOW COUNTER WP - PROVIDED WITH WEATHERPROOF IN-USE TYPE COVER
⏀	SPECIAL PURPOSE RECEPTACLE NEMA CONFIGURATION SHOWN ON PLAN
⏀▽	FLOOR BOX WITH RECEPTACLE AND DATA
▽	DATA OUTLET - (2) DROPS PER OUTLET UNLESS OTHERWISE NOTED.
Ⓙ	JUNCTION BOX
$	SINGLE POLE TOGGLE SWITCH AT 48" A.F.F. TYPICAL 3 - INDICATES 3-WAY TOGGLE 4 - INDICATES 4-WAY TOGGLE LV* - LOW VOLTAGE PUSH BUTTON SWITCH, * = NUMBER OF BUTTONS OC - DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH OC1 - DUAL TECHNOLOGY DUAL RELAY WALL SWITCH OCCUPANCY SENSOR EQUAL TO LEGRAND DW-200 WP - WEATHERPROOF COVER
⤻	BRANCH CIRCUIT HOMERUN HOT-NEUTRAL-GROUND PANEL AND CIRCUIT NUMBER INDICATED ON PLAN
▭	PANELBOARD
▭	DISCONNECT SWITCH
T	DRY-TYPE TRANSFORMER
SD	SMOKE DETECTOR
⊠	MANUAL PULL STATION
S D - SA	AIR SAMPLING SUPPLY
S D - RA	AIR SAMPLING RETURN
S D	DUCT MOUNTED SMOKE DETECTOR
F cd	FIRE ALARM AUDIO/VISUAL APPLIANCE CANDELA RATING AS SHOWN ON PLANS
F cd	FIRE ALARM VISUAL ONLY APPLIANCE CANDELA RATING SHOWN ON PLANS
OC	DUAL TECHNOLOGY OCCUPANCY SENSOR CEILING/WALL MOUNTED EQUAL TO *****
RC1	LIGHTING ROOM CONTROLLER SINGLE RECEPT EQUAL TO *****
PP	POWER PACK
PP 2	2- POLE POWER PACK



DATA RISER KEYED NOTES:

1. TWO 4" CONDUIT WITH PULL STRING STUB OUT FOR TELEPHONE AND NETWORK SERVICE. TELEPHONE AND NETWORK STUB OUT SHALL EXTEND TO THE PROPERTY LINE. COORDINATE EXACT STUB OUT LOCATION WITH THE TELEPHONE UTILITY. SEE SITE PLAN
2. 48"X48" QUAZITE HANDHOLE FOR TELECOMMUNICATIONS ENTRANCE.
3. 2-4" CONDUITS WITH PULL STRING TO THE MAINTENENCE SHOP AND VEHICLE STORAGE. SEE SITE PLAN.
4. NEW OPEN FRAME TWO POSE DATA RACK WITH HORIZONTAL AND VERTICAL CABLE MANAGEMENT PER LRSD STANDARS.
5. 18"X1/4"X4" COPPER GROUNDING BUS BAR WITH STANDOFF BRACKET.
6. BOND TO BUILDING STRUCTURE AND TO ELECTRICAL SERVICE ENTRANCE GROUND PER BICSI STANDARDS.
7. #6 AWG BONDING JUMPER TO DATA RACKS.
8. SLACK #6 GROUNDING CABLE FOR OWNER GROUNDING.
9. 18" LADDER RACK DROP TO TOP OF EACH DATA RACK.
10. 12" WIDE BASKET STYLE CABLE TRAY EQUAL TO COOPER B-LINE FLEXTRAY WITHIN DATA ROOMS. PROVIDE WATERFALL FROM CABLE TRAY TO LADDER DROP AT DATA RACK.
11. UL LISTED, FIRE RATED CABLE PENETRATION EQUAL TO WIREMOLD FLAMESTOPPER AT ALL FIRE RATED PARTITIONS.
12. J-HOOKS ALONG WALLS FROM CABLE TRAY TO DEVICE OR DROP. J-HOOKS SHALL BE SPACED NO MORE THAN 60" ON CENTER. CABLES SHALL BE NEATLY BUNDLED BY COLOR ALONG J-HOOKS USING VELCRO CABLE WRAPS.
13. PROVIDE PROTECTIVE BUSHING IN ALL CONDUIT DROPS
14. 3/4" EMT CONDUIT DROP DOWN FOR NETWORK CABLING.
15. TYPICAL DATA OUTLET (2) CABLES PER LOCATION UNLESS OTHERWISE NOTED. KEYSTONES, JACKS, AND FACEPLATES SHALL BE PER OWNER STANDARDS. VERIFY PRIOR TO INSTALLATION.
16. TYPICAL CAMERA LOCATIONS, REFER TO PLANS FOR NUMBER, LOCATIONS, AND MOUNTING. SHOWN FOR REFERENCE. PROVIDE CONDUIT PATHWAY AND BACK BOX.
17. TYPICAL OWNER PROVIDED, CONTRACTOR INSTALLED WIFI ACCESS POINT. REFER TO PLANS FOR NUMBER AND LOCATIONS.
18. TYPICAL PLENUM RATED CAT6 NETWORK CABLING.

② DATA RISER DIAGRAM
NOT TO SCALE



POWER RISER KEYED NOTES:

1. NEW UNDERGROUND PRIMARY. VERIFY INSTALLATION REQUIREMENTS WITH UTILITY PRIOR TO BID. CONTRACTOR TO PAY ALL FEES.
2. NEW SERVICE TRANSFORMER SIZED AND PROVIDED BY UTILITY
3. TRANSFORMER PAD AND GROUNDING BY ELECTRICAL CONTRACTOR.
4. METER AT TRANSFORMER PER UTILITY STANDARDS
5. SURGE PROTECTION DEVICE 'SPD'. PANEL 'MDP' SURGE PROTECTOR CURRENT TECH CG 100, 3R. CONDUCTORS BETWEEN BREAKER AND SPD SHALL BE KEPT AS SHORT AND STRAIGHT AS POSSIBLE.
6. SEE GROUNDING DETAIL
7. 400A FEEDER: 2 SETS 4-3/0, 1#3EG, 2-1/2" C.
8. 200A FEEDER: 4-3/0,1#6EG, 2-1/2" C.
9. 125A FEEDER: 3#1, 1#6EG, 2" C.,
10. 225A OFFENDER: 4-4/0, 1#4EG, 2-1/2" C.

③ POWER RISER DIAGRAM
NOT TO SCALE

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS
ELECTRICAL LEGENDS & DIAGRAMS

Revision	
Date	Description

Project No.: 2106601CBATE
Project Phase: CONSTRUCTION DOCUMENTS
Drawn By: TAS Checked By: TDA
DATE: JULY 29, 2022

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Panelboard: 'MDP'

Panelboard:	'MDP'	**VOLTAGE:**	480/277 Wye	**COPPER BUS RATING:**	400 A	**MAINS TYPE:**	MCB
LOCATION:		**PHASE:**	3	**GROUND BUS:**		**MCB RATING:**	
MOUNTING:	SUFRACE	**WIRES:**	4	**MINIMUM A.I.C. RATING:**	35k	**FED FROM:**	UTLITY TRANSFORMER
ENCLOSURE:	3R	**MFR. AND TYPE:**	SQUARE D NF	**SUBFEED LUGS:**		**NEUTRAL RATING:**	

Circuit Num...	Load Name	BRKR	A		B		C		BRKR	Load Name	Circuit Num...
1	EXTERIOR LIGHTING	20A/1P	356	1080					20A/1P	SITE LIGHTING	2
3	EWH-1 - MEN o121	40A/1P			8310	0			20A/1P	SPARE	4
5	EWH-1 - WOMEN o108	40A/1P					8310	9600	225A/3P	'H3' VEHICLE STORAGE BUILDING	6
7	LIGHTIING	20A/1P	4247	9276							8
9	SPARE	20A/1P			0	7394					10
11	SPARE	20A/1P					0	50308	225A/3P	'H2' MAINTENENACE BULDING	12
13	TRANSFORMER 'T1'	125A/3P	19962	51233							14
15					20028	51447					16
17							20065				18
19	'SPD'	100/3	0								20
21	-				0						22
23	-						0				24
25											26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42

Total Load:	86153 VA	87179 VA	88283 VA
Total Amps:	311 A	315 A	319 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	22678 VA	125.00%	28348 VA	**Total Connected Load:**	260114 VA
Receptacles	35380 VA	64.13%	22690 VA	**Total Estimated...**	253094 VA
HVAC	0 VA	0.00%	0 VA	**Total Connected...**	313 A
Power	202056 VA	100.00%	202056 VA	**Total Est. Demand...**	304 A
Other	0 VA	0.00%	0 VA		
Motor	0 VA	0.00%	0 VA		
Heating	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:

Panelboard: 'H2'

Panelboard:	'H2'	**VOLTAGE:**	480/277 Wye	**COPPER BUS RATING:**	225 A	**MAINS TYPE:**	MLO
LOCATION:	DATA m104	**PHASE:**	3	**GROUND BUS:**		**MCB RATING:**	
MOUNTING:	SURFACE	**WIRES:**	4	**MINIMUM A.I.C. RATING:**	22k	**FED FROM:**	'MDP'
ENCLOSURE:	TYPE 1	**MFR. AND TYPE:**	SQUARE D NF	**SUBFEED LUGS:**		**NEUTRAL RATING:**	

Circuit Num...	Load Name	BRKR	A		B		C		BRKR	Load Name	Circuit Num...
1	EXTERIOR LIGHTING	20A/1P	480	2940					20A/1P	LIGHTING	2
3	LIGHTING - m100	20A/1P			3609	0			60A/3P	AIR COMPRESSOR (m102)	4
5	LIGHTING - m100	20A/1P					3609	0			6
7	TRANSFORMER 'T2'	125A/3P	23514	0							8
9					24250	667			20A/3P	EWH-4 (m106)	10
11							24464	667			12
13	HVLS-1 (m100)	20A/3P	693	667							14
15					693	693			20A/3P	HVLS-2 (m100)	16
17							693	693			18
19	EF 5,6,7,8,9,10	15A/3P	1330	693							20
21					1330	3067			20A/3P	CRANE (m100)	22
23							1330	3067			24
25	EHW-3 (m111)	25A/3P	4100	3067							26
27					4100	6000			XXA/3P	MAINT. BUILDING POWER (VERIFY BREAKER)	28
29							4100	6000			30
31	A/C-1	40A/3P	6825	6000							32
33					6825						34
35							6825				36
37	SPARE	20A/1P	0								38
39	SPARE	20A/1P			0						40
41	SPARE	20A/1P					0				42

Total Load:	50308 VA	51233 VA	51447 VA
Total Amps:	182 A	185 A	186 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	10638 VA	125.00%	13298 VA	**Total Connected Load:**	152488 VA
Receptacles	12420 VA	90.26%	11210 VA	**Total Estimated...**	153938 VA
HVAC	0 VA	0.00%	0 VA	**Total Connected...**	183 A
Power	129430 VA	100.00%	129430 VA	**Total Est. Demand...**	185 A
Other	0 VA	0.00%	0 VA		
Motor	0 VA	0.00%	0 VA		
Heating	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:

Panelboard: 'H3'

Panelboard:	'H3'	**VOLTAGE:**	480/277 Wye	**COPPER BUS RATING:**	225 A	**MAINS TYPE:**	MLO
LOCATION:	SMALL ENGINE SHOP /...	**PHASE:**	3	**GROUND BUS:**		**MCB RATING:**	
MOUNTING:	SURFACE	**WIRES:**	4	**MINIMUM A.I.C. RATING:**	22k	**FED FROM:**	'MDP'
ENCLOSURE:	TYPE 1	**MFR. AND TYPE:**	SQUARE D NF	**SUBFEED LUGS:**		**NEUTRAL RATING:**	

Circuit Num...	Load Name	BRKR	A		B		C		BRKR	Load Name	Circuit Num...
1	HVLS-3	20A/3P	693	2544					20A/1P	LIGHTING - v102	2
3					693	2976			20A/1P	LIGHITNG - v100	4
5							693	443	15A/3P	EF-11 AND EF-12	6
7	TRANSFORMER 'T3'	125A/3P	5520	443							8
9					5164	443					10
11							5820	438	20A/1P	LIGHTING - v105	12
13	EXTERIOR WALL PACKS	20A/1P	400								14
15											16
17											18
19											20
21											22
23											24
25											26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42

Total Load:	9600 VA	9276 VA	7394 VA
Total Amps:	36 A	35 A	27 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	6358 VA	125.00%	7947 VA	**Total Connected Load:**	25770 VA
Receptacles	4320 VA	100.00%	4320 VA	**Total Estimated...**	27359 VA
HVAC	0 VA	0.00%	0 VA	**Total Connected...**	31 A
Power	15092 VA	100.00%	15092 VA	**Total Est. Demand...**	33 A
Other	0 VA	0.00%	0 VA		
Motor	0 VA	0.00%	0 VA		
Heating	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:

Panelboard: 'L1'

Panelboard:	'L1'	**VOLTAGE:**	120/208 Wye	**COPPER BUS RATING:**	225 A	**MAINS TYPE:**	MCB
LOCATION:	MECH./ ELEC. o114	**PHASE:**	3	**GROUND BUS:**		**MCB RATING:**	225A
MOUNTING:	SURFACE	**WIRES:**	4	**MINIMUM A.I.C. RATING:**	11k	**FED FROM:**	T1
ENCLOSURE:	Type 1	**MFR. AND TYPE:**	SQUARE D NQ	**SUBFEED LUGS:**		**NEUTRAL RATING:**	

Circuit Num...	Load Name	BRKR	A		B		C		BRKR	Load Name	Circuit Num...
1	EF-1 (o108) & EF-2 (o121)	20A/1P	102	360					20A/1P	FLOOR BOX - o115	2
3	*EWC - o113	20A/1P			180	500			20A/1P	FACP 1 - o116	4
5	RECEPT. - o118	20A/1P					180	500	20A/1P	SPARE	6
7	RECEPT. - o116	20A/1P	540	720					20A/1P	RECEPT. - o101	8
9	RECEPT. - EXTERIOR	20A/1P			720	1000			20A/1P	FLOOR BOX - o115	10
11	RECEPT. - EXTERIOR	20A/1P					900	1380	15A/1P	F-2/A	12
13	F-1	20A/1P	1668	1668					20A/1P	F-3	14
15	RECEPT. - o118	20A/1P			180	1976			30A/2P	MSOU-1	16
17	F-2/B	20A/1P					1380	1976			18
19	RECEPT. - o118	20A/1P	180	360					20A/1P	RECEPT. - 111	20
21	CU-2/B	40A/2P			2454	2455			40A/2P	CU-2/A	22
23							2454	2455			24
25	CU-1	40A/2P	2694	3370					50A/2P	CU-3	26
27					2694	3370					28
29	EWH-2	50A/2P					4160	180	20A/1P	RECEPTACLE	30
31			4160	720					20A/1P	RECEPT. - o115	32
33	RECEPT. - o110	20A/1P			360	720			20A/1P	RECEPT. - o119	34
35	RECEPT. - o111	20A/1P					360	720	20A/1P	RECEPT. - o122	36
37	RECEPT. - o104	20A/1P	720	900					20A/1P	RECEPT. - o115	38
39	RECEPT. - o111	20A/1P			720	900			20A/1P	RECEPT. - o118	40
41	RECEPT. - o113	20A/1P					720	900	20A/1P	RECEPT. - o120	42
43	RECEPT. - o106	20A/1P	900	900					20A/1P	RECEPT. - o102	44
45	RECEPT. - o107	20A/1P			900	900			20A/1P	RECEPT. - o103	46
47	RECEPT. - o109	20A/1P					900	900	20A/1P	RECEPT. - o105	48
49	SPARE	20A/1P	0								50
51	SPARE	20A/1P			0						52
53	SPARE	20A/1P					0				54
55	SPARE	20A/1P	0								56
57	SPARE	20A/1P			0						58
59	SPARE	20A/1P					0				60
61	SPARE	20A/1P	0								62
63	SPARE	20A/1P			0						64
65	SPARE	20A/1P					0				66
67	SPARE	20A/1P	0								68
69	SPARE	20A/1P			0						70
71	SPARE	20A/1P					0				72

Total Load:	19962 VA	20028 VA	20065 VA
Total Amps:	166 A	167 A	167 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0 VA	0.00%	0 VA	**Total Connected Load:**	59554 VA
Receptacles	18640 VA	76.82%	14320 VA	**Total Estimated...**	55234 VA
HVAC	0 VA	0.00%	0 VA	**Total Connected...**	165 A
Power	40914 VA	100.00%	40914 VA	**Total Est. Demand...**	153 A
Other	0 VA	0.00%	0 VA		
Motor	0 VA	0.00%	0 VA		
Heating	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes: *INDICATES GFI BREAKER*

Panelboard: 'L2'

Panelboard:	'L2'	**VOLTAGE:**	120/208 Wye	**COPPER BUS RATING:**	225 A	**MAINS TYPE:**	MCB
LOCATION:	DATA m104	**PHASE:**	3	**GROUND BUS:**		**MCB RATING:**	225A
MOUNTING:	SURFACE	**WIRES:**	4	**MINIMUM A.I.C. RATING:**	11k	**FED FROM:**	T2
ENCLOSURE:	Type 1	**MFR. AND TYPE:**	SQUARE D NQ	**SUBFEED LUGS:**		**NEUTRAL RATING:**	

Circuit Num...	Load Name	BRKR	A		B		C		BRKR	Load Name	Circuit Num...
1	FANS LIGHTING (HVLS 1 & 2)	20A/1P	48	720					20A/1P	RECEPET. - m105	2
3	EF-4 (m106) & EF-3 (m110)	20A/1P			280	720			20A/1P	RECEPT. - EXTERIOR	4
5	EF - 5,6,7,8,9,10	20A/1P					600	900	20A/1P	RECEPT. - m100	6
7	F-4	15A/1P	0	1056					15A/1P	UH-7	8
9	UH-8	15A/1P			1056	180			20A/1P	RECEPT. - m101	10
11	RECEPT. - m103	20A/1P					900	1500	20A/2P	MAINT. BUILDING POWER	12
13	CU-4	20A/2P	1456	1500							14
15					1456	4160			50A/2P	EWH-2 (m101)	16
17	MS-2 (m104)	20A/2P					1976	4160			18
19			1976	2330					XXA/2P	ICE MAKER - m100 (VERIFY BREAKER & WIRE)	20
21	RECEPT. - m100	20A/1P			180	2330					22
23	REFRIGERATOR - m101	20A/1P					180	180	20A/1P	RECEPT. - m100	24
25	RECEPT. - m101	20A/1P	180	180					20A/1P	RECEPT. - m100	26
27	RECEPT. - m100	20A/1P			180	180			20A/1P	RECEPT. - m100	28
29	RECEPT. - m100	20A/1P					180	180	20A/1P	RECEPT. - m100	30
31	RECEPT. - m100	20A/1P	180	180					20A/2P	RECEPT. - m100	32
33	RECEP.T - m100	20A/1P			180	180			20A/1P	RECEP.T - m100	34
35	RECEPT. - m100	20A/1P					180	180	20A/1P	RECEP.T - m100	36
37	RECEP.T - m100	20A/1P	180	180					20A/1P	ICE MAKER - m101	38
39	RECEPT. - m106	20A/1P			360	360			20A/1P	RECEPT. - m102	40
41	RECEPT. - m107	20A/1P					360	360	20A/1P	RECEPT. - m104	42
43	RECEPT. - m105	20A/1P	360	360					20A/1P	RECEPT. - EXTERIOR	44
45	OVERHEAD DOOR - m100	20A/1P			500	500			20A/2P	OVERHEAD DOOR - m100	46
47	OVERHEAD DOOR - m100	20A/1P					500	500	20A/2P	OVERHEAD DOOR - m100	48
49	OVERHEAD DOOR - m100	20A/1P	500	500					20A/1P	OVERHEAD DOOR - m100	50
51	OVERHEAD DOOR - m100	20A/1P			500	500			20A/1P	OVERHEAD DOOR - m100	52
53	OVERHEAD DOOR - m100	20A/1P					500	500	20A/1P	OVERHEAD DOOR - m100	54
55	OVERHEAD DOOR - m100	20A/1P	500	500					20A/1P	OVERHEAD DOOR - m100	56
57	HVLS CONTROL PANEL - 1	20A/1P			500	540			20A/1P	RECEPT. - m111	58
59	MECHANICAL CONTROLS	20A/1P					500	720	20A/1P	RECEPT. m101	60
61	'FACP 2' - m104	20A/1P	500	720					20A/1P	RECEPT. - m101	62
63	RECEPT. - m110	20A/1P			720	1344			20A/1P	UH-5	64
65	RECEPTACLE - EXTERIOR	20A/1P					720	1344	20A/1P	UH-6	66
67	RECEPT. - m105	20A/1P	720	1344					20A/1P	UH-4	68
69	UH-2	20A/1P			1344	6000			XXA/3P	WELDING MACHINE VERIFY BREAKER & WIRE SIZE	70
71	UH-3	20A/1P					1344	6000			72
73	UH-1	20A/1P	1344	6000							74
75	SPARE	20A/1P			0						76
77	SPARE	20A/1P					0				78
79	SPARE	20A/1P	0								80
81	SPARE	20A/1P			0						82
83	SPARE	20A/1P					0				84

Total Load:	23514 VA	24250 VA	24464 VA
Total Amps:	196 A	203 A	205 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0 VA	0.00%	0 VA	**Total Connected Load:**	71728 VA
Receptacles	12420 VA	90.26%	11210 VA	**Total Estimated...**	70518 VA
HVAC	0 VA	0.00%	0 VA	**Total Connected...**	199 A
Power	59308 VA	100.00%	59308 VA	**Total Est. Demand...**	196 A
Other	0 VA	0.00%	0 VA		
Motor	0 VA	0.00%	0 VA		
Heating	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:

Panelboard: 'L3'

Panelboard:	'L3'	**VOLTAGE:**	120/208 Wye	**COPPER BUS RATING:**	225 A	**MAINS TYPE:**	MCB
LOCATION:	BAY 1 v101	**PHASE:**	3	**GROUND BUS:**		**MCB RATING:**	
MOUNTING:	SURFACE	**WIRES:**	4	**MINIMUM A.I.C. RATING:**	11k	**FED FROM:**	T3
ENCLOSURE:	Type 1	**MFR. AND TYPE:**	SQUARE D NQ	**SUBFEED LUGS:**		**NEUTRAL RATING:**	

Circuit Num...	Load Name	BRKR	A		B		C		BRKR	Load Name	Circuit Num...
1	RECEPT. - v100	20A/1P	360	360					20A/1P	RECEPT. - v100	2
3	RECEPT. - v100	20A/1P			360	360			20A/1P	RECEPT. - v100	4
5	RECEPT. - v101/v102	20A/1P					180	180	20A/1P	RECEPT - v101/v102	6
7	RECEPT. - v103/v104	20A/1P	180	180					20A/1P	RECEPT. - v105	8
9	RECEPT, - v103/v104	20A/1P			180	180			20A/1P	RECEPT. - v102/v103	10
11	RECEPT. - v101/v102	20A/1P					180	180	20A/1P	RECEPT. - v104	12
13	RECEPT. - v104	20A/1P	180	180					20A/1P	RECEPT. - v104	14
15	RECEPT. - v101	20A/1P			180	180			20A/1P	RECEPTACLE	16
17	RECEPT. - EXTERIOR	20A/1P					540	360	20A/1P	RH1, RH-2 AND RH-3	18
19	EF-11 & EF-12	20A/1P	200	500					20A/1P	MECHANICAL CONTROLS	20
21	FAN LIGHT (HVLS-3)	20A/1P			24	500			20A/1P	HVLS CONTROL PANEL	22
23	POWER WASHER - V104 VERIFY BREAKER & WIRE	XXA/3P					3200	500	20A/1P	'FACP 3'	24
25			3200	180					20A/1P	RECEPT. - EXTERIOR	26
27					3200	0			20A/1P	SPARE	28
29	OVERHEAD DOOR	20A/1P					500	0	20A/1P	SPARE	30
31	SPARE	20A/1P	0								32
33	SPARE	20A/1P			0						34
35	SPARE	20A/1P					0				36
37	SPARE	20A/1P	0								38
39	SPARE	20A/1P			0						40
41	SPARE	20A/1P					0				42

Total Load:	5520 VA	5164 VA	5820 VA
Total Amps:	46 A	43 A	49 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0 VA	0.00%	0 VA	**Total Connected Load:**	16004 VA
Receptacles	4320 VA	100.00%	4320 VA	**Total Estimated...**	16004 VA
HVAC	0 VA	0.00%	0 VA	**Total Connected...**	44 A
Power	11684 VA	100.00%	11684 VA	**Total Est. Demand...**	44 A
Other	0 VA	0.00%	0 VA		
Motor	0 VA	0.00%	0 VA		
Heating	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:

STAMPS

PRELIMINARY

No. 78

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CITY OF BATESVILLE
PUBLIC WORKS FACILITY
PHASE II: MAINTENANCE & VEHICLE STORAGE BUILDINGS

ELECTRICAL PANEL SCHEDULES

Revision

Date	Description

Project No.: 2106601CBATE

Project Phase: CONSTRUCTION DOCUMENTS

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