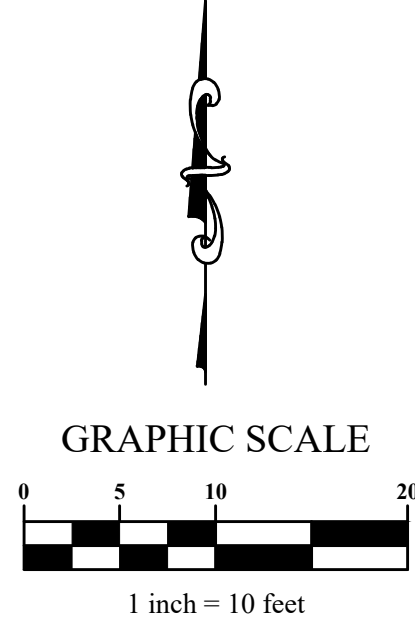
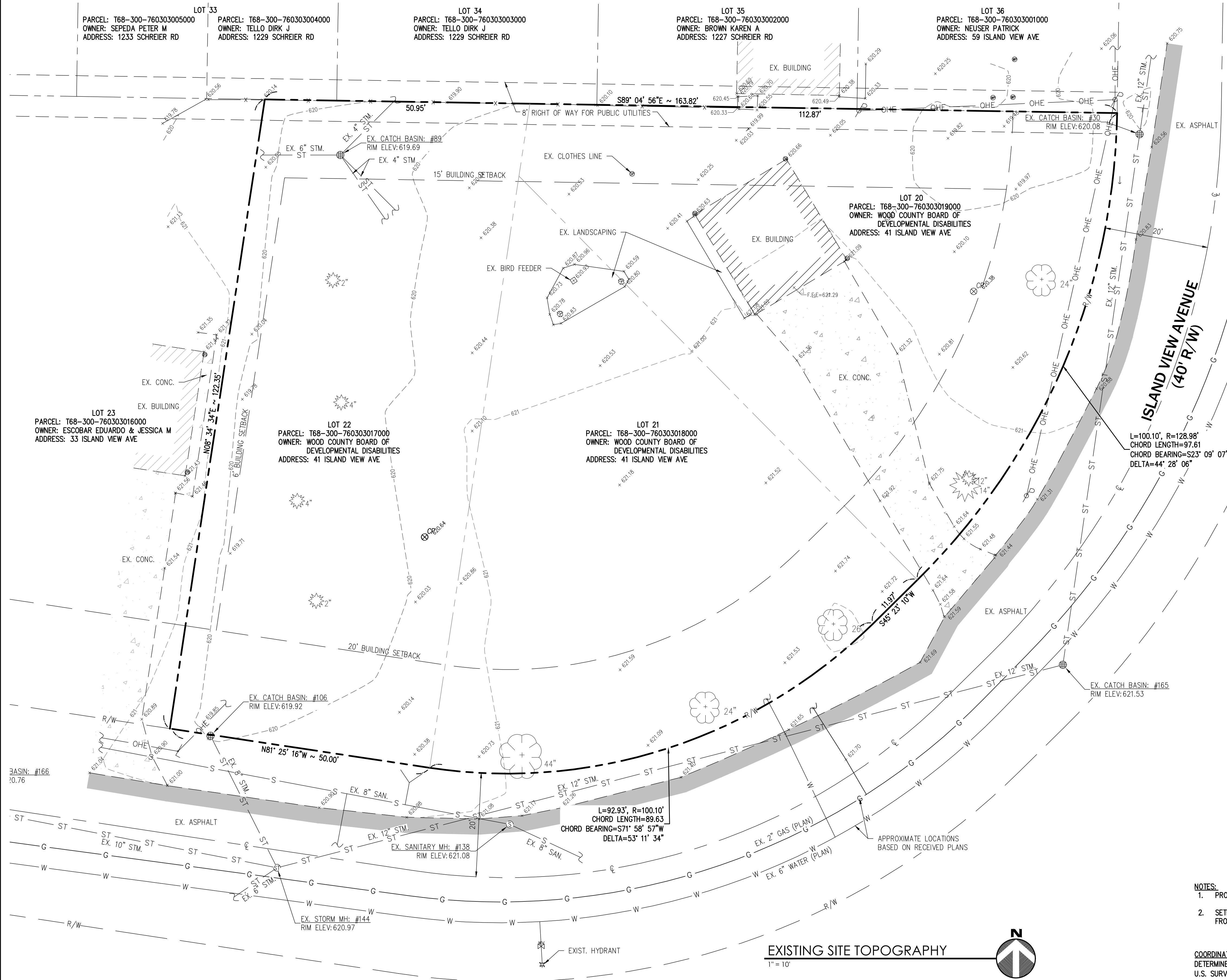


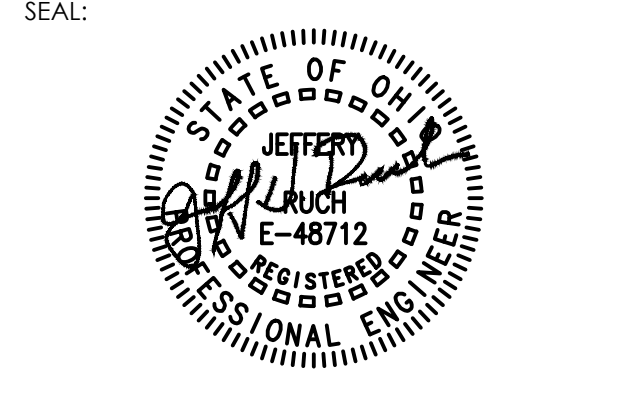
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8 North St. Clair - Toledo, Ohio 43604-1028
T 419.243.2400
www.thomasporterarchitects.com

CONSULTANTS:
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1335 Secor Rd., Toledo, Ohio, 43623 Phone (419) 479-9445

mda engineering, inc.
Mechanical and Electrical Engineers
1415 Holland Road
Maumee, Ohio 43537
Phone: (419) 893-3141



NOT FOR CONSTRUCTION UNLESS SIGNED & SEALED

PROJECT TITLE:
RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES
41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

LEGEND

- SBM SITE BENCHMARK
- CP CONTROL POINT
- BUSH
- CATCH BASIN ROUND
- CATCH BASIN SQUARE
- CONIFER TREE / (INCH)
- CURB INLET
- DECIDUOUS TREE / (INCH)
- DOWNSPOUT
- FIRE HYDRANT
- GAS MARKER
- GAS METER
- GAS VALVE
- GUY WIRE
- LIGHT POLE
- POWER POLE
- SANITARY MANHOLE
- SIGN
- STEEL POST
- STORM MANHOLE
- WATER MANHOLE
- WATER METER
- WATER VALVE
- WOOD POST
- EXISTING SPOT ELEVATION
- EXISTING CONTOUR
- FENCE LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- GAS LINE
- WATER LINE
- OVERHEAD UTIL. WIRES

- NOTES:
- PROPERTY LINES ARE APPROXIMATE.
 - SETBACK & EASEMENTS LINES SHOWN ARE FROM THE RECORD PLAT ONLY.

SURVEYOR NOTE:
SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

COORDINATE SYSTEM/BASIS OF BEARINGS:
DETERMINED BY THE OHIO STATE PLANE COORDINATE SYSTEM NORTH ZONE (3401) NAD 83 (2011) 2002.0 EPOCH, UNITS IN U.S. SURVEY FEET, OBTAINED USING GPS EQUIPMENT AND THE OHIO DEPARTMENT OF TRANSPORTATION VRS/RTK NETWORK.

REFERENCE BENCHMARK: ELEVATION OBTAINED USING GPS EQUIPMENT AND THE OHIO DEPARTMENT OF TRANSPORTATION VRS/RTK NETWORK. THE VERTICAL COMPONENT OF THE VRS NETWORK IS BASED ON NAVD88 AS DETERMINED BY THE NGS (NATIONAL GEODETIC SURVEY).

EXISTING SEWER NOTE:
THE INVERTS AND PIPE SIZES SHOWN FOR THE EXISTING SEWERS ARE AS BEST DETERMINED WITHOUT ENTERING THE UTILITY STRUCTURES. THESE ELEVATIONS ARE BASED ON FIELD OBSERVATION MEASURED FROM THE RIM OF EACH STRUCTURE TO THE INVERT OF EACH PIPE INSIDE THE STRUCTURE. SOME ARE ESTIMATED DUE TO DEBRIS INSIDE THE STRUCTURE AND/OR THE PIPES BEING RECESSED AND NOT DIRECTLY AVAILABLE FOR DIRECT MEASURE.

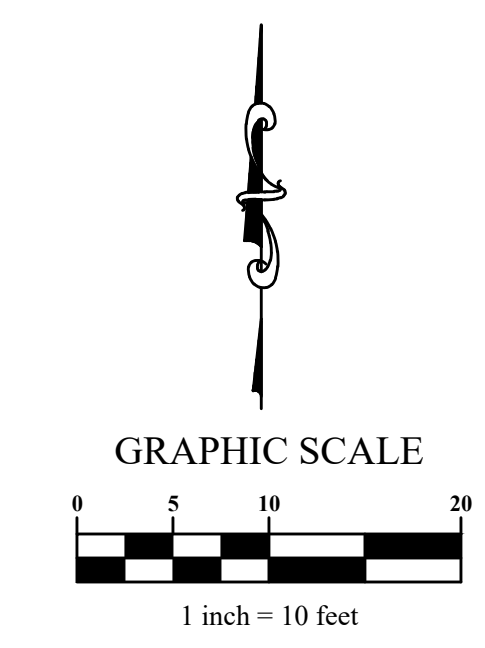
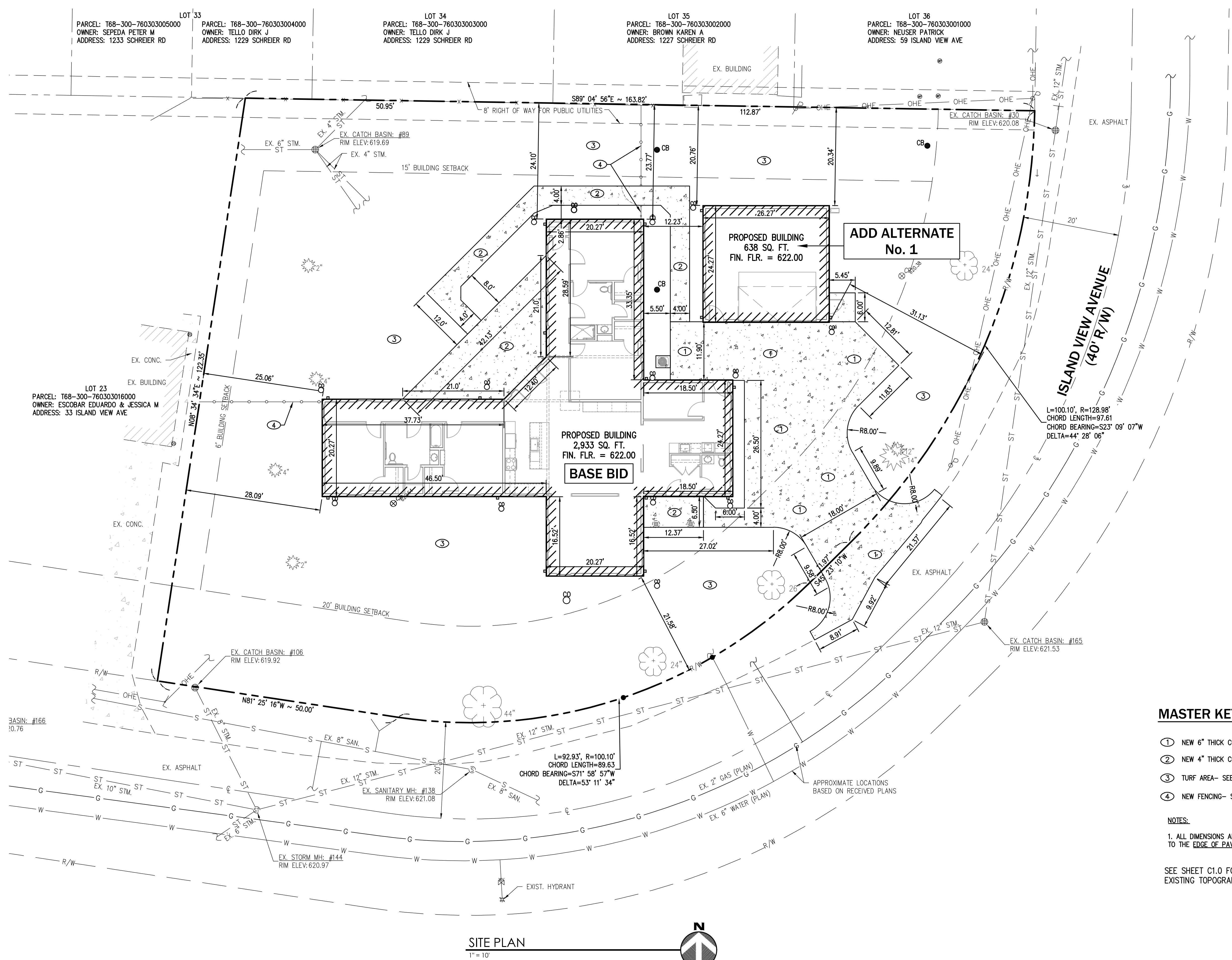
UNDERGROUND UTILITIES
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EXISTING UTILITY STRUCTURE SCHEDULE						
STRUCTURE TYPE	ID	RIM	PIPE SIZE	PIPE MATERIAL	DIRECTION	INVERT
EX. CATCH BASIN	30	620.08	12"	PVC	N	614.33
		620.08	12"	PVC	S	614.38
EX. CATCH BASIN	89	619.69	4"	PVC	SE	618.39
		619.69	4"	PVC	SE	616.29
		619.69	6"	PVC	W	615.94
		619.69	4"	PVC	NE	615.89
EX. CATCH BASIN	106	619.92	8"	PVC	SE	616.42
EX. SANITARY MANHOLE	138	621.08	8"	VIT	W	611.96
		621.08	8"	VIT	SE	611.96

EX. STORM MANHOLE	144	620.97	12"	PVC	NE	615.02
		620.97	8"	PVC	NW	615.47
		620.97	10"	PVC	W	615.97
		620.97	6"	PVC	SW	615.72
EX. CATCH BASIN	165	621.53	12"	PVC	N	614.68
		621.53	12"	PVC	W	614.68
EX. CATCH BASIN	166	620.76	10"	PVC	W	616.26
		620.76	10"	PVC	E	616.16



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THOMAS
PORTER
ARCHITECTS

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SEAL:

MASTER KEYNOTE LEGEND

- ① NEW 6" THICK CONC. PAVEMENT
- ② NEW 4" THICK CONC. WALK
- ③ TURF AREA- SEE LANDSCAPE PLAN
- ④ NEW FENCING- SEE ARCH. PLANS FOR TYPE AND HEIGHT

NOTES:

1. ALL DIMENSIONS AND RADII ARE TO THE EDGE OF PAVEMENT.

SEE SHEET C1.0 FOR LEGEND OF EXISTING TOPOGRAPHIC FEATURES.

811

Know what's below.
Call before you dig.

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RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

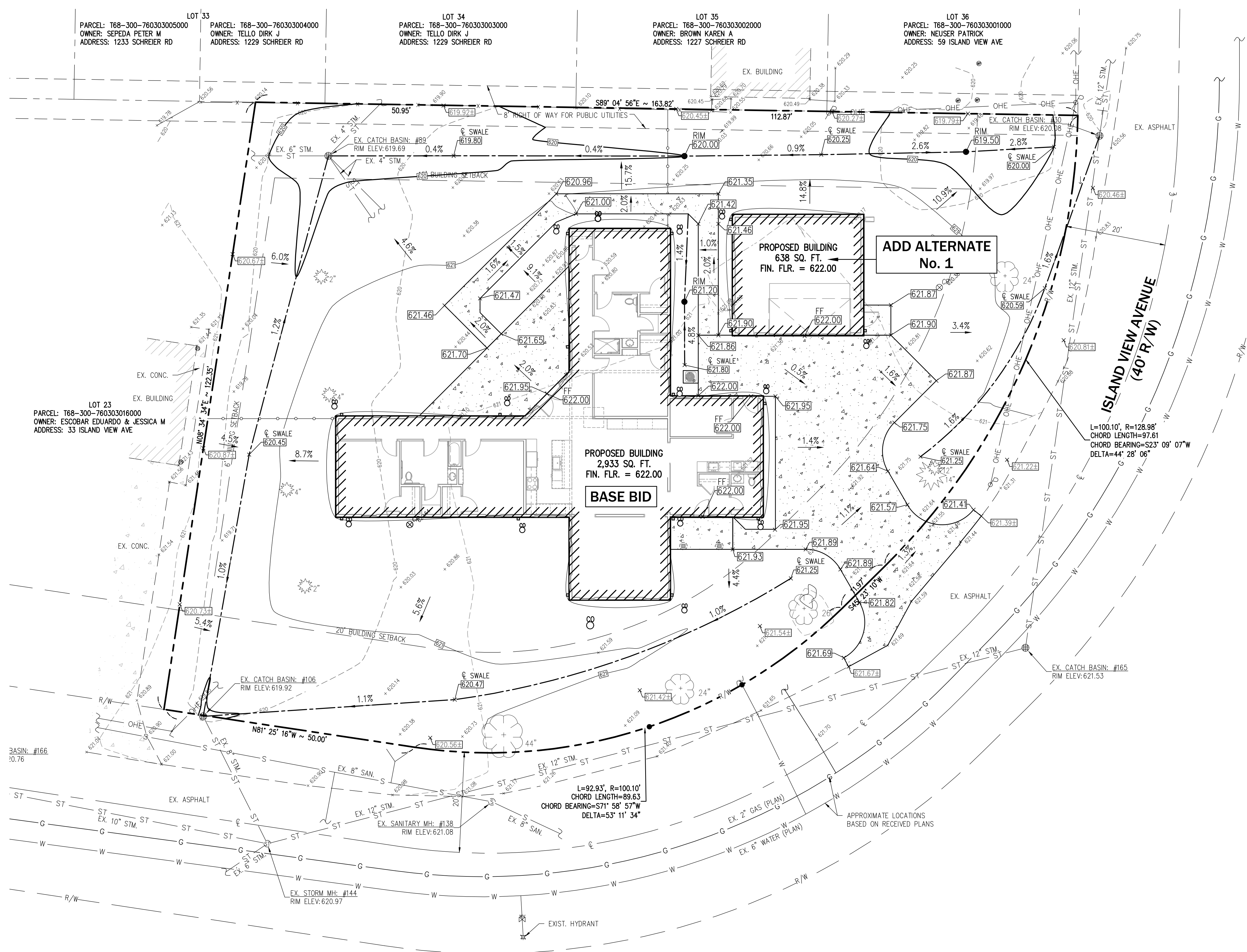
41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

PROJECT TITLE:

ISSUE OR REVISION:

10.22.2021	PERMIT & BID SET
DATE	ISSUE / REVISION
DESIGNED: ACH	
DRAWN: ACH/SJW	
CHECKED: ARK	
TPA COMMISSION NUMBER:	20026
DRAWING TITLE:	
DRAWING NUMBER:	C2.0

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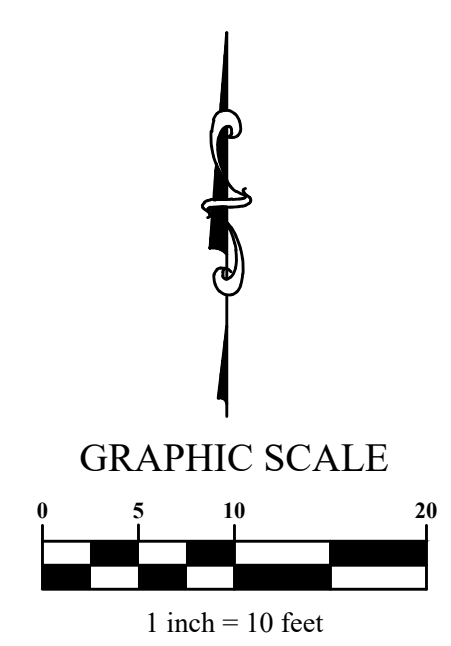
SITE GRADING PLAN
1" = 10'

SURVEYOR NOTE:
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Know what's below.
Call before you dig.



- GRADING LEGEND**
- NEW CONCRETE WALK OR PAVEMENT
 - TOP/PAVEMENT GRADE
 - EX. GRADE = PROP. GRADE
 - PROPOSED SLOPE
 - PROPOSED CONTOURS

SEE SHEET C1.0 FOR LEGEND OF EXISTING TOPOGRAPHIC FEATURES.

THOMAS PORTER ARCHITECTS
8 North St. Clair - Toledo, Ohio 43604-1028
T 419.243.2400
www.thomasporterarchitects.com

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SEAL:

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RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43440

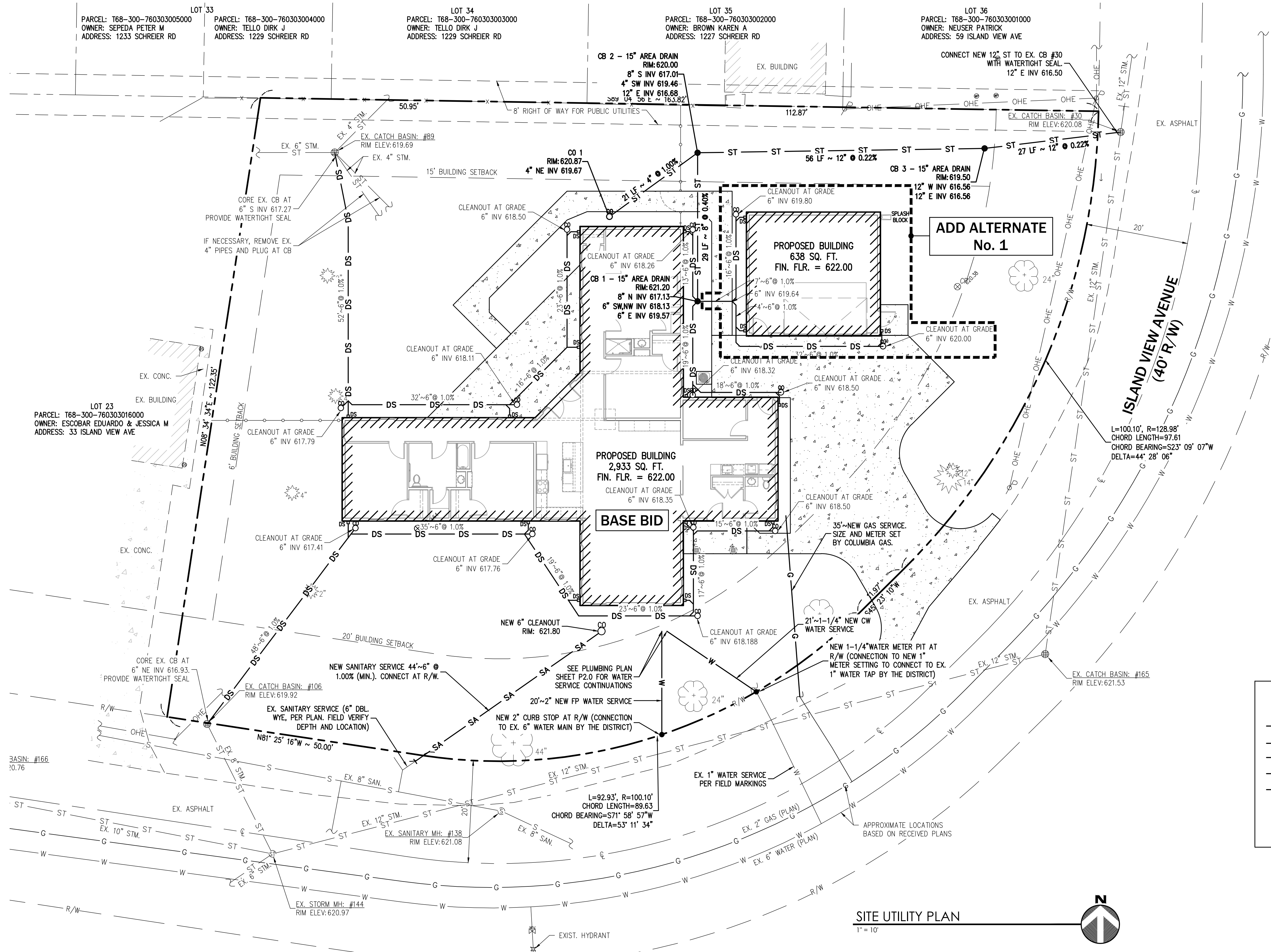
PROJECT TITLE:

ISSUE OR REVISION:

DATE	ISSUE / REVISION
10.22.2021	PERMIT & BID SET

DESIGNED: ACH
DRAWN: ACH/SJW
CHECKED: ARK
TPA COMMISSION NUMBER: 20026
DRAWING TITLE: SITE GRADING PLAN
DRAWING NUMBER: C3.0

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DOWNSPROUT DRAIN PIPING NOTE:
CONTRACTOR TO CONNECT ALL DOWNSPOUT
PIPING WITH THE NECESSARY BENDS, TEES
& WYES AS NEEDED.

LEGEND

	NEW CONCRETE WALK OR PAVEMENT
SA	SANITARY SEWER SERVICE TAP
ST	STORM SEWER
G	GAS SERVICE LINE
W	WATER SERVICE LINE
DS	DOWNSPOUT DRAIN LINE
	CLEANOUT LOCATION
	DOWNSPOUT LOCATION

SEE SHEET C1.0 FOR LEGEND OF
EXISTING TOPOGRAPHIC FEATURES.

SITE UTILITY PLAN
1"=10'

EXISTING UTILITY STRUCTURE SCHEDULE						
STRUCTURE TYPE	ID	RIM	PIPE SIZE	PIPE MATERIAL	DIRECTION	INVERT
EX. CATCH BASIN	30	620.08	12"	PVC	N	614.33
		620.08	12"	PVC	S	614.38
			NEW 12"	PVC	W	616.50
EX. CATCH BASIN	89	619.69	4"	PVC	SE	618.39
		619.69	4"	PVC	SE	616.29
		619.69	6"	PVC	W	615.94
		619.69	4"	PVC	NE	615.89
			NEW 6"	PVC	S	617.27
EX. CATCH BASIN	106	619.92	8"	PVC	SE	616.42
			NEW 6"	PVC	NE	616.93
EX. SANITARY MANHOLE	138	621.08	8"	VIT	W	611.96
		621.08	8"	VIT	SE	611.96

EX. STORM MANHOLE	144	620.97	12"	PVC	NE	615.02
		620.97	8"	PVC	NW	615.47
		620.97	10"	PVC	W	615.97
		620.97	6"	PVC	SW	615.72
EX. CATCH BASIN	165	621.53	12"	PVC	N	614.68
		621.53	12"	PVC	W	614.68
		620.76	10"	PVC	W	616.26
		620.76	10"	PVC	E	616.16

SURVEYOR NOTE:
SURVEYOR HAS MADE NO INVESTIGATION OR
INDEPENDENT SEARCH FOR EASEMENTS OF RECORD,
ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP
TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN
ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

UNDERGROUND UTILITIES
UNDERGROUND UTILITIES AS SHOWN WERE LOCATED IN THE FIELD AND/OR TAKEN FROM
VARIOUS DEPARTMENT RECORDS. THE LOCATIONS ARE AS ACCURATE AS WE CAN
CONFIRM FROM SURFACE MANIFESTATIONS (E.G. VALVES, MANHOLES, ETC.), BUT NO
EXCAVATION WAS DONE BY ESA ENGINEERS, SURVEYORS AND ASSOCIATES, LLC. THE
EXACT LOCATION IS THE RESPONSIBILITY OF THE CONTRACTOR(S). BE SURE TO CALL
THE OHIO UTILITIES PROTECTION SERVICE BEFORE STARTING ANY EXCAVATION AT 811.

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

GRAPHIC SCALE
0 5 10 20
1 inch = 10 feet

THOMAS PORTER ARCHITECTS
8 North St. Clair - Toledo, Ohio 43604-1028
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CONSULTANTS:
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Engineers, Surveyors & Associates, LLC
1335 Secor Rd., Toledo, Ohio, 43623 Phone (419) 479-9445

mda engineering, inc.
Mechanical and Electrical Engineers
1415 Holland Road
Maumee, Ohio 43537
Phone: (419) 893-3141

SEAL:

NOT FOR CONSTRUCTION UNLESS SIGNED & SEALED

RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43440

PROJECT TITLE:

ISSUE OR REVISION:

DATE	ISSUE / REVISION
10.22.2021	PERMIT & BID SET

DESIGNED: ACH
DRAWN: ACH/SJW
CHECKED: ARK

TPA COMMISSION NUMBER: **20026**

DRAWING TITLE:
SITE UTILITY PLAN

DRAWING NUMBER:
C4.0

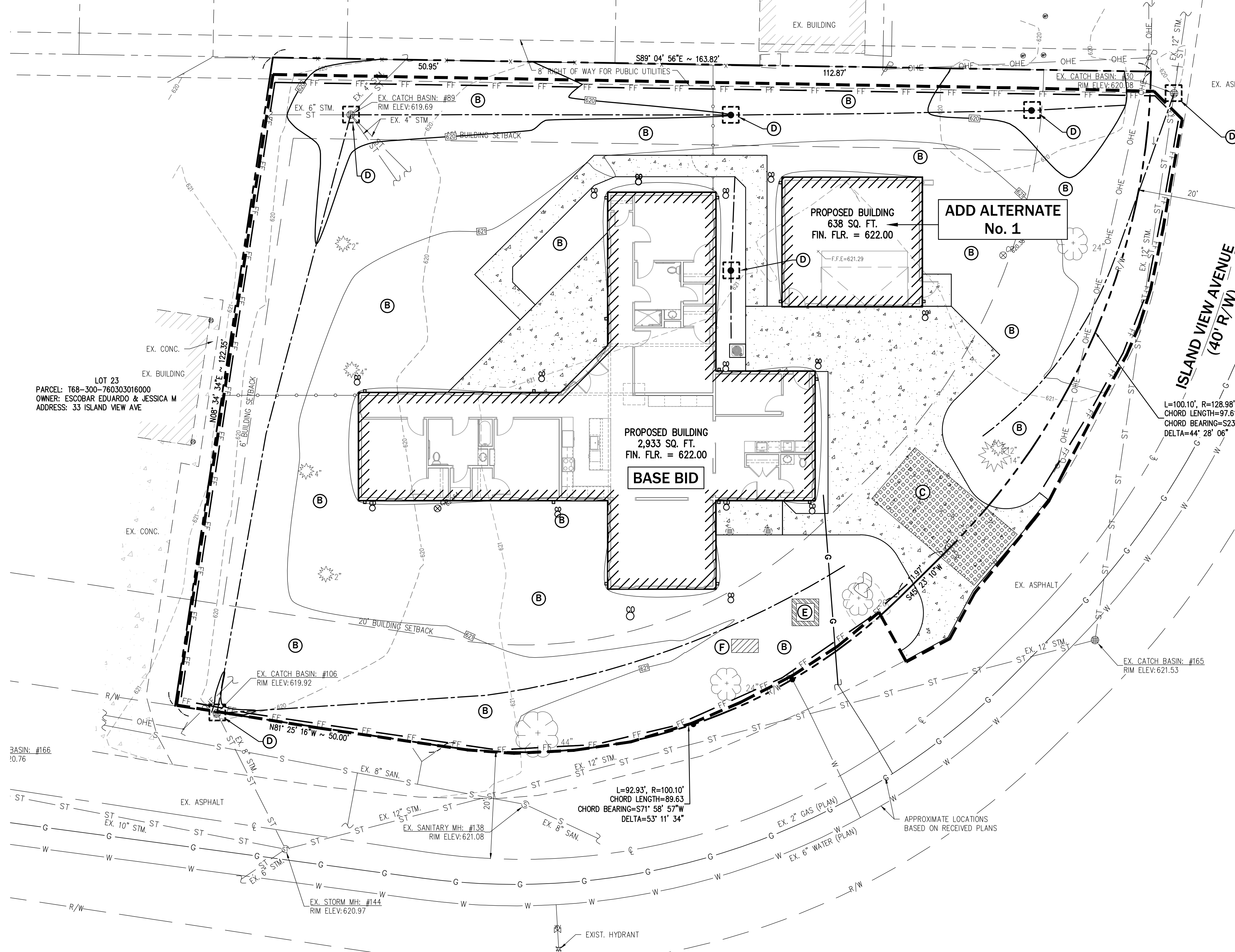
90
60
30
0 10 20 30
1"=30'
60
40
20
0 5 10 15 20
1"=20'
2
1
0
1 1/2"=1'-0"
4
3
2
1
0
3/4"=1'-0"
6
5
4
3
2
1
0
1/2"=1'-0"
8
7
6
5
4
3
2
1
0
3/8"=1'-0"

LOT 33
PARCEL: T68-300-760303005000
OWNER: SEPEDA PETER M
ADDRESS: 1233 SCHREIER RD

LOT 34
PARCEL: T68-300-760303004000
OWNER: TELLO DIRK J
ADDRESS: 1229 SCHREIER RD

LOT 35
PARCEL: T68-300-760303002000
OWNER: BROWN KAREN A
ADDRESS: 1227 SCHREIER RD

LOT 36
PARCEL: T68-300-760303001000
OWNER: NEUSER PATRICK
ADDRESS: 59 ISLAND VIEW AVE



SITE EROSION CONTROL PLAN
1" = 10'

NOTE:
THE CONTRACTOR SHALL PROVIDE A GRAVEL CONSTRUCTION ENTRANCE MAINTAINED DURING CONSTRUCTION OF THE SITE UNTIL A PERMANENT DRIVE IS INSTALLED. ALL TRUCKS ARE TO BE CLEANED OF MUD PRIOR TO DRIVING ON THE STREET. ALL YARD BASINS, SWALES AND DITCHES SHALL BE PROTECTED WITH SILT FENCE AND/OR FABRIC TO PREVENT SOIL FROM ENTERING STORM SEWERS, SWALES AND DITCHES. DURING CONSTRUCTION OF THE SITE, SOIL EROSION CONTROL MEASURES SHALL COMPLY WITH BEST MANAGEMENT PRACTICES (BMPs) IN OHIO'S STANDARDS FOR STORM WATER MANAGEMENT LAND DEVELOPMENT AND URBAN STREAM PROTECTION. THE MANUAL IS ON RECORD AT THE COUNTY ENGINEERS OFFICE OR MAY BE PURCHASED FOR \$20 THROUGH THE OHIO DEPARTMENT OF NATURAL RESOURCES (614-265-6610).

NOTE:
THE CONTRACTOR SHALL MAINTAIN THE FILTER FABRIC FENCE ALONG THE SITE PERIMETER. THE BUILDER SHALL REMOVE THE FILTER FABRIC FENCE AFTER THE GRASS ON THE SITE HAS REACHED MATURE GROWTH.

NOTE:
THE SWP3 SHALL BE CONSIDERED A PART OF THESE CONTRACT DOCUMENTS AS HEREIN TYPED. THE SCHEDULE FOR IMPLEMENTATION OF EROSION CONTROL MEASURES SHALL COMPLY WITH OHIO EPA STANDARDS.

EROSION CONTROL LEGEND

- (A) * FILTER FABRIC FENCE — FF —
- (B) PERMANENT SEEDING & MULCHING
- (C) * CONSTRUCTION ENTRANCE [Symbol]
- (D) * INLET PROTECTION [Symbol]
- (E) * CONCRETE WASHOUT AREA [Symbol]
- (F) DUMPSTER LOCATION / VEHICLE FUELING [Symbol]
- (G) LIMITS OF DISTURBANCE - - - -

THOMAS
PORTER
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RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43440

ISSUE OR REVISION:

DATE	ISSUE / REVISION
10.22.2021	PERMIT & BID SET

TPA COMMISSION NUMBER: 20026

DRAWING TITLE:

SITE EROSION CONTROL PLAN

DRAWING NUMBER:

C5.0



90
60
30
0 10 20 30
1"=30'
60
40
20
0 5 10 15 20
1"=20'
2
1
0
1 1/2"=1'-0"
4
3
2
1
0
3/4"=1'-0"
6
5
4
3
2
1
0
1/2"=1'-0"
8
7
6
5
4
3
2
1
0
3/8"=1'-0"

FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION
PRODUCT SELECTION AND SPECIFICATION DRAWING

1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE

NOTES:
1. ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL FRAMING FOR PROLONGED PRODUCT LIFE.
2. TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZED DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE. CONCRETE STRUCTURES MAY REQUIRE ADDITIONAL REVIEW.
3. UPON ORDERING THE ADS P/N CONFIRMATION OF THE DOT CALL OUT, FLEXSTORM ITEM CODE, CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED.
4. FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC. A DIVISION OF ADS, INC. WWW.INLETFILTERS.COM (866) 287-8655 PH (630) 355-3477 FX INFO@INLETFILTERS.COM

SIZE C (DWG NO. C-OH-SUBMIT) SCALE 1"=1'-0" (SHEET 1 OF 1) REV A

Product selection for FLEXSTORM CATCH-IT Filters (Temporary Inlet Protection)									
Standard	East Jordan Casting	Nominal Casting	Inlet Type	Grate Size	Opening Size	Bag Cap. (ft³)	Flow Ratings (CFS)		ADS P/N
							FX	Bypass	
2-2A	5110 Grate on Cast Iron Angle Frame	R-4859-C	Square/Rect. (SQ)	27.75 x 27.75	24.5 x 24.5	3.3	2.0	5.2	62MSQ22AFX
2-2B2-3/4-2-5/2-6	5110 Grate On 2' x 2' Concrete Box w/ Frame	R-4859-C	Concrete Box (HD)	27.75 x 27.75	24.0 x 24.0	3.3	2.0	5.2	62MSQ2424FX
CB-3	7358 (side by side 7350s)	R-3288	Curb Box (CB)	29.87 x 16.75	28.2 x 14.75	4.4	3.6	6.8	62XLCB3FX
CB-3 Fischer Flap	7358 & 23' x 40' FISCHER FLAP	R-3288	Curb Box (CB)	29.87 x 16.75	28.2 x 14.75	4.4	3.6	6.8	62XLCB3FX-FF
CB-3A	7350	R-3289	Curb Box (CB)	29.87 x 16.75	28.2 x 14.7	2.2	1.8	3.3	62MCB3AFX
CB-3A Fischer Flap	7350 & 23' x 40' FISCHER FLAP	R-3289	Curb Box (CB)	29.87 x 16.75	28.2 x 14.7	2.2	1.8	3.3	62MCB3AFX-FF
CB-6	5254	R-3415 & R-3451	Square/Rect. (SQ)	35.75 x 17.75	34 x 16	2.8	2.0	3.8	62LSQ3618FX
CB-7	Many	Many	Round (RD)	22.0	18.0	1.3	2.5	4.4	62MRD2218FX
N/A	5250	R-3405	Square/Rect. (SQ)	23.6 x 23.6	22.125 x 22.125	3.1	1.9	4.5	62MSQ2222FX
N/A	7390	R-3514-F	Roller Curb (RC)	29 x 27.75	27.375 x 26.125	4.5	2.2	6.5	62LRC7390FX
City of Columbus Standard									
S128	7030/7035	R-3067	Curb Box (CB)	35.5 x 17.75	33.2 x 15.5	2.8	2.0	3.8	62LCB3618FX
S128	7030/7035	R-3067	Curb Box (CB)	35.5 x 17.75	33.2 x 15.5	3.4	2.1	5.2	62LCBEXTFX (EXT)
S129	7495	3501-TR	Roller Curb (RC)	26 x 23.5	26.1 x 21.5	3.2	2.0	5.1	62LRC3501TRFX
S133/S1342-26	5110 Grate On 2' x 2' Concrete Box	R-4859-S	Concrete Box (HD)	27.5 x 27.5	24.0 x 24.0	3.3	2.0	5.2	62MSQ2424FX
S139	5110/5115 Grate on 5110 Frame	R-4859-C	Square/Rect. (SQ)	27.5 x 27.5	25.5 x 25.5	3.7	2.2	5.5	62LSQ2525FX
S138	1660	Many	Round (RD)	22.25	20.7	1.4	2.7	4.8	62MRD2220FX
S140	N/A	N/A	Square/Rect. (SQ)	23.8 x 14.8	22.0 x 13.0	1.6	1.5	3.8	62MSQ2213FX
S141	5115 Grate on 5115 Frame	R-4859	Square/Rect. (SQ)	27.0 x 27.0	25.0 x 25.0	3.6	2.1	5.4	62LSQ2525FX
Ditch Grates	2830, 2870, 6527	Many	Round (RD)	Various	24	1.9	3.0	2.1	62MRD24FX

*FLOW RATINGS SHOWN ARE 50% MAXIMUM

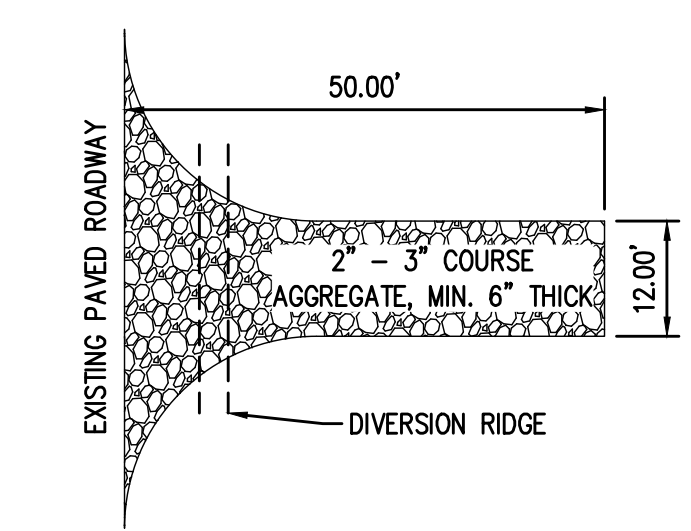
Map Unit Legend

Wood County, Ohio (OH173)

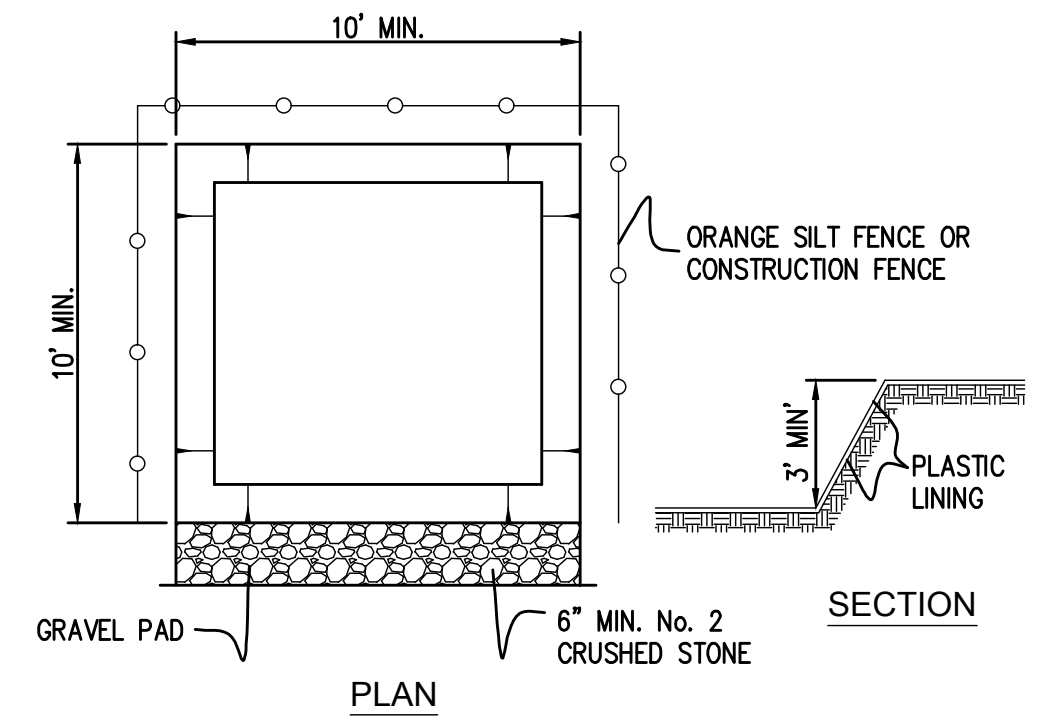
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
TuA	Toledo-Urban land complex, 0 to 1 percent slopes	0.5	100.0%
Totals for Area of Interest		0.5	100.0%



SOILS MAP



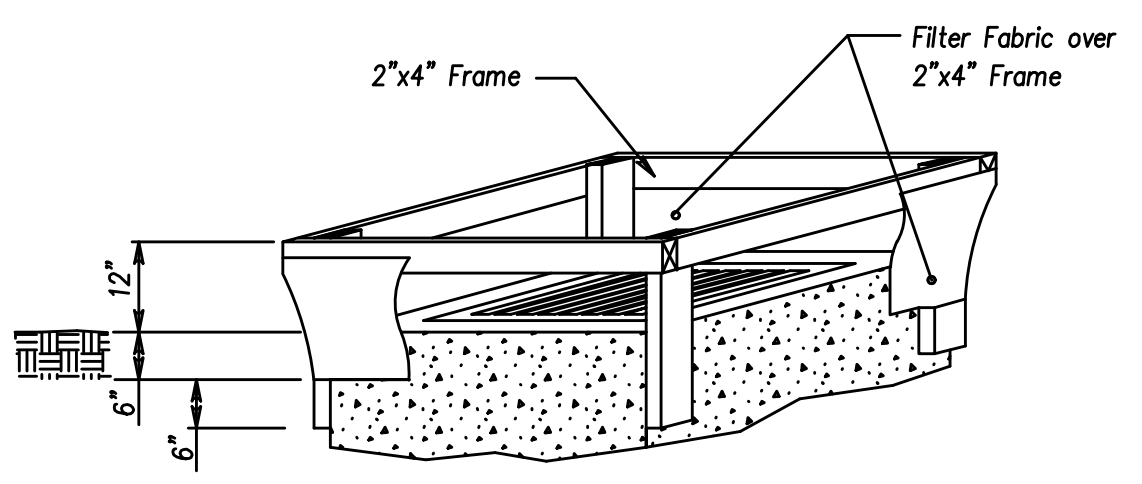
TYPICAL CONSTRUCTION ENTRANCE/EXIT DETAIL
SCALE = NTS



NOTE: CONTRACTOR CAN USE PORTABLE CONCRETE WASHOUT AREAS IN LIEU OF CONCRETE WASHOUT BASINS (RECOMMENDED).
WASHOUT AREAS MUST HAVE SOME FORM OF PLASTIC LINING.
CONCRETE WASHOUT AREA
SCALE = NTS

SOIL EROSION & SEDIMENTATION CONTROL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH OHIO EPA NPDES CONSTRUCTION STORM WATER GENERAL PERMIT (NO. OH000005). SOIL EROSION CONTROL MEASURES SHALL CONFORM WITH THE SPECIFICATIONS OF OHIO'S RAINWATER AND LAND DEVELOPMENT MANUAL BEST MANAGEMENT PRACTICES (BMP).
- AN SWP3 IS REQUIRED FOR ALL PROJECTS THAT DISTURB 1 ACRE OR MORE AND MUST BE MAINTAINED ON SITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
- A NOTICE OF INTENT (NOI) APPLICATION MUST BE FILED WITH THE OHIO EPA FOR ALL PROJECTS THAT DISTURB 1 ACRE OR MORE AT LEAST 21 DAYS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
 - ALL "OPERATORS" MUST OBTAIN PERMIT COVERAGE BEFORE BREAKING GROUND. THIS INCLUDES CONTRACTORS ASSOCIATED WITH AND RESPONSIBLE FOR THE SOIL EROSION ACTIVITIES.
 - THESE "OPERATORS" MUST FILE A CO-PERMITTEE NOI WITH THE OHIO EPA. THIS IS THE SOLE RESPONSIBILITY OF THE CO-PERMITTEE.
- THE CONTRACTOR SHALL PROVIDE REGULAR INSPECTIONS AND MAINTENANCE FOR ALL SOIL EROSION CONTROL PRACTICES.
- SOIL EROSION AND SEDIMENTATION BEST MANAGEMENT PRACTICE (BMP) MEASURES WILL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND WILL BE MAINTAINED AT ALL TIMES UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING ALL GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES ARE IN PLACE.
- CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE TO CONTROL EROSION PRIOR TO COMMENCEMENT OF ANY EARTHWORK OPERATIONS. DRIVEWAY SURFACE SHALL BE COMPOSED OF 3" CLEAN AGGREGATE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THIS ACCESS ROUTE WHEN CONDITIONS WARRANT.
- CONTRACTOR TO DESIGNATE A SITE DUMP/WASH AREA PRIOR TO STARTING CONSTRUCTION FOR SUCH PURPOSES AS WASHING OUT CONCRETE TRUCKS AND DUMPING NON-HAZARDOUS WASTE MATERIALS. SUBJECT TO THE SUPERVISION OF THE LOCAL GOVERNING AGENCIES. DUMPING OR DISCHARGE OF ANY WASTE MATERIALS TO ANY CITY OF ROSSFORD SEWERS IS PROHIBITED. HAZARDOUS WASTES ARE TO BE REMOVED OFF SITE AND PROPERLY DISPOSED OF CONSISTENT WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- ALL TEMPORARY AND PERMANENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED TO ENSURE CONTINUED PERFORMANCE.
- PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING.
- ALL DISTURBED AREAS THAT WILL REMAIN DORMANT FOR MORE THAN 14 DAYS MUST BE TEMPORARILY STABILIZED WITHIN 7 DAYS.
- TEMPORARY INLET PROTECTION SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION FOR ALL CATCH BASINS ON SITE.
- SHEET FLOW RUNOFF FROM DENUDEED AREAS SHALL BE INTERCEPTED BY SEDIMENT BARRIERS.
- PERMANENT STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED AND FOR AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE.
- CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
- CONTRACTOR SHALL PROVIDE ROUTINE STREET SWEEPING TO ENSURE MINIMAL EROSION INTO THE PUBLIC STORM SEWER SYSTEM AND ROADWAY. CLEANUP WILL BE CONDUCTED IN A MANNER TO ENSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.
- STOCKPILED SOILS SHALL BE LEGALLY REMOVED FROM THE SITE OR SEEDED AND SURROUNDED WITH SILT FENCE UNTIL SUCH TIME THAT IT CAN BE REUSED ON SITE.
- A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED WITHIN 45 DAYS OF COMPLETING ALL LAND DISTURBANCE ACTIVITIES.



NOTES

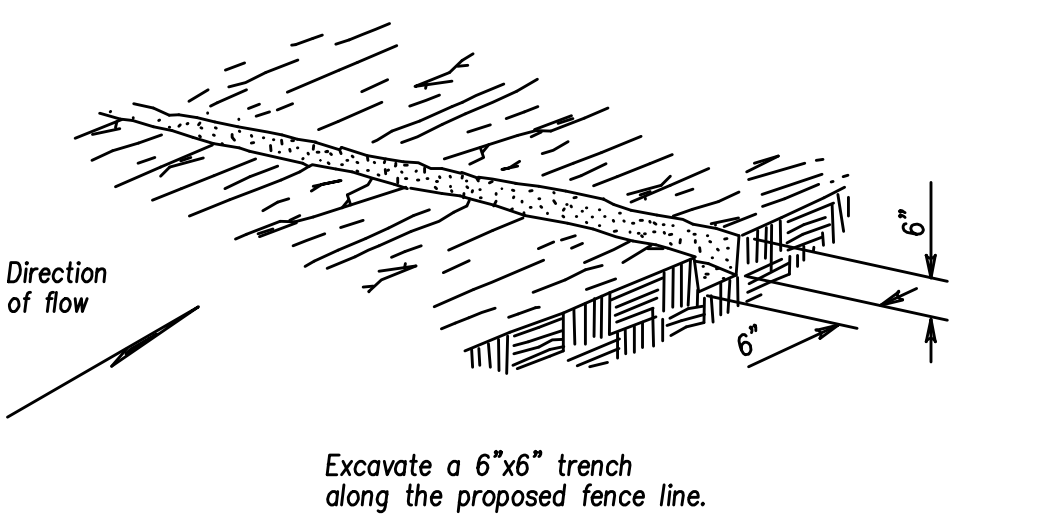
MATERIALS: Filter fabric shall meet the requirements of CMS 712.09, Type C. Support stakes shall be a minimum of 1.5"x1.5", nominal, and shall be hardwood of sound quality. The stakes shall be driven a minimum of 6" below the bottom of the filter fabric. The maximum spacing between support stakes shall be 10'.

CONSTRUCTION: The bottom of the fabric shall be buried 6" below the ground. The ends of adjacent sections of fence shall be overlapped with the end stake of each section wrapped together prior to installation. The ground elevation of the fence shall be held constant except that the end elevations shall be raised upslope to prevent flow around the end of the fence.

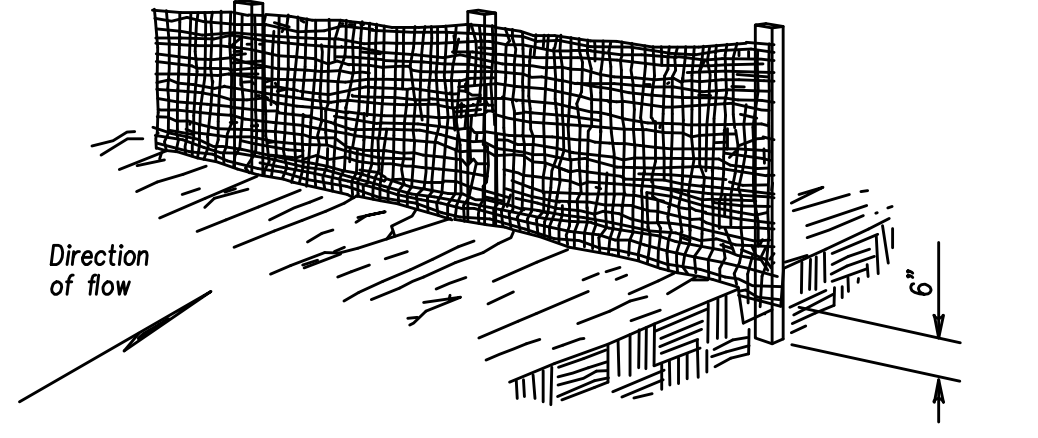
MAINTENANCE: The filter fabric fence shall be maintained to be functional. This shall include removal of trapped sediment and required cleaning, repair, and replacement of the filter fabric. The maintenance or replacement cost will be paid for by the Department under unit bid prices, agreed unit prices, or CMS 109.04.

PAYMENT: The cost of all materials, construction and removal shall be paid for under Item 207 - Temporary Perimeter Filter Fabric Fence or Temporary Ditch Check Filter Fabric Fence, Linear Foot.

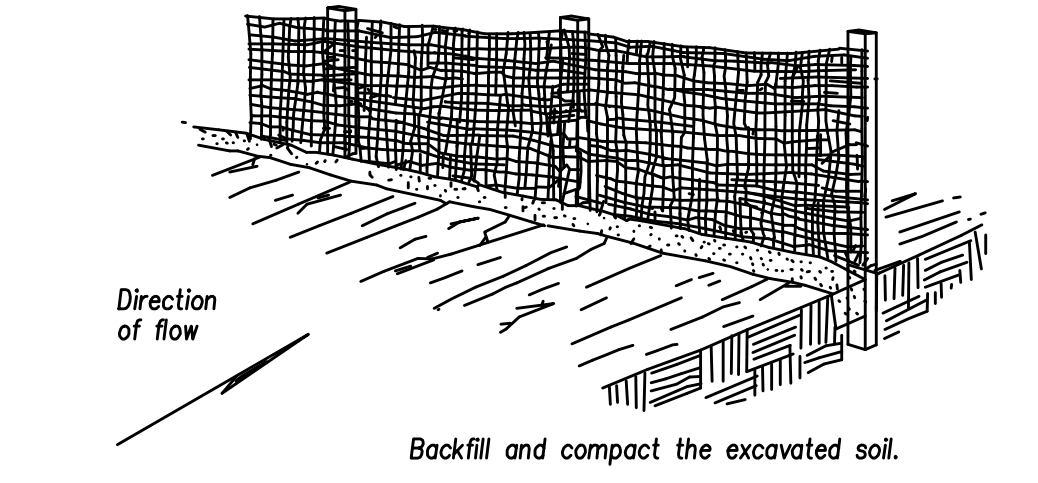
TEMPORARY INLET PROTECTION FILTER FABRIC FENCE



STEP 1



STEP 2



STEP 3

PLACEMENT AND CONSTRUCTION OF PERIMETER FILTER FABRIC FENCE

THOMAS PORTER ARCHITECTS

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Phone: (419) 893-3141

SEAL:

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WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES
41 ISLAND VIEW AVENUE
ROSSFORD, OH 43440

ISSUE OR REVISION:

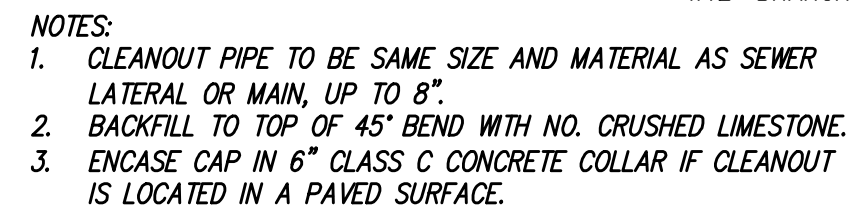
DATE	ISSUE / REVISION
10.22.2021	PERMIT & BID SET

DESIGNED: ACH
DRAWN: ACH/SJW
CHECKED: ARK

TPA COMMISSION NUMBER: 20026

DRAWING TITLE:
EROSION CONTROL NOTES AND DETAILS

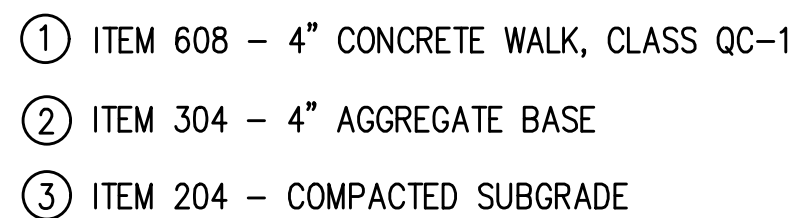
DRAWING NUMBER:
C6.0



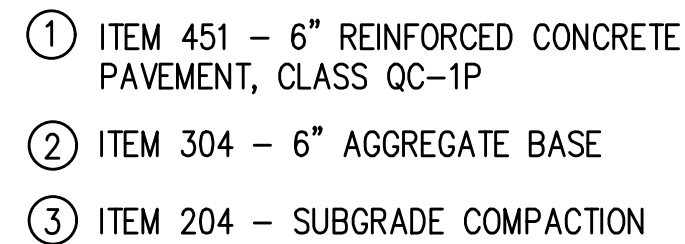
SCALE = NTS

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ODOT DATED JANUARY 1, 2019 AND CITY OF ROSSFORD CONSTRUCTION STANDARDS.
2. PIPE WITHIN FIVE (5) FEET OF THE EDGE OR BACK OF CURB OF EXISTING OR PROPOSED PAVEMENT AND UNDER THE EXISTING OR PROPOSED SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL TO THE SUBGRADE. GRANULAR MATERIAL SHALL MEET THE GRADING REQUIREMENTS OF ITEM 304, ODOT SPECIFICATIONS (MAXIMUM DRY DENSITY EXCEEDING 105 LB/CU. FT. AND 98% COMPACTION AS DETERMINED BY THE STANDARD PROCTOR TEST). THE ENGINEER RESERVES THE RIGHT TO ORDER COMPACTION TESTS IF DEEMED NECESSARY.
3. STORM SEWER PIPING
 - A. TYPE B OR C PIPING LESS THAN 18" MAY BE ONE OF THE FOLLOWING:
 - i. CONCRETE CONDUIT MEETING ODOT 706.02 WITH 706.11 JOINTS
 - ii. PVC CONDUIT MEETING ODOT 707.45 (15" AND SMALLER) AND ASTM F679 (18").
 - B. 21" AND 24" TYPE C CONDUIT MAY BE ONE OF THE FOLLOWING:
 - i. CONCRETE CONDUIT MEETING ODOT 706.02 WITH 706.11 JOINTS
 - ii. PVC CONDUIT MEETING ODOT 707.42, ODOT 707.43 OR ASTM F679.
 - C. 21" AND 24" TYPE B CONDUIT MAY BE ONE OF THE FOLLOWING:
 - i. CONCRETE CONDUIT MEETING ODOT 706.02 WITH 706.11 JOINTS
 - D. 27" PIPING AND OVER MAY BE ONE OF THE FOLLOWING:
 - i. CONCRETE CONDUIT MEETING ODOT 706.02 WITH 706.11 JOINTS
4. CIRCULAR CATCH BASINS AND MANHOLES SHALL MEET ASTM C-478 WITH ASTM C-443 O RING JOINTS.
5. HOLD ALL STORM WATER COLLECTION INLETS, CB'S, ETC. $\frac{1}{4}$ " LOWER THAN THE PAVING.
6. THE CONTRACTOR IS TO IMPLEMENT BEST MANAGEMENT PRACTICES INCLUDING BUT NOT LIMITED TO: ALL CATCH BASINS NEAR DISTURBED AREAS SHALL HAVE SILT FENCE PLACED. ALL GRASS AREAS ARE TO BE SEEDS & STRAW MULCHED WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED. ALL CATCH BASINS TO HAVE SUMPS.
7. CONTRACTOR IS TO DESIGNATE A SITE DUMP/WASH AREA PRIOR TO STARTING CONSTRUCTION FOR SUCH PURPOSES AS WASHING OUT CONCRETE TRUCKS AND PUMPING NON-HAZARDOUS WASTE MATERIALS, SUBJECT TO THE SUPERVISION OF THE CITY OF MAUMEE. DUMPING OR DISCHARGE OF ANY WASTE MATERIALS TO ANY SEWER IS PROHIBITED. HAZARDOUS WASTES ARE TO BE REMOVED OFF-SITE AND PROPERLY DISPOSED OF CONSISTENT WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

1. THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.
2. BIDDERS SHALL VISIT AND EXAMINE THE SITE AND ALL CONTRACT DOCUMENTS. FAILURE OF A BIDDER TO BE ACQUAINTED WITH THE WORK WILL NOT BE CONSIDERED AS A BASIS FOR ADDITIONAL COMPENSATION.
3. CONTRACTOR TO PROVIDE A COMPLETE AND OPERABLE INSTALLATION FOR THE PROJECT.
4. CONSTRUCTION SHALL BE IN CONFORMANCE WITH CITY OF ROSSFORD STANDARDS.
5. WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
6. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS.
7. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS, DIMENSIONS, LOCATIONS AND MATERIALS.
8. CONTRACTOR SHALL REPAIR OR REPLACE, AT NO ADDITIONAL COST, ANY EXISTING IMPROVEMENTS DAMAGED DURING THE WORK.
9. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
10. THE LOCATION OF ALL UNDERGROUND UTILITIES IS APPROXIMATE. THE EXACT LOCATION OF ANY UNDERGROUND UTILITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
11. CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS AT 1-800-362-2764) AT LEAST 3 WORKING DAYS PRIOR TO COMMENCING WORK.
12. ALL LAYOUT TO BE BY A REGISTERED SURVEYOR OR ENGINEER.
13. CONTRACTOR SHALL PROVIDE TEMPORARY SIGNS AND BARRIERS AT LIMITS OF CONSTRUCTION TO ASSURE PUBLIC SAFETY DURING CONSTRUCTION.
14. ALL STREETS MUST BE MAINTAINED DURING CONSTRUCTION. STREETS SHALL BE KEPT FREE OF MUD, DIRT AND CONSTRUCTION DEBRIS.
15. CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE AND REMOVE ALL WASTE MATERIALS AND RUBBISH FROM THE PROJECT.
16. SEED ALL AREAS NOT SHOWN AS PAVEMENT AS WELL AS AREAS DISTURBED BY CONSTRUCTION OPERATIONS.
17. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH ODOT ITEM 640. PARKING LOT PAINT STRIPES TO BE WHITE EXCEPT ADA ACCESSIBLE SPACES WILL BE BLUE.
18. THE CONTRACTOR IS TO IMPLEMENT BEST MANAGEMENT PRACTICES INCLUDING BUT NOT LIMITED TO: ALL CATCH BASINS NEAR DISTURBED AREAS SHALL HAVE SILT FENCE PLACED. ALL GRASS AREAS ARE TO BE SEEDDED AND STRAW MULCHED WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED. ALL CATCH BASINS TO HAVE SUMPS.
19. SOIL EROSION AND SEDIMENTATION BMP MEASURES SHALL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND SHALL BE MAINTAINED AT ALL TIMES UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES. ALL BMP MEASURES WILL BE TO THE SATISFACTION OF THE CITY OF MAUMEE.
20. INSPECTION SHALL BE FURNISHED BY CITY OF ROSSFORD OR AN ENGINEER OR TESTING LABORATORY DESIGNATED BY CITY OF ROSSFORD.



N.T.S.



N.T.S.



FOR RIGID CONDUIT: $W = \text{PIPE (O.D.)} \times 1.33$
 FOR FLEXIBLE CONDUIT: $W = \text{PIPE (O.D.)} \times 1.25 + 12''$
 CONDUIT DEFINED UNDER ITEM 611.03

**** IF ANY PORTION OF THE TRENCH IS UNDER OR WITHIN
 3 FEET OF THE PAVEMENT WHEN THE TRENCH DEPTH \leq 7 FEET.
 OR
 IF ANY PORTION OF THE TRENCH IS UNDER OR WITHIN
 5 FEET OF THE PAVEMENT WHEN THE TRENCH DEPTH $>$ 7 FEET.**

N.T.S.

C7.0

NORTHWESTERN WATER & SEWER DISTRICT SANITARY SEWER GENERAL NOTES AND SPECIFICATIONS

1.0 GENERAL

1.1 Technical Standards

- A. All material and construction shall meet the requirements of the American Water Works Association (AWWA), Ohio Department of Transportation (ODOT), The Ohio Environmental Protection Agency (OEPA), Recommended Standards for Wastewater Facilities (10 States Standards) and American Society of Testing Materials (ASTM).
- B. References to the "District" in these specifications shall mean the Northwestern Water and Sewer District or its designated representative.

1.2 Drinking Water Facilities Separation

- A. A minimum of 10-foot horizontal and eighteen 18-inches of vertical clearance shall be maintained between sanitary sewers and public water mains. In the event that specified clearances cannot be maintained between the sanitary sewer and water main pipe, the sanitary sewer pipe shall be installed in accordance with the requirements of 10 States Standards.
- B. The District shall reserve the right to require the sanitary sewer to be constructed using pressure pipe in accordance 10 States Standards.

1.3 Minimum Cover

- A. Gravity and pressure pipe sanitary sewers shall be installed a minimum of 5-feet below final grade. The Contractor shall submit installations requiring less than 5-feet of cover for review by the District.

1.4 Storm Water and Drainage Connections

- A. Roof drains, foundation drains, storm sewers, sump pumps and other clean water connections to the sanitary sewer are strictly prohibited.

1.5 Erosion and Sedimentation Control

- A. All activities where disturbed soils are anticipated shall be maintained with proper erosion and sedimentation controls in accordance with the OEPA General Permit for Construction Activities and to the satisfaction of the Wood County Engineer or other local agency having jurisdiction over storm water drainage.

1.6 Coordination

- A. The Contractor shall schedule and attend a pre-construction meeting to be held prior to commencing any part of the work. The pre-construction meeting shall be scheduled to occur at minimum of one-week prior to the start of any part of the work.
- B. The Contractor shall notify the District a minimum of 72-hours prior to the commencement of any part of the work.
- C. The Contractor shall submit any proposed changes to the approved design plan in writing to the District for review.
- D. The Contractor shall promptly notify the District of any discrepancies between the requirements of these Specifications.

1.7 Inspections

- A. All work is subject to inspection and review of the District.
- B. No work shall be permitted without a designated representative of the District present.
- C. Sewer pipe invert elevations will be checked at manholes to ensure proper grade.
- D. Sewers with grades less than the design grades shall be rejected. Rejected sewers shall be replaced at no additional cost to the District.

1.8 Construction Limits

- A. The Contractor must at all times conduct his operations within the public right-of-way, easements, or work agreements as shown.

1.9 Existing Utilities

- A. The location of all utilities shown on the plans are as obtained from the owners of the utility. No guarantee of accuracy of these utilities is made. The Contractor shall be responsible for verifying the location of existing utilities and protecting the same during the execution of the work.
- B. Prior to commencing construction operations in an area which may involve underground utility facilities, the Contractor shall notify the District, and the Ohio Utilities Protection Service (OUPS) (1-800-362-2764).

1.10 Permits

- A. The District shall obtain environmental and roadway permits from: OEPA, ODOT, Townships and Wood County Engineer.
- B. The Contractor shall obtain all other required work permits prior to commencing any portion of the work.

1.11 Maintenance of Existing Flows

- A. The Contractor shall maintain flow in all pipelines encountered during the work. Sewage or other liquid must be handled by the Contractor either by connection into an existing sewer or by temporary pumping to a satisfactory outlet as approved by the District. Sanitary sewage and storm drainage shall not be drained to the same outlet.
- B. The Contractor shall submit all plans for pumping flow into alternate outlets for review by the District.
- C. Flow maintenance pumps and equipment shall be of sufficient capacity and design to handle the range of flow expected to occur in each sewer. This District can provide guidance regarding the typical existing flow, however, the Contractor shall be responsible for the design and operation of pumping equipment provided to maintain of all existing flows including those in excess of the District's recommendations.
- D. The Contractor shall be prepared to perform the work on weekends and or evenings so as to minimize disruptions to the public.

1.12 Safety

- A. The provision of all safety measures shall be responsibility of the Contractor.
- B. Contractors performing work under these specifications shall conduct the work in accordance with all applicable local, State and Federal safety requirements.

2.0 GRAVITY SANITARY SEWERS, FITTINGS, STRUCTURES AND MATERIALS

2.1 Gravity Sanitary Sewer Pipe Materials

- A. Gravity sanitary sewers less than or 18-inches in diameter shall be solid wall premium joint SDR 35 PVC sewer pipe conforming to ASTM D-3034. Gravity sanitary sewer deeper than 20' in depth shall be solid wall premium joint SDR 26 PVC sewer pipe conforming to ASTM D-3034. The minimum cell classification for PVC pipe shall be 12454.
- B. Gravity sanitary sewers 18-inches in diameter and larger shall be solid wall, premium joint PVC sewer pipe provided in accordance with ASTM F-479. The required SDR for pipes 18-inches and larger shall be determined on a case by case basis with consideration given to the soil materials and depth of installation.
- C. IDENTIFICATION TAPE: An identification tape printed with the wording "SEWER" shall be installed directly over the main approximately 30-inches below grade.

- D. SERVICE LATERALS: Sanitary sewer laterals shall be 6-inch diameter premium joint SDR 35 PVC sewer pipe conforming to ASTM D-3034 unless otherwise approved by the District.
- E. PRIVATE SEWERS: Private sanitary sewers larger than 6-inches in diameter shall require manhole structures at all connecting sewers and changes in direction in accordance with the 10 States Standards.
- F. Private sewers connecting to the District's system shall be constructed in accordance with the requirements of these Specifications.
- G. Alternate Pipe materials may be submitted by the Contractor for review by the District.

2.2 Gravity Sanitary Sewer Fittings

- A. PVC Pipe Fittings shall have a minimum cell classification of 12454-B as defined in ASTM D-1784. The SDR ratio for fittings shall be equal to or greater than the SDR ratio of the pipe used for the construction of the gravity sewer main.
- B. PVC pipe sanitary sewer fittings installed greater than 18-feet below grade shall be ASTM D-3034 SDR-26 deep socket style fittings.

2.3 Sanitary Sewer Manhole Structures

- A. All sanitary sewer manholes shall be precast concrete sections provided in accordance with ASTM C-478. Cast in place structures may be substituted for precast sections if approved in advance by the District. The minimum wall thickness shall be as shown on these Specifications with Grade 60 steel reinforcement. Concrete shall have a minimum compressive strength of 5000 psi.
- B. ADJUSTMENT RINGS: Precast concrete adjustment rings shall be provided with a maximum of 18-inches of total adjustment height between the bottom of the casting and the top of the manhole chimney section.
- C. CASTINGS: Standard cast iron manhole frame and covers shall be East Jordan Iron Works 1020A or Neenah 1772 with the District Logo cast on cover.
- D. RUBBER GASKET JOINTS: An o-ring type gasket shall be provided at all manhole joints in accordance with ASTM C-443.
- E. MANHOLE JOINT SEALANTS: Manhole joint sealants shall meet the Requirements of ASTM C-990, Federal Specification SS-S-210A or AASHTO M198B.
- F. CHIMNEY SEALS: All manhole adjustment rings and casting shall be sealed with an internal or external seal. Internal seals shall be FLEX Seal. External seals shall be WRAPID Seal or approved equal. Alternate chimney seal materials may be submitted for review by the District.
- G. MANHOLE STEPS: Manhole steps shall be constructed from polypropylene material, installed at the locations and spacing as specified, meeting the requirements of ODOT Item 711.31.
- H. MANHOLE IDENTIFICATION: The following shall be clearly stenciled or impressed on each manhole section: manhole number, casing data, the name or trademark of the manufacturer and location of plant.
- I. CONCRETE COLLARS: All manholes located in existing pavement areas shall be provided with a concrete collar unless otherwise approved. The specifications for the local jurisdiction in charge of roadway maintenance shall take precedence when determining the proper concrete collar detail.

2.4 Sanitary Manhole Connections

- A. PIPE CONNECTIONS: New piped connections to existing manhole structures shall be a resilient type connection in accordance with the requirements of ASTM C-923. Resilient type pipe connections shall be Kor-N-Seal boots or approved equal.
- B. No other utilities shall be installed inside a sanitary sewer manhole. Utilities discovered inside existing sanitary sewer manholes shall be removed by the owner of that utility.

3.0 SANITARY SEWER PRESSURE PIPES AND FITTINGS

- A. Polyvinyl Chloride (PVC) pipe shall be used for pressure pipe pipe sizes 4-inches through 16-inches in diameter. Ductile iron pipe shall be used for pipe larger than 16-inches in diameter and less than or equal to 24-inches in diameter. High Density Polyethylene pipe shall be used for pressure pipe smaller than 4-inches in diameter. The District shall reserve the right to specify the pipe material for pressure pipes based upon the proposed service or installation method.
- B. Valves required on forcemains 12-inches in diameter and larger shall be placed in manholes.
- C. The opening direction for valves shall be as specified.
- D. Bolts, nuts or other required hardware to be placed below grade shall be type 304 stainless steel or shall be coated with a baked ceramic filled fluorocarbon resin.

3.1 Polyvinyl Chloride Pipe

- A. PVC pipe for pressure pipes 4-inches through 12-inches in diameter shall be a minimum of DR18 with ductile iron equivalent outside diameter in accordance with AWWA C900. Molecular Oriented Polyvinyl Chloride Pipe (PVCO) pipe for pressure pipes 4-inch through 12-inches in diameter shall be a minimum of PC235 with ductile iron equivalent outside diameter in accordance with AWWA C909.
- B. PVC pipe for pressure pipes 14-inches through 16-inches in diameter shall be a minimum of DR18 in accordance with AWWA C905.
- C. Restrained joint or fused joint PVC pipe may be used for pressure pipes installed by horizontal directional drilling.
- D. Pipe shall be of the integral wall-thickened bell end type incorporating elastomeric gaskets to affect the pressure seal.
- E. Pipe shall be designed for direct connection into ductile iron fittings using mechanical joints.

3.2 High Density Polyethylene (HDPE) Pipe

- A. HDPE pipe for pressure pipes less than 3-inches in diameter shall be DR9 copper tubing size in accordance with AWWA C901. All fittings for low pressure sewer systems shall be brass compression style fittings.
- B. HDPE pipe for pressure pipes 3-inches in diameter shall be DR11 iron pipe size in accordance with AWWA C901. All fittings for low pressure sewer systems shall be brass compression style fittings.
- C. HDPE pipe materials to be used for sewer service shall be solid black or black marked with a green identification stripe.

3.3 Ductile Iron Pipe

- A. Ductile iron pipe for pressure pipes shall be Class 52, minimum in accordance with AWWA C151 with rubber gasket joints in accordance with AWWA C111. The pipe shall have a cement mortar lining AWWA C104 and asphaltic coating in accordance with AWWA C151. Bronze wedges shall be used at all push-on joints (two per joint). The wedge shall be driven into the push-on joint to provide electrical conductivity between pipes.

3.3 Plug Valves

- A. Plug valves shall be resilient seated, non-rising stem type, designed for a maximum working pressure of 200 psi, provided in accordance with AWWA C517. Plug valves shall be provided with a 2-inch operating nut.
- B. Plug valves shall have a full port area to match the pressure pipe inside diameter.
- C. Plug valves shall be DeZurick PEF Plug valve or approved equal.

3.4 Fittings and Joints

- A. Fittings shall be ductile iron, mechanical joint type or push-on type incorporating rubber gaskets. Caps and plug fittings shall be provided with standard tapped connections. Fittings shall be class 250 minimum, provided in accordance with AWWA C111 and C150, asphaltic coated in accordance with AWWA C151 or fusion bonded epoxy coating in accordance with AWWA C116 and cement mortar lined in accordance with AWWA C-104.
- B. Fittings for HDPE pipe including but not limited to, elbows, tees, branch saddles, adaptors and transitions shall be HDPE pipe. Fittings shall have the same or better cell classification as the pipe. Fittings shall provide a pressure rating equal to or greater than the HDPE pipe. Joint restraints shall be provided as specified.
- C. HDPE pipe shall be joined by heat fusion butt welds between plain ends of pipe. Where conditions are not conducive to allow or manufacturer does not recommend heat fusion butt welds, an electrofusion coupling shall be used.
- D. HDPE mechanical joint adaptor and backer ring (retainer gland) shall be used to connect HDPE pipe to PVC or Ductile Iron Pipe (DIP) materials. The mechanical joint adaptor shall join to the HDPE pipe as specified and the DIP mechanical joint shall connect to the PVC or DIP end using a standard mechanical joint connection.

3.5 Joint Restraints

- A. Mechanical joint restraints shall be provided at all dead ends, bends, tees, valves and other locations as required or specified. Mechanical joint restraints shall be provided in accordance with AWWA C111 and C153. Mechanical joint restraints shall include a restraining mechanism that when actuated, impacts multiple wedging actions against the pipe, increasing its resistance to movement as internal pipe pressure increases. The restraining device shall be constructed of ductile iron with a minimum working pressure of 250 psi and a safety factor of 2:1.
- B. The dimensions of the joint restraint shall be such that it can be used with standard mechanical joint bell and tee-head bolts conforming to AWWA C111. Twist-off nuts shall be used to insure proper actuation of the restraining devices.

3.6 Polyethylene Wrap

- A. Ductile iron pipe and fittings shall be wrapped in a minimum 8 mil thick polyethylene tube per AWWA C105. Fittings shall be wrapped for a distance of 5-feet on each side of the fitting. Rips, tears, punctures or other damage to the polyethylene tube shall be repaired prior to placement of backfill.

3.7 Valve Boxes

- A. Valve boxes shall be 3 piece design, cast iron installed plumb and centered over the valve operator. Valve boxes located in pavement shall be installed so no loads are transmitted by the valve box onto the valve.
- B. Valves located more than 5-feet below grade shall be provided with valve extensions.
- C. Valve box castings shall be marked "SEWER."

3.8 Locating Wire / Identification Tape / Utility Markers

- A. A detectable locating tracer wire shall be installed directly over and on the center of non-metallic pressure pipes in open cut applications along the entire length to provide a reflective (inductive) path to determine pipe alignment and location after installation. The tracer wire shall be brought to the surface at a minimum of 500-foot intervals in a Copperhead Industries SnakePit Roadway tracer box. A 4-foot extra tracer wire extension shall be provided at each access point. The tracer wire shall be brought to the surface on the outside of all valve boxes and manholes. All wire connections shall be made with a Copperhead SnakeBit DryConn Direct Bury 3 way Lug or approved equal.
- B. For open cut trench applications, the tracer wire shall be #12 gauge wire with 30 mil polyethylene insulation coating.
- C. For horizontal directional drilling applications the tracer wire shall be Copperhead or equal #12 gauge Extra High Strength (EHS) wire that has a minimum of an 1150 lbs break load. The tensile strength of the tracer wire shall be greater than the tensile strength of the pipe being installed by horizontal directional drilling methods.
- D. After installation tracer wire shall be tested for continuity. Tracer wire shall be considered acceptable when a continuous non-interrupted read is obtained for the entire length of the pipe line.
- E. An identification tape printed with the wording "SEWER" shall be installed directly over the main approximately 30-inches below grade.
- F. Utility markers shall be provided over the pressure pipe at intervals not to exceed 1000-feet spacing and at all valves and fittings to properly show the alignment. Markers shall be Corsonite CUM-375 or approved equal. The wording for the markers shall be submitted to the District for review.

4.0 LOW PRESSURE SEWER MATERIALS AND EQUIPMENT

4.1 Grinder Pumps

- A. Grinder Pumps shall be manufactured by Environmental One. Model DH071-93 Station Part Number D200B14E22BJ for single pump applications and Model DH152-93 Station Part Number D200L14B18BJ for duplex pump applications. (Model and Part Numbers as of February 2015)

4.2 Electrical

- A. All electrical work performed shall comply with the requirements of all local building codes.
- B. Electrical conduit required for the installation of the grinder pump may be run through soffit, crawl space, basements or below grade to comply with manufacturer requirements and in accordance with the requirements of all local building codes.
- C. The grinder pump alarm box shall be installed with clear line of sight between the grinder pump and the alarm box. The alarm box also must be installed to be clearly visible from the roadway.

4.3 Private Property Coordination

- A. The Contractor shall coordinate with private property owners for installation and verification of existing conditions.
- B. The private property owners are not authorized to direct the Contractor to make changes in the work as shown or specified. Any changes requested by the private property owner shall be provided to the District for review. The District shall direct any changes to the work as shown or specified.

5.0 INSTALLATION OF GRAVITY SEWERS

5.1 Excavation

- A. Excavations shall be made to the outside dimensions and to the depths shown or as specified. Topsoil which is suitable for finish grading shall first be carefully removed, stored separately and replaced, after backfilling and rough grading are complete.

5.2 Pipe Bedding Material

- A. Pipe shall be laid on a properly shaped and firm bedding of the type specified meeting the requirements of ODOT Item 603.05. If directed by the District, the Contractor shall excavate unsuitable material below the bottom of the pipe bedding. Unsuitable material removed shall be replaced with granular material per ODOT Item 603.05.
- B. Pipe bedding material for flexible pipes shall consist of a bed of granular stone with a thickness as specified below the bottom of the pipe to provide proper support and extending to a plane of above the crown of flexible pipe. Granular bedding material shall be No. 57 or No. 8 aggregate in accordance with ODOT Item 703.11 unless otherwise approved by the District.

5.3 Installation of Pipe

- A. Pipe and appurtenances shall be installed true to line, grade and locations shown on the design drawings with joints centered, spigots pushed home and properly supported. Care shall be used in the laying of pipe to ensure the pipe is properly supported for the entire length of the pipe barrel.
- B. The minimum grades for pipe sewers shall be in accordance with the requirements of Section 33.4 of 10 States Standards. The minimum grade for 6-inch services shall be 1.00%. Pipe sewers shall not be installed with grades less than the minimums listed without the prior review of the District.

5.4 Manholes

- A. The Contractor shall note any damaged or defective manhole sections for review by the District. The District shall reserve the right to direct repairs to damaged or defective manhole sections or to require replacement. Repairs shall be in accordance with the requirements of ASTM C-478.
- B. Pipe connections shall be a minimum of 6-inches from any joints in the structure.
- C. DROP CONNECTIONS: A drop pipe shall be required for all pipes entering the manhole at an elevation of 24-inches above the flow line of the manhole. The minimum drop pipe diameter for sanitary sewer manholes shall be 6-inches.
- OUTSIDE DROP CONNECTIONS: All new manholes that include drop connections shall be constructed using an outside drop connection.
 - INSIDE DROP CONNECTIONS: Inside Drop Connections may only be used on existing manholes as approved by the District. The District shall reserve the right to require an outside drop connection to existing manholes. In the event the manhole steps are in conflict with the proposed inside drop connection, the steps shall be relocated as approved by the District.
- D. Manhole steps to be relocated or replaced by the Contractor, shall be installed in locations as directed by the District. New step materials shall be provided for all step replacement or relocation.
- E. Doghouse type manholes constructed over the existing sewer shall not be permitted. New manholes installed on existing sewers shall be constructed in accordance with the details shown on the plans.

5.4 Connections to Existing Mains

- A. New connections to existing PVC sewer mains or services shall be made using solid PVC fittings. Fernco type flexible couplings shall not be permitted.
- B. New connections to existing sewers constructed of other materials shall require prior review of the District.
- C. All lateral connections on new sewers shall be connected into the sewer main pipe. New lateral pipe connections into existing manholes shall only be made following review of the connection by the District.

5.5 Additional Requirements for Lateral Services

- A. All Service Connections must be installed by a District Licensed Sewer Tapper in accordance with the requirements of these specifications.
- B. Lateral connections provided for future connections shall be terminated at the public right-of-way with bell end and plug. A treated 2 x 4 board shall be placed at the end of the lateral to within 1-foot of finished grade for future locating purposes. The board shall be marked to indicate that the board is marking the location of a sanitary sewer tap. Service laterals installed to vacant lots shall be installed to a depth no greater than 8-feet below final grade at the public right-of-way unless otherwise approved by the District.
- C. A soil dam shall be installed around the lateral to prevent the migration of ground water through the trench. The soil dam shall consist of a non-pervious material place around the pipe along a minimum length of 6-feet between pipe joints. The bell of the pipe shall be properly supported with bedding material as specified.
- D. Service laterals shall enter through the basement side wall. Basement floor taps shall not be permitted.

5.6 Maintenance of Trenches and Backfill

- A. Backfill shall be to the limits shown on the drawings and according to the compaction requirements of this section. Backfill material shall be placed and compacted for the entire width, length and height of the trench or excavation.
- B. Trenches and excavations shall be backfilled immediately after the pipe placed and bedded. Pipe bedding and trench and excavation backfill material shall be placed in the presence of a representative of the District. Backfill shall not contain stones, rock, pieces of masonry, organic material, frozen earth, debris, earth with a high void content or other material considered unsatisfactory by the District.
- C. NON-STRUCTURES: Backfill not under structures or outside the pavement influence area shall be compacted in 12-inch layers to 90% of Standard Proctor or as directed by the District for the entire width, length, and vertical height of the trench.
- D. STRUCTURES: Backfill under structures or adjacent to pavement shall be ODOT Type 304 or 411 and compacted in 6-inch lifts to 95% of Standard Proctor. Structures include manholes, pump stations, grinder pumps, roads, drives, sidewalks, and any other miscellaneous items called out on the drawings.
- E. PAVEMENT INFLUENCE AREA: Excavations below a line extended from the edge of pavement (or back of curb) at a 45 degree angle downward from the surface shall be backfilled as specified for structures. Areas of the excavation above the 45 degree projection may be backfilled as listed for non-structures.
- F. Water may be used to attain the proper moisture content in achieving compaction requirements. Prior to the placement of soil over the granular material all free water shall be drained from the excavation.
- G. In areas where granular material is not acceptable for use as backfill, provide Controlled Density Fill (CDF) in accordance with ODOT Item 613, Low Strength Mortar Backfill.

5.7 Stockpiles

- A. Stockpiles of excavated material and all construction material shall be of limited size and shall be neatly maintained or removed from the project site so as not to block existing drainage or impede pedestrian or vehicular traffic.
- B. Excess excavated material stockpiled at the work site, and not be used for backfill or other restoration purposes, must be removed from the project area within 2 weeks of the initial disturbance.
- C. Stockpiles shall not be permitted in the Ohio Department of Transportation right-of-way.

NORTHWESTERN WATER & SEWER DISTRICT

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SANITARY SEWER
GENERAL NOTES AND SPECIFICATIONS

DRAWN BY:		CHECKED BY:	
#	DATE	BY	REVISION
1	9/27/18	GC	G.P. MODEL AND PART NUMBER
2	9/27/18	MD	GRAVITY SAN. SEWER PIPE MATERIAL
3	9/27/18	MD	REMOVED 4" TO 10" HDPE PIPE

NWSD 1 / 4

THOMAS
PORTER
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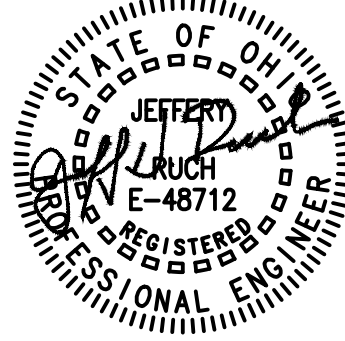
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SEAL:



NOT FOR CONSTRUCTION UNLESS SIGNED & SEALED

RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

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PROJECT TITLE:

ISSUE OR REVISION:

02.22.2021	PERMIT & BID SET
DATE	ISSUE / REVISION

DESIGNED: ACH

DRAWN: ACH/SJW

CHECKED: ARK

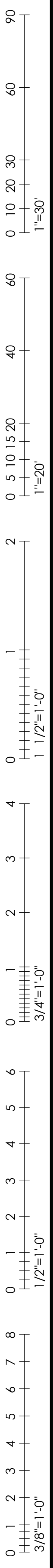
TPA COMMISSION NUMBER: 20026

DRAWING TITLE:

NWWSO NOTES
AND DETAILS

DRAWING NUMBER:

C8.0



NORTHWESTERN WATER & SEWER DISTRICT

SANITARY SEWER GENERAL NOTES AND SPECIFICATIONS

6.0 INSTALLATION OF SANITARY PRESSURE PIPES

- A. Pressure sewer pipes shall be installed in accordance with the District's requirements for water line pipe installation.

7.0 HORIZONTAL DIRECTIONAL DRILLING

7.1 General

- A. Pipe to be installed by HDD shall use a surface launched steerable drill tool controlled from a mobile drilling frame that includes a field power unit, drilling fluid mixing system and mobile spoils extraction system.
- B. The Contractor shall be responsible for any settlement, heaving, drilling fluid contamination or other damage caused to surface or underground features as a result of the HDD operation. The Contractor shall closely monitor the volume of drilling fluid used, pulling forces and the pullback operation to avoid damage to adjacent facilities or pipe being installed.

7.2 Procedure

- A. **PILOT HOLE:** The pilot hole shall be drilled in accordance with the tolerance limits listed below. The Contractor shall clearly mark the alignment and depth of the pilot hole on the ground or with paint, lathe or flags as the drilling head advances.
- B. **REAMING:** The drill hole shall be pre-reamed as necessary for the type of soil and ground conditions. The reaming diameter shall not exceed 1.5 times the diameter of the product pipe being installed.
- C. **PIPE INSTALLATION:** The pipe shall be pulled into place in one continuous operation and properly supported and protected to prevent damage during installation. The Contractor shall carefully monitor the pullback operation to ensure the allowable strength of the pipe is not exceeded. Pipe connections shall be made after pipe has had adequate time to adjust to environmental conditions such as temperature.

7.3 Drilling Fluid

- A. The Contractor shall utilize drilling fluid consisting of a bentonite, water and polymer solution to stabilize the hole, remove cuttings and lubricate the pipe. All drilling fluid mixtures shall meet the requirements of applicable environmental regulations. The pipe shall be cleaned of any drilling fluid that enters the pipe during the execution of the work.

- B. The Contractor shall provide measures to contain the drilling fluid to the work area to prevent damage to adjacent facilities.

7.4 Tolerances

- A. The pipe shall be installed to the specified tolerances as summarized below. Pipe installations that fall outside of these tolerances shall be re-drilled to achieve the required tolerances.
- B. For Pressure Pipe the vertical elevation shall be within 0.50-feet of the plan elevation and the horizontal alignment shall be within 2-feet of the plan location unless otherwise specified. C. For gravity sanitary sewers, the vertical location shall be within 0.10-feet of the plan location with slope not less than shown. The horizontal alignment shall be within 0.50-feet of the design plan location.
- D. The pilot hole curve radius shall be no greater than 75% of the maximum bending radius of the pipe being installed.
- E. The pilot hole shall be no closer than 3-feet from any right-of-way or easement boundary.
- F. In the case that the pilot hole must be abandoned, the Contractor shall submit a plan for filling, grouting or securing the pilot for review by the District.
- G. **QUALITY CONTROL:** The Contractor shall locate the pilot hole every 25-feet and maintain accurate record of the horizontal and vertical location of the pilot hole. The Contractor shall maintain drilling logs recording the following information: date, times, soil conditions, depth of bury and horizontal location referenced to stationing, centerline, R/W or permanent easement line. The Contractor shall not excavate all existing utilities to be crossed by the proposed boring prior to commencing drilling operations. The District shall reserve the right to require more frequent pot holing or pilot hole excavation location checks.

8.0 SANITARY SEWER TESTING REQUIREMENTS

8.1 Testing Requirements

- A. The Contractor shall furnish the necessary pumping equipment, pipe connections, taps, gauges, auxiliary water containers, bulkheads, plugs, and any other equipment required to perform pressure and leakage tests.
- B. Leakage testing on gravity sanitary sewers shall not be performed until deflection testing has been successfully completed. If leakage testing is performed prior to deflection testing, the Contractor will be required to repeat the leakage testing of the sewer following deflection testing.
- C. The Contractor may allow a subcontractor to perform the testing of facilities installed under this specification, but all testing must be performed with a representative of the Contractor and District present. The District representative shall reserve the right to require and witness the calibration of any equipment to be used for the test.
- D. The District shall reserve the right to require additional testing of materials not specifically defined as required to determine conformance with these specifications.

8.2 Gravity Sewer Deflection Testing

- A. Conduct deflection testing by pulling an approved deflection mandrel, having a diameter not less than 95% of the internal diameter of the pipe being tested. The Contractor shall provide a proving ring at the time of testing to verify that mandrel is within tolerance.
- B. Deflection testing shall not be performed until a section of pipe has been installed, with final backfill in place for 30 days.

8.3 Gravity Sewer Leakage Testing

- A. The air testing for PVC pipe shall be performed in accordance with ASTM F-1417 and the chart shown in these Specifications. The air testing for concrete pipe shall be performed in accordance with ASTM C-924.
- B. Air tests shall be performed between two consecutive manholes following the placement of bedding around the pipe and backfill in the trench. Lateral sewer connections shall not be connected to the new sewer until all testing is complete unless otherwise approved by the District.
- C. A well point shall be installed at the lowest manhole installed as part of the work to determine existing ground water elevation.

- D. The air pressure during the test shall be 4.0 psi with an adjustment of 0.433 psi for each foot of groundwater above the crown of the pipe being tested. Internal pressure adjustments shall not exceed 5.0 psi to avoid over pressurizing the pipe joints.
- E. Tests shall be conducted based on the diameter and length of the pipe being tested. The test shall be considered acceptable if the time elapsed for the 1 psi drop is greater than or equal to the allowable time.
- F. The leakage exfiltration or infiltration shall not exceed 100 gallons per inch of pipe diameter per mile per day (0.02m³/mm of pipe dia.km/day) for any section of the system. An exfiltration or infiltration test shall be performed with a minimum positive head of 2 feet (600 mm).

8.4 Pressure Pipe Testing

- A. Pressure pipes shall be hydrostatically tested in accordance with procedures outlined in AWWA C600 and AWWA C605. The Contractor shall remove all air from the section of pressure pipe. The new pressure pipe shall remain isolated from adjacent mains during the hydrostatic testing.
- B. Pressure pipes shall be tested at the greater of 100 psi or 250 percent of the operating head by pumping clean water containing 10 ppm chlorine from a cleaned and sterilized container through a 1-inch corporation stop installed on the pressure pipe.
- C. After 18-hours, the pressure pipe shall be maintained at the test pressure for 6-hours. At the end of the 6-hour period, the water shall be measured and the loss by leakage shall not exceed that as determined by the following formula:
$$L = (S \times D^4 \times P) / 148,800$$
Where:
L = Quantity of make water in gallons per hour
S = Length of pipe section being tested in feet
D = diameter of pipe, in
P = average test pressure in pounds per square inch (gauge)
- D. Pressure testing of each side of the intermediate valves shall be performed by shutting each valve and exhausting the pressure on one side and then applying the test pressure on the opposite side of the valve. This procedure shall be repeated for each intermediate valve.
- E. All visible leaks shall be repaired, regardless of the amount of leakage.

8.4 Manhole Leakage Testing:

- A. Manhole leakage testing shall be performed by drawing a vacuum of 10-inches of mercury into the manhole using equipment approved to conduct such testing in accordance with ASTM C-1244. With the vacuum pump turned off and all valves closed, the time for the vacuum to drop from 10-inches to 9 inches shall be recorded. The vacuum test shall be considered acceptable if the elapsed time is equal to or greater than that specified in the chart shown in these Specifications. The test pressure may be adjusted to account for the depth of groundwater above the invert of the manhole as shown in the chart.
- B. The Contractor shall plug and brace all pipes entering the manhole and seal any cracks, or holes with a non-shrink grout to prevent air being drawing into the manhole.
- C. The use of detergents, soaps, or other similar agents will not be permitted to be applied to any of the internal joints of the manhole before testing of the manhole. The contractor will be permitted to apply soap, detergent, or a similar agent to the joints after a failed test to determine the location of the leak.

8.5 Repairs

- A. Any section of sewer failing to meet the testing requirements outlined in this section shall be remedied by preparing a plan for review by the District.
- B. Mainline and lateral repairs are to be made using solid pipe couplers. The use of Fernco type flexible couplings for repair sections shall not be acceptable.

9.0 SITE WORK

- A. All areas shall be returned to the grade and condition existing prior to the work within 30 days of disturbance of the area unless approved otherwise by the District. This shall include the repair or replacement of pavement surfaces.

9.1 Seeding, Mulching, and Topsoil

- A. All areas disturbed by construction and not paved with some other material shall be seeded, mulched, and fertilized according to ODOT Item 659.
- B. Weather Restrictions: All disturbed areas shall be permanently restored within 30 days of the initial disturbance between March 15 and October 15. Disturbed areas shall be temporarily seeded between October 16 and March 14 and permanently restored as soon as weather permits. Hydro-seeding or Broadcasting technique may be used from March 15th to May 31st. From June 1st to October 15th, the Broadcasting technique shall be used.
- C. Topsoil: The topsoil depth shall be a minimum of 4-inches thickness and in no case shall the less than existing prior to the work. Topsoil areas shall be prepared in accordance with ODOT Item 653 or ODOT Item 652. Topsoil shall be raked free of rocks and clods prior to seeding. All topsoil shall be provided and tested per ODOT Item 659.
- D. Seed Mixtures: Prior to seeding, the District shall identify the required seed mixtures per ODOT Item 659. Lawns of quality superior to the lawn seed mixture specified by ODOT Item 659 shall be identified by the Contractor and the Contractor shall submit a seed mixture similar to the lawn to the District for review. Any additional compensation required to provide the superior seed mixtures shall be limited to the difference in material cost between the ODOT Item 659 lawn seed mixture and the approved lawn seed mixture. An invoice is required to approve the cost adjustment.
- E. Temporary seed mixtures shall be submitted for review by the District.
- F. Hydro-seeding Technique: Apply starter fertilizer per ODOT 659. The seeded slurry shall be applied with a hydraulic seeder at a rate of 3 pounds per 1,000 square feet in two intersecting directions. Hydro-mulch with a tackifier shall consist of 2/3 wood and 1/3 paper fibers and shall be applied to a minimum thickness of 1/8-inch.
- G. Broadcast Technique: Apply starter fertilizer per ODOT 659. Apply seed at a rate of 6 lbs per 1000 sq. ft. evenly in two intersecting directions. Rake seed in lightly. Apply straw mulch evenly over all seeded areas and immediately apply a tackifier per ODOT 659.
- H. Maintenance: The Contractor shall repair and reseed any areas that settle after the permanent seeding is completed for the warranty time period specified. The Contractor shall perform any Repair Seeding and Mulching as specified under Item 659. The Contractor shall be responsible for reseeding areas as necessary at time intervals appropriate for the ground and weather conditions until a dense stand of grass is obtained. Seeded areas shall be maintained and watered by the Contractor in accordance with ODOT Item 659.

9.2 Trees and Bushes

- A. Trees and bushes shown on the plan be removed as part of the work, shall be removed and disposed of by the Contractor in accordance with ODOT Item 201.
- B. The District's permission shall be obtained prior to the removal of any tree or bush not marked for removal on the plan.
- C. Other trees, tree limbs and bushes located such that they made be damaged during the work, shall be properly trimmed and shaped. All exposed surfaces in excess of one inch diameter shall be immediately painted with an approved pruning compound.
- D. Trees and bushes, not approved for removal damaged by the Contractor shall be replaced by the Contractor.

10.0 PAVEMENTS, SIDEWALKS, DRIVEWAYS

10.1 General

- A. The Contractor shall obtain all permits and approvals required to perform the necessary pavement cuts prior to commencing work on the project.
- B. All pavement and sidewalk repairs shall be performed in accordance with the requirements of the ODOT Construction Materials Specifications and in accordance with the requirements of local agency having jurisdiction over the roadway.

10.2 Pavement Removal

- A. Pavement removal shall be performed in accordance with ODOT Item 202.
- B. All edges of existing pavement shall be saw-cut neatly and perpendicular to the surface.

10.3 Concrete Pavement Replacement

- A. Concrete pavement replacement shall be performed in accordance with ODOT Item 255 and 451.
- B. All concrete materials, reinforcing steel and required dowel placements shall be in accordance with ODOT standard plans or approved by the local agency having jurisdiction over the roadway.

10.4 Asphalt Pavement Replacement

- A. Asphalt pavement repairs shall be provided in accordance with the requirements of the local agency having jurisdiction over the roadway. At a minimum the pavement repair thicknesses shall match the existing cross section. The asphalt pavement repairs shall be as shown in these Specifications.
- B. All cold joints shall be sealed in accordance with ODOT Item 409.
- C. The repaired pavement shall match the elevation, profile grade, cross slope, width, shoulder, edge design and pavement sloping of the pavement section prior to the work.

10.5 Temporary Pavement

- A. No asphalt concrete pavement shall be placed before May 1 or after October 31, unless otherwise approved by the District. Should pavement replacement not be completed within these dates the Contractor shall provide a temporary wearing course meeting the requirements of ODOT Item 446.
- B. The Contractor shall replace temporary pavements with permanent pavement as specified.

10.6 Sidewalks

- A. Existing concrete, slate or brick sidewalk to be removed as part of the work or are damaged during the execution of the work shall be replaced. Slate or brick material to be removed shall be salvaged for the property owner unless otherwise specified.
- B. New concrete sidewalks shall match the original sidewalk width, grade and slope. All sidewalks shall be a minimum of 4-feet wide. Service walks leading from private properties shall be installed to match the original width, grades and slopes. New sidewalks shall be a minimum 4-inches thick, except at driveways where they shall be 6-inches or 8-inches thick and shall be laid to the established sidewalk grade and placed on 4-inches of compacted sand fill or ODOT Item 304.
- C. All concrete used for sidewalks shall be a 4000 psi air-entrained mix.
- D. The concrete shall be carefully spaded into place and struck even with the top of the forms after which it shall be wood floated to a level skid-resistant broom surface.
- E. Provide 1/4-inch mastic expansion joints at intervals of 25-feet and at junctions with other walls or structures. Sidewalks other than concrete or brick shall be classified as pavement and shall be replaced as previously specified for the appropriate type of pavement.

10.7 State Highway Roadway Crossings

- A. All crossings of State Highways shall be installed by boring methods unless otherwise approved by ODOT District 2.

- B. Where open cutting of State Highways is approved by ODOT District 2 within municipal corporate boundaries, the work shall be performed in accordance with the requirements of these Specifications.

11.0 MISCELLANEOUS STRUCTURES AND FACILITIES

11.1 Existing Structures and Facilities

- A. The Contractor shall remove and replace all existing facilities required and shown to complete the work as shown.

11.2 Existing Storm Sewers

- A. All existing storm sewers, subsurface drainage systems or field tiles damaged or interfered with during construction shall be replaced with new pipe matching the existing storm sewer and as directed by the entity having jurisdiction over the storm sewer. Removed pipe shall not be reused unless approved by the District and entity having jurisdiction over the storm sewer. Storm sewer shall be constructed in accordance with ODOT 603.
- B. The replaced pipe shall be installed with proper bedding and backfill and shall be installed to match the grade and size of the existing storm sewer.
- C. Fernco type adapters or approved equal shall be used at all joints connecting new storm sewer pipe to the existing storm sewer pipe.

12.0 MAINTENANCE OF TRAFFIC

- A. The Contractor shall maintain traffic per ODOT Item 614 and to the satisfaction of the entity having jurisdiction over the roadway.
- B. All work zone traffic control shall conform to the requirements of the Ohio Manual of Uniform Traffic Control Devices. The design and operation of the all work zone traffic control shall be the responsibility of the Contractor.
- C. All plans for road closures, lane restrictions or reductions shall be submitted a minimum of 2 weeks ahead of the expected work for review by the District and the local entity having jurisdiction over the roadway. It shall be the Contractor's responsibility to determine if more than 2 weeks are needed for the local entity's review.

13.0 SHOP DRAWINGS AND SUBMITTALS

13.1 General

- A. The Contractor shall submit 5 copies all shop drawings and submittals to the District showing all materials or equipment that are proposed or required for the work. Shop drawings and submittals shall be provided a minimum of 10 days prior to the commencement of construction.
- B. The Contractor shall provide a construction schedule indicating major project milestones. The Contractor shall update this schedule during the work to reflect changes in the project schedule.
- C. Shop drawings shall be drawn to scale and include all field measurements, calculations, certifications, material and equipment specifications as well as any other information necessary for the District's review.
- D. An approved shop drawing does not relieve the Contractor from providing a complete working system as described in the Contract Documents.
- E. Material or equipment installed without an approved shop drawing is done at the Contractor's sole risk and is subject to removal at no additional cost to the District, if the District determines the material or equipment is unacceptable or improperly installed.

13.2 Video Record of Existing Site Conditions

- A. The Contractor shall provide a digitally recorded video record showing the site conditions of the construction area to the District a minimum of 5 days prior to the commencement of any work on the site. The preconstruction video record shall be of sufficient detail to describe all existing site features and conditions including, but not limited to; roadway, sidewalk and driveway pavement, curbs, gutters, ditches, bridges, culverts, headwalls, landscaping, trees, signs, utility poles, mailboxes, street lights, catch basins, manholes, valve boxes, fire hydrants, fences and any other features that may be affected by the work. Buildings shall be located by street address.
- B. The Contractor shall utilize a professional video recording service specializing in the preparation of municipal project preconstruction video records. When filming from a wheeled vehicle, the distance from the lens to the surface shall not be less than 12 feet to insure adequate perspective.
- C. The contractor shall provide two (2) copies of the video record in DVD format to the District prior to the commencement of construction. All discs and cases provided to the District shall bear the following information: NAME OF PROJECT, DISTRICT PROJECT NO (SS-XX), NAME OF CONTRACTOR, NAME OF VIDEO RECORDING SERVICE, DATE OF RECORDING.
- D. The video record shall have a continuously, running time digital stamp, indicating the date, time (h:mm:ss), direction of travel and stationing (xx+xx). The video record shall consist of a video track and an audio track. The audio track shall be recorded by the camera operator describing the features being recorded.
- E. Video recording of existing site conditions shall be performed in the presence of a representative of the District.

13.3 As-Built Plans

- A. The Contractor shall maintain as-built records of all construction work performed, carefully noting any changes in the design plans. These as-built plans shall be submitted to the District following the completion of the work.

13.4 Sanitary Sewer Cleaning and Television Inspection

- A. The Contractor shall clean and televise all sections of the new gravity sewers to the satisfaction of the District. Cleaning and television inspection shall be performed after successful deflection and leakage testing.
- B. **CLEANING** - Prior to televising sanitary sewer facilities, the Contractor shall utilize high velocity water jet equipment to remove all debris from the sanitary sewer facilities. The Contractor shall properly dispose of any debris removed from the sanitary sewer. Water for the first cleaning of the sanitary sewer shall be provided by the District. If additional cleaning is required following the television inspection, water required for additional cleaning shall be provided by the District at the Contractor's cost.
- C. **TELEVISION INSPECTION** - The Contractor shall utilize CCTV equipment to visually inspect the condition of the sanitary sewers with a picture quality acceptable to the District. The Contractor shall re-inspect the sanitary sewer if the inspection is determined to be unsatisfactory. Lighting for television inspection shall be provided by a camera mounted lamp capable of lighting the entire inside circumference of the sanitary sewer pipe.
- D. The camera shall be moved through the line in either direction at a uniform rate not to exceed three feet per second and stopping when necessary to insure proper documentation of the sewer's condition and lateral sewer locations. Equipment used to move the camera through the sewer shall not interfere with the camera view.
- E. **CAMERA** - The television camera shall be specifically designed and constructed for sanitary sewer television inspection. The camera shall be capable of operating in 100% humidity conditions and of viewing the entire inside circumference the sanitary sewer pipe. Lateral connections shall be inspected by looking up the lateral from the sewer main. The camera shall be self-propelled or mounted on adjustable skids. The camera view shall be transmitted to an above grade minimum 17-inch monitor.
- F. **INSPECTION LOGS** - The Contractor shall submit a typed inspection log clearly indicating date, time, street, sanitary sewer number as well as the location of any significant features such as; damaged pipe, pipe bellies, infiltration points, lateral locations or any other unusual conditions.
- G. **VIDEO RECORD** - The Contractor shall submit 2 copies of the video record in DVD format to the District for review. The video record shall have both audio and video tracks describing and depicting pertinent features viewed during the inspection. The video track shall include the following: street, sanitary sewer number and section, date and current distance along reach complete with descriptive printed labels on each container. The audio track shall include the date and time of inspection, sanitary sewer number and section, verbal description of pipe size and type, description of any defects or significant features.
- H. The District shall reserve the right to require television inspection on any public or private sanitary sewer installation at the expense of the installing contractor or the owner of a private sewer.
- I. The District shall reserve to right to require repairs to any defects noted during the television inspection. This shall be the case even if the sewer passes deflection, air testing or any other required testing prior to video inspection.

NORTHWESTERN WATER & SEWER DISTRICT

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SANITARY SEWER

GENERAL NOTES AND SPECIFICATIONS

DRAWN BY: CHECKED BY:

#	DATE	BY	REVISION
1	08/01/17	TB	CONTENT REVISION
2	08/01/17	TB	TRENCH DETAIL
3	08/01/17	MD	ADDED 8.3, NOTE F

NWSD 2 / 4

THOMAS
PORTER
ARCHITECTS

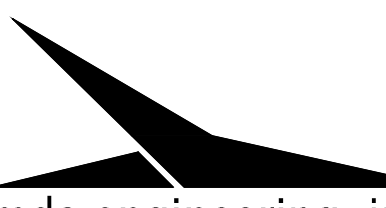
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CONSULTANTS:

esa

Engineers, Surveyors & Associates, LLC

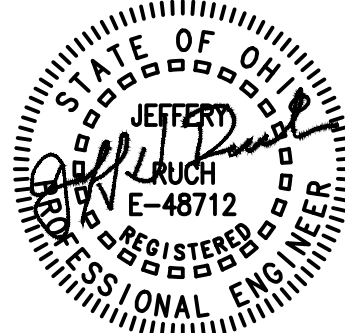
1335 Secor Rd., Toledo, Ohio 43623 Phone (419) 479-9445



Mechanical
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Engineers

1415 Holland Road
Maumee, Ohio 43537
Phone: (419) 893-3141

SEAL:



NOT FOR CONSTRUCTION UNLESS SIGNED & SEALED

RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

PROJECT TITLE:

ISSUE OR REVISION:

10/22/2021	PERMIT & BID SET

DATE ISSUE / REVISION

DESIGNED: ACH

DRAWN: ACH/SJW

CHECKED: ARK

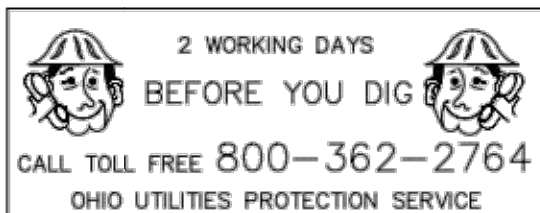
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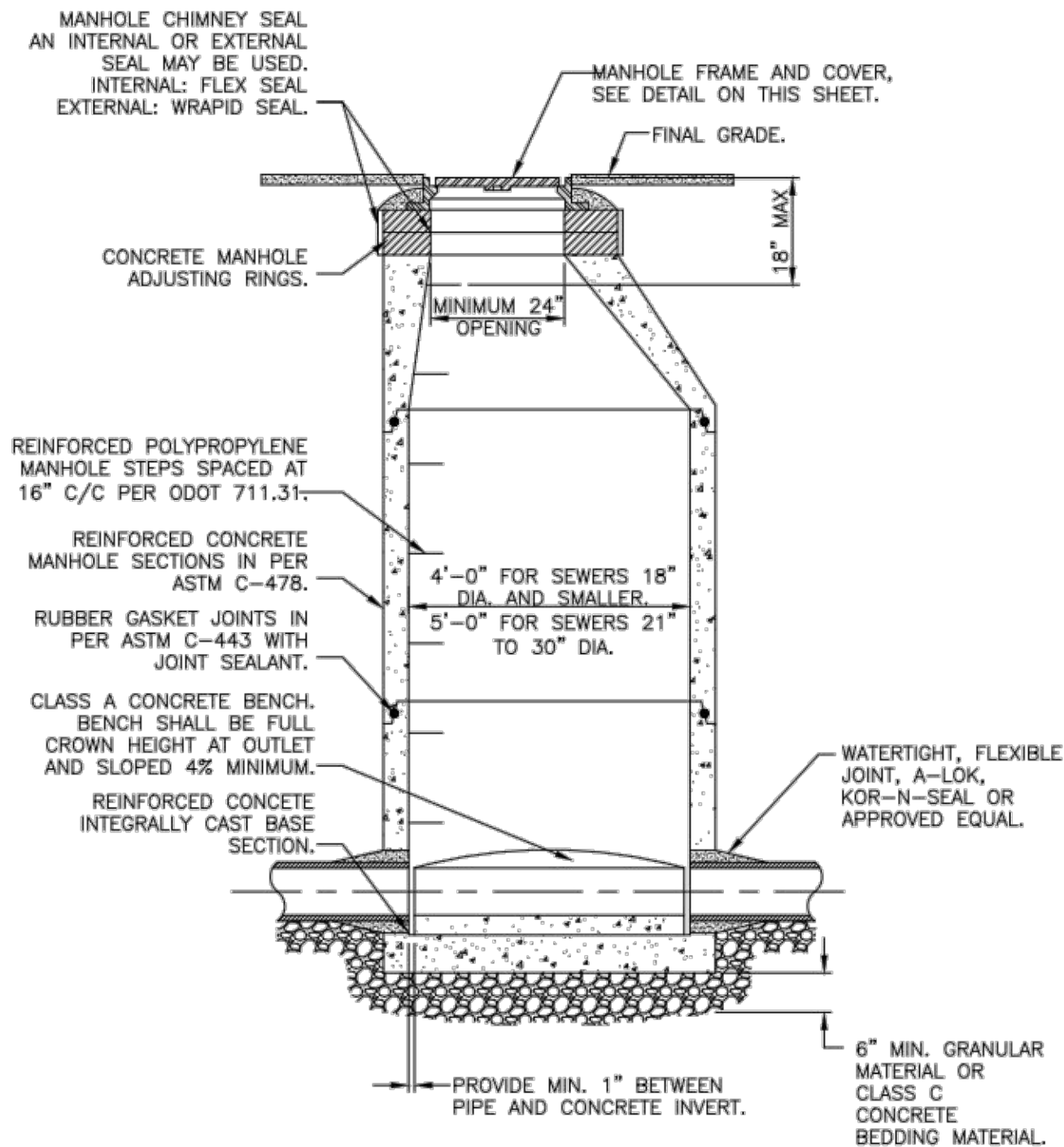
NWWSD NOTES
AND DETAILS

DRAWING NUMBER:

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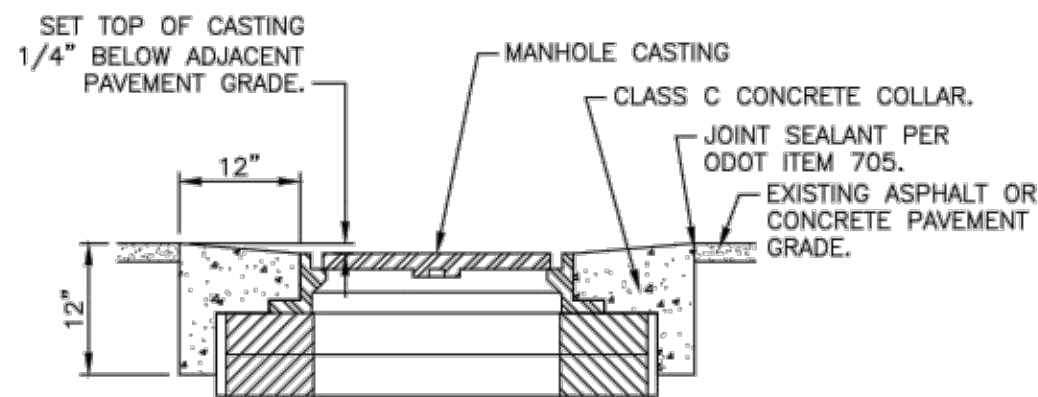
90
60
30
0 10 20 30
1"=30'
60
40
20
0 5 10 15 20
1"=20'
2
1
0 1 2 3 4
1 1/2"=1'-0"
4
3
2
1
0 1 2 3 4
3/4"=1'-0"
6
5
4
3
2
1
0 1 2 3 4
1/2"=1'-0"
8
7
6
5
4
3
2
1
0 1 2 3 4
3/8"=1'-0"



ECCENTRIC MANHOLE FOR
SEWERS 30" DIAMETER AND SMALLER

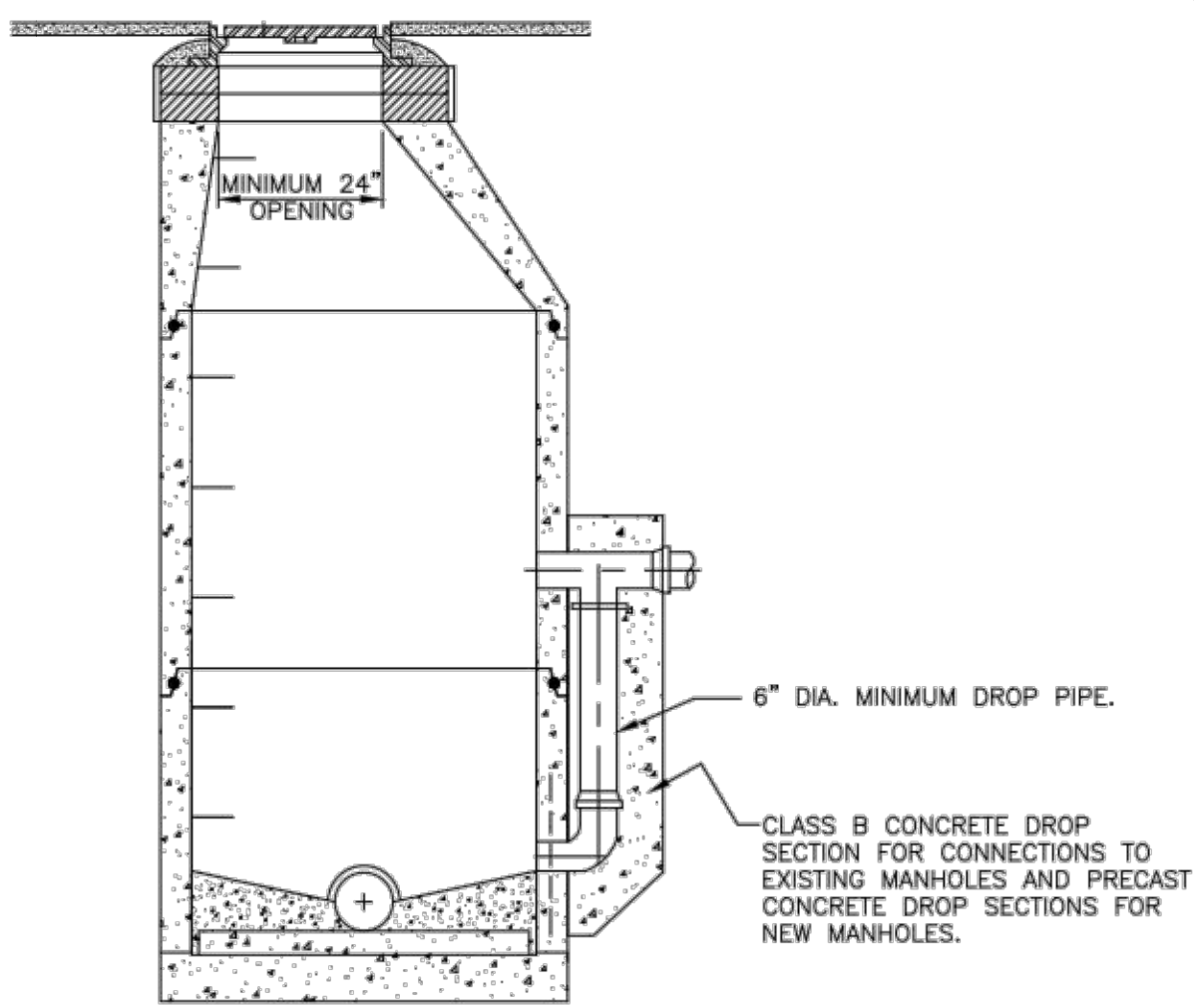
NOTES:

- MANHOLE DETAILS FOR SEWERS LARGER THAN 30" DIAMETER SHALL BE PROVIDED AS NEEDED.
- LIFTING HOLES OR EYES SHALL BE FILLED WITH NON-SHRINK GROUT MATERIAL.
- ROTATE MANHOLE CONE SECTION TO PLACE THE STEPS TOWARD THE NEAREST EDGE OF PAVEMENT.
- THE CONTRACTOR SHALL PROVIDE LARGER DIAMETER MANHOLES AS SPECIFIED AND REQUIRED FOR MANHOLES WITH MULTIPLE SEWER CONNECTIONS, ACUTE PIPE ANGLES OR LARGER DIAMETER SEWERS.
- MANHOLE INVERTS SHALL PROVIDE A SMOOTH FLOW TRANSITION AT ALL CHANGE IN FLOW DIRECTION. LARGER MANHOLES SHALL BE PROVIDED AS NECESSARY TO MEET THIS REQUIREMENT.

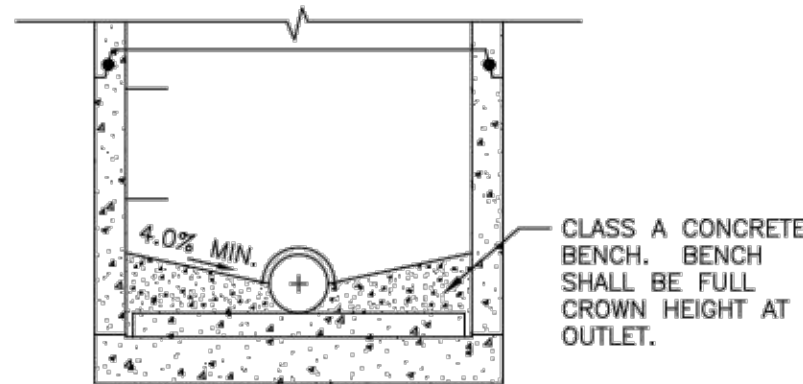


NOTES:

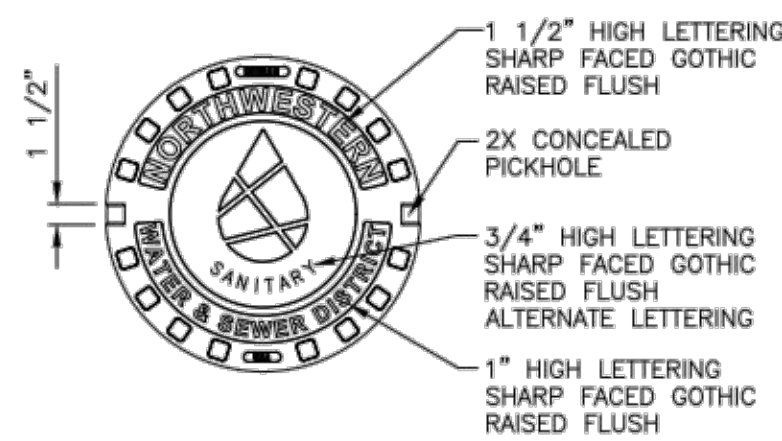
- THE CONCRETE COLLAR SHALL BE CONSTRUCTED USING FAST SET CONCRETE.
- THE CONCRETE COLLAR SHALL NOT BE OPENED TO TRAFFIC UNTIL THE CONCRETE HAS CURED FOR 24-HOURS.



OUTSIDE DROP MANHOLE DETAIL



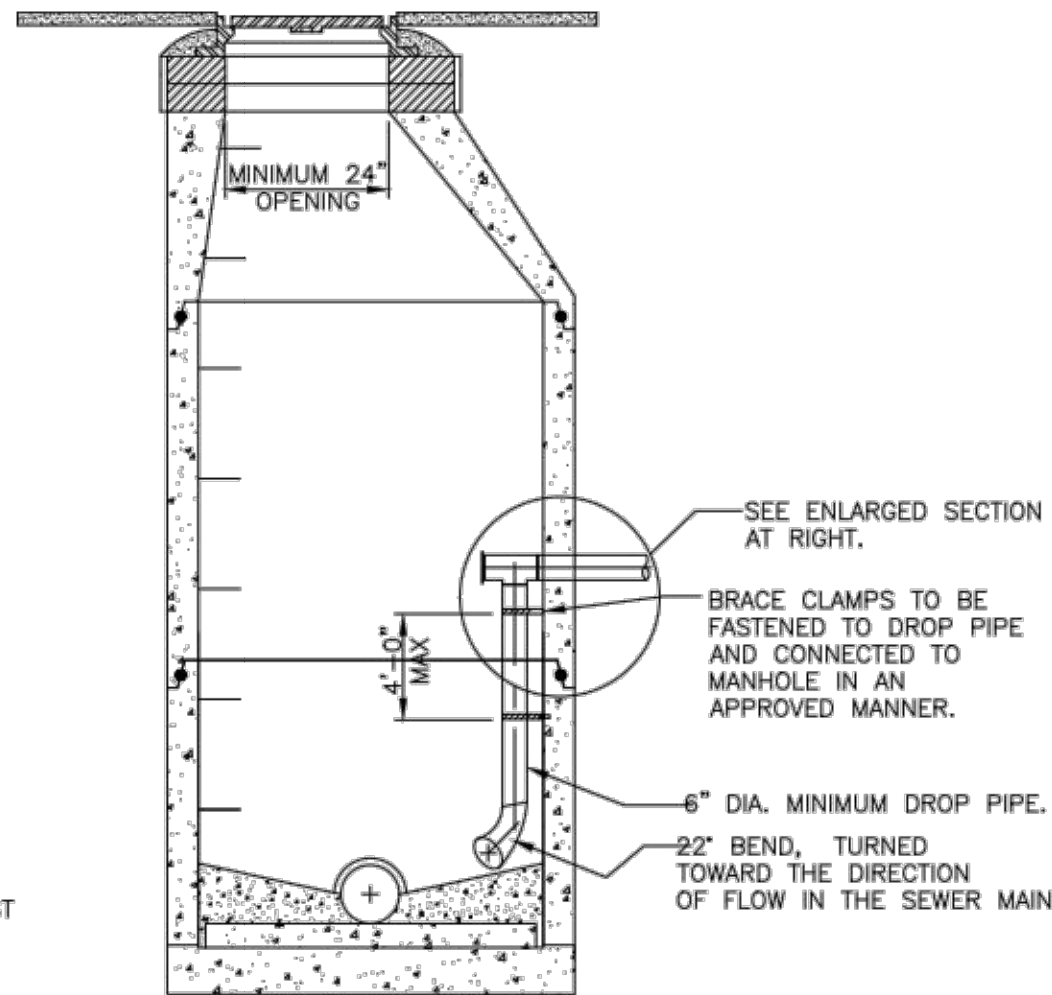
MANHOLE BENCH DETAIL
NOT TO SCALE



MANHOLE COVER DETAIL
NOT TO SCALE

NOTES:

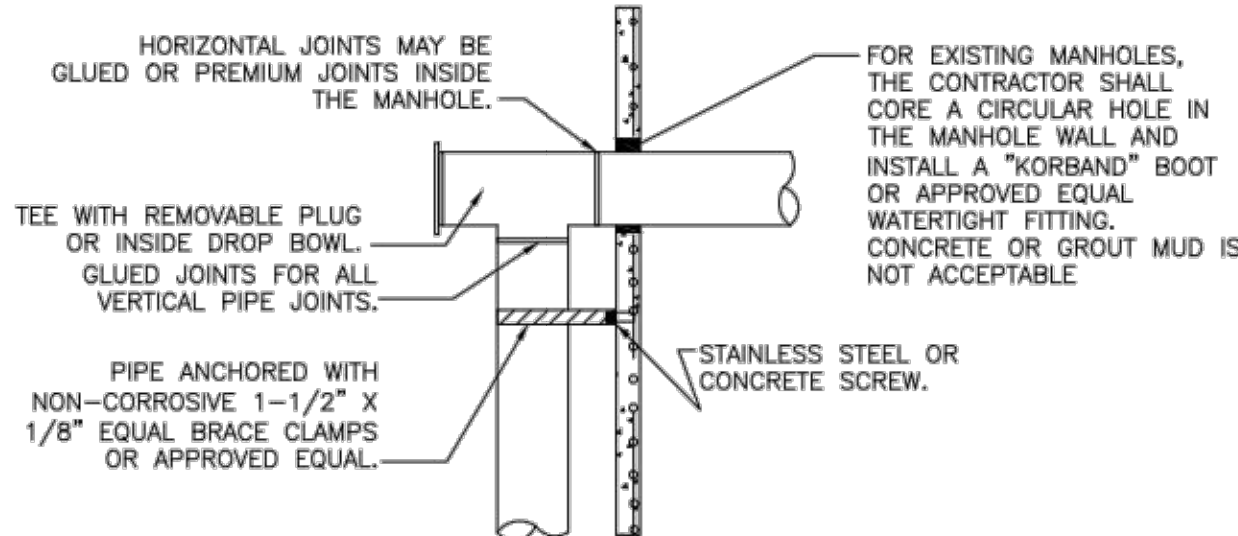
- DISTRICT SANITARY SEWER COVER AND FRAME SHALL BE EJIW 1020A OR NEENAH 1772 MANHOLE FRAME AND COVER AS DETAILED ABOVE.
- PRIVATE SANITARY SEWER MANHOLES COVERS SHALL BE MARKED "SANITARY."



INSIDE DROP MANHOLE DETAILS

NOTES:

- THE INSIDE DROP MUST BE A COMFORTABLE DISTANCE FROM THE MANHOLE STEPS.

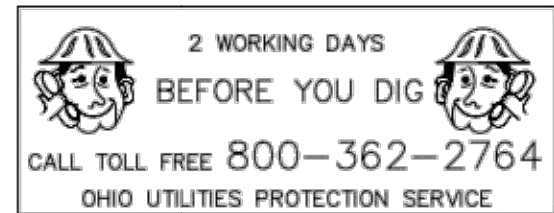


ENLARGED SECTION
NOT TO SCALE

MANHOLE VACUUM TESTING CHART		
MINIMUM TIME FOR 1-IN HG VACUUM READING DROP (ASTM C-1244)		
MANHOLE DEPTH (FT)	MIN. TIME (SEC)	
	48" DIA.	60" DIA.
8	20	26
10	25	33
12	30	39
14	35	46
16	40	52
18	45	59
20	50	65
22	55	72
24	59	78
26	64	85
28	69	91
30	74	98

MANHOLE VACUUM TESTING ADJUSTMENT FOR HYDROSTATIC HEAD	
ADJUSTMENT OF INITIAL VACUUM READING TO ACCOUNT FOR HYDROSTATIC HEAD ABOVE THE INVERT OF THE MANHOLE	
HYDROSTATIC HEAD (FT)	INITIAL TESTING VACUUM (IN HG)
≤12'	10
13	9
14	8
15	7
16	6
17	5
18	4
19	3
20	2
21	1
22	*

* AT 22--FEET BELOW THE GROUNDWATER TABLE, THE INVERT OF THE MANHOLE IS AT 9.5 PSI.



Disclaimer: The content of this document is intended for illustrative purposes only and is not complete. The Northwestern Water and Sewer District expressly disclaims any and all liability for any and all reliance thereon. All uses, other than personally, are strictly prohibited.

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SANITARY SEWER
MANHOLE DETAILS

DRAWN BY: CHECKED BY:

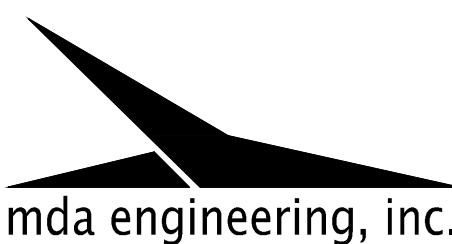
#	DATE	BY	REVISION
1	02/21/24	TB	CONTENT REVISION
2	04/09/24	MD	MANHOLE COVER DETAIL
3	04/09/24	MD	MINIMUM MH OPENING



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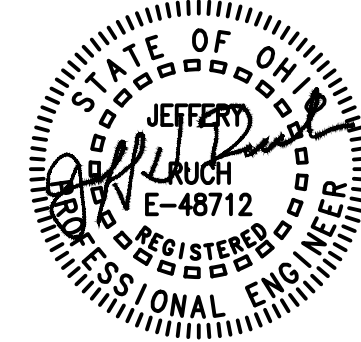
CONSULTANTS:

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SEAL:



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RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43440

PROJECT TITLE:

ISSUE OR REVISION:

DATE

10.22.2021 PERMIT & BID SET

DESIGNED: ACH

DRAWN: ACH/SJW

CHECKED: ARK

TPA COMMISSION NUMBER: 20026

DRAWING TITLE:

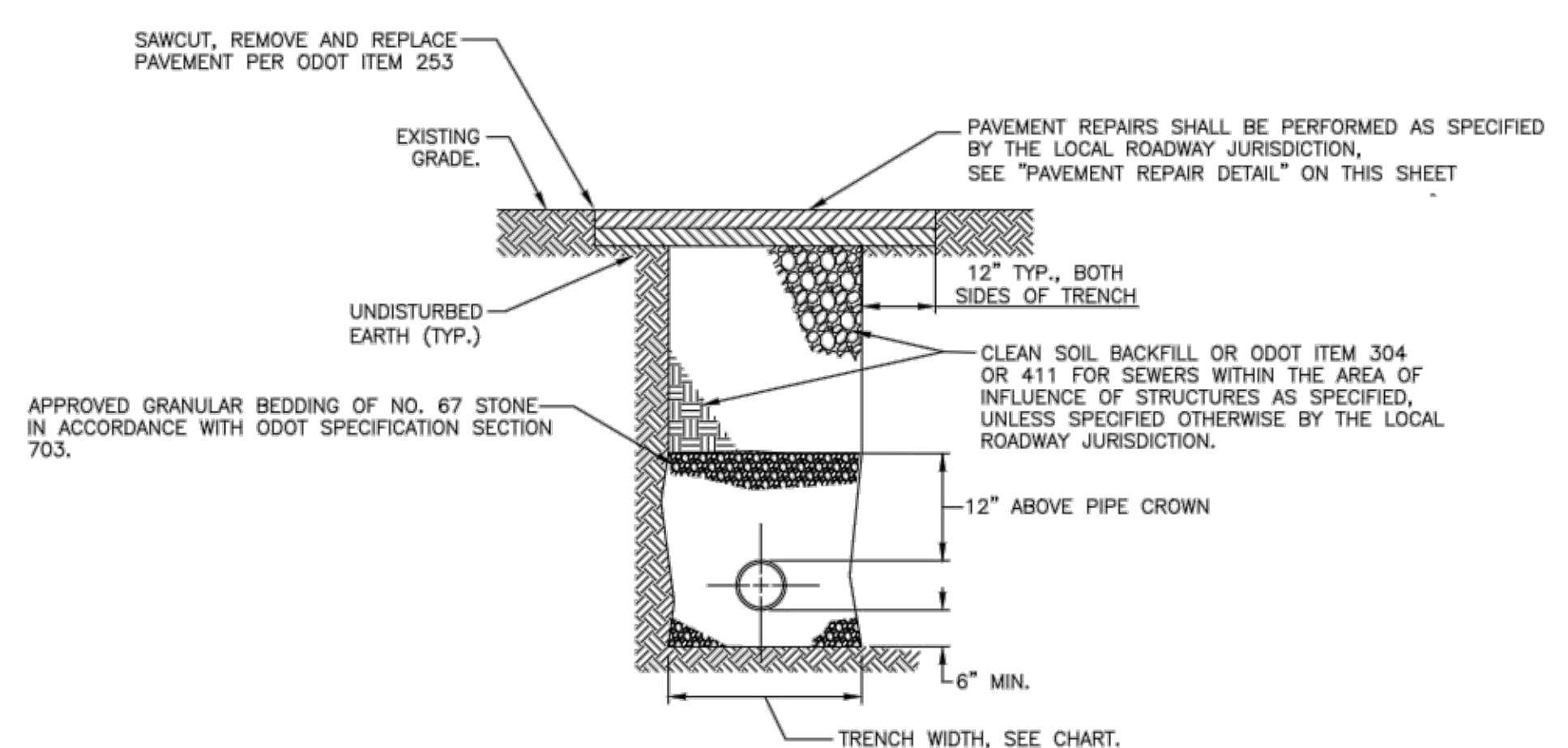
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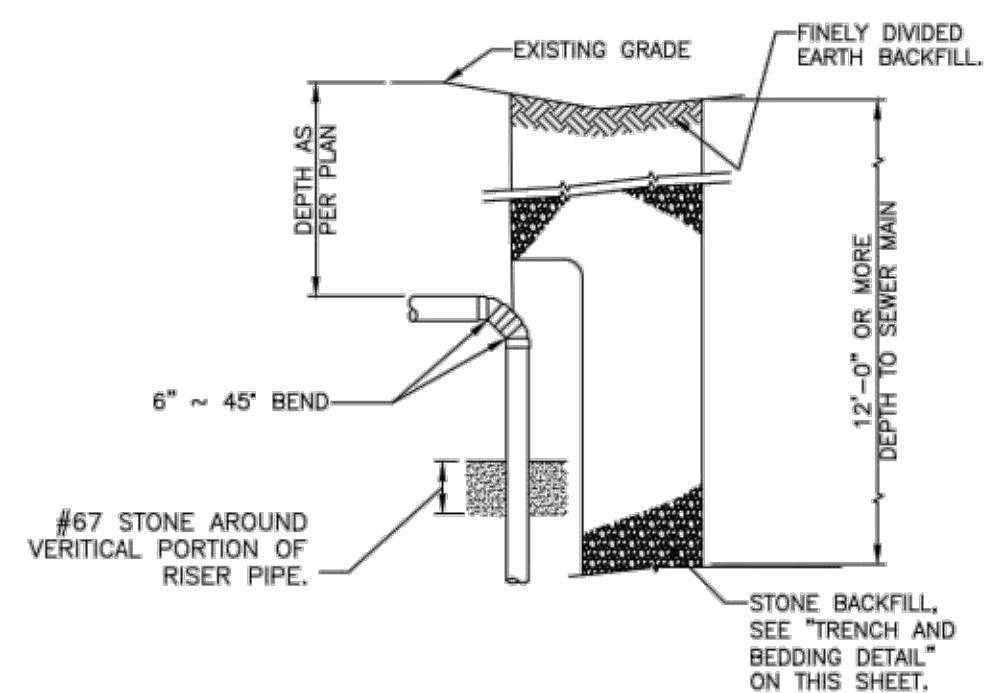
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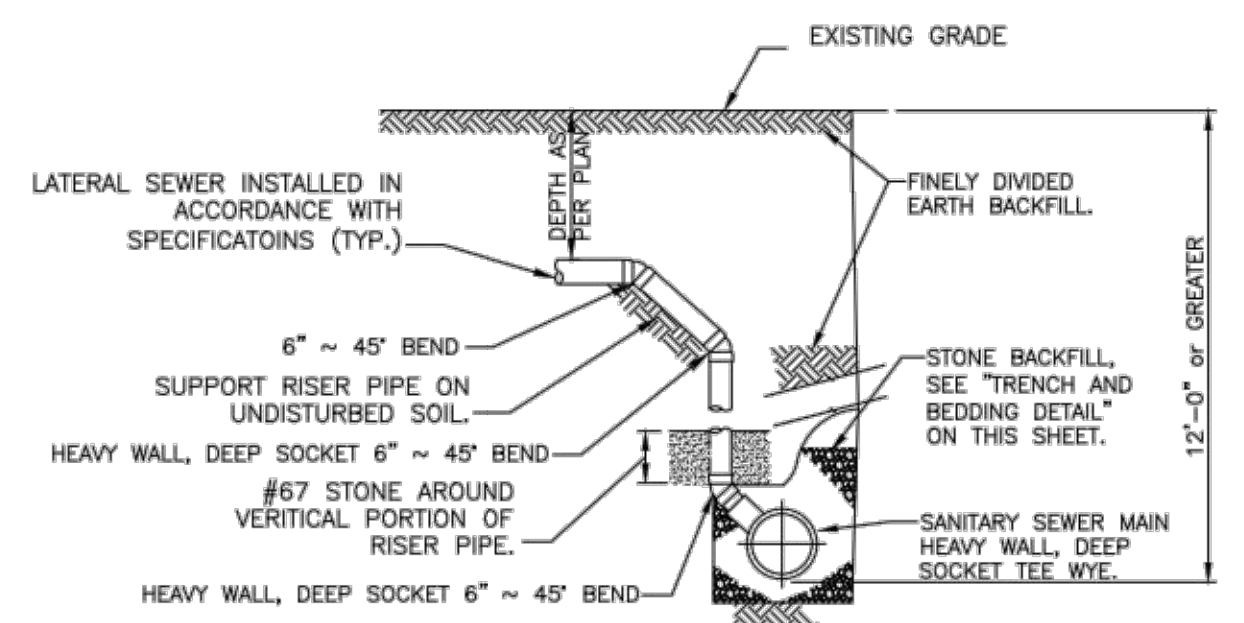
- TRENCH AND BEDDING DETAIL**
NOT TO SCALE
- STATE HIGHWAY TRENCH AND BEDDING NOTES FOR WORK IN ODOT RIGHT OF WAY**
1. BEDDING MATERIAL SHALL BE EXTENDED 6-INCHES ABOVE THE CROWN OF THE PIPE.
 2. BACKFILLING ABOVE THE BEDDING MATERIAL AND BELOW THE PAVEMENT SECTION SHALL BE ODOT 613, LOW STRENGTH MORTAR BACKFILL.
 3. PAVEMENT REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH THE "ODOT PAVEMENT REPAIR DETAIL."

SIZE	MINIMUM TRENCH WIDTH
6"	2'-0"
8"	2'-1"
10"	2'-3"
12"	2'-5"
15"	2'-8"
18"	3'-0"
21"	3'-4"
24"	3'-6"
27"	3'-11"
30"	4'-4"
36"	5'-0"

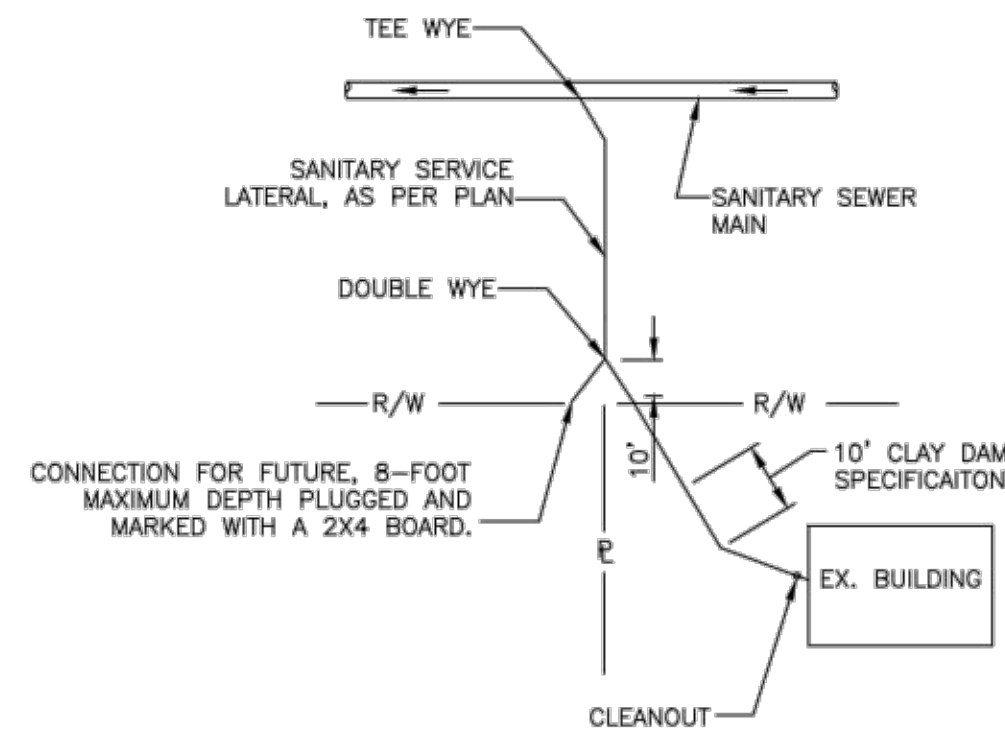
- TRENCH WIDTH SCHEDULE**
- NOTES:**
1. TABLE IS FOR ASTM D-3034, SDR 35 PIPE FOR 6"-15" AND ASTM F-679 WALL FOR OTHER FLEXIBLE PIPES, MINIMUM TRENCH WIDTH SHALL MEET MANUFACTURER'S REQUIREMENTS.
 2. MAXIMUM TRENCH WIDTH SHALL BE NO MORE THAN TWO (2') FEET PLUS THE PIPE DIAMETER.
 3. WHERE APPLICABLE AND NOT OTHERWISE STATED IN THE SPECIFICATIONS, THE MINIMUM TRENCH WIDTH SHOWN ABOVE SHALL BE THE PAY WIDTH FOR TRENCHING IN ROCK.



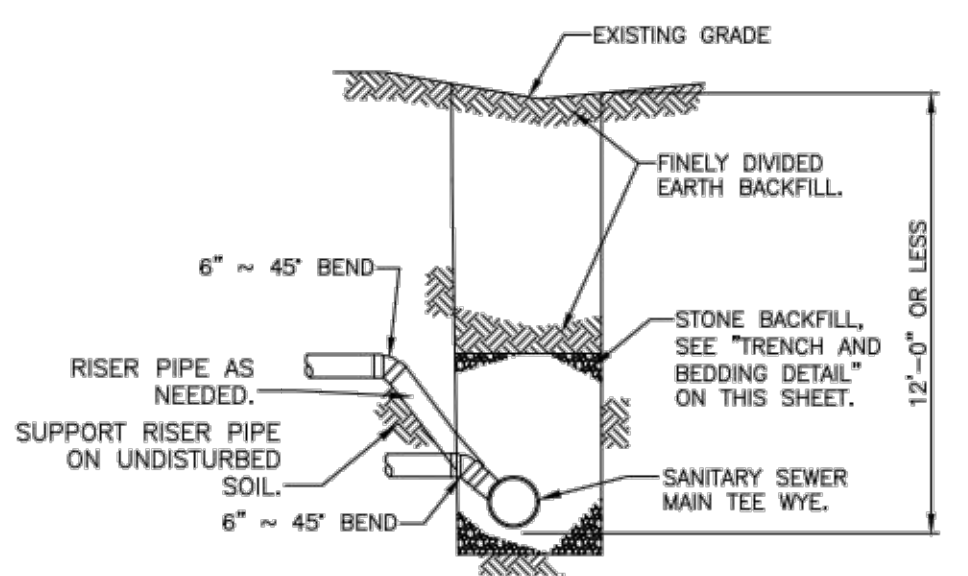
6" RISER WITH VERTICAL TRENCH WALLS
NOT TO SCALE



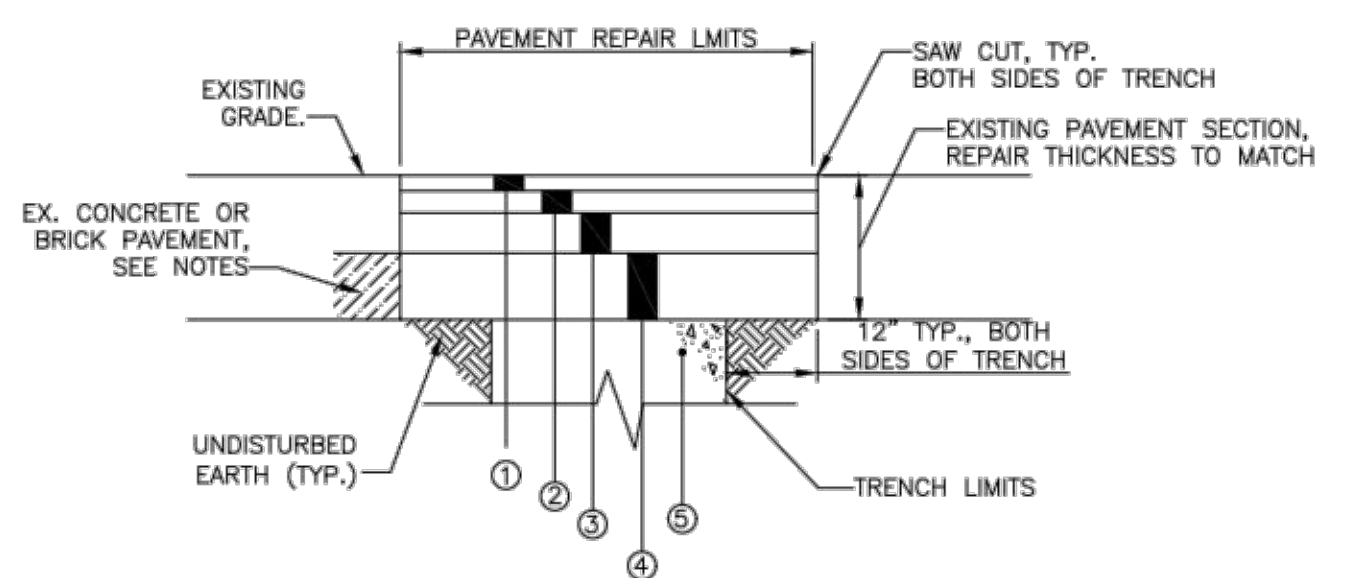
6" SERVICE CONNECTION FOR SEWER MAIN GREATER THAN 12'-0" DEEP
NOT TO SCALE



TYPICAL PLAN OF SANITARY SEWER LATERALS
NOT TO SCALE



6" SERVICE CONNECTION FOR SEWER MAIN LESS THAN 12'-0" DEEP
NOT TO SCALE

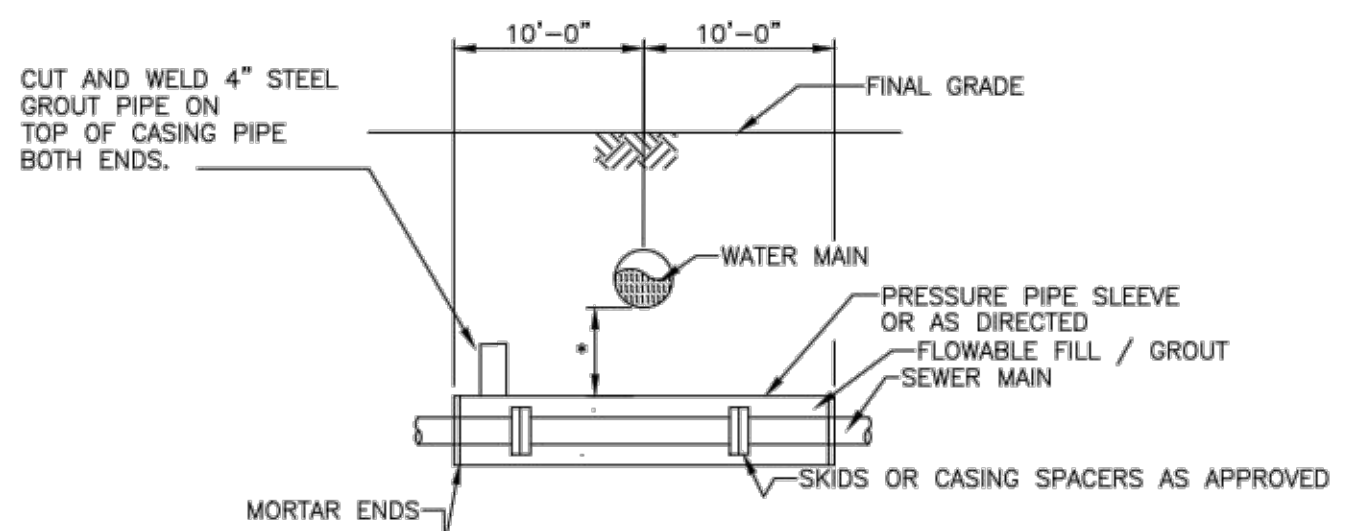


- ① 1 1/4" ODOT ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22.
- ② 1 3/4" ODOT ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64-22.
- ③ 6" ODOT ITEM 301 ASPHALT CONCRETE BASE COURSE, PG 64-22. (2 LIFTS)*
- ④ 12" ODOT ITEM 304 AGGREGATE BASE.
- ⑤ ODOT ITEM 613 LOW STRENGTH MORTAR BACKFILL.*

PAVEMENT REPAIR DETAIL
NOT TO SCALE

- NOTES**
1. THE THICKNESS OF THE PAVEMENT REPAIR SECTION SHALL NOT BE LESS THAN THE EXISTING PAVEMENT SECTION INCLUDING AGGREGATE BASE MATERIAL.
 2. CONCRETE OR BRICK BASE MATERIAL SHALL BE REPLACED WITH A MINIMUM OF 8-INCHES OF ODOT ITEM 452, NON-REINFORCED CONCRETE PAVEMENT. THE THICKNESS OF THE CONCRETE BASE REPAIR SHALL NOT BE LESS THAN THE EXISTING BASE MATERIAL. SEE ODOT BP-2.1 AND ODOT BP-2.2.

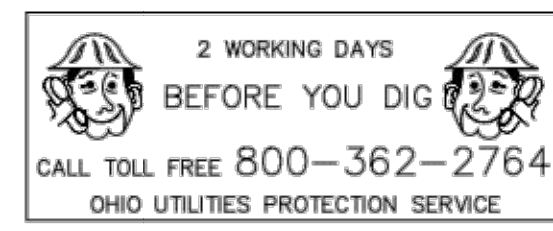
* ODOT PAVEMENT ONLY



ENCASEMENT DETAIL
NOT TO SCALE

- NOTES:**
1. WHERE "*" IS LESS THAN 18" A PRESSURE PIPE SLEEVE ON THE SEWER LINE IS REQUIRED. WHEN DIVERTING THE WATER MAIN OR PROVIDING SLEEVING, ONE LENGTH OF WATER PIPE IS TO BE LOCATED SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
 2. ALTERNATIVELY, THE SANITARY SEWER MAY BE CONSTRUCTED USING A PIPE MATERIAL EQUAL TO THE WATERMAIN BEING CROSSED.

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NORTHWESTERN WATER & SEWER DISTRICT
12560 MIDDLETON PIKE, PO. BOX 348
BOWLING GREEN, OH 43402
PHONE: (419) 354-9090 1-877-354-9090 TOLL FREE
AFTER HOURS EMERGENCY (419) 354-9001
WWW.NWWS.D.ORG

**SANITARY SEWER
GRAVITY SEWER DETAILS**

DRAWN BY:	CHECKED BY:
# DATE	BY REVISION
04/24/21	TB CONTENT REVISION
04/24/21	TB TRENCH DETAIL
04/24/21	MD TRENCH WIDTH NOTES

NWSD 4 / 4

THOMAS
PORTER
ARCHITECTS

8 North St. Clair - Toledo, Ohio 43604-1028
T 419.243.2400
www.thomasporterarchitects.com

CONSULTANTS:

esa
Engineers, Surveyors & Associates, LLC
1335 Secor Rd., Toledo, Ohio 43623 Phone (419) 479-9445

mda engineering, inc.
Mechanical and Electrical Engineers
1415 Holland Road
Maumee, Ohio 43537
Phone: (419) 893-3141

SEAL:

NOT FOR CONSTRUCTION UNLESS SIGNED & SEALED

RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43440

NWWSD NOTES AND DETAILS

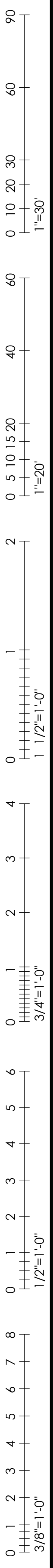
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C8.3

PROJECT TITLE:

ISSUE OR REVISION:

DATE	ISSUE / REVISION
10.22.2021	PERMIT & BID SET

DESIGNED: ACH
DRAWN: ACH/SJW
CHECKED: ARK
TPA COMMISSION NUMBER: 20026



NORTHWESTERN WATER & SEWER DISTRICT

WATER MAIN GENERAL NOTES AND SPECIFICATIONS

1.0 GENERAL

1.1 Technical Standards

- A. All material and construction shall meet the requirements of the American Water Works Association (AWWA), Ohio Department of Transportation (ODOT), The Ohio Environmental Protection Agency (OEPA), Recommended Standards for Water Works (10 States Standards) and American Society of Testing Materials (ASTM).
- B. References to the "District" in these specifications shall mean the Northwestern Water and Sewer District or its designated representative.

1.2 Drinking Water Facilities Separation

- A. A minimum of 10-foot horizontal and eighteen 18-inches of vertical clearance shall be maintained between sanitary sewers and public water mains. In the event that specified clearances cannot be maintained between the sanitary sewer and water main pipe, the sanitary sewer pipe shall be installed in accordance with the requirements of 10 States Standards.
- B. The District shall reserve the right to require the sanitary sewer to be constructed using pressure pipe in accordance 10 States Standards.

1.3 Minimum Cover

- A. Water mains shall be installed a minimum of 5-feet below final grade. The Contractor shall submit installations requiring less than 5-feet of cover or review by the District.

1.4 Erosion and Sedimentation Control

- A. All activities where disturbed soils are anticipated shall be maintained with proper erosion and sedimentation controls in accordance with the OEPA General Permit for Construction Activities and to the satisfaction of the Wood County Engineer or other local agency having jurisdiction over storm water drainage.

1.5 Coordination

- A. The Contractor shall schedule and attend a pre-construction meeting to be held prior to commencing any part of the work. The pre-construction meeting shall be scheduled to occur at minimum of one-week prior to the start of any part of the work.
- B. The Contractor shall notify the District a minimum of 72-hours prior to the commencement of any part of the work.
- C. The Contractor shall submit any proposed changes to the approved design plan in writing to the District for review.
- D. The Contractor shall promptly notify the District of any discrepancies between the requirements of these Specifications.

1.7 Inspections

- A. All work is subject to inspection and review of the District.
- B. No work shall be permitted without a designated representative of the District present.

1.8 Construction Limits

- A. The Contractor must at all times conduct his operations within the public right-of-way, easements, or work agreements as shown.

1.9 Existing Utilities

- A. The location of all utilities shown are as obtained from the owners of the utility. No guarantee of accuracy of these utilities is made. The Contractor shall be responsible for verifying the location of existing utilities and protecting the same during the execution of the work.
- B. Prior to commencing construction operations in an area which may involve underground utility facilities, the Contractor shall notify the District, and the Ohio Utilities Protection Service (OUPS) (1-800-362-2764).

1.10 Permits

- A. The District shall obtain environmental and roadway permits from: OEPA, ODOT, Townships and Wood County Engineer.
- B. The Contractor shall obtain all other required work permits prior to commencing any portion of the work.

1.11 Maintenance of Existing Flows

- A. The Contractor shall maintain flow in all pipelines encountered during the work. Sewage or other liquid must be handled by the Contractor either by connection into an existing sewer or by temporary pumping to a satisfactory outlet as approved by the District. Sanitary sewage and storm drainage shall not be drained to the same outlet.
- B. The Contractor shall submit all plans for pumping flow into alternate outlets for review by the District.
- C. Flow maintenance pumps and equipment shall be of sufficient capacity and design to handle the range of flow expected to occur. This District can provide guidance regarding the typical existing flow, however, the Contractor shall be responsible for the design and operation of pumping equipment provided to maintain of all existing flows including those in excess of the District's recommendations.
- D. The Contractor shall be prepared to perform the work on weekends and or evenings so as to minimize disruptions to the public.

1.12 Safety

- A. The provision of all safety measures shall be responsibility of the Contractor.
- B. Contractors performing work under these specifications shall conduct the work in accordance with all applicable local, State and Federal safety requirements.

2.0 WATER MAIN PIPE, FITTINGS, STRUCTURES AND MATERIALS

2.1 General

- A. Polyvinyl Chloride (PVC) pipe shall be used for water main pipe sizes 4-inches through 16-inches in diameter. Ductile iron pipe shall be used for pipe larger than 16-inches in diameter and less than or equal to 24-inches in diameter. The District shall reserve the right to specify the pipe material for water main and services based upon the proposed service or installation method.
- B. Valves required on waterlines 12-inches in diameter and larger shall be placed in manholes.
- C. The opening direction for valves and hydrants shall be as specified.
- D. Bolts, nuts or other required hardware to be placed below grade shall be type 304 stainless steel or shall be coated with a baked ceramic filled fluorocarbon resin.

2.2 Polyvinyl Chloride Pipe

- A. PVC pipe for water mains 4-inches through 12-inches in diameter shall be a minimum of DR18 with ductile iron equivalent outside diameter in accordance with AWWA C900. Molecular Oriented Polyvinyl Chloride Pipe (PVC-O) pipe for water mains 4-inches through 12-inches in diameter shall be a minimum of PC235 with ductile iron equivalent outside diameter in accordance with AWWA C909.

- B. PVC pipe for water mains 14-inches through 16-inches in diameter shall be a minimum of DR18 in accordance with AWWA C905.
- C. Restrained or fused joint PVC pipe may be used for water mains installed by horizontal directional drilling.
- D. Pipe shall be of the integral wall-thickened bell end type incorporating elastomeric gaskets to affect the pressure seal.
- E. Pipe shall be designed for direct connection into ductile iron fittings using mechanical joints.

2.3 Ductile Iron Pipe

- A. Ductile iron pipe for water mains shall be Class 52, minimum in accordance with AWWA C151 with rubber gasket joints in accordance with AWWA C111. The pipe shall have a cement mortar lining AWWA C104 and asphaltic coating in accordance with AWWA C151. Bronze wedges shall be used at all push-on joints (two per joint). The wedge shall be driven into the push-on joint to provide electrical conductivity between pipes.

2.4 Fire Hydrant Assemblies

- A. Fire hydrant assemblies shall include hydrants, watch valves, valve boxes and the required anchoring pipe and fittings.
- B. Fire hydrants shall be of the compression type, opening against and closing with the water pressure in the main, with a 6-inch mechanical joint base, two hose nozzles and one pumper nozzle as specified. Hydrants be provided in accordance with AWWA C502 and existing local fire department requirements.
- C. Fire hydrants shall be Mueller Super Centurion 250, American Daring B-848, or Kennedy K-81D. With the prior approval of the District, post-type fire hydrants may be used. Post-hydrants shall be Eclipse Model #2 with 4-inch mechanical joint inlet.
- D. Fire hydrants assemblies shall be provided with a 6-inch gate valve and valve box.
- E. Hydrants shall be provided with a Storz fitting compatible with a 5-inch diameter coupled fire hoses as manufactured Harrington, Inc or approved equal. The Storz fitting shall be integral and factory mounted to the fire hydrant assembly. Add-on Storz compatible adapters are not acceptable.
- F. Hydrants shall be factory coated with weatherproofing paint prior to shipment and again following installation. The portion of hydrants below ground shall be painted with black paint and the portion above ground shall be Rust-Oleum, 3444 Safety Yellow Industrial Enamel or approved equal. Hydrants installed on private waterlines shall be painted red.
- G. The hydrant and watch valve shall be secured to the water main with anchoring couplings as shown or required. All anchoring pipe and fittings shall be of the plain end mechanical joint type incorporating an integral follower gland and shall be as manufactured by Clow Corporation, American Cast Iron Pipe Company, US Pipe or approved equal.
- H. Hydrants shall be set plumb and to the grade of the surrounding area as approved by the District.
- I. Pumper nozzle shall be set toward the centerline of the street, highway, or right-of-way. Excavation for hydrants shall first be backfilled with No. 57 stone to a minimum depth of two feet. Remainder of excavation shall then be backfilled as specified for the trenches. Hydrants on main lines smaller than 6" in diameter shall not be equipped with a pumper nozzle.
- J. The hydrant base and watch valve shall rest on a 8" x 8" x 16" concrete block.

2.5 Gate Valves

- A. Gate valves shall be resilient seated, non-rising stem type, designed for a maximum working pressure of 200 psi, provided in accordance with AWWA C509 or C515.
- B. Gate valves shall be provided with a 2-inch operating nut.
- C. Gate valves shall be Mueller A-2361, Mueller A-2362, Kennedy C-509, or Kennedy C-515.

2.6 Double Check Valves

- A. A Double Check Valve in a manhole shall be installed on all Fireline connections.

2.7 Butterfly Valves

- A. Butterfly valves shall be used on all water mains 16-inches in diameter and larger.
- B. Butterfly valves shall be designed for a maximum working pressure of 150 psi and shall be provided in accordance with AWWA C504-Class 150B. Butterfly valves shall be provided with a 2-inch operating nut
- C. Butterfly valves shall be Mueller Linseal III or Kennedy 4500.

2.8 Fittings and Joints

- A. Fitting shall be of ductile iron, mechanical joint type or push-on type incorporating rubber gaskets. Caps and plug fittings shall be provided with standard tapped connections. Fittings shall be class 250 minimum, provided in accordance with AWWA C111 and C150, asphaltic coated in accordance with AWWA C151 or fusion bonded epoxy coating in accordance with AWWA C116 and cement mortar lined in accordance with AWWA C104.
- B. Fittings for HDPE pipe including but not limited to, elbows, tees, branch saddles, adaptors and transitions shall be HDPE pipe. Fittings shall have the same or better cell classification as the pipe. Fittings shall provide a pressure rating equal to or greater than the HDPE pipe. Joint restraints shall be provided as specified.
- C. HDPE pipe shall be joined by heat fusion butt welds between plain ends of pipe. Where conditions are not conducive to allow or manufacturer does not recommend heat fusion butt welds, an electrofusion coupling shall be used.
- D. HDPE mechanical joint adaptor and backer ring (retainer gland) shall be used to connect HDPE pipe to PVC or Ductile Iron Pipe (DIP). The mechanical joint adaptor shall join to the HDPE pipe as specified and the DIP mechanical joint shall connect to the PVC or DIP end using a standard mechanical joint connection.

2.9 Joint Restraints

- A. Mechanical joint restraints shall be provided at all dead ends, bends, tees, valves and other locations as required or specified. Mechanical joint restraints shall be provided in accordance with AWWA C111 and C153. Mechanical joint restraints shall include a restraining mechanism that when actuated, impacts multiple wedging actions against the pipe, increasing its resistance to movement as internal pipe pressure increases. The restraining device shall be constructed of ductile iron with a minimum working pressure of 250 psi and a safety factor of 2:1.
- B. The dimensions of the joint restraint shall be such that it can be used with standard mechanical joint bell and tee-head bolts conforming to AWWA C111. Twist-off nuts shall be used to insure proper actuation of the restraining devices

2.10 Polyethylene Wrap

- A. Ductile iron pipe and fittings shall be wrapped in a minimum 8 mil thick polyethylene tube per AWWA C-105. Fittings shall be wrapped for a distance of 5-feet on each side of the fitting. Rips, tears, punctures or other damage to the polyethylene tube shall be repaired prior to placement of backfill.

2.11 Water Services

- A. Water services shall be Type K copper or HDPE pipe DR9 copper tubing size in accordance with AWWA C901 on services less than 3-inches in diameter.

2.12 Manhole Structures

- A. All water manholes shall be precast concrete sections provided in accordance with ASTM C-478. Cast in place structures may be substituted for precast sections if approved in advance by the District. The minimum wall thickness shall be as shown on these Specifications with Grade 60 steel reinforcement. Concrete shall have a minimum compressive strength of 5000 psi.
- B. ADJUSTMENT RINGS: Precast concrete adjustment rings shall be provided with a maximum of 18-inches of total adjustment height between the bottom of the casting and the top of the manhole chimney section.
- C. CASTINGS: Standard cast iron manhole frame and covers shall be East Jordan Iron Works 1020A or Neenah 1772 with the District Logo cast on cover.
- D. RUBBER GASKET JOINTS: An o-ring type gasket shall be provided at all manhole joints in accordance with ASTM C-443.
- E. MANHOLE JOINT SEALANTS: Manhole joint sealants shall meet the Requirements of ASTM C-990, Federal Specification SS-S-210A or AASHTO M198B.
- F. MANHOLE STEPS: Manhole steps shall be constructed from polypropylene material, installed at the locations and spacing as specified, meeting the requirements of ODOT Item 711.31.
- G. MANHOLE IDENTIFICATION: The following shall be clearly stenciled or impressed on each manhole section: manhole number, casting date, the name or trademark of the manufacturer and location of plant.
- H. CONCRETE COLLARS: All manholes located in existing pavement areas shall be provided with a concrete collar unless otherwise approved. The specifications for the local jurisdiction in charge of roadway maintenance shall take precedence when determining the proper concrete collar detail.

2.13 Valve Boxes

- A. Valve boxes shall be 3 piece design, cast iron installed plumb and centered over the valve operator. Valve boxes located in pavement shall be installed so no loads are transmitted by the valve box onto the valve.
- B. Valves located more than 5-feet below grade shall be provided with valve extensions.
- C. Valve box castings shall be marked "Water".
- D. All valve boxes located in existing pavement areas shall be provided with a concrete collar unless otherwise approved. The specifications for the local jurisdiction in charge of roadway maintenance shall take precedence when determining the proper concrete collar detail.

2.14 Locating Wire / Identification Tape / Utility Markers

- A. A detectable locating tracer wire shall be installed directly over and on the center of non-metallic pressure pipes in open cut applications along the entire length to provide a reflective (inductive) path to determine pipe alignment and location after installation. The tracer wire shall be brought to the surface at a minimum of 500-foot intervals in a Copperhead Industries SnakPit Roadway tracer box. A 4-foot extra tracer wire extension shall be provided at each access point. The tracer wire shall be brought to the surface on the outside of all valve boxes and manholes. All wire connections shall be made with a Copperhead SnakeBit DryConn Direct Bury 3 way Lug or approved equal.
- B. For open cut trench applications, the tracer wire shall be #12 gauge wire with 30 mil polyethylene insulation coating.
- C. For horizontal directional drilling applications the tracer wire shall be Copperhead or Equal #12 gauge Extra High Strength (EHS) wire that has a minimum of an 1150 lbs break load. The tensile strength of the tracer wire shall be greater than the tensile strength of the pipe being installed by horizontal directional drilling methods.
- D. After installation tracer wire shall be tested for continuity. Tracer wire shall be considered acceptable when a continuous non-interrupted read is obtained for the entire length of the pipe line.
- E. An identification tape printed with the wording "WATER" shall be installed directly over the main approximately 30-inches below grade.
- F. Utility markers shall be provided over the pressure pipe at intervals not to exceed 1000-feet spacing and at all valves and fittings to properly show the alignment. Markers shall be Carsonite CUM-375 or approved equal. The wording for the markers shall be submitted to the District for review.

2.15 Water Main Tapping Sleeves and Valves

- A. Tapping valves for new water main connections smaller than 12-inches in diameter shall be Mueller T-2361 or T-2362 or approved equal in accordance with AWWA C509 or C515. The tapping saddle and valve shall be designed for a maximum of 250 psi.
- G. Tapping valves for new water main connections larger than 12-inches in diameter shall be Mueller T-2361 or approved equal in accordance with AWWA C515.
- H. Tapping Sleeves for new water main connections 4"-12" in diameter shall be Ford FTSS style.

2.16 Service Tapping Saddles

- A. Tapping saddles shall be in accordance with the Water Main Service Connection Detail.

3.0 INSTALLATION OF WATER MAINS

3.1 Excavation

- A. Excavations shall be made to the outside dimensions and to the depths shown or as specified. Topsoil which is suitable for finish grading shall first be carefully removed, stored separately and replaced, after backfilling and rough grading are complete.

3.2 Pipe Bedding Material

- A. Pipe shall be laid on a properly shaped and firm bedding of the type specified meeting the requirements of ODOT Table 703.01-1. If directed by the District, the Contractor shall excavate unsuitable material below the bottom of the pipe bedding. Unsuitable material removed shall be replaced with granular material per ODOT Table 703.01-1.
- B. Pipe bedding material for water mains shall consist of a bed of granular stone with a thickness as specified below the bottom of the pipe to provide proper support and extending to a plane as specified above the crown of the pipe. Granular bedding material shall be No. 8 aggregate stone for PVC or HDPE water main pipes and sand or screenings for ductile iron water main pipes in accordance with ODOT Item 703.10 unless otherwise approved by the District.

3.3 Installation of Pipe

- A. Pipe and appurtenances shall be installed true to line, grade and locations shown on the design drawings with joints centered, spigots pushed home and properly supported. Care shall be used in the laying of pipe to ensure the pipe is properly supported for the entire length of the pipe barrel.

3.4 Manholes

- A. The Contractor shall note any damaged or defective manhole sections for review by the District. The District shall reserve the right to direct repairs to damaged or defective manhole sections or to require replacement. Repairs shall be in accordance with the requirements of ASTM C-478.
- B. Pipe connections shall be a minimum of 6-inches from any joints in the structure.

3.5 Connections to Existing Mains

- A. New mains shall be connected to existing mains or services, using fittings appropriate for the pipe materials being used and as approved by the District. The Contractor shall notify the District a minimum of 48-hours in advance of performing connections to existing mains. The Contractor shall be prepared to work weekends and or evenings so as to minimize disruptions to existing customers.
- B. The Contractor shall make new connections carefully to prevent contamination of the existing mains. All fittings, valves, and pipe shall be washed with clean water and then sterilized by washing with a chlorine solution having a residual chlorine strength or not less than 50 ppm.
- C. The Contractor shall hydrostatically test the tapping saddle in accordance with the manufacturer's recommendations prior to the construction of the new water main connection.

3.6 Maintenance of Trenches and Backfill

- A. Backfill shall be to the limits shown on the drawings and according to the compaction requirements of this section. Backfill material shall be placed and compacted for the entire width, length and height of the trench or excavation.
- B. Trenches and excavations shall be backfilled immediately after the pipe placed and bedded. Pipe bedding and trench and excavation backfill material shall be placed in the presence of a representative of the District. Backfill shall not contain stones, rock, pieces of masonry, organic material, frozen earth, debris, earth with a high void content or other material considered unsatisfactory by the District.
- C. NON-STRUCTURES: Backfill not under structures or outside the pavement influence area shall be compacted in 6-inch layers to 95% of Standard Proctor or as directed by the District for the entire width, length, and vertical height of the trench.
- D. STRUCTURES: Backfill under structures or adjacent to pavement shall be ODOT Type 304 or 411 and compacted in 6-inch lifts to 100% of Standard Proctor. Structures include manholes, pump stations, grinder pumps, roads, drives, sidewalks, and any other miscellaneous items called out on the drawings.
- E. PAVEMENT INFLUENCE AREA: Excavations below a line extended from the edge of pavement (or back of curb) at a 45 degree angle downward from the surface shall be backfilled as specified for structures. Areas of the excavation above the 45 degree projection may be backfilled as listed for non-structures.
- F. Water may be used to attain the proper moisture content in achieving compaction requirements. Prior to the placement of soil over the granular material all free water shall be drained from the excavation.
- G. In areas where granular material is not acceptable for use as backfill, provide Controlled Density Fill (CDF) in accordance with ODOT Item 613, Low Strength Mortar Backfill. CDF shall not be placed around ductile iron pipe without polyethylene wrap.

3.7 Stockpiles

- A. Stockpiles of excavated material and all construction material shall be of limited size and shall be neatly maintained or removed from the project site so as not to block existing drainage or impede pedestrian or vehicular traffic.
- B. Excess excavated material stockpiled at the work site, and not be used for backfill or other restoration purposes, must be removed from the project area within 2 weeks of the initial disturbance.
- C. Stockpiles shall not be permitted to be replaced within Ohio Department of Transportation right-of-way.

4.0 HORIZONTAL DIRECTIONAL DRILLING

4.1 General

- A. Pipe to be installed by HDD shall use a surface launched steerable drill tool controlled from a mobile drilling frame that includes a field power unit, drilling fluid mixing system and mobile spoils extraction system.
- B. The Contractor shall be responsible for any settlement, heaving, drilling fluid contamination or other damage caused to surface or underground features as a result of the HDD operation. The Contractor shall closely monitor the volume of drilling fluid used, pulling forces and the pullback operation to avoid damage to adjacent facilities or pipe being installed.

4.2 Procedure

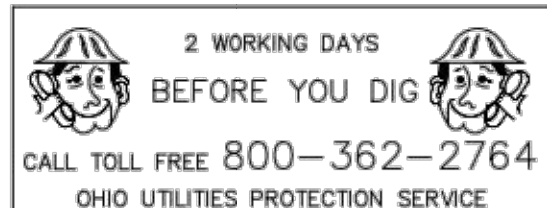
- A. PILOT HOLE: The pilot hole shall be drilled in accordance with the tolerance limits listed below. The Contractor shall clearly mark the alignment and depth of the pilot hole on the ground or with paint, lath or flags as the drilling head advances.
- B. REAMING: The drill hole shall be pre-reamed as necessary for the type of soil and ground conditions. The reaming diameter shall not exceed 1.5 times the diameter of the product pipe being installed.
- C. PIPE INSTALLATION: The pipe shall be pulled into place in one continuous operation and properly supported and protected to prevent damage during installation. The Contractor shall carefully monitor the pullback operation to ensure the allowable strength of the pipe is not exceeded. Pipe connections shall be made after pipe has had adequate time to adjust to environmental conditions such as temperature.

4.3 Drilling Fluid

- A. The Contractor shall utilize drilling fluid consisting of a bentonite, water and polymer solution to stabilize the hole, remove cuttings and lubricate the pipe. All drilling fluid mixtures shall meet the requirements of applicable environmental regulations. The pipe shall be cleaned of any drilling fluid that enters the pipe during the execution of the work.
- B. The Contractor shall provide measures to contain the drilling fluid to the work area to prevent damage to adjacent facilities.

4.4 Tolerances

- A. The pipe shall be installed to the specified tolerances as summarized below. Pipe installations that fall outside of these tolerances shall be re-drilled to achieve the required tolerances.
- B. The vertical elevation shall be within 0.50-feet of the plan elevation and the horizontal alignment shall be within 2-feet of the plan location unless otherwise specified.
- C. The pilot hole curve radius shall be no greater than 75% of the maximum bending radius of the pipe being installed.
- D. The pilot hole shall be no closer than 3-feet from any right-of-way or easement boundary.
- E. In the case that the pilot hole must be abandoned, the Contractor shall submit a plan for filling, grouting or securing the pilot for review by the District.
- F. QUALITY CONTROL: The Contractor shall locate the pilot hole every 10-feet and maintain accurate record of the horizontal and vertical location of the pilot hole. The Contractor shall maintain drilling logs recording the following information: date, times, soil conditions, depth of bury and horizontal location referenced to stationing, centerline, R/W or permanent easement line. The Contractor shall not excavate all existing utilities to be crossed by the proposed boring prior to commencing drilling operations. The District shall reserve the right to require more frequent spot boring or pilot hole excavation location checks.



NORTHWESTERN WATER & SEWER DISTRICT

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PHONE: (419) 354-9090 1-877-354-9090 TOLL FREE
AFTER HOURS EMERGENCY (419)-354-9001
WWW.NWWS.ORG



WATER MAIN
GENERAL NOTES AND SPECIFICATIONS

CHECKED BY:

DRAWN BY:	BY	REVISION
#	DATE	REVISION
1	02/01/21	TB
2	02/01/21	MD
3	02/01/21	MD
4	02/01/21	MD
5	02/01/21	MD
6	02/01/21	MD
7	02/01/21	MD
8	02/01/21	MD
9	02/01/21	MD
10	02/01/21	MD

DATE

DESIGNED: ACH

DRAWN: ACH/SJW

CHECKED: ARK

TPA COMMISSION NUMBER: 20026

DRAWING TITLE:

DRAWING NUMBER:

NWSD 1 / 5

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SEAL:

STATE OF OHIO
JEREMY J. LAUCH
E-48712
REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION UNLESS SIGNED & SEALED

RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

PROJECT TITLE:

02/22/2021 PERMIT & BID SET

DATE

ISSUE / REVISION

DESIGNED: ACH

DRAWN: ACH/SJW

CHECKED: ARK

TPA COMMISSION NUMBER: 20026

DRAWING TITLE:

DRAWING NUMBER:

C8.4

2 WORKING DAYS
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Figure 1 displays five horizontal scales used for converting inches to feet. The scales are labeled as follows:

- $3/8" = 1'-0"$: A scale from 0 to 8 inches, with markings every 1/8 inch.
- $1/2" = 1'-0"$: A scale from 0 to 6 inches, with markings every 1/4 inch.
- $3/4" = 1'-0"$: A scale from 0 to 4 inches, with markings every 1/4 inch.
- $1 1/2" = 1'-0"$: A scale from 0 to 2 inches, with markings every 1/4 inch.
- $1" = 20'$ and $1" = 30'$: Two scales for larger conversions. The first scale (1" = 20') ranges from 0 to 60 feet, with markings every 5 feet. The second scale (1" = 30') ranges from 0 to 60 feet, with markings every 10 feet.

A. The Contractor may choose to construct a portion of the water main by free bore methods. This method may be used with the approval of the District; however the Contractor shall be responsible for damage to existing facilities caused by free bore methods.

B. The Contractor shall inspect the location of the proposed water main and the conditions under which the boring is to be made. Unless specifically called for on the plans, installation of an casing pipe is at the discretion of the Contractor. However, this will not relieve the Contractor of his responsibilities to protect existing facilities from damage and to fill any voids caused by free boring operations.

A. The Contractor shall furnish the necessary pumping equipment, pipe connections, tanks, gauges, auxiliary water containers, bulkheads, plugs, and any other equipment required to perform pressure and leakage tests.

B. The Contractor may allow a subcontractor to perform the testing of facilities installed under this specification, but all testing must be performed with a representative of the Contractor and District present. The District representative shall reserve the right to require and witness the calibration of any equipment to be used for the test.

C. The District shall reserve the right to require additional testing of materials not specifically defined required to determine conformance with these specifications.

A. Water mains shall be disinfected in accordance with procedures outlined in AWWA C651. Disinfection may be accomplished by the tablet method, the continuous feed method or the slug method. In all cases, tests for chlorine content shall be performed in accordance with Standard Methods for Examination of Water and Wastewater. All filling operations must be conducted under the supervision of the District. The Contractor shall use special care to ensure the pressure in the new main does not rise above 20-psi during filling applications. Disposal of heavily chlorinated water shall be in accordance with AWWA C651.4.9.2.

A. Water mains shall be hydrostatically tested in accordance with procedures outlined in AWWA C600 and AWWA C605. Water mains shall be subjected to hydrostatic testing following disinfection and flushing of disinfection solution out of the water main. The Contractor shall remove all air from the section of water main to be tested. The new water main shall remain isolated from adjacent mains during the hydrostatic testing.

B. Water mains shall be tested at 150-psi and fire lines shall be tested at 200-psi by pumping clean water containing 10 ppm chlorine from a cleaned and sterilized container through a 1-inch corporation stop installed on the water main.

C. After 18-hours, the water main shall be maintained at the test pressure for 6-hours. At the end of the 6-hour period, the water shall be measured and the loss by leakage shall not exceed that as determined by the following formula:

$$L = (S \cdot D^3 \cdot \sqrt{P}) / 148,800$$

Where:

- L = Quantity of make water in gallons per hour
- S = Length of pipe section being tested in feet
- D = diameter of pipe, in
- P = average test pressure in pounds per square inch (gauge)

D. When hydrants are in the test section, the test shall be made against the closed hydrant. Pressure testing of each side of the intermediate valves shall be performed by shutting each valve and exhausting the pressure on one side and then applying the test pressure on the opposite side of the valve. This procedure shall be repeated for each intermediate valve.

E. Upon completion of the leakage tests, the main shall be thoroughly flushed with potable water from the public supply until the water in the main has approximately the same chlorine content as water in the existing main.

F. All visible leaks shall be repaired, regardless of the amount of leakage.

A. Following the successful hydrostatic testing, bacteriological samples shall be collected from the water main by District for testing. Collection and testing of the samples shall be performed in accordance with Standard Methods for Examination for Water and Wastewater

A. Any section of water main failing to meet the testing requirements outlined in this section shall be remedied by presenting a plan for review by the District

A. All areas shall be returned to the grade and condition existing prior to the work within 30 days of disturbance of the area unless approved otherwise by the District. This shall include the repair or replacement of pavement surfaces.

A. All areas disturbed by construction and not paved with some other material shall be seeded, mulched, and fertilized according to DOT Item 659.

B. Weather Restrictions: All disturbed areas shall be permanently restored within 30 days of the initial disturbance between March 15 and October 15. Disturbed areas shall be temporarily seeded between October 16 and March 14 and permanently restored as soon as weather permits. Hydro-seeding or Broadcasting technique's may be used from March 15th to May 31st. From June 1st to October 15th, the Broadcasting technique shall be used.

C. Topsoil: The topsoil depth shall be a minimum of 4-inches thickness and in no case shall be less than existing prior to the work. Topsoil areas shall be prepared in accordance with ODOT Item 653 or ODOT Item 652. Topsoil shall be raked free of rocks and clods prior to seeding. All topsoil shall be provided and tested per ODOT Item 659.

D. **Seed Mixtures:** Prior to seeding, the District shall identify the required seed mixtures per ODOT Item 659. Lawns of quality superior to the lawn seed mixture specified by ODOT Item 659 shall be identified by the Contractor and the Contractor shall submit a seed mixture similar to the lawn to the District for review. Any additional compensation required to provide the superior seed mixtures shall be limited to the difference in material cost between the ODOT Item 659 lawn seed mixture and the approved lawn seed mixture. An invoice is required to approve the cost adjustment.

E. Temporary seed mixtures shall be submitted for review by the District.

F. **Hydro-seeding Technique:** Apply starter fertilizer per ODOT 659. The seeded slurry shall be applied with a hydraulic seeder at a rate of 3 pounds per 1,000 square feet in two intersecting directions. Hydro-mulch with a tackifier shall consist of 2/3 wood and 1/3 paper fibers and shall be applied to a minimum thickness of 1/8-inch.

G. Broadcast Technique: Apply starter fertilizer per ODOT 659. Apply seed at a rate of 6 lbs per 1000 sq. ft. evenly in two intersecting direction's. Rake seed in lightly. Apply straw mulch evenly over all seeded areas and immediately apply a tackifier per ODOT 659.

H. Maintenance: The Contractor shall repair and reseed any areas that settle after the permanent seeding is completed for the warranty time period specified. The Contractor shall perform any Repair Seeding and Mulching as specified under Item 659. The Contractor shall be responsible for reseeding areas as necessary at time intervals appropriate for the ground and weather conditions until a dense stand of grass is obtained. Seeded areas shall be maintained and watered by the Contractor in accordance with ODOT Item 659.

- A. Trees and bushes shown on the plan be removed as part of the work, shall be removed and disposed of by the Contractor in accordance with ODOT Item 201.
- B. The District's permission shall be obtained prior to the removal of any tree or bush not marked for removal on the plan.
- C. Other trees, tree limbs and bushes located such that they made be damaged during the work, shall be properly trimmed and shaped. All exposed surfaces in excess of one inch diameter shall be immediately painted with an approved pruning compound.
- D. Trees and bushes, not approved for removal damaged by the Contractor shall be replaced by the Contractor.

- A. The Contractor shall obtain all permits and approvals required to perform the necessary pavement cuts prior to commencing work on the project.
- B. All pavement and sidewalk repairs shall be performed in accordance with the requirements of the ODOT Construction Materials Specifications and in accordance with the requirements of local agency having jurisdiction over the roadway.

A. Pavement removal shall be performed in accordance with ODOT Item 202.

B. All edges of existing pavement shall be saw-cut neatly and perpendicular to the

A. Concrete pavement replacement shall be performed in accordance with ODOT Item 255 and 452.

B. All concrete materials, reinforcing steel and required dowel placements shall be in accordance with

- A. Asphalt pavement repairs shall be provided in accordance with the requirements of the local agency having jurisdiction over the roadway. At a minimum the pavement repair thicknesses shall match the existing cross section. The asphalt pavement repairs shall be as shown in these Specifications.
- B. All cold joints shall be sealed in accordance with ODOT Item 409.
- C. The repaired pavement shall match the elevation, profile grade, cross slope, width, shoulder, edge

A. No asphalt concrete pavement shall be placed before May 1 or after October 31, unless otherwise approved by the District. Should pavement replacement not be completed within these dates the Contractor shall provide a temporary wearing course meeting the requirements of ODOT Item 441 (448).

B. The Contractor shall replace temporary pavements with permanent pavement as specified.

- A. Existing concrete, slate or brick sidewalk to be removed as part of the work or are damaged during the execution of the work shall be replaced. Slate or brick material to be removed shall be salvaged for the property owner unless otherwise specified.
- B. New concrete sidewalks shall match the original sidewalk width, elevation and slope. All sidewalks shall be a minimum of 4-feet wide. Service walks leading from private properties shall be installed to match the original width, grades and slopes. New sidewalks shall be a minimum 4-inches thick, except at driveways where they shall be 6-inches or 8-inches thick and shall be laid to the established sidewalk grade and placed on 4-inches of compacted sand fill or ODOT Item 304.
- C. All concrete used for sidewalks shall be a 4000 psi air-entrained mix.
- D. The concrete shall be carefully spaced into place and struck even with the top of the forms after which it shall be wood floated to a level skid-resistant trowel surface.
- E. Provide 1/2-inch metal expansion joints at intervals of 25-feet and at junctions with other walls or structures. Sidewalks other than concrete or brick shall be classified as pavement and shall be replaced as previously specified for the appropriate type of pavement.

- A. All crossings of State Highways shall be installed by boring methods unless otherwise approved by ODOT District 2.
- B. Where open cutting of State Highways is approved by ODOT District 2 within municipal corporate boundaries, the work shall be performed in accordance with the requirements of these Specifications.

A. The Contractor shall remove and replace all existing facilities required and shown to complete the work as shown.

A. All existing storm sewers, subsurface drainage systems or field tiles damaged or interfered with during construction shall be replaced with new pipe matching the existing storm sewer and as directed by the entity having jurisdiction over the storm sewer. Removed pipe shall not be reused unless approved by the District and entity having jurisdiction over the storm sewer.

B. The replaced pipe shall be installed with proper bedding and backfill and shall be installed to match the grade and size of the existing storm sewer.

C. Fernco type adapters or approved equal shall be used at all joints connecting new storm sewer pipe to the existing storm sewer pipe.

10.0 MAINTENANCE OF TRAFFIC

jurisdiction over the roadway.

B. All work zone traffic control shall conform to the requirements of the Ohio Manual of Uniform Traffic Control Devices. The design and operation of the all work zone traffic control shall be the responsibility of the Contractor.

C. All plans for road closures, lane restrictions or reductions shall be submitted a minimum of 2 weeks ahead of the expected work for review by the District and the local entity having jurisdiction over the roadway. It shall be the Contractor's responsibility to determine if more than 2 weeks are needed for the local entity's review.

A. The Contractor shall submit 5 copies all shop drawings and submittals to the District showing all materials or equipment that are proposed or required for the work. Shop drawings and submittals shall be provided a minimum of 10 days prior to the commencement of construction.

B. The Contractor shall provide a construction schedule indicating major project milestones. The Contractor shall update this schedule during the work to reflect changes in the project schedule.

C. Shop drawings shall be drawn to scale and include all field measurements, calculations, certifications, material and equipment specifications as well as any other information necessary for the District's review.

D. An approved shop drawing does not relieve the Contractor from providing a complete working system as described in the Contract Documents.

E. Material or equipment installed without an approved shop drawing is done at the Contractor's sole risk and is subject to removal at no additional cost to the District, if the District determines the material or equipment is unacceptable or improperly installed.

A. The Contractor shall provide a digitally recorded video record showing the site conditions of the construction area to the District a minimum of 5 days prior to the commencement of any work on the site. The preconstruction video record shall be of sufficient detail to describe all existing site features and conditions including, but not limited to: roadway, sidewalk and driveway pavement, curbs, gutters, ditches, bridges, culverts, headwalls, landscaping, trees, signs, utility poles, mailboxes, street lights, catch basins, manholes, valve boxes, fire hydrants, fences and any other features that may be affected by the work. Buildings shall be located by street address.

B. The Contractor shall utilize a professional video recording service specializing in the preparation of municipal project preconstruction video records. When filming from a wheeled vehicle, the distance from the lens to the surface shall not be less than 12 feet to insure adequate perspective.

C. The contractor shall provide two (2) copies of the video record in DVD format to the District prior to the commencement of construction. All discs and cases provided to the District shall bear the following information: NAME OF PROJECT, DISTRICT PROJECT NO (SS-XX), NAME OF CONTRACTOR, NAME OF VIDEO RECORDING SERVICE, DATE OF RECORDING.

D. The video record shall have a continuously, running time digital stamp, indicating the date, time (hh:mm:ss), direction of travel and stationing (xx+xx). The video record shall consist of a video track and an audio track. The audio track shall be recorded by the camera operator describing the features being recorded.

E. Video recording of existing site conditions shall be performed in the presence of a representative of the District.

A. The Contractor shall maintain as-built records of all construction work performed, carefully noting any changes in the design plans. These as-built plans shall be submitted to the District following the completion of the work.

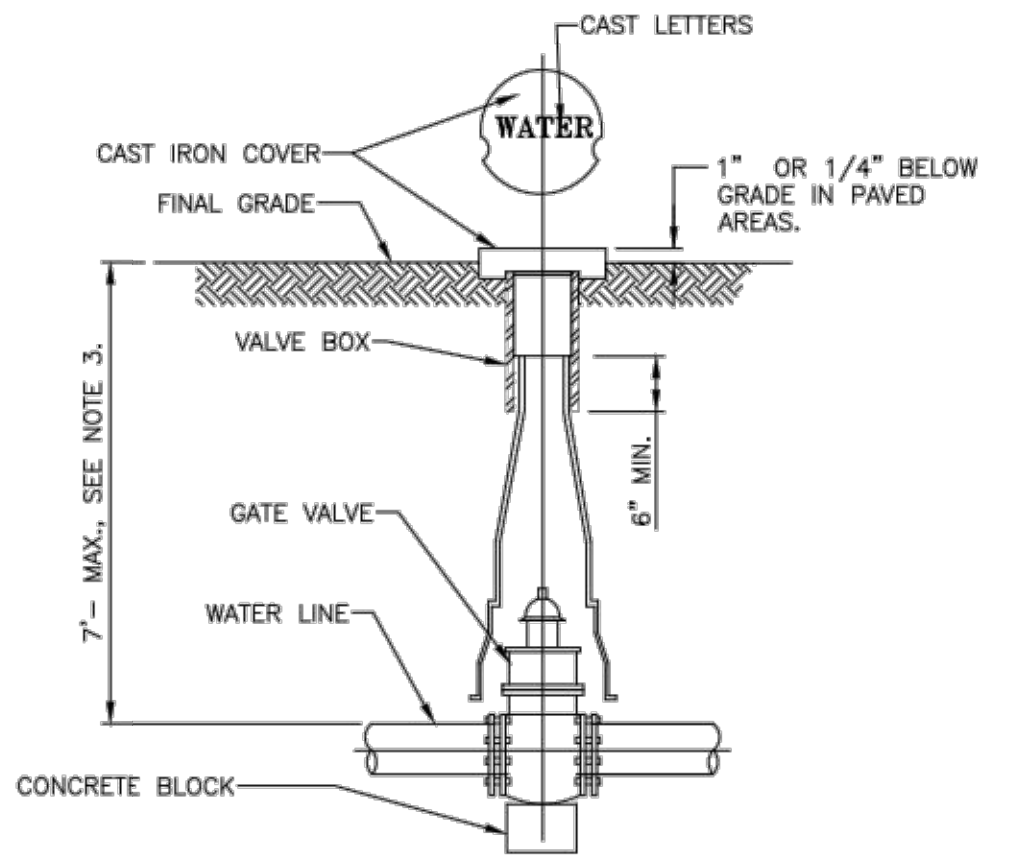
A. Normal working pressure in the system shall not be less than 35 psi.

B. The system is designed to maintain a minimum pressure of 20 psi at ground level at all points in the system under all conditions.

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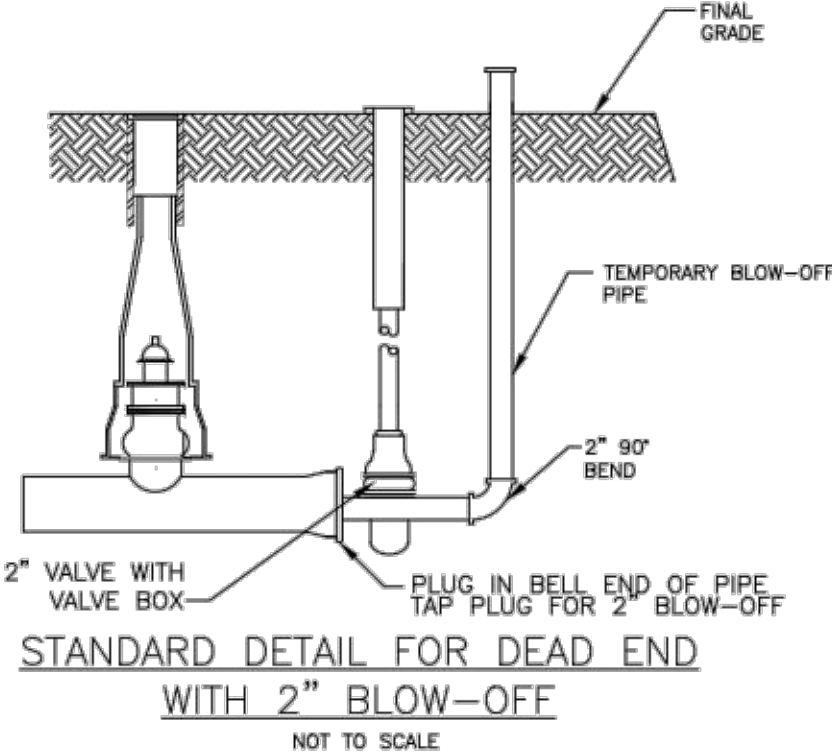


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1"=30'
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1"=20'
0 1 2 3 4 5 6 7 8 9 10 11 12
1 1/2"=1'-0"
0 1 2 3 4 5 6 7 8 9 10 11 12
1 1/2"=1'-0"
0 1 2 3 4 5 6 7 8 9 10 11 12
1 1/2"=1'-0"
0 1 2 3 4 5 6 7 8 9 10 11 12
1 1/2"=1'-0"



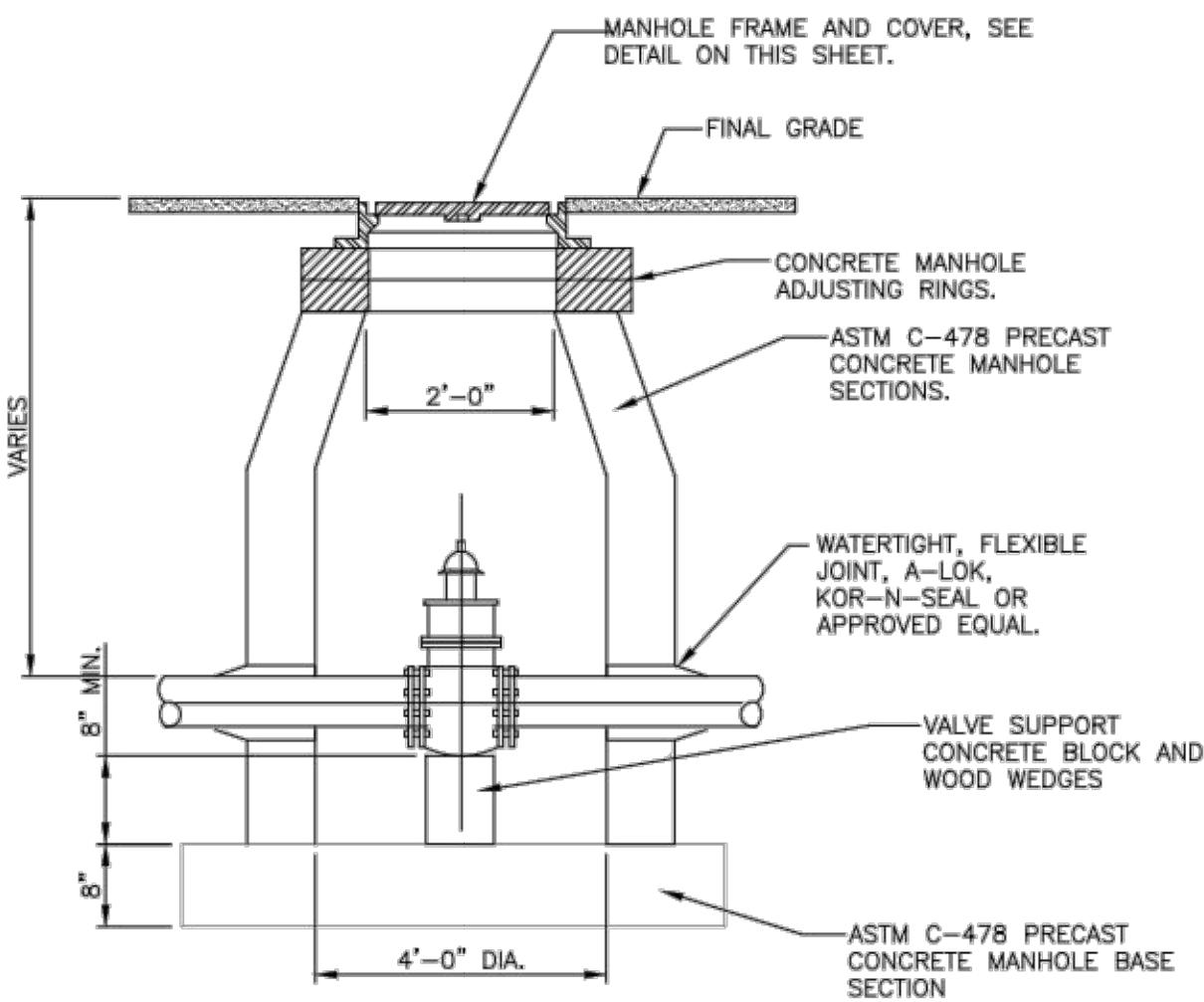
GATE VALVE DETAIL
FOR 10" AND SMALLER WATER MAINS

- NOTES:
- VALVES WITH THE OPERATING NUT GREATER THAN 5- FEET BELOW GRADE SHALL BE PROVIDED WITH A VALVE EXTENSION.



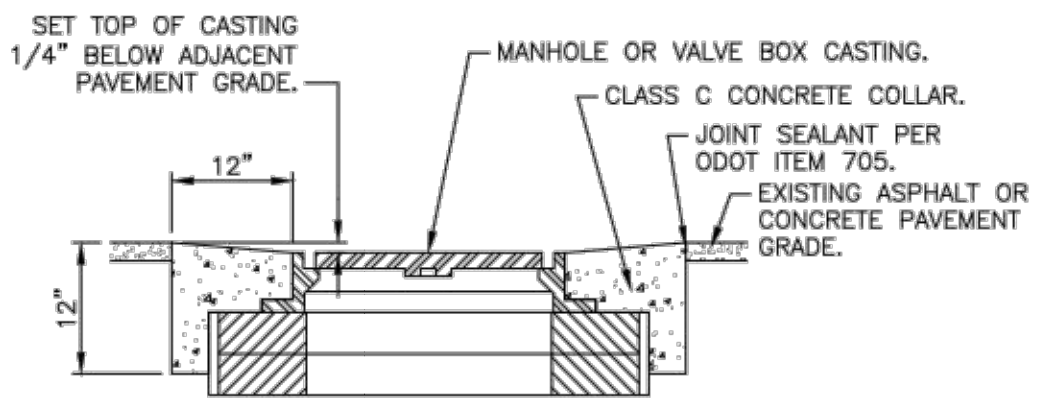
WL-#	VALVE OPENING DIRECTION
WL-100 AREA	CLOCKWISE
WL-6100 AREA	CLOCKWISE
WL-7100 AREA	CLOCKWISE
WL-200 AREA	CLOCKWISE
WL-4000 AREA	CLOCKWISE
WL-5000 AREA	CLOCKWISE
ALL OTHERS	COUNTERCLOCKWISE

VALVE SCHEDULE



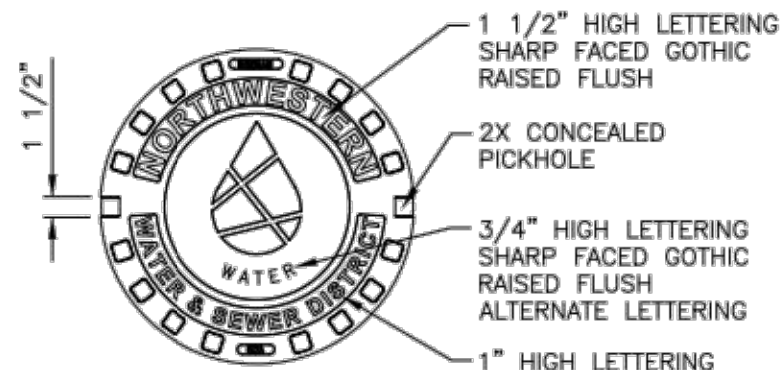
GATE VALVE IN MANHOLE DETAIL
FOR 12" WATER MAINS

- NOTES:
- PROVIDE MANHOLES ON WATER MAINS 12" AND LARGER OR FOR VALVES LOCATED IN PAVEMENT IN ACCORDANCE WITH THE SPECIFICATIONS.



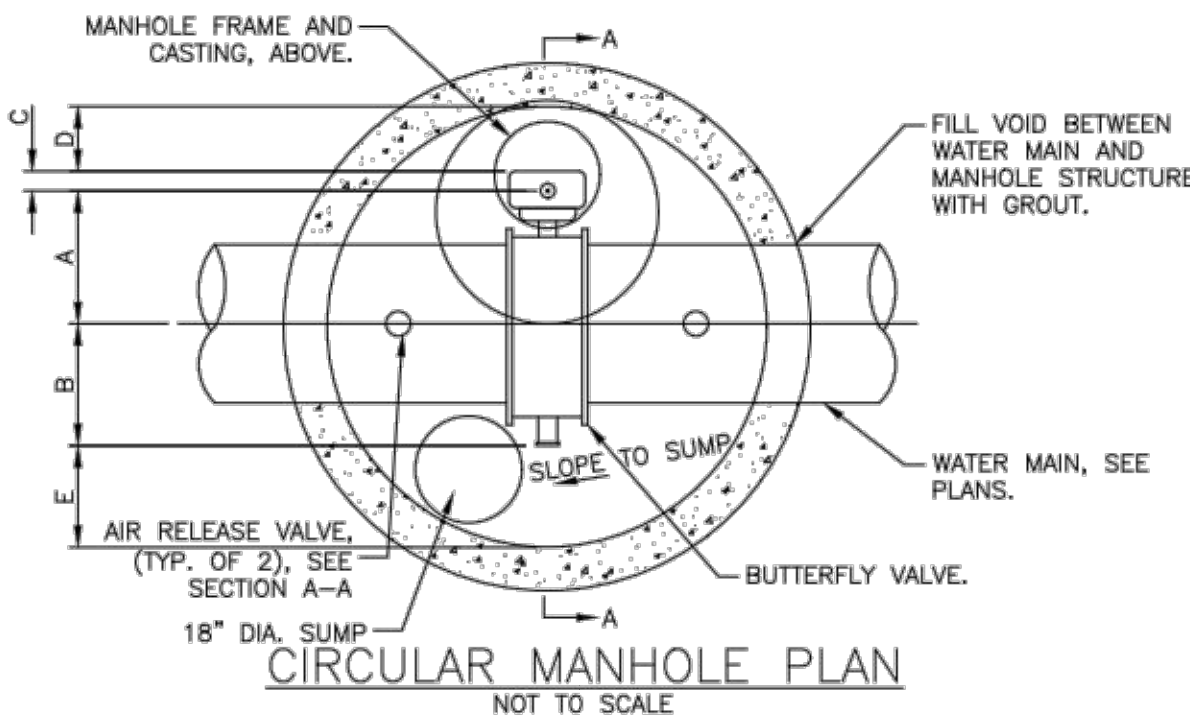
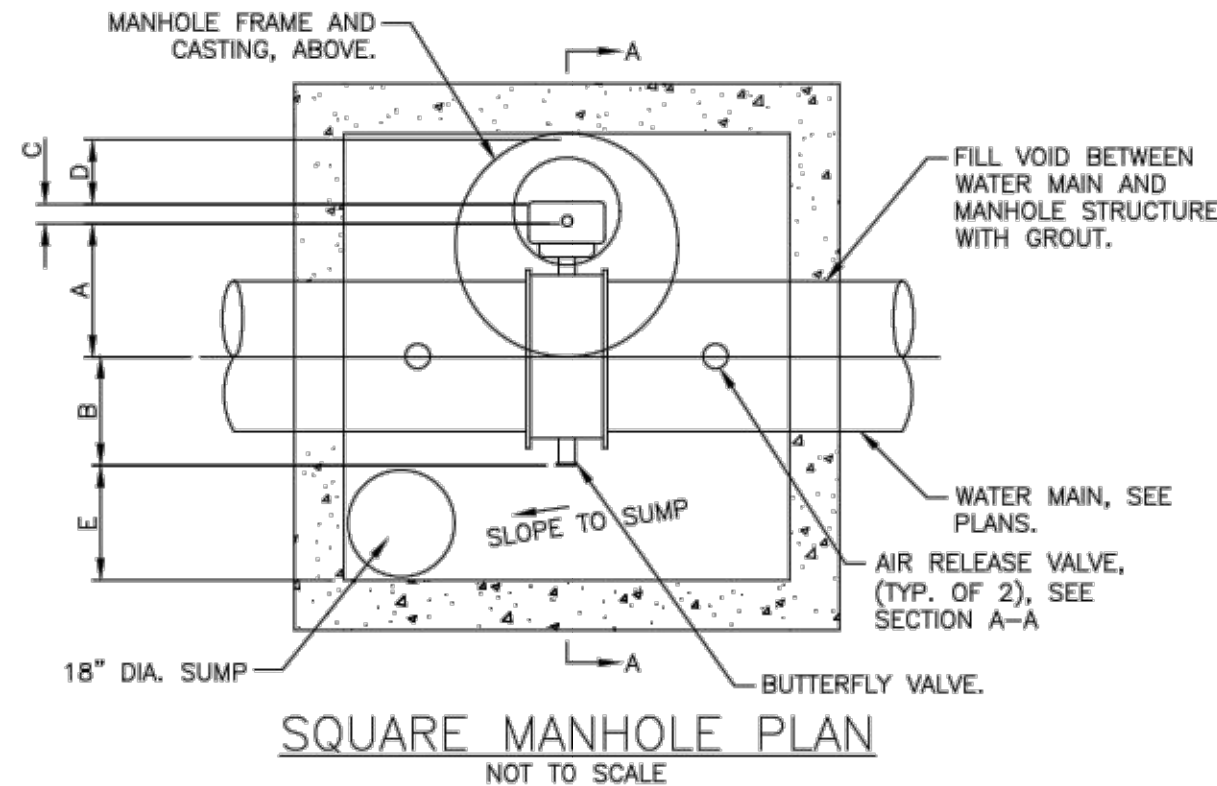
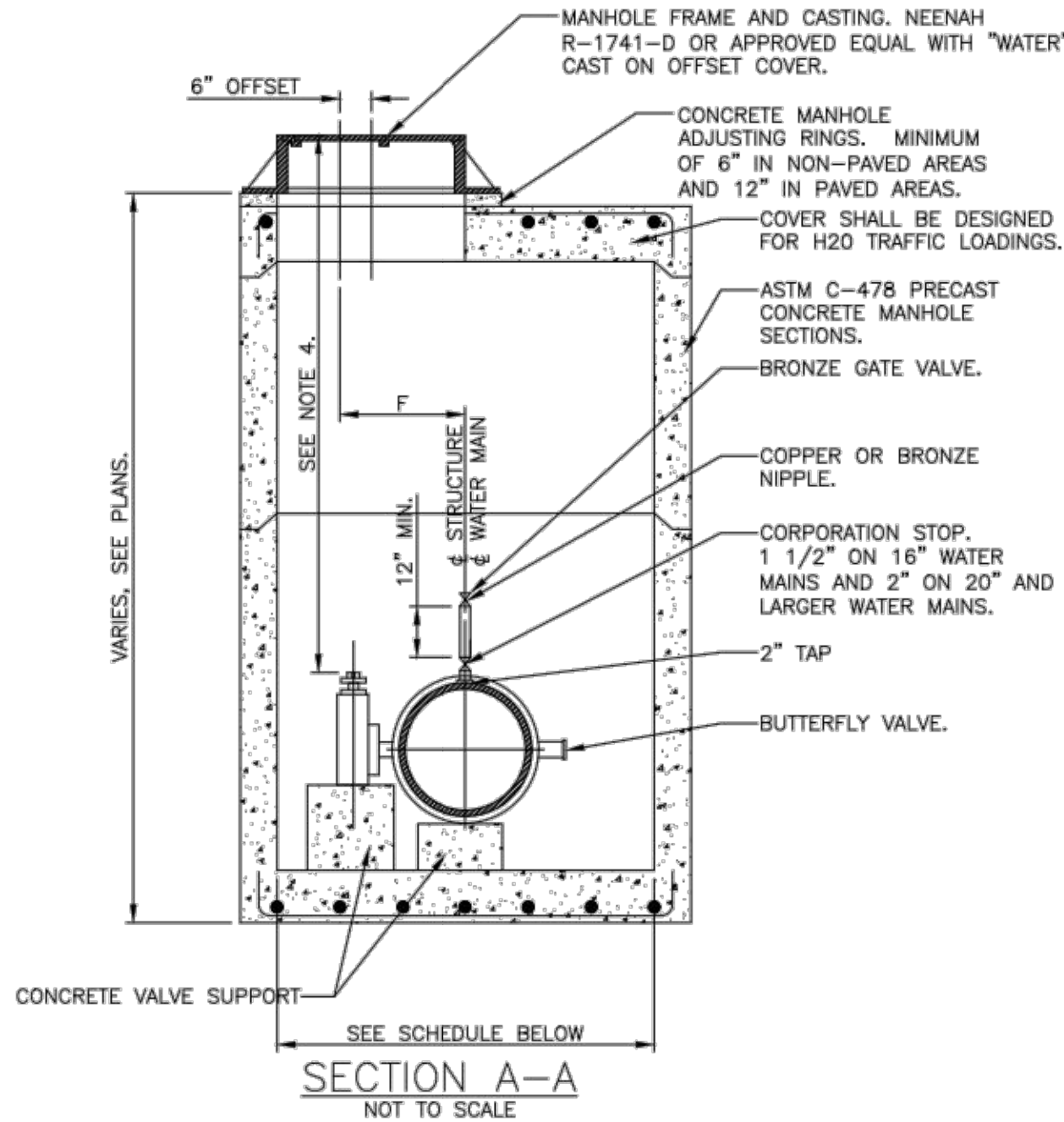
MANHOLE CONCRETE COLLAR DETAIL

- NOTES:
- THE CONCRETE COLLAR SHALL BE CONSTRUCTED USING FAST SET CONCRETE.
 - THE CONCRETE COLLAR SHALL NOT BE OPENED TO TRAFFIC UNTIL THE CONCRETE HAS CURED FOR 24-HOURS.



MANHOLE COVER DETAIL

- NOTES:
- DISTRICT WATER MANHOLE COVER AND FRAME SHALL BE EJIW 1020A OR NEENAH 1772 MANHOLE FRAME AND COVER AS DETAILED ABOVE.
 - PRIVATE WATER MANHOLES COVERS SHALL BE MARKED "WATER".

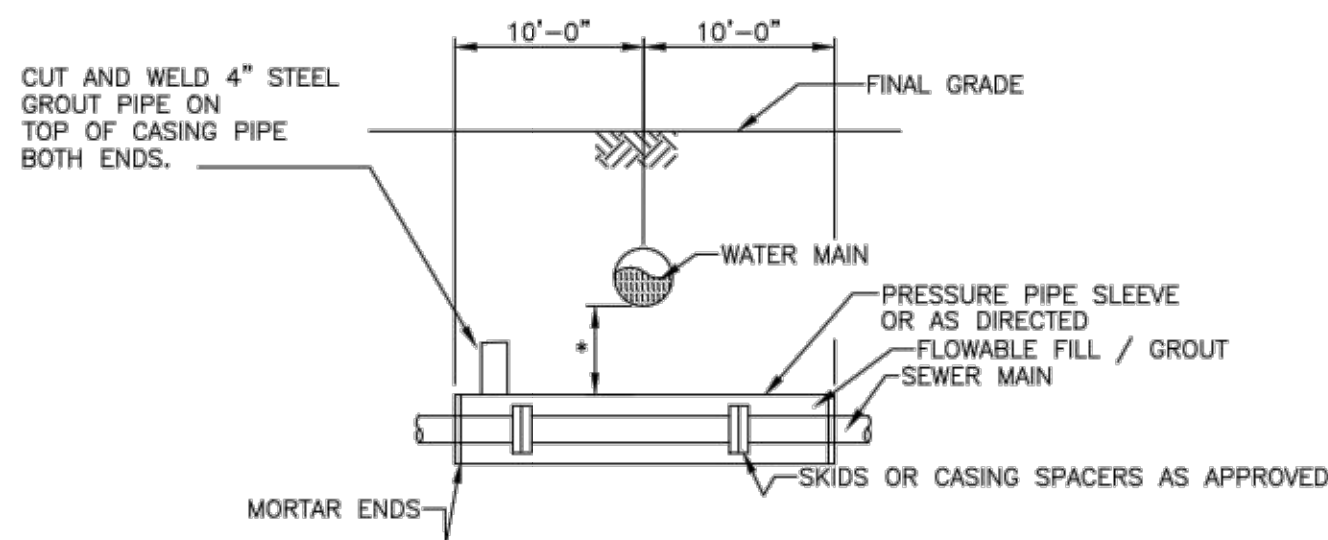


WATER MAIN DIAMETER (IN.)	MH SIZE (IN.)	MH SHAPE	MIN. WALL THICKNESS (IN.)	A (IN.)	B (IN.)	C (IN.)	D (IN.)	E (IN.)	F (IN.)
16	60	CIRCULAR	6	16	14.5	3	11	15.5	17
20	72	SQUARE	8	19	17	3.5	13.5	19	23
24	72	SQUARE	8	21.5	18.5	4	10.5	17.5	23
30	78	SQUARE	8	25	24.5	4	10	14.5	26
36	90	SQUARE	8	29	28	4	12	17	32

BUTTERFLY VALVE MANHOLE SCHEDULE

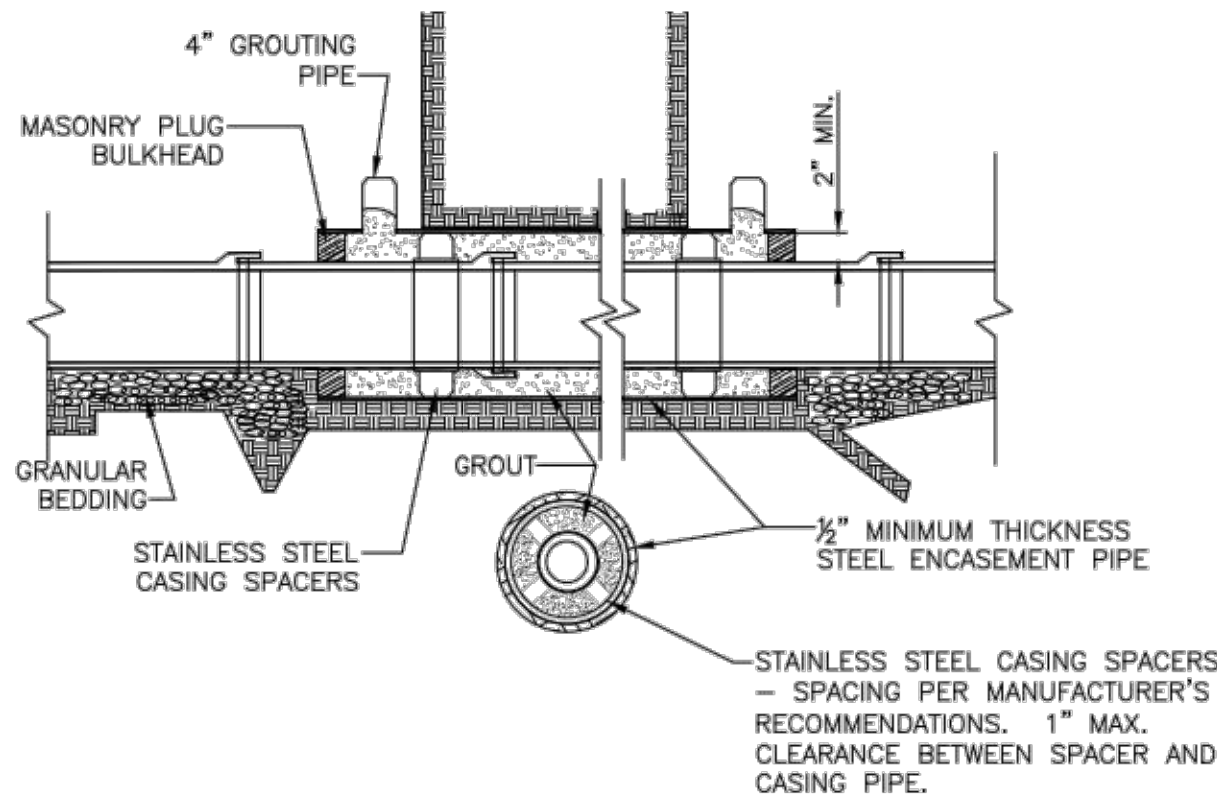
BUTTERFLY VALVE IN MANHOLE
FOR 16" WATER MAINS AND LARGER

- NOTES:
- VALVES WITH THE OPERATING NUT GREATER THAN 7- FEET BELOW GRADE SHALL BE PROVIDED WITH A VALVE STEM EXTENSION AND STEM GUIDES.



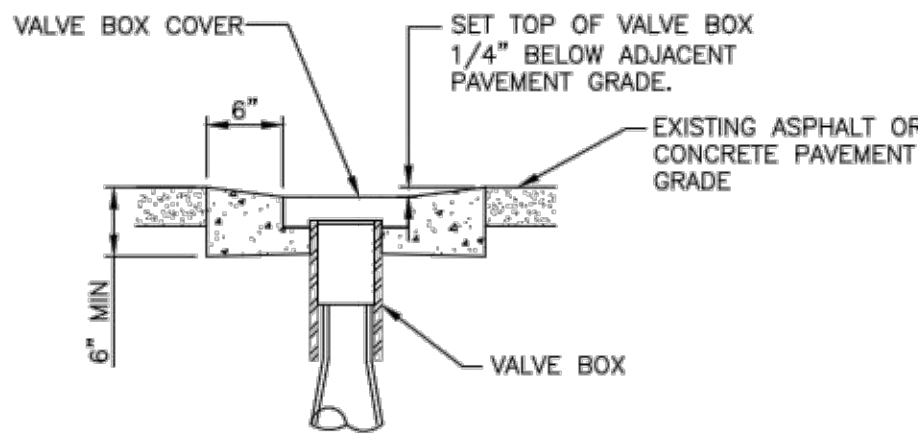
ENCASEMENT DETAIL
NOT TO SCALE

- NOTES:
- WHERE "X" IS LESS THAN 18" A PRESSURE PIPE SLEEVE ON THE SEWER LINE IS REQUIRED. WHEN DIVERTING THE WATER MAIN OR PROVIDING SLEEVING, ONE LENGTH OF WATER PIPE IS TO BE LOCATED SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
 - ALTERNATIVELY, THE SANITARY SEWER MAY BE CONSTRUCTED USING A PIPE MATERIAL EQUAL TO THE WATERMAIN BEING CROSSED.



SANITARY SEWER AND WATER LINE
BORING DETAIL
NOT TO SCALE

- NOTES:
- CASING PIPES FOR ROADWAY AND RAILROAD BORES SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE RAILROAD AND OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND DETAILS.
 - BANDED WOOD BLOCKS MAY BE USED IN LIEU OF STAINLESS STEEL CASING SPACERS AS APPROVED BY THE DISTRICT.



VALVE BOX CONCRETE
COLLAR DETAIL
NOT TO SCALE

- NOTES:
- CONCRETE COLLARS SHALL BE A MINIMUM OF 6" THICK, BUT MATCH EXISTING PAVEMENT IF IT'S THICKER.



NORTHWESTERN WATER & SEWER DISTRICT
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AFTER HOURS EMERGENCY (419)-354-9001
WWW.NWWSG.ORG

WATER MAIN DETAILS
VAVLES AND MISCELLANEOUS

DRAWN BY:	CHECKED BY:
# DATE BY REVISION	
09/07/18 TB CONTENT REVISION	
10/07/18 MD VALVE BOX CONC. COLLAR DETAIL	
10/07/18 MD MANHOLE COVER DETAIL	

NWSD 4 / 5

THOMAS
PORTER
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WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43060

DRAWING NUMBER:
C8.7

DRAWING TITLE:
NWWSD NOTES AND DETAILS

TPA COMMISSION NUMBER:
20026

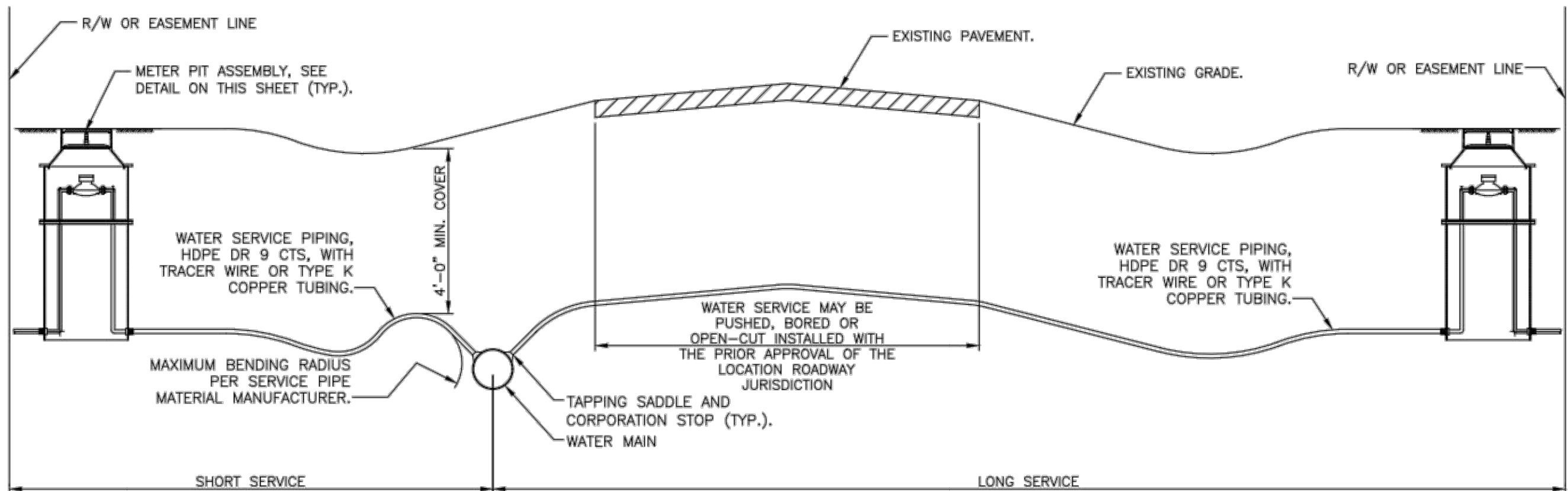
DATE
10.22.2021

ISSUE / REVISION
PERMIT & BID SET

DESIGNED: ACH
DRAWN: ACH/SJW
CHECKED: ARK

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90
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1"=30'
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1"=30'
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3/8"=1'-0"

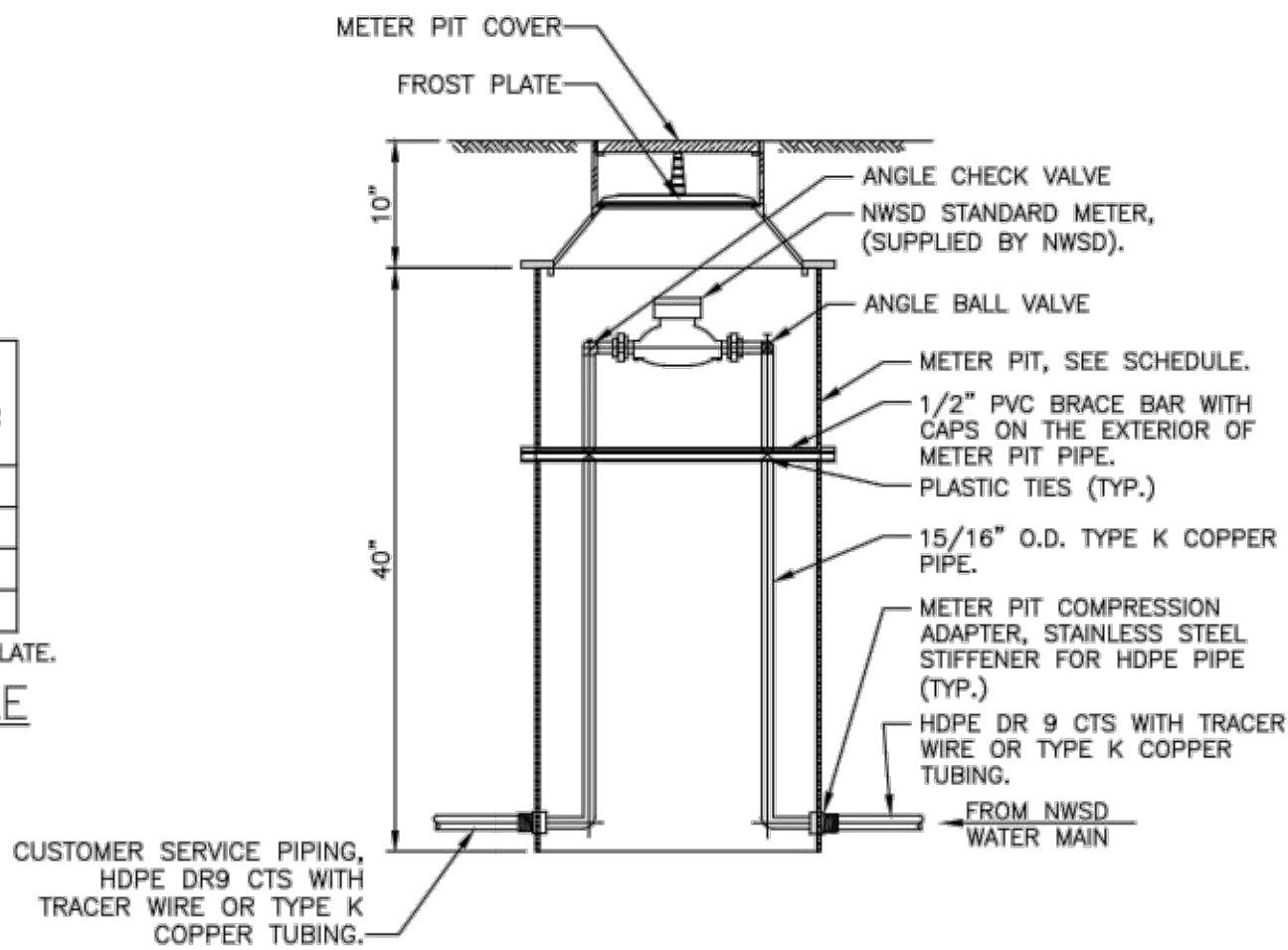


TYPICAL WATER SERVICE DETAIL
NOT TO SCALE

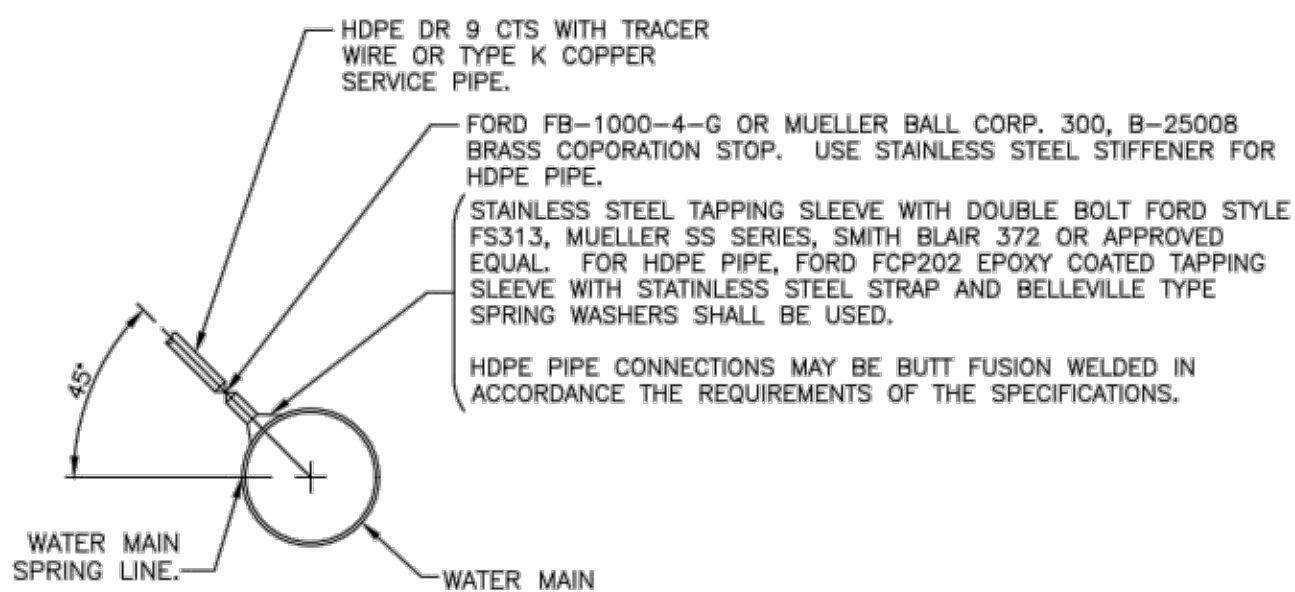
- NOTES:
- WHERE METER PITS ARE NOT APPLICABLE, A FORD MODEL COMPRESSION STYLE CURB STOP WITH A CAST IRON CURB BOX SHALL BE INSTALLED.
 - LEAD SOLDER AND FLUX THAT EXCEEDS 0.2 PERCENT LEAD CONTENT AND ANY PIPE OR PIPE FITTING THAT EXCEEDS A 0.25 PERCENT LEAD CONTENT SHALL NOT BE USED IN THE INSTALLATION OF THE PROPOSED FACILITIES.

WATER SERVICE SIZE (IN.)	METER PIT ASSEMBLY PART NO.	LID PART NUMBER
3/4	FORD PDBHC-95469-001	W3T
1	FORD PDBHC-488-20-48-FP	W3T
1 1/2	FORD PMBB-688-36HB-48	MC-36-T
2	FORD PMBB-788-36HB-48	MC-36-T

METER PIT ASSEMBLY SCHEDULE



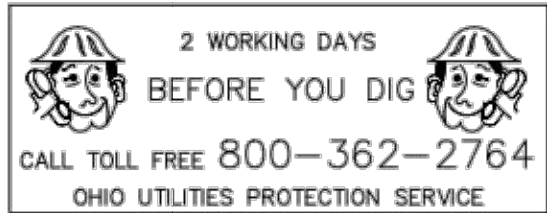
METER PIT ASSEMBLY
NOT TO SCALE



WATER MAIN SERVICE CONNECTION DETAIL
NOT TO SCALE

- NOTES:
- REPAIR ANY DAMAGE TO EXISTING POLYWRAP FOR DUCTILE IRON WATER MAINS AS REQUIRED.
 - SERVICE TRACER WIRE SHALL BE CONNECTED TO MAINLINE TRACER WIRE WITH COPPERHEAD SNAKEBITE DRYCONN 3-WAY DIRECT BURY LUG 3WB-01.

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www.nwwsd.org

WATER MAIN DETAILS
WATER SERVICE DETAILS

DRAWN BY:	CHECKED BY:
# DATE	BY REVISION
1 10/22/2021	TB CONTENT REVISION
2 11/1/2021	MD PIT ASS'Y SCHED. SERV. DET. NOTE
3 11/1/2021	MD NOTE #2 TO TYP. WATER DETAIL

TPA COMMISSION NUMBER: 20026

DRAWING TITLE:

NWWSD NOTES
AND DETAILS

DRAWING NUMBER:

THOMAS
PORTER
ARCHITECTS

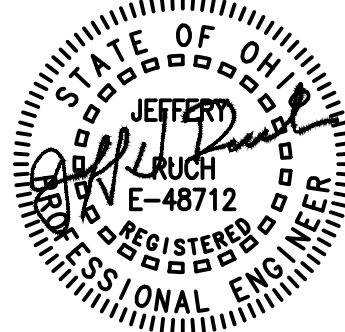
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41 ISLAND VIEW AVENUE
ROSSFORD, OH 43440

PROJECT TITLE:

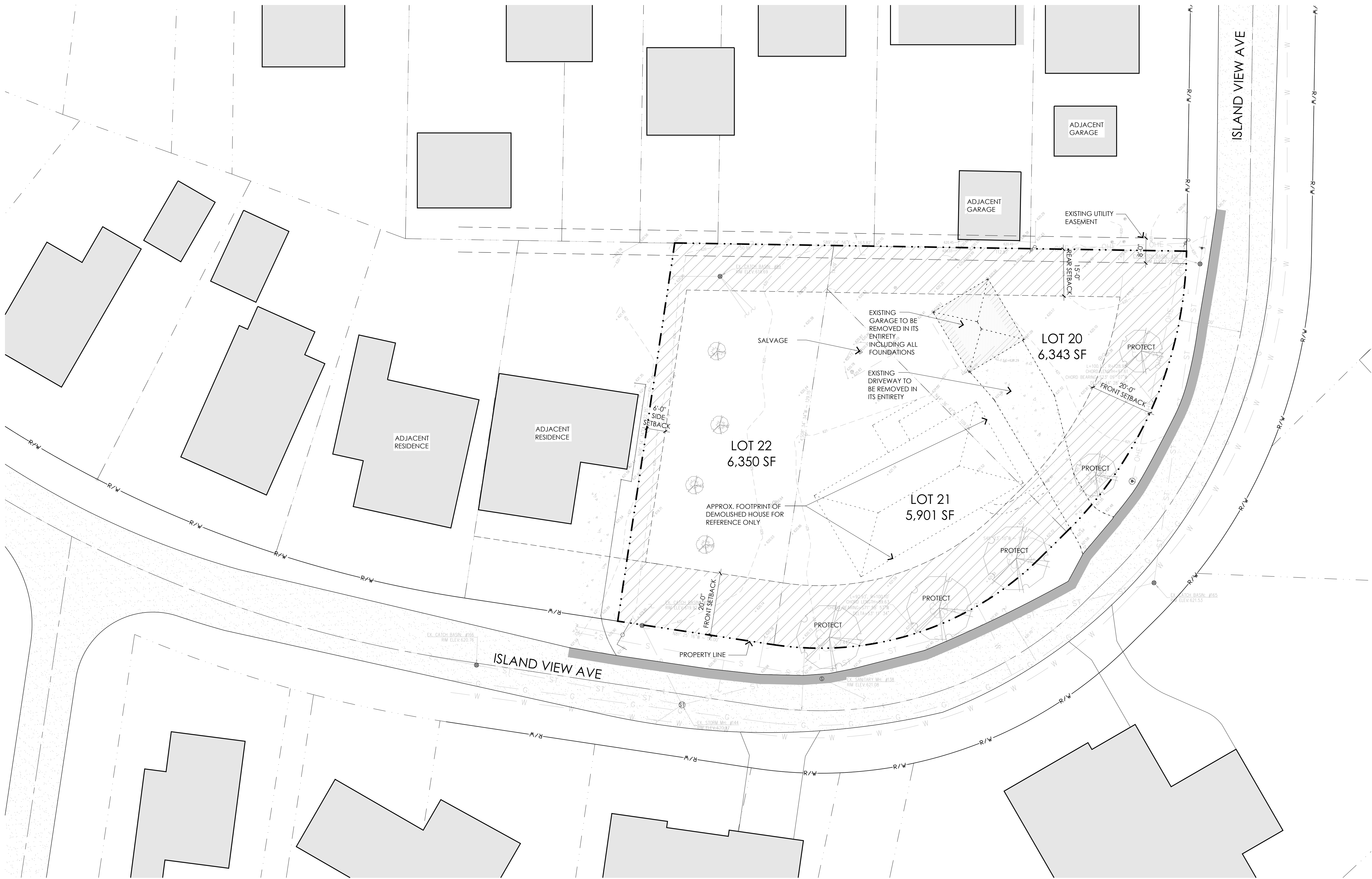
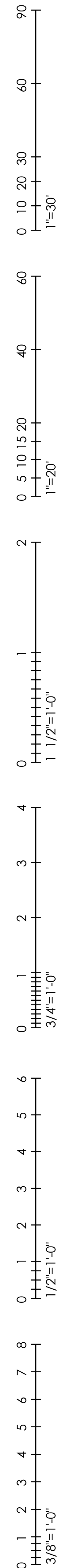
ISSUE OR REVISION:

DATE	ISSUE / REVISION
10.22.2021	PERMIT & BID SET

DESIGNED: ACH

DRAWN: ACH/SJW

CHECKED: ARK



OVERALL SITE PLAN
1" = 30'

NOTES:

- THE EXISTING GARAGE IS NOT ATTACHED SO IT IS CONSIDERED AN ACCESSORY BUILDING. AN ACCESSORY BUILDING SETBACK REQUIREMENT IS 5 FEET. THE MAX. HEIGHT OF THE ACCESSORY BUILDING SHALL BE 16 FEET.
 - VARIANCE REQUESTED OF A 1 FOOT INCREASE DUE TO REQUIREMENT FOR ADA VAN AND GARAGE DOOR HEIGHTS. FOR REFERENCE, THE HOME IS 20 FEET.
- THE SITE IS MADE UP OF (3) PARCELS, BUT HAS BEEN COMBINED INTO ONE ADDRESS PREVIOUSLY
 - TOTAL LOT AREA = 6,343 + 5,901 + 6,350 = 18,594 SF
- BUILD-ABLE AREA DUE TO SETBACKS = 10,105 SF
 - CONSIDERATIONS FOR MAX. HOUSING DENSITY AND IMPERVIOUS AREA COVERAGE MAY IMPACT TOTAL BUILD-ABLE AREA

1133.01 (b)
Setback Requirements for Corner Buildings: For any corner lot in any district, all yards with lot lines adjoining all street right-of-way lines shall conform to the requirements for the front yard setbacks in the district in which such lot is zoned. Additionally, for those yards that adjoin the side yards of a neighboring lot, a side yard setback shall be required.

1133.02 YARD, LOT COVERAGE, AND HEIGHT RESTRICTION TABLE									
DISTRICT	MINIMUM LOT AREA (SF)	MAXIMUM HOUSING DENSITY (UNITS/ACRE)	MINIMUM LOT WIDTH (FT)	YARD SETBACKS (FEET)			MAXIMUM HEIGHT (FT)	MINIMUM DWELLING AREA (SF)	BUILDING AND IMPERVIOUS AREA COVERAGE
				FRONT	REAR	SIDE (ONE SIDE EACH)			
R-1A ^a	3000	14.52	30	20 ^b	15	10% 6 ^c	35	1200	90%

Footnotes to Yard, Lot Coverage, and Height Restrictions Table

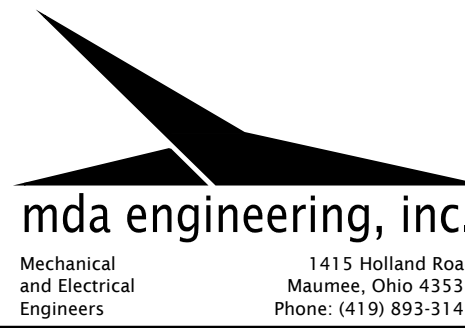
- See Section 1133.04 for accessory structures.
- No front yard depth shall be required to exceed the average of the depth of the existing front yards on the lots adjacent on each side, if each of such lots are within the same block and within three hundred (300) feet.
- The minimum side yard on each side of any building shall not be less than ten (10) percent of the lot width; however, the total side yard requirement may not be less than the standard indicated. In a zero lot-line dwelling, one (1) side yard shall not be less than ten (10) percent of the lot width.



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ROSSFORD, OH 43440

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DATE	ISSUE / REVISION

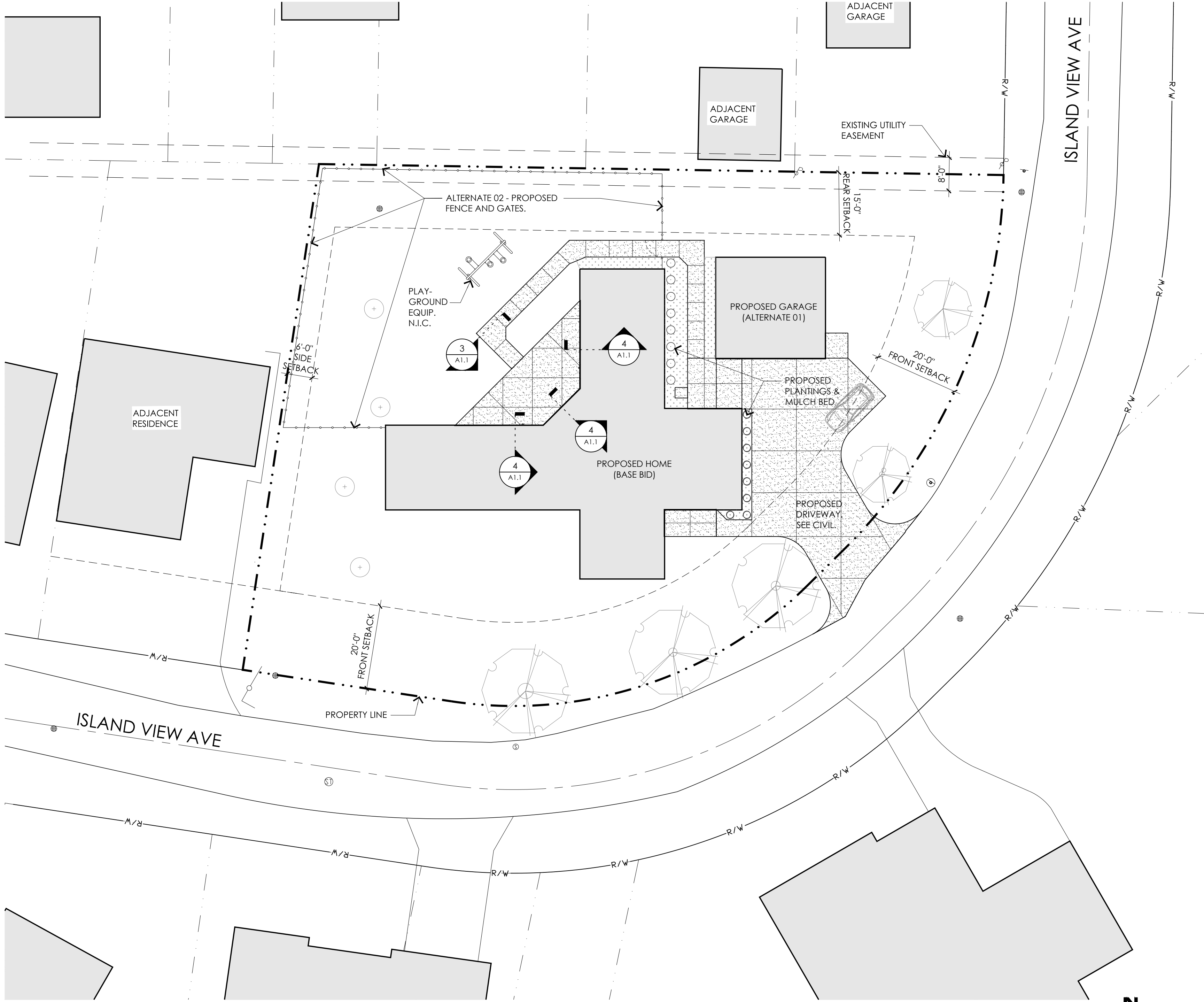
DESIGNED: ACH
DRAWN: ACH/SJW
CHECKED: ARK
TPA COMMISSION NUMBER: 20026
DRAWING TITLE:

EXISTING
CONDITIONS/
SITE DEMO PLAN

DRAWING NUMBER:

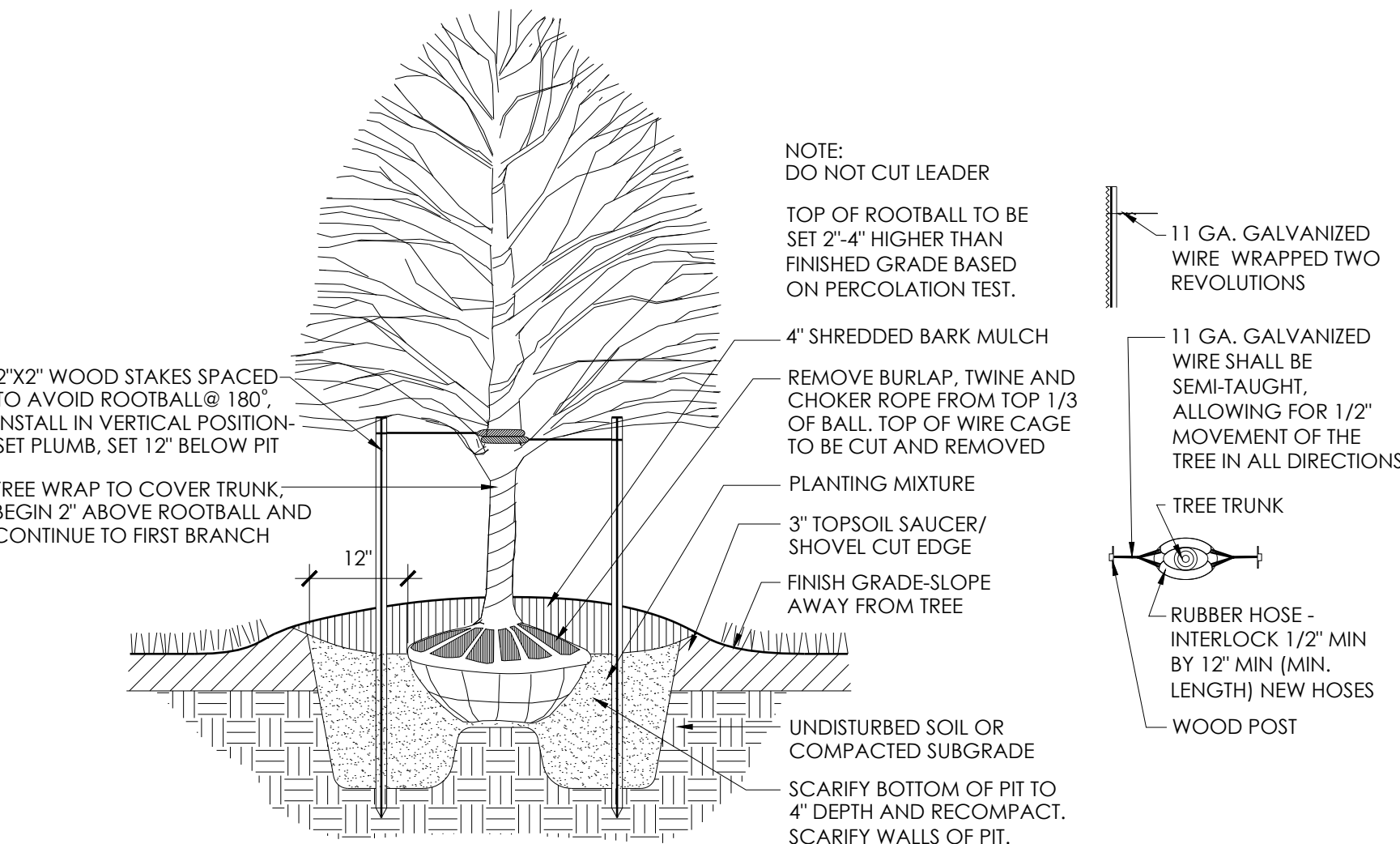
A1.0

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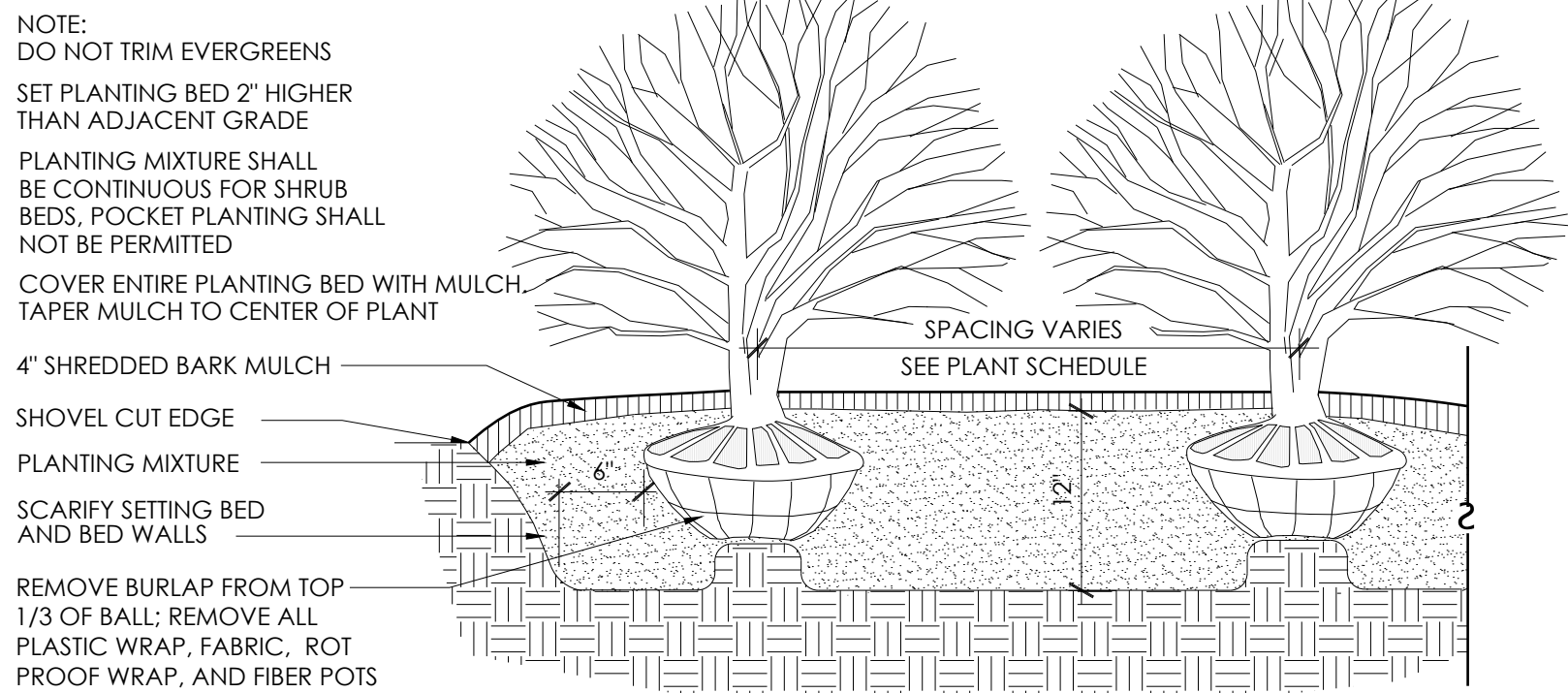


ARCHITECTURAL SITE PLAN/LANDSCAPING

SCALE: 1/16" = 1'-0"



1 DECIDUOUS TREE PLANTING
A1.1 NOT TO SCALE



2 SHRUB DETAILS
A1.1 NOT TO SCALE

GENERAL / SITE NOTES:

- THE LOCATION OF ALL UNDERGROUND UTILITIES IS APPROXIMATE. THE EXACT LOCATION OF ANY UNDERGROUND UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS, 1-800-362-2764) AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK. NON-MEMBERS MUST BE CALLED DIRECTLY.
- EACH CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IF A DISCREPANCY IS FOUND BETWEEN THE DIMENSIONS GIVEN AND ACTUAL DIMENSIONS IN THE FIELD.
- ALL LAYOUT TO BE BY A REGISTERED SURVEYOR OR ENGINEER. THE OWNER'S REPRESENTATIVE WILL REVIEW THE LAYOUT FOR GENERAL CONFORMANCE PRIOR TO CONSTRUCTION.
- CONTRACTOR TO COORDINATE STAGING AREA WITH OWNER REPRESENTATIVE PRIOR TO MOBILIZING.
- ALL DEMOLITION MATERIAL TO BE DISPOSED OF LEGALLY, OFF SITE, UNLESS SPECIFICALLY NOTED OTHERWISE.
- CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS AT LIMITS OF CONSTRUCTION TO ASSURE PUBLIC SAFETY DURING CONSTRUCTION.
- TOPSOIL, FINE GRADE AND SEED ALL AREAS DISTURBED BY CONSTRUCTION.
- BACKFILL WITH TOPSOIL AS REQUIRED TO BRING FINISHED GRADE FLUSH WITH GRADE ADJACENT, INSURING POSITIVE DRAINAGE OVER ALL SURFACES.
- CONFIRM ALL EXISTING & PROPOSED GRADES PRIOR TO ANY CONSTRUCTION.
- ALL PROPOSED GRADES ARE TO MEET AND BLEND WITH EXISTING GRADES AT LIMIT OF WORK.
- COORDINATE WITH OWNER ALL EXCESS CUT MATERIAL TO BE REMOVED FOR DESIRED LOCATION.

LANDSCAPE NOTES:

ALL PLANTING BEDS SHALL BE WEED FREE PRIOR TO PLANTING INSTALLATION.

REMOVE ALL PLANTING AND LANDSCAPE DEBRIS FROM THE PROJECT SITE. SWEEP CLEAN ALL PAVED / FINISHED SURFACES.

PROVIDE NEW PLANT MATERIAL PER SCHEDULE / DETAILS, THIS SHEET.

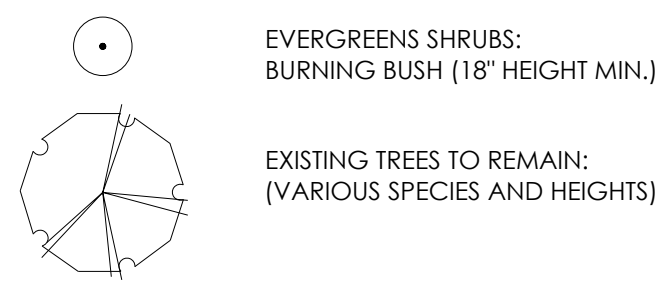
SEE SHEET A1.0 FOR BALANCE SITE PLAN INFORMATION.

NOTIFY ARCHITECT IMMEDIATELY IF SPECIFIED PLANTINGS ARE UNAVAILABLE, FOR APPROVED SUBSTITUTIONS.

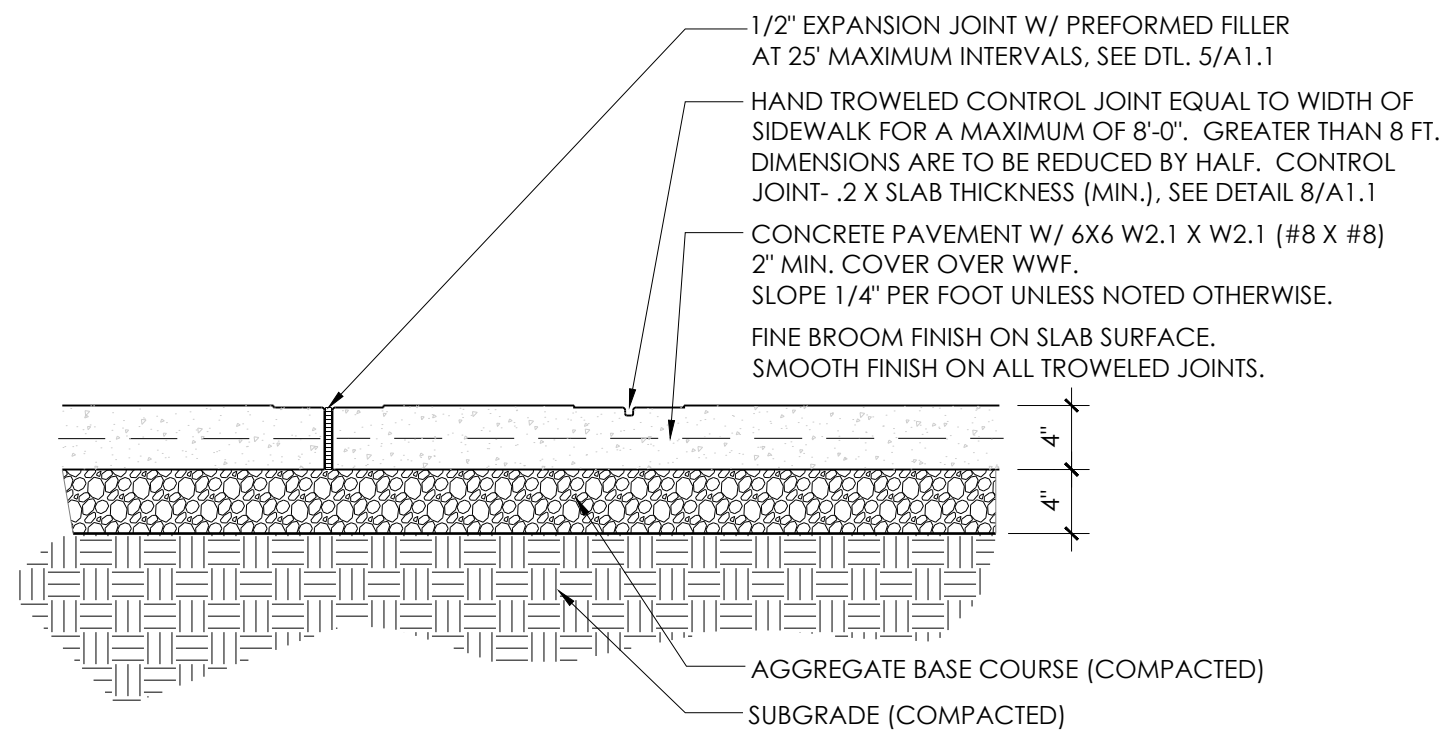
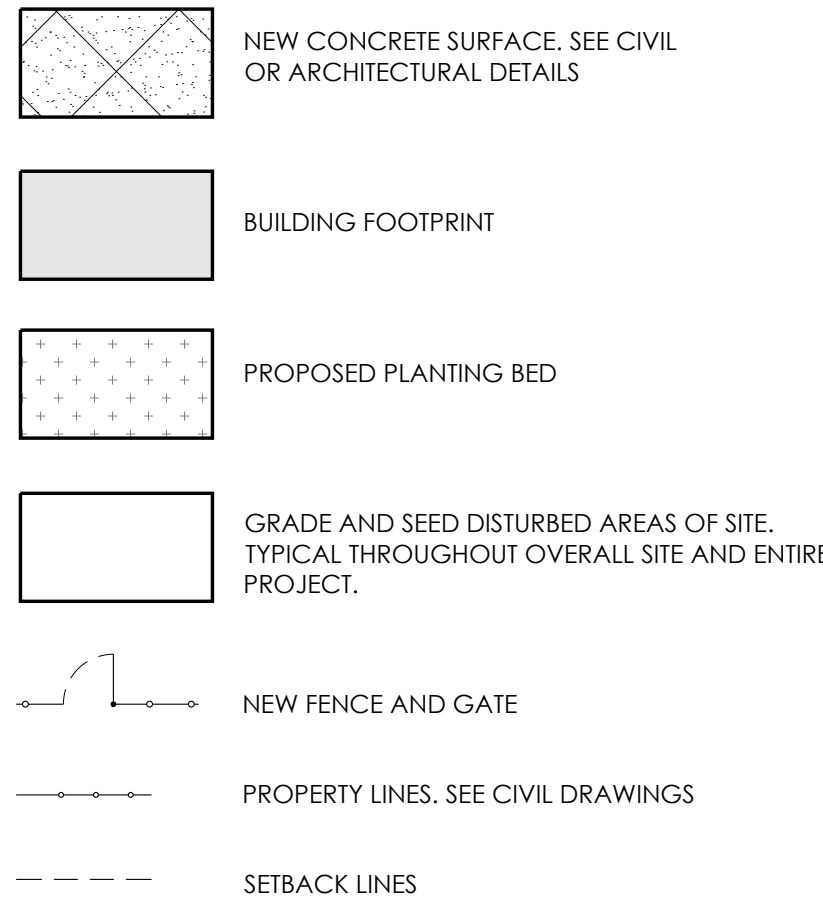
ALL SHRUB MASSES TO BE INCORPORATED BY CONT. MULCH BED TO LIMITS SHOWN & AS SPECIFIED.

ALL EXISTING PLANTINGS (TREES AND SHRUBS) SHOWN ON THIS PLAN IS TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.

LANDSCAPE LEGEND:

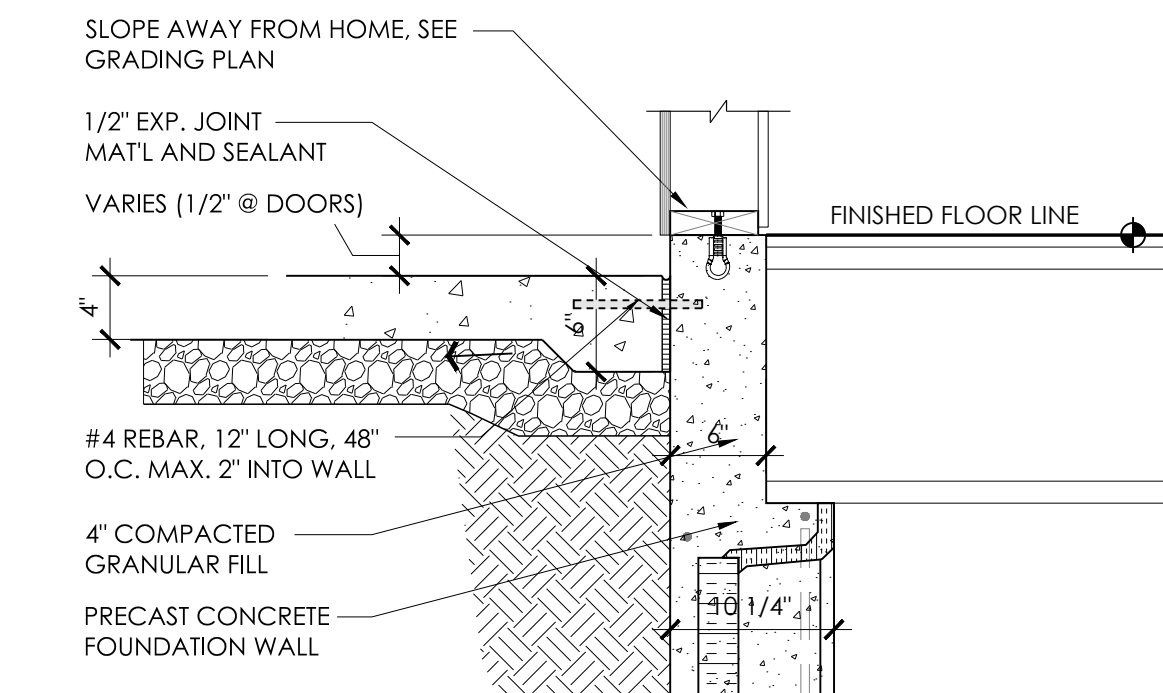


SITE PLAN LEGEND:



3 CONC. SIDEWALK DETAIL

SCALE: 1" = 1'-0"



4 PINNING @ PATIO
A1.1 SCALE: 1" = 1'-0"

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ESA
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mda engineering, inc.
Mechanical and Electrical Engineers
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41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

PROJECT TITLE:

ISSUE OR REVISION:

DESIGNED:	ACH
DRAWN:	ACH/SJW
CHECKED:	ARK
DATE	10.22.2021
ISSUE / REVISION	PERMIT & BID SET

TPA COMMISSION NUMBER: 20026

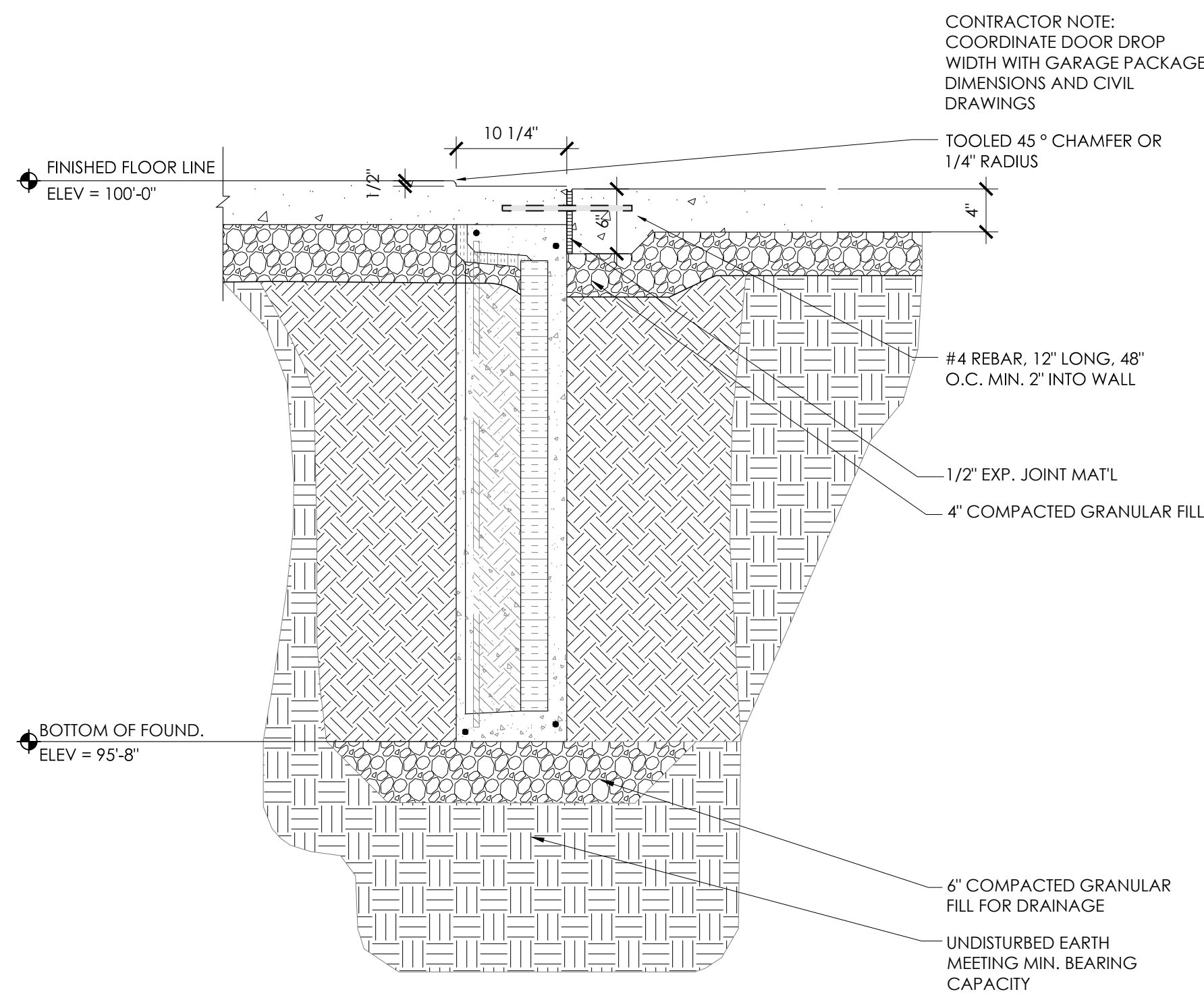
DRAWING TITLE:

ARCH. SITE
PLAN & DETAILS

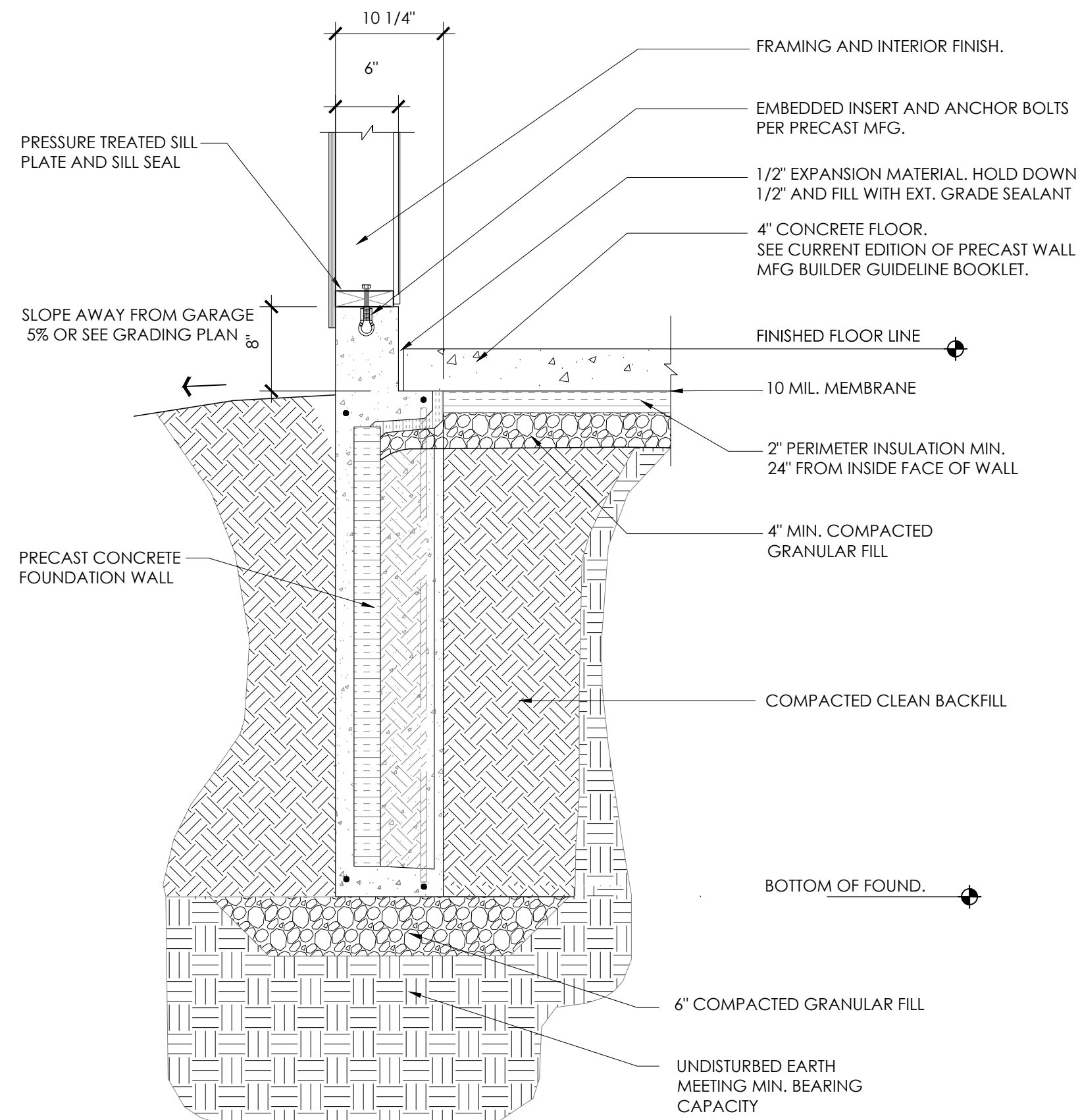
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A1.1

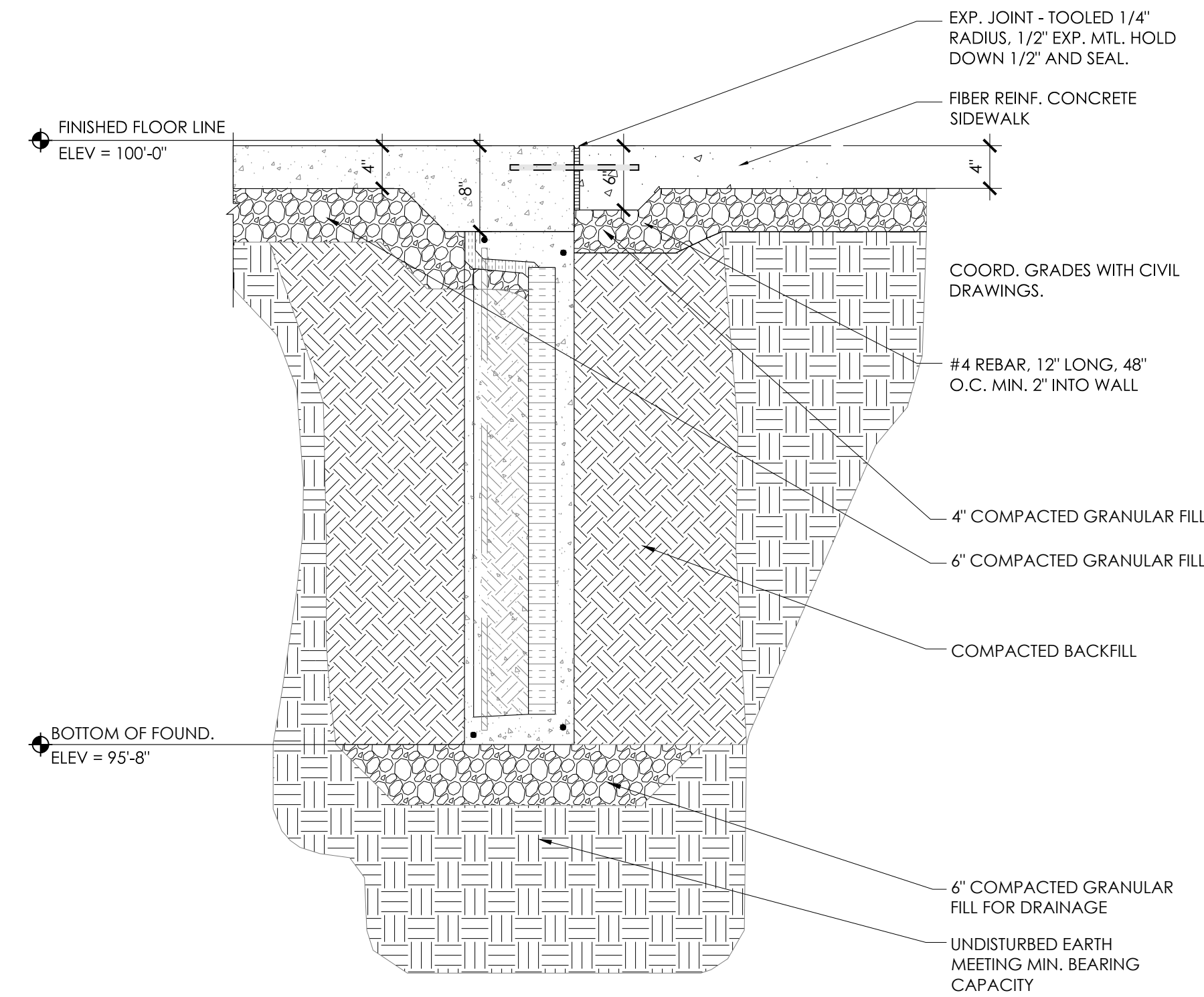
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3/8"=1'-0"



1 GARAGE DOOR DROP (ALTERNATE 01)
A2.0a SCALE: 1" = 1'-0"



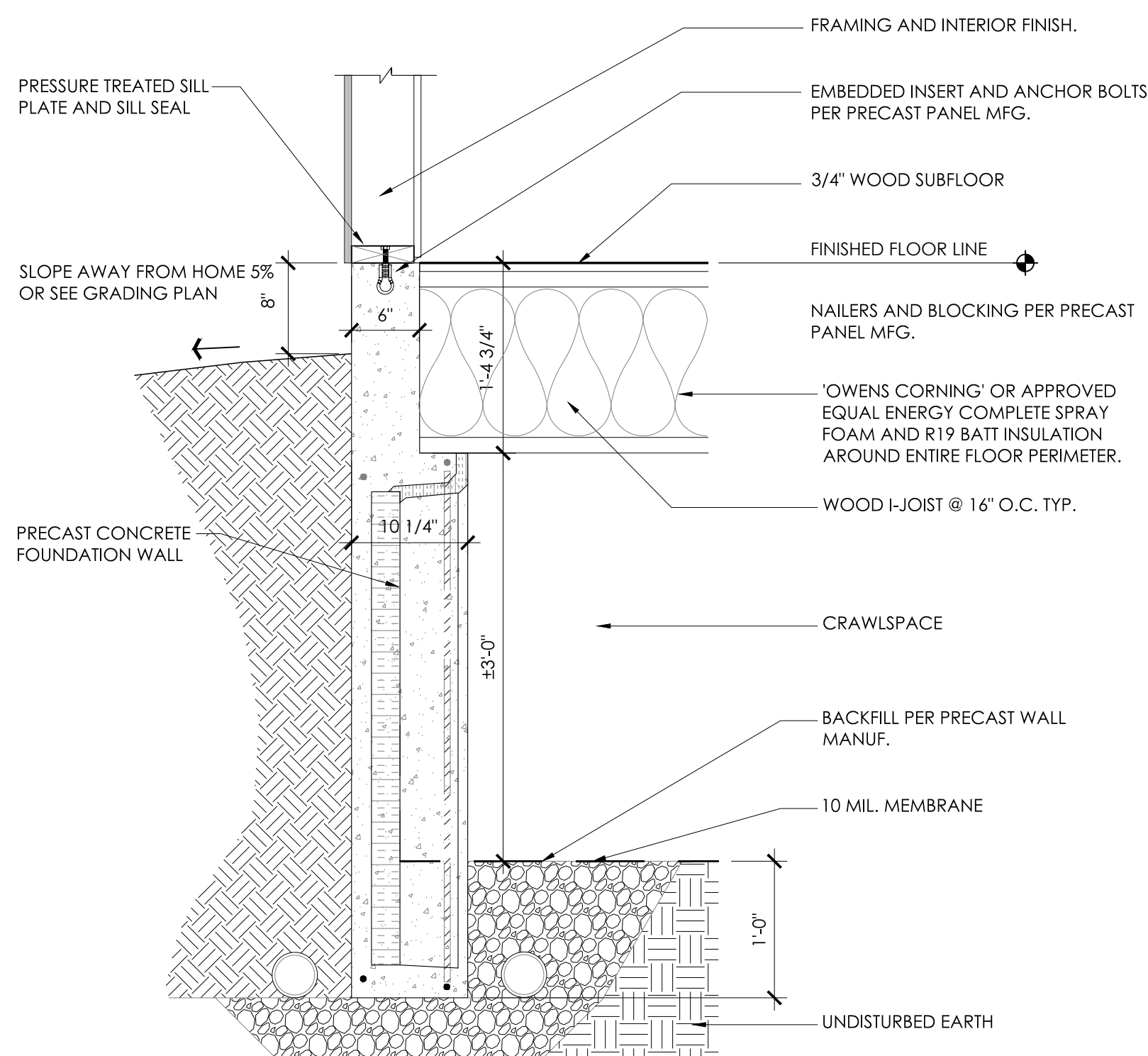
2 GARAGE FOUNDATION (ALTERNATE 01)
A2.0a SCALE: 1" = 1'-0"



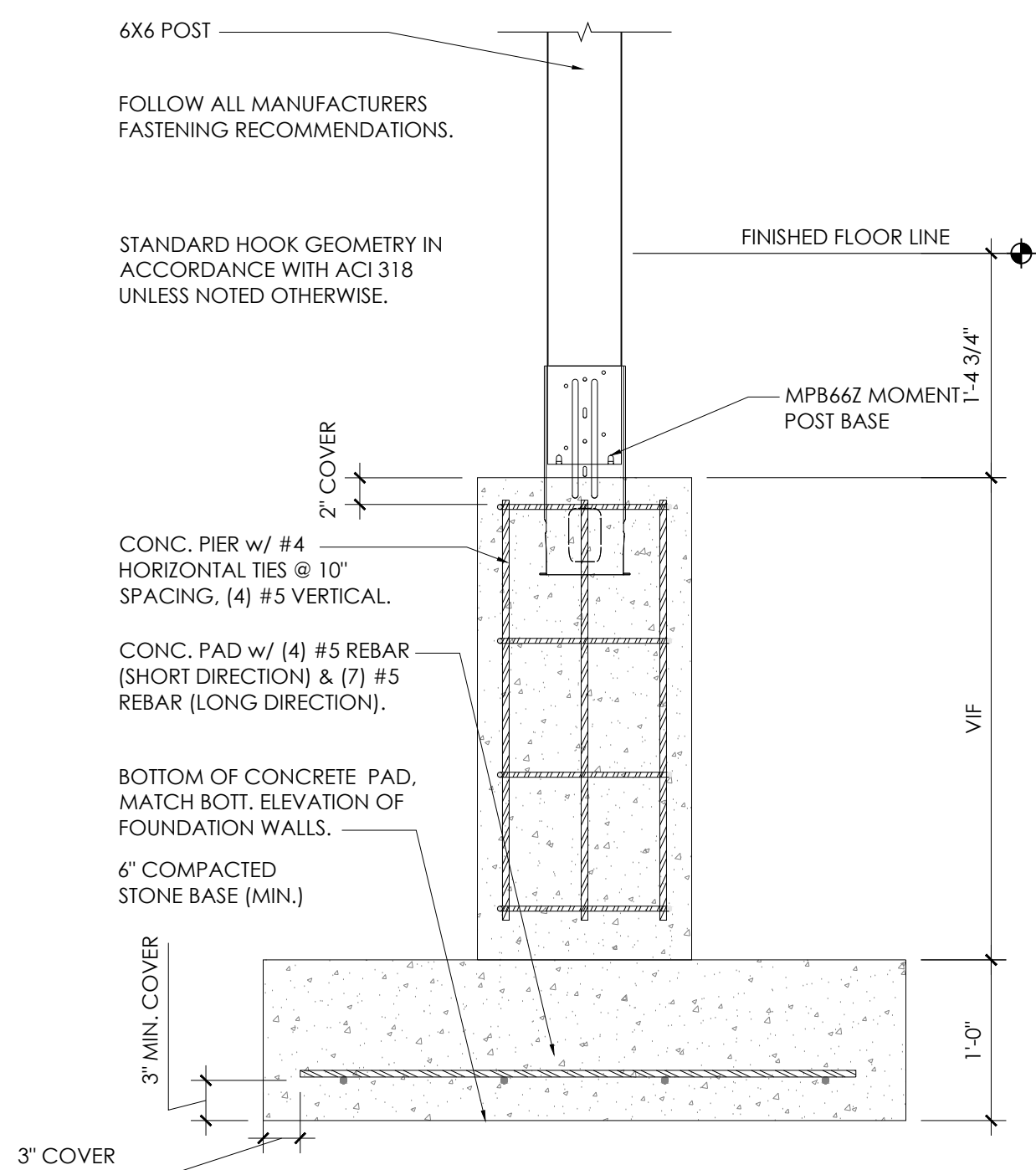
3 SUPPORTED EXT. SLAB
A2.0a SCALE: 1" = 1'-0"

FOUNDATION BASIS OF DESIGN:

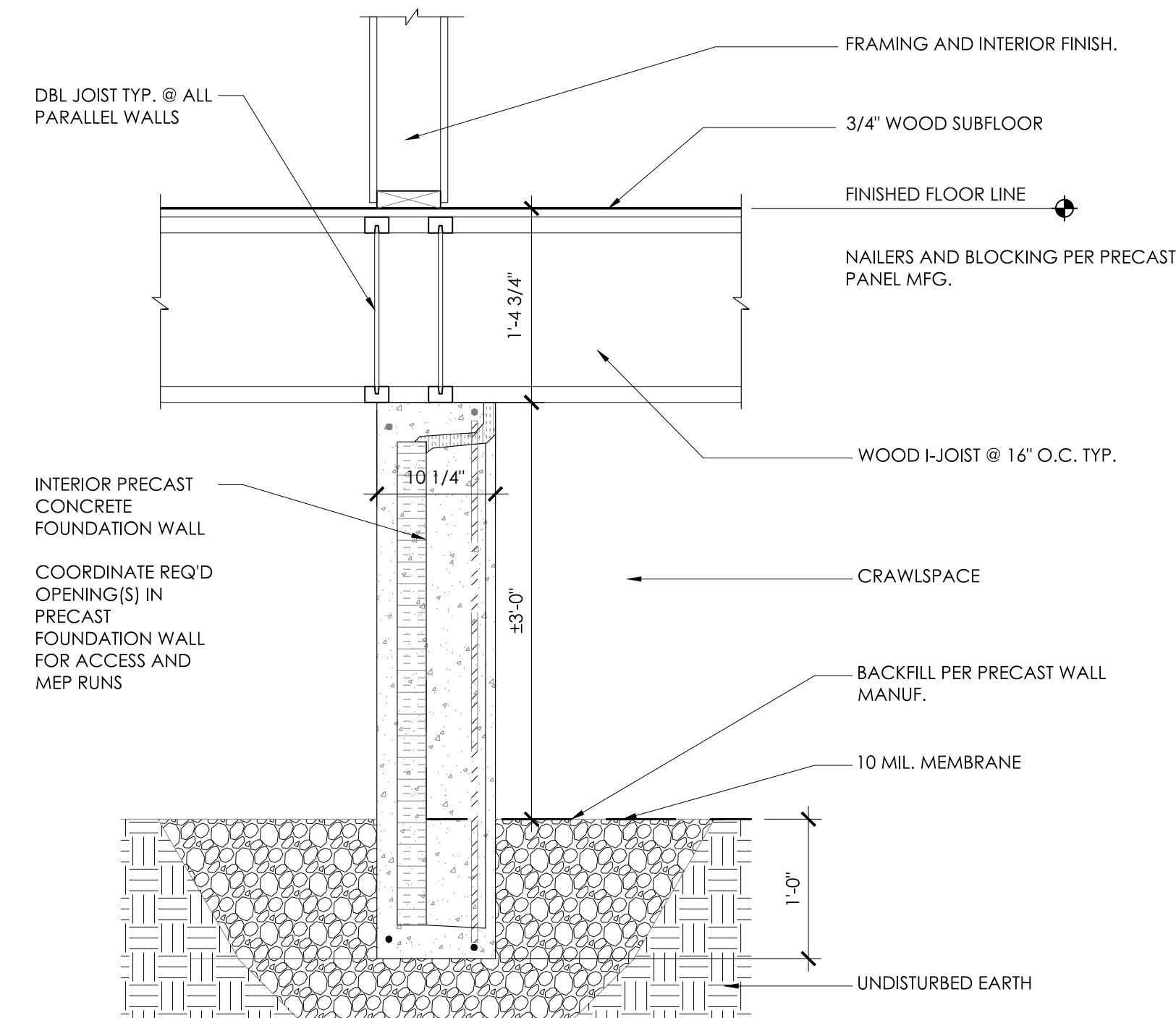
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HAMILTON, MI 49419
DOUG DAVIS
(269)-751-4101
DDAVIS@GLSWALLS.COM
XI AND UI WALL SYSTEMS



4 TYPICAL FOUNDATION WALL
A2.0a SCALE: 1" = 1'-0"



5 WOOD POST PAD & PIER
A2.0a SCALE: 1" = 1'-0"



6 TYPICAL FOUNDATION WALL
A2.0a SCALE: 1" = 1'-0"

THOMAS
PORTER
ARCHITECTS

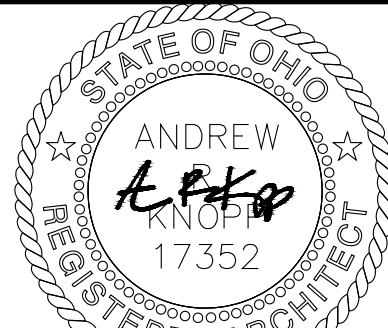
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1415 Holland Road
Maumee, Ohio 43537
Phone: (419) 893-3141

SEAL:



Andrew R. Knopp License #1817352
Expiration Date 12/31/2021
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RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

PROJECT TITLE:

ISSUE OR REVISION:

10.22.2021	PERMIT & BID SET
DATE	ISSUE / REVISION

DESIGNED:	ACH
DRAWN:	ACH/SJW
CHECKED:	ARK

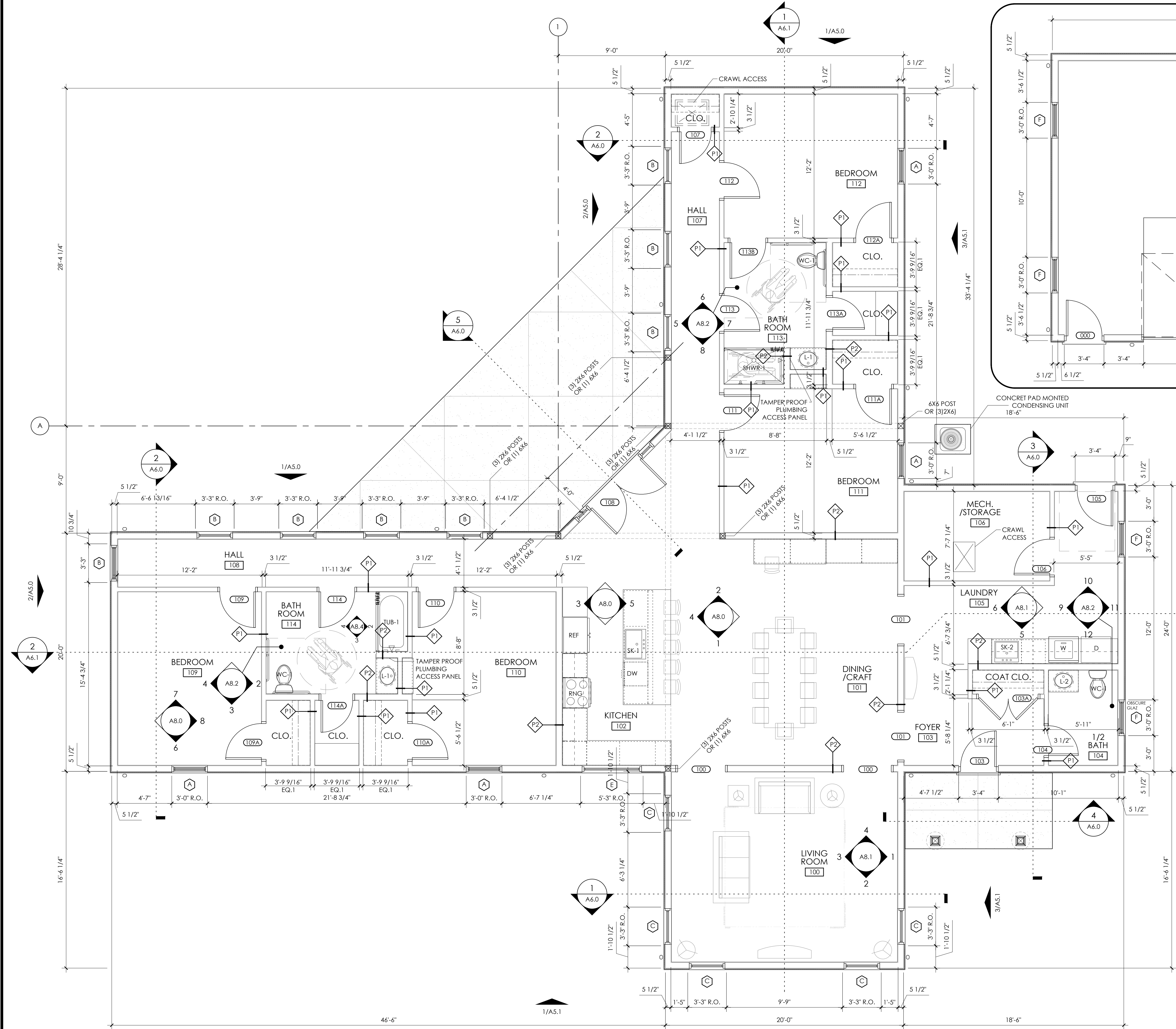
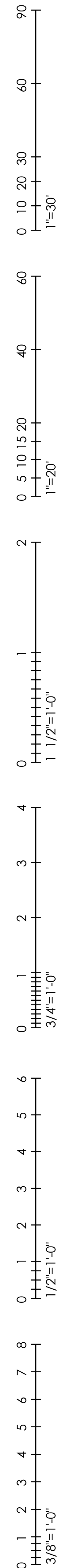
TPA COMMISSION NUMBER: 20026

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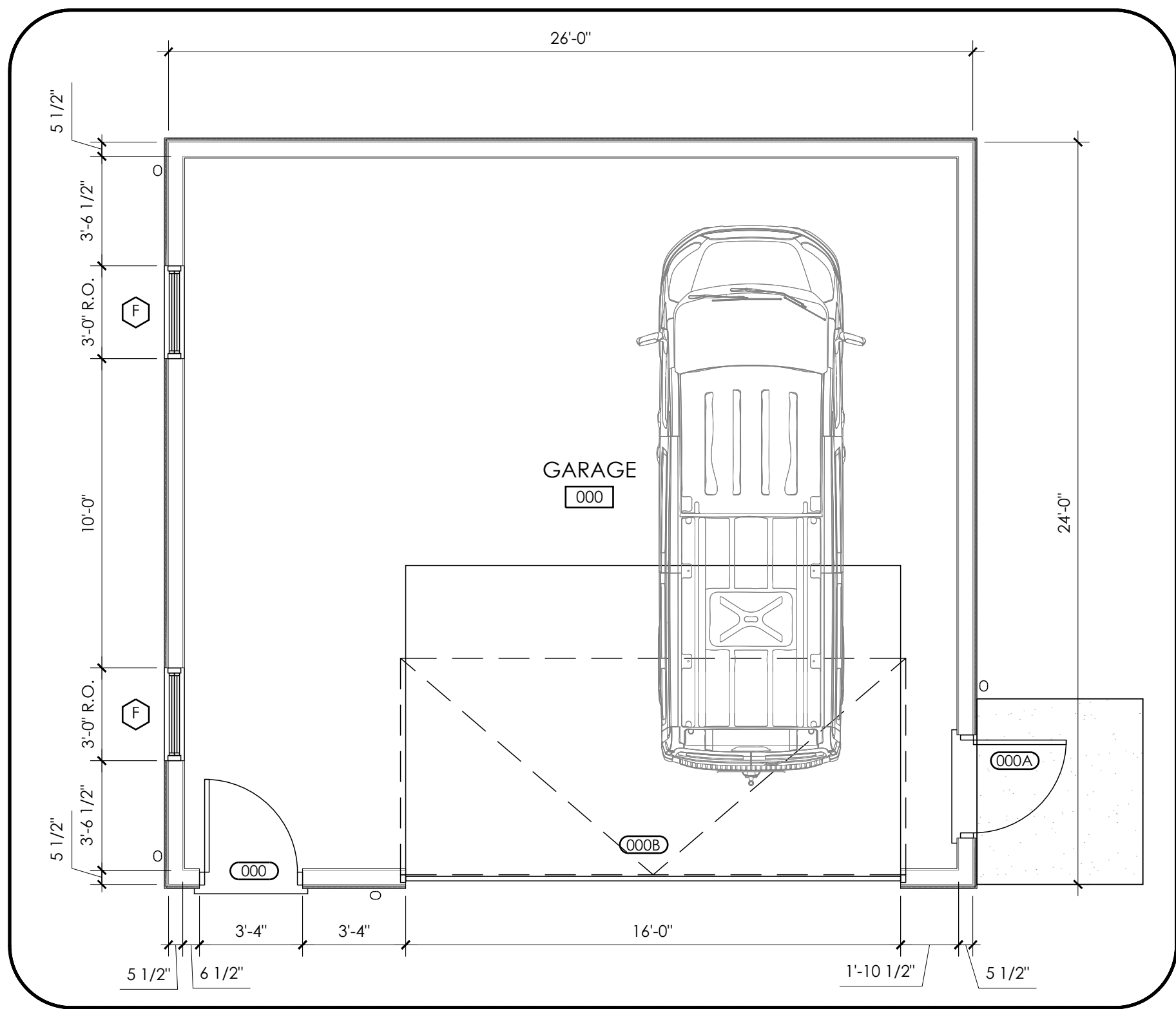
FOUNDATION
DETAILS

DRAWING NUMBER:

A2.0a



FLOOR PLAN
1/4" = 1'-0"



WALL TYPE LEGEND		
TAG #	PLAN VIEW	DESCRIPTION
P1		(1) LAYER 5/8" GYP. BD. EACH SIDE OVER 3-1/2" WOOD STUD @ 16" O.C. MR GYP. BD IN ALL BATHROOMS.
P2		(1) LAYER 5/8" GYP. BD. EACH SIDE OVER 5-1/2" WOOD STUD @ 16" O.C. MR GYP. BD IN ALL BATHROOMS.

GENERAL NOTES:

- ALL DIMENSIONS ARE TO FACE OF STUD FOR NEW WALLS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND NOTIFY OWNER AND ARCHITECT PRIOR TO START OF WORK.
- ALL WORK AND FINISHES SHALL BE NEW.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN SITE FOR THE DURATIONS OF CONSTRUCTION, NO-SMOKING ON THE PREMISES AND REMOVE CONSTRUCTION DEBRIS DAILY.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ARCHITECT REVIEW.



8 North St. Clair - Toledo, Ohio 43604-1028
1 419.243.2400
www.thomasporterarchitects.com

CONSULTANTS:

esa

Engineers, Surveyors & Associates, LLC
1225 Secor Rd., Toledo, Ohio, 43623 Phone (419) 475-9445

mda engineering, inc.

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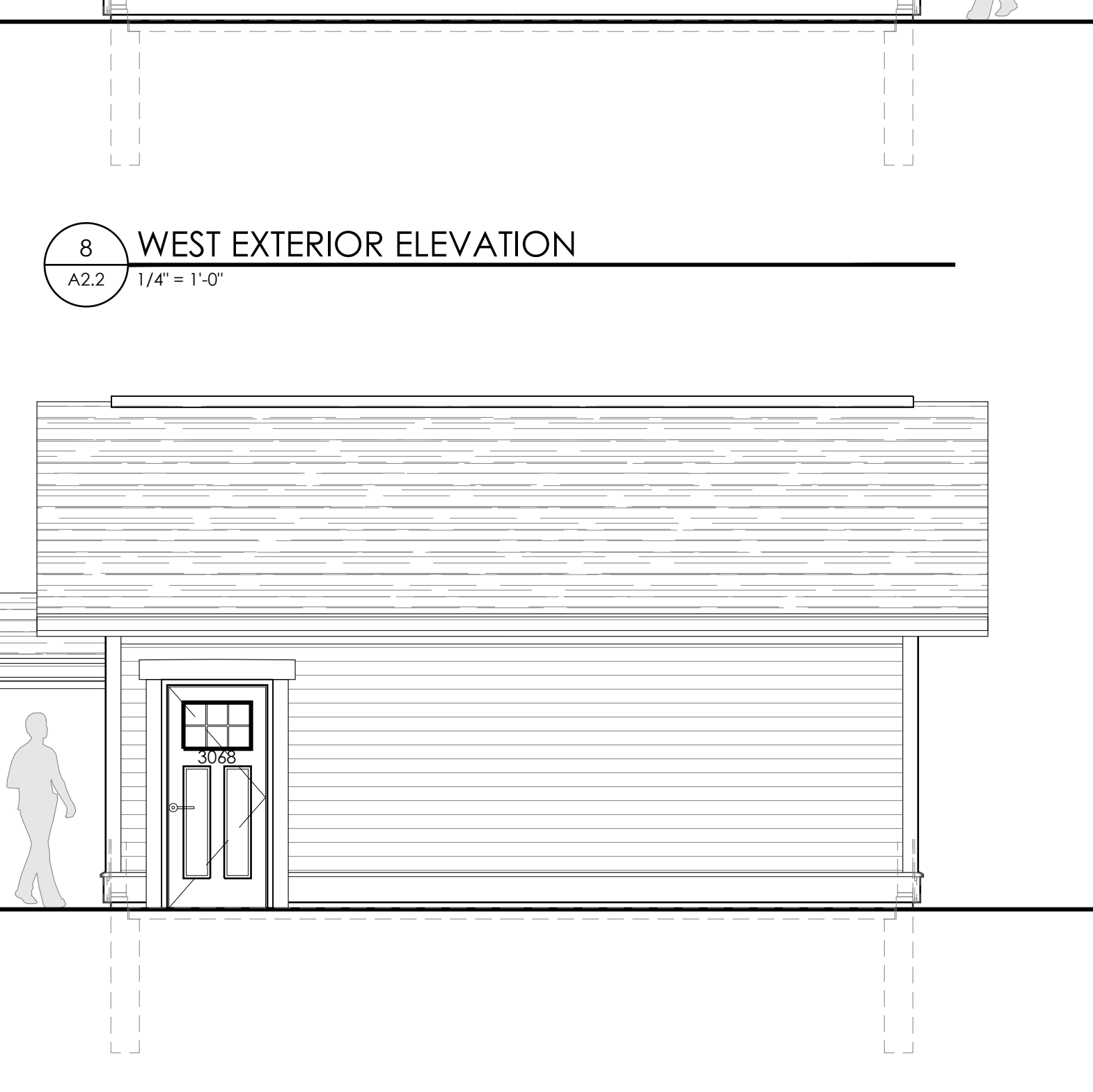
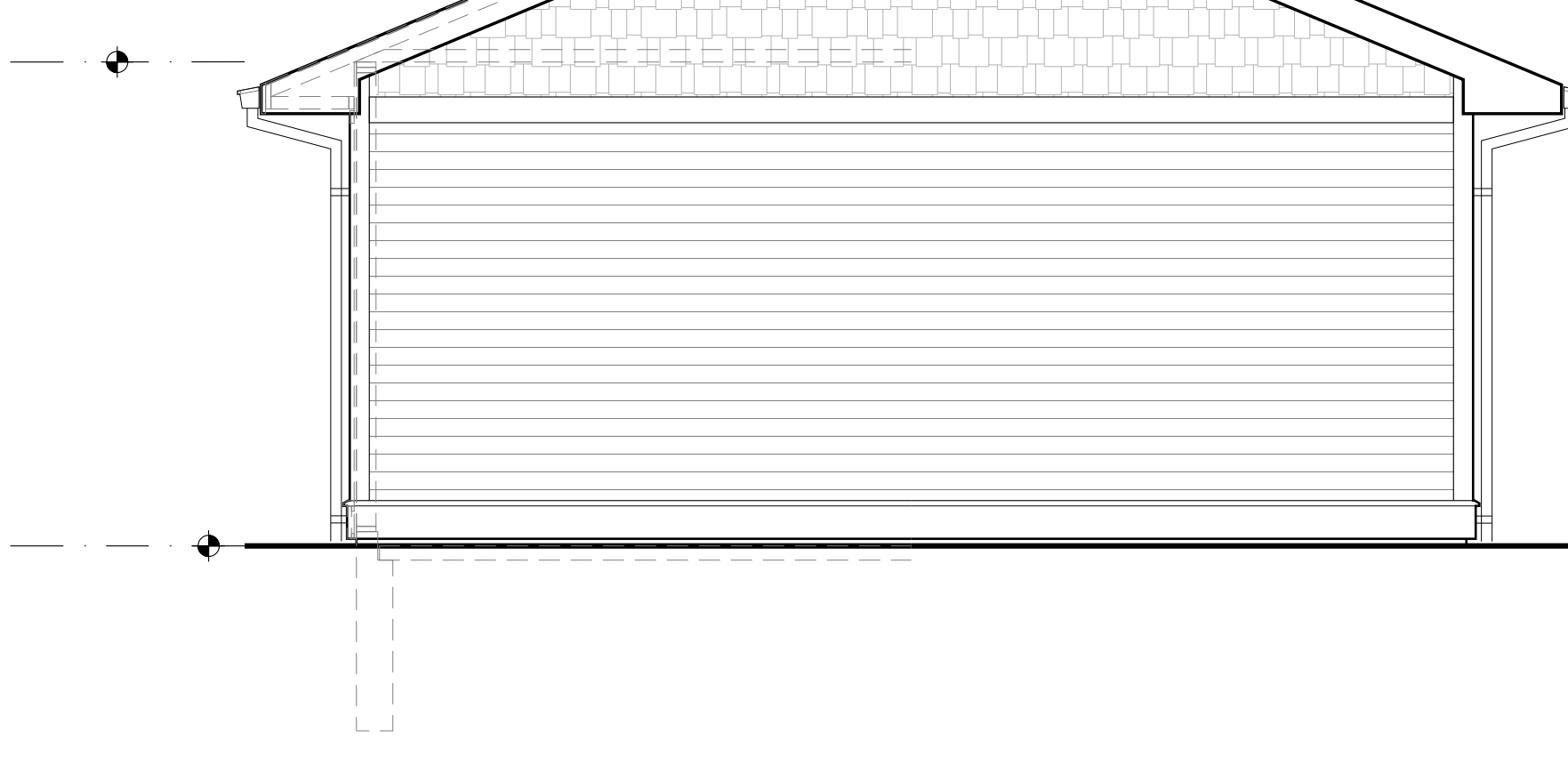
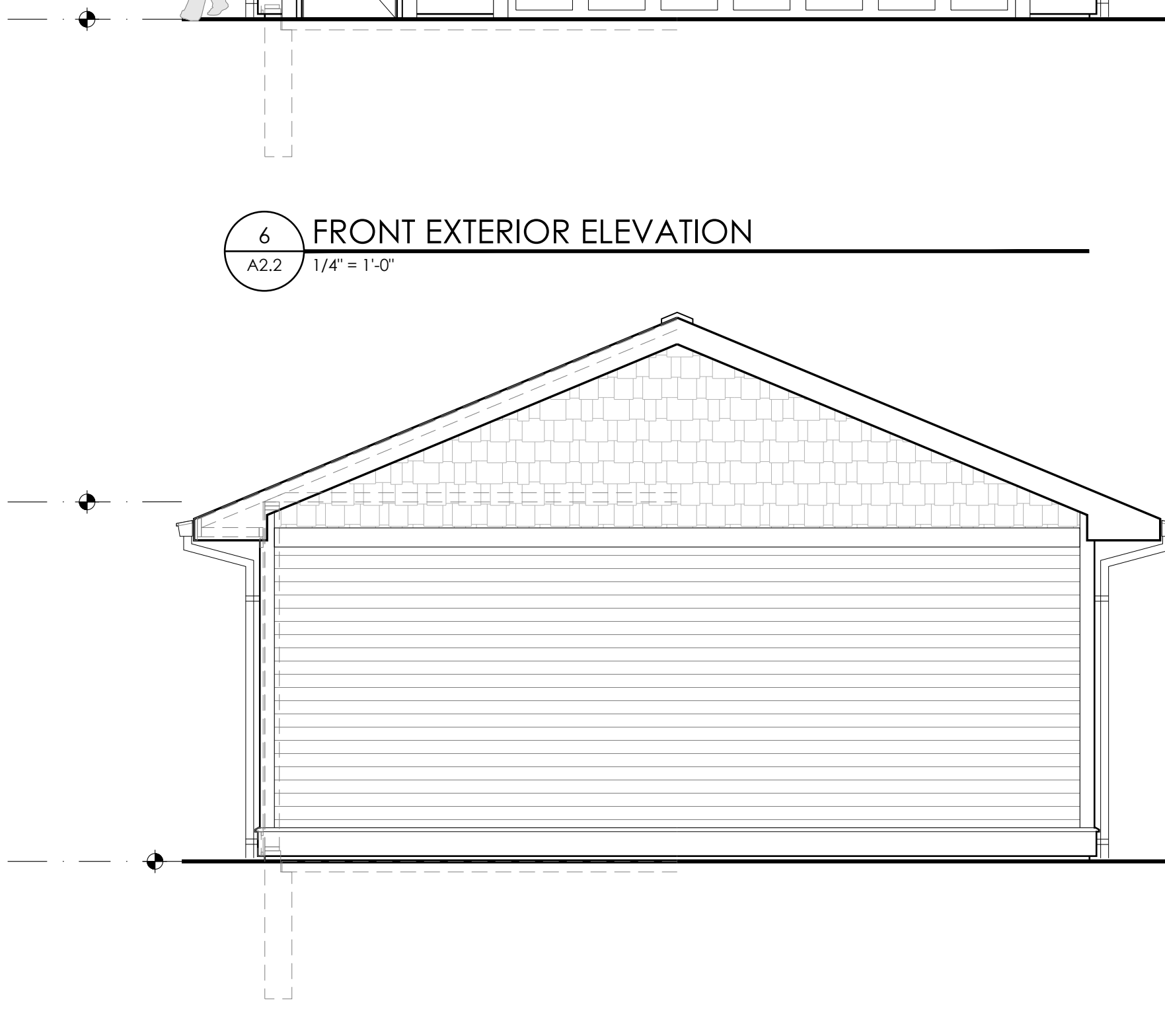
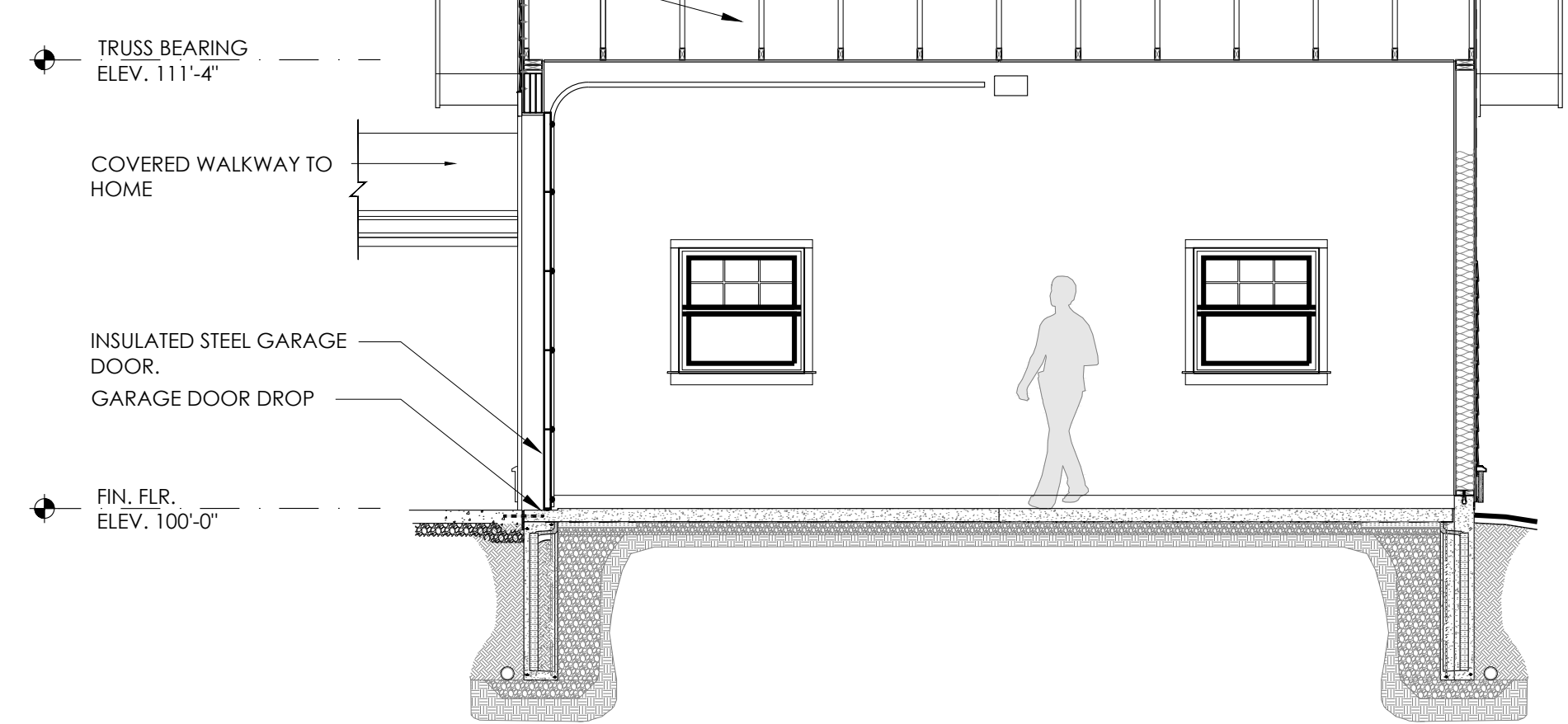
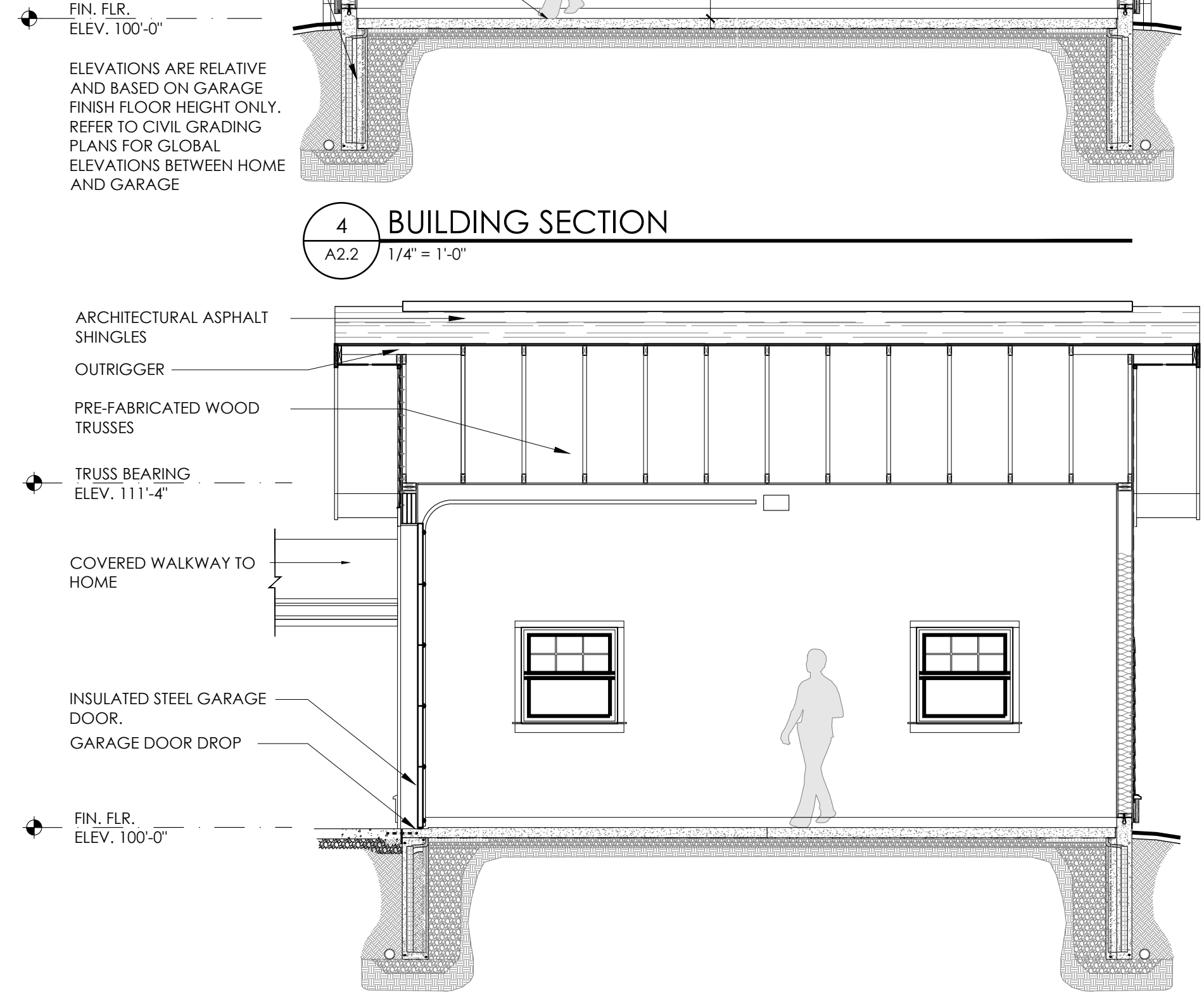
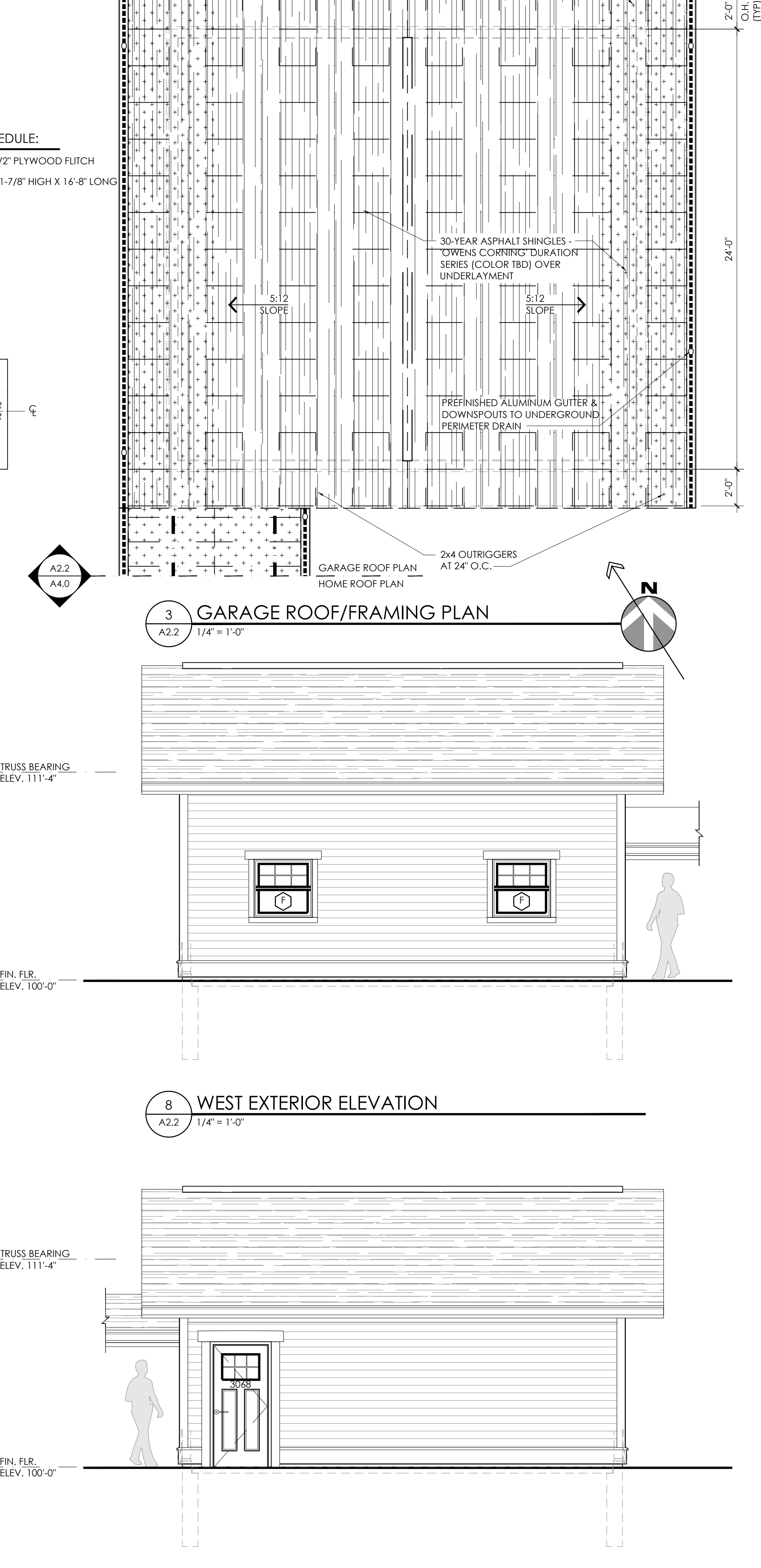
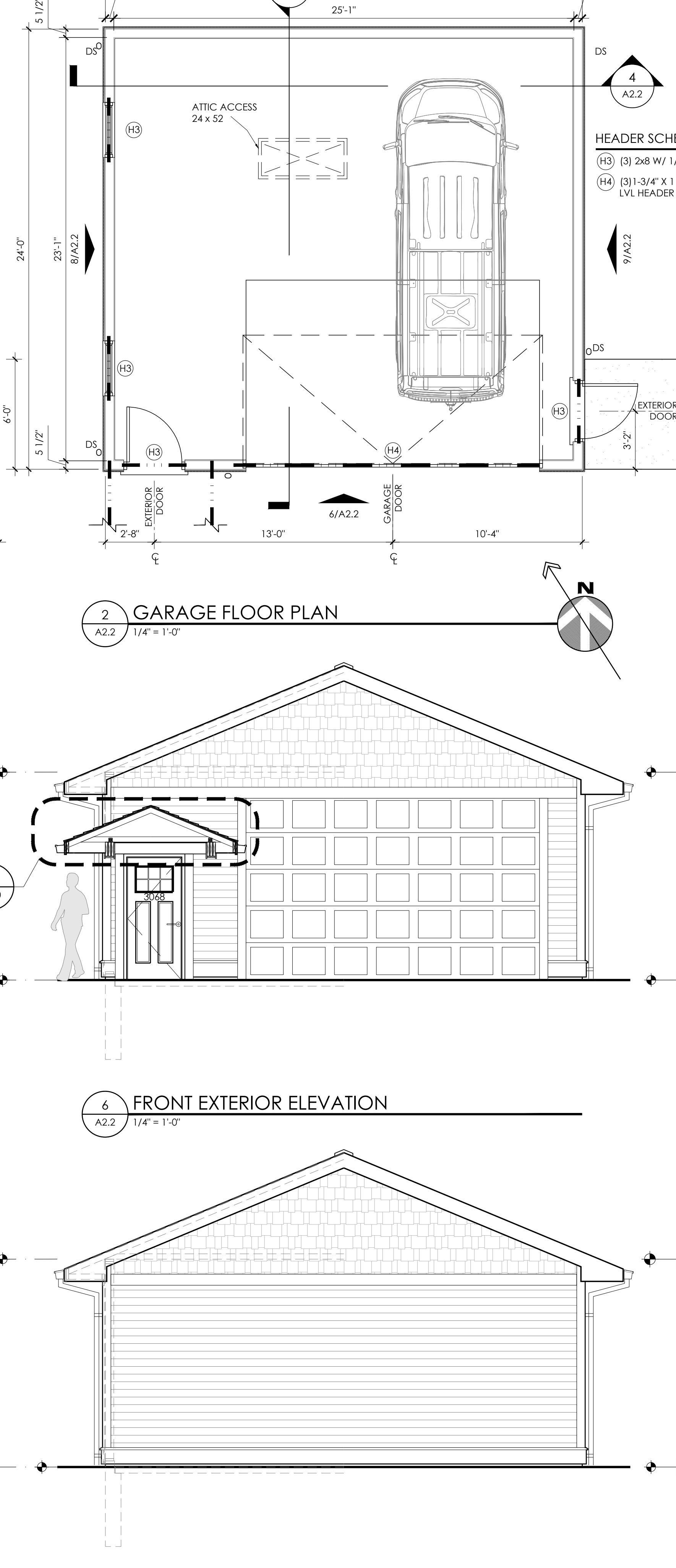
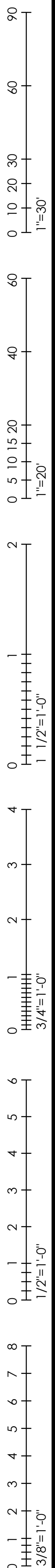
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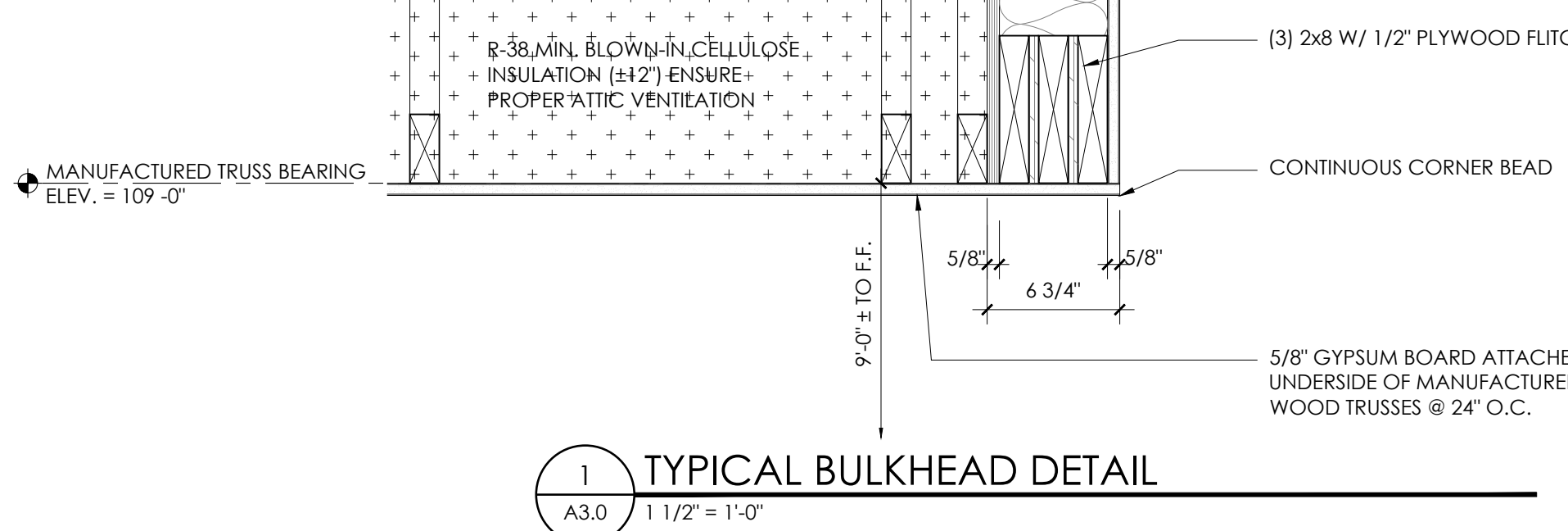
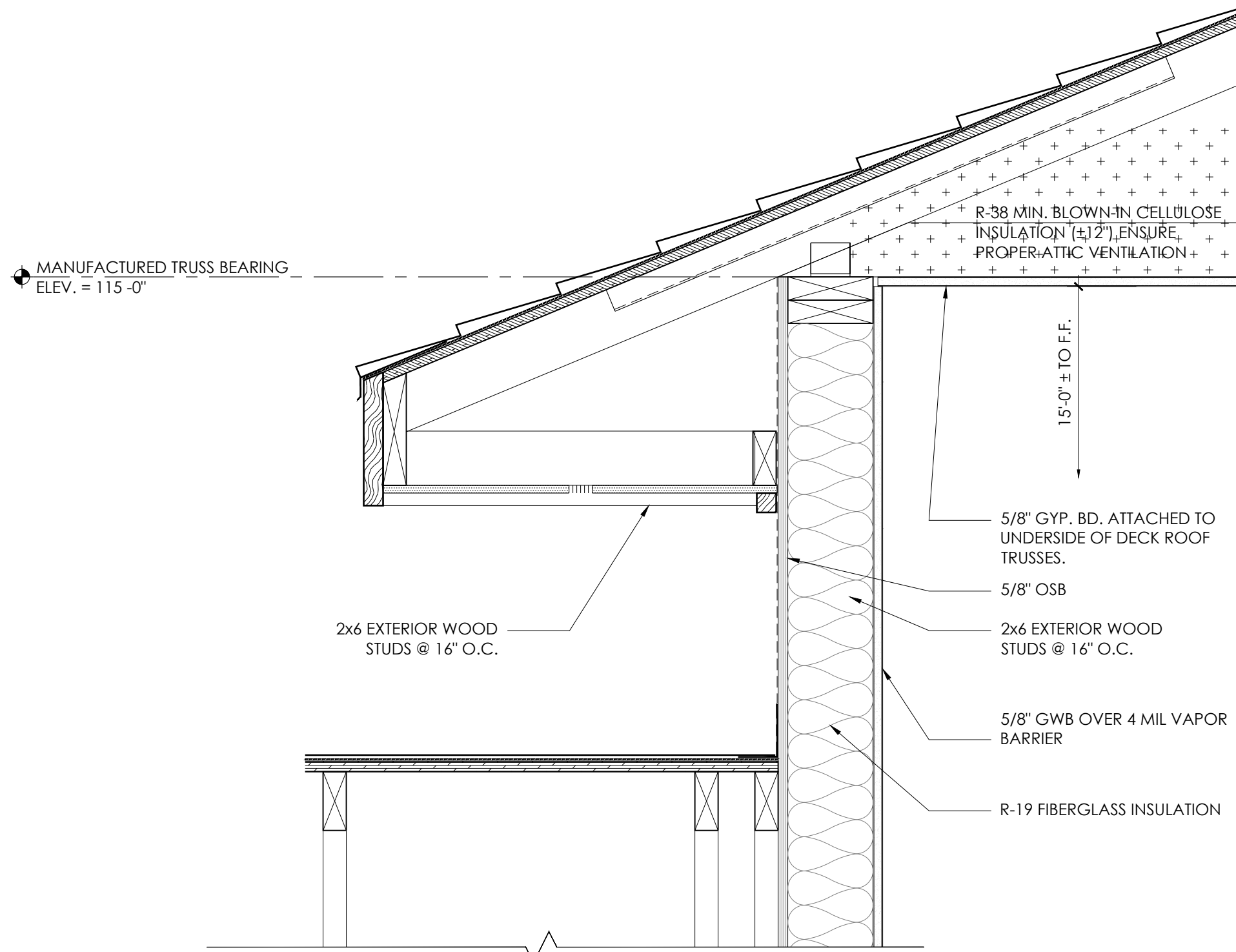
FLOOR PLAN

DRAWING NUMBER:

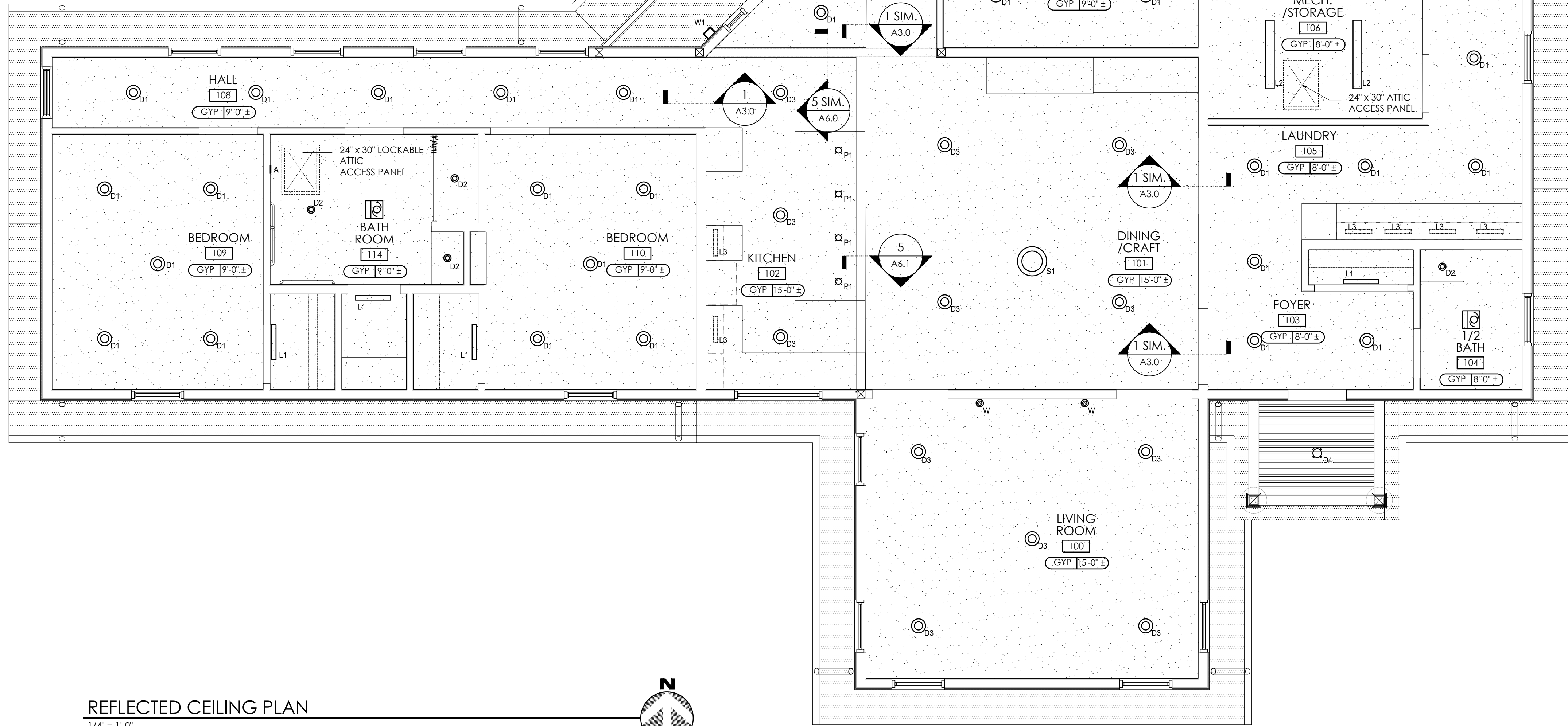
A2.1



90
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1"=30'
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1"=20'
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1"=20'
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3/4"=1'-0"
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1/2"=1'-0"
8
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1
0 1 2 3 4 5 6
3/8"=1'-0"



LIFT SYSTEM BASIS OF DESIGN:
SUREHANDS LIFT & CARE SYSTEM
GARY STOOPS, REPRESENTATIVE
982 ROUTE 1
PINE ISLAND, NY 10696
(765) 532-7453
GARYSTOOPS@GMAIL.COM



REFLECTED CEILING PLAN
1/4" = 1'-0"

CEILING NOTES:

- ALL DIMENSIONS ARE TO FACE OF STUD FOR NEW WALLS AND FACE OF DRYWALL ON EXISTING WALL. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND NOTIFY OWNER AND ARCHITECT PRIOR TO START OF WORK.
- ALL WORK AND FINISHES SHALL BE NEW.
- PROVIDE INSULATION IN ALL THE WALLS INTERIOR AND EXTERIOR AS NOTED, WITH A MIN. R-19.
- SEE A9.0 FOR DOOR & WINDOW SCHEDULES.
- SEE A11.0 FOR FINISH SCHEDULE.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN SITE FOR THE DURATIONS OF CONSTRUCTION, NO-SMOKING ON THE PREMISES AND REMOVE CONSTRUCTION DEBRIS DAILY.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ARCHITECT REVIEW.
- SEE A4.0 FOT SOFFIT VENT CALCULATION

CEILING LEGEND:

- GYP. BD., CEILING OR SOFFIT, REFER TO CEILING PLAN AND DETAILS
- UNDERCABINET LIGHTING, REFER TO ELECTRICAL DRAWINGS FOR TYPE
- 48" LED STRIP LIGHT, REFER TO ELECTRICAL DRAWINGS FOR TYPE
- UNDERCABINET LIGHTING, REFER TO ELECTRICAL DRAWINGS FOR TYPE
- 6" LED RECESSED DOWNLIGHT, REFER TO ELECTRICAL DRAWINGS FOR TYPE
- 3" DOWNLIGHT ON OCC. SENSOR, REFER TO ELECTRICAL DRAWINGS FOR TYPE
- 6" LED RECESSED DOWNLIGHT, REFER TO ELECTRICAL DRAWINGS FOR TYPE
- OUTDOOR PATH LIGHT, REFER TO ELECTRICAL DRAWINGS FOR TYPE
- 3.5" ROUND FIXED WALL WASH, REFER TO ELECTRICAL DRAWINGS FOR TYPE
- PENDANT LIGHT, REFER TO ELECTRICAL DRAWINGS FOR TYPE
- OUTDOOR WALL LANTERN, REFER TO ELECTRICAL DRAWINGS FOR TYPE
- AMBER STEP LIGHT, REFER TO ELECTRICAL DRAWINGS FOR TYPE
- 20" ROUND DECORATIVE FLUSH MOUNT LIGHT, REFER TO ELECTRICAL DRAWINGS FOR TYPE

BASIS OF SPECIFICATION (B.O.S.)

- B.O.S. ALLURA FIBER CEMENT BEAD BOARD, PRE-FINISHED (COLOR: SNOW OR AS SELECTED BY OWNER FROM MFG FULL RANGE)
- B.O.S. ALLURA FIBER CEMENT SOFFIT, TRADITIONAL CEDAR TEXTURE, VENTED AS NOTED, PRE-FINISHED (COLOR: SNOW OR AS SELECTED BY OWNER FROM MFG FULL RANGE)

CONSULTANTS:

ESA
Engineers, Surveyors & Associates, LLC
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mda engineering, inc.
Mechanical and Electrical Engineers
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CHECKED: ARK	

TPA COMMISSION NUMBER: 20026

DRAWING TITLE:

**REFLECTED
CEILING PLAN**

DRAWING NUMBER:

A3.0





LEGEND:

- NEW 2x6 EXTERIOR STUD WALL BELOW

PREFIN. ALUMINUM GUTTER AND DOWNSPOUT

ICE/WATER SHIELD AT PERIMETER OF ROOF (3'-0") & VALLEY

SHADING INDICATES AREA OF OVERBUILD FRAMING

PLUMBING STACK VENT - PAINT TO MATCH SHINGLE COLOR
- 12" (TO 10") SQUARE TAPERED COLUMN BELOW
- SECTION / DETAIL TAG
- 30-YEAR ASPHALT SHINGLES - 'OWENS-CORNING' DURATION SERIES (SUMMER HARVEST)
- OUTLINE OF ROOF TRUSS
- ATTIC / ROOF RIDGE VENT - INSTALL PER MANUF. SPECIFICATIONS

GENERAL PLAN NOTES:

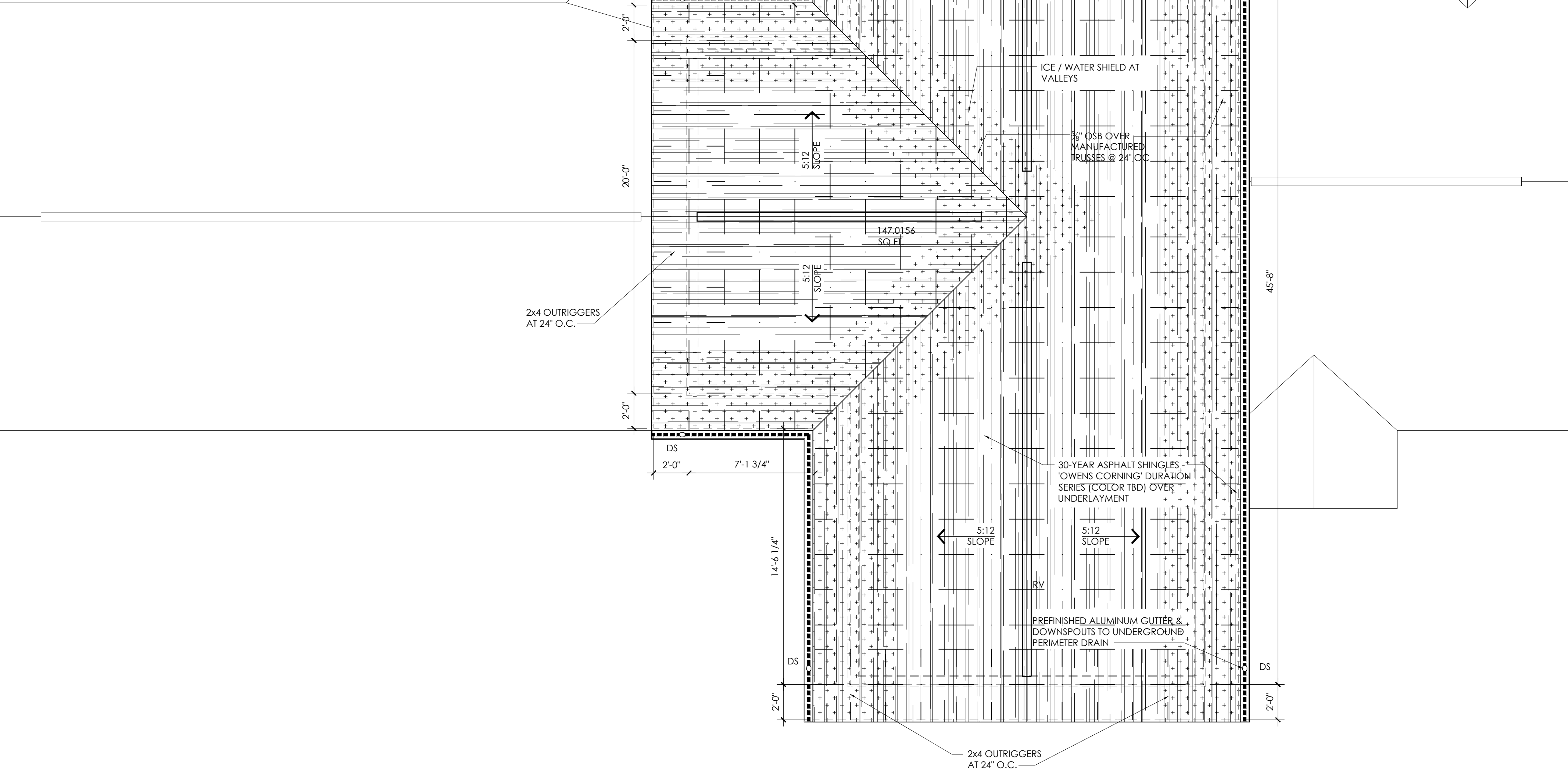
- DIMENSIONS SHOWN ARE TO FACE OF STUD OR FACE OF BLOCK / BRICK WALL. ACTUAL FIELD DIMENSIONS MAY VARY SLIGHTLY.
- TYPICAL TRUSS SPACING AT 24" O.C. TRUSSES SHALL ALIGN WITH WALL STUDS BELOW
- REFER TO SHEET G1.0 FOR TYPICAL NOTES AND SPECIFICATIONS

MIN. NET FREE VENTILATING AREA (UPPER ROOF)

REQUIRED:
 $1/150$ OF THE AREA OF THE SPACE VENTILATED = $1,030$ SF OF ATTIC SPACE $\times 1/150$ = 6.90 SF
(MIN. 50% TO BE MINIMUM 3'-0" ABOVE EAVE / CORNICE VENTS = 3.45 SF)

PROVIDED:
RIDGE VENTS (12.5 S/LF, 55'-6" LENGTH) = 4.82 SF
TOTAL SF ABOVE EAVE/CORNICE VENTS = 4.82 SF

CONTINUOUS SOFFIT VENTS (8 S/LF, 165'-0" LENGTH) = 9.16 SF
TOTAL NET AREA = 13.98 SF



ROOF PLAN - UPPER

1/4" = 1'-0"



GARAGE ROOF PLAN (ALTERNATE 01)
HOME ROOF PLAN (BASE BID)

THOMAS
PORTER
ARCHITECTS

8 North St. Clair - Toledo, Ohio 43604-1028
T 419.243.2400
www.thomasporterarchitects.com

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Mechanical
and Electrical
Engineers

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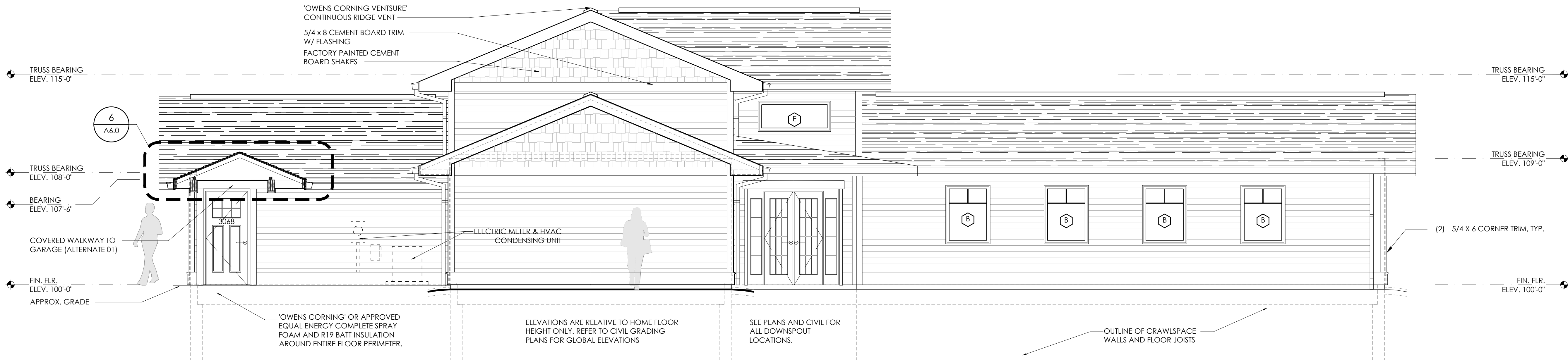
ROOF PLAN
& DETAILS

DRAWING NUMBER:

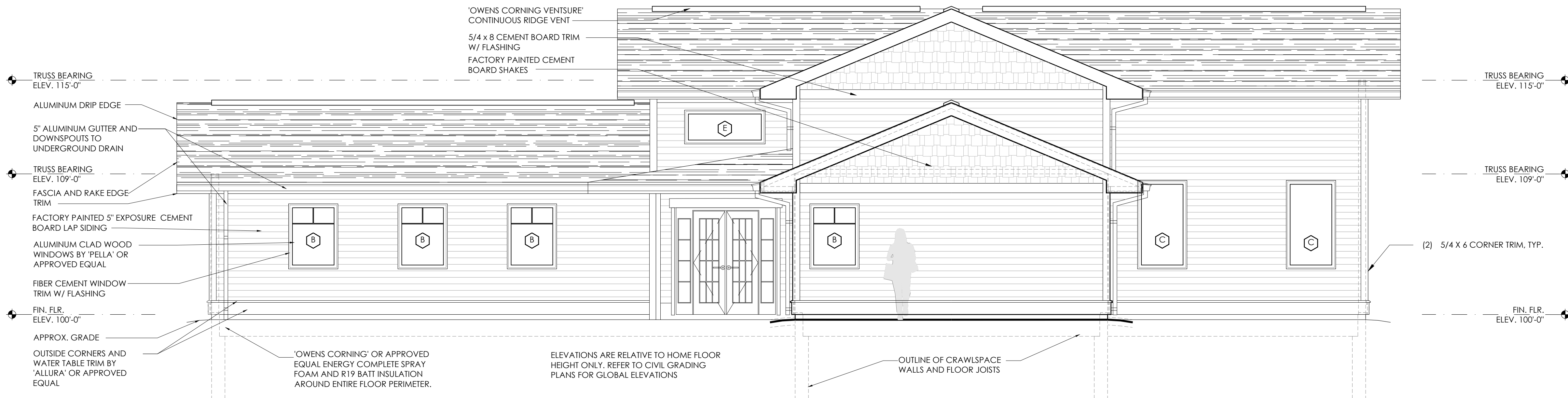
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1"=30'
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1"=20'
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1 1/2"=1'-0"
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3/8"=1'-0"



1 NORTH EXTERIOR ELEVATION
A5.0 1/4" = 1'-0"



2 WEST EXTERIOR ELEVATION
A5.0 1/4" = 1'-0"

ELEVATION MATERIAL LEGEND:

BASIS OF SPECIFICATION (B.O.S.)

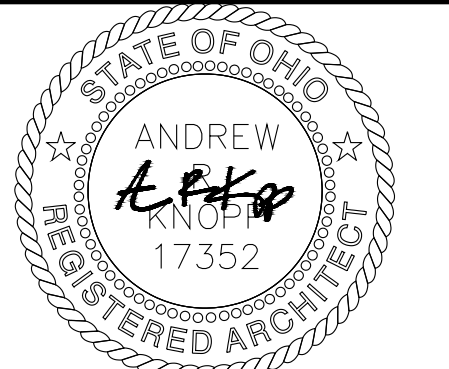
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- B.O.S. ALLURA FIBER CEMENT LAP SIDING, TRADITIONAL CEDAR TEXTURE, 5" EXPOSURE. PRE-FINISHED (COLOR: PACIFIC BLUE OR AS SELECTED BY OWNER FROM MFG FULL RANGE)
- B.O.S. ALLURA FIBER CEMENT SHAKE SELECT, TRADITIONAL CEDAR TEXTURE, RANDOM SQUARE STAGGERED EDGE. PRE-FINISHED (COLOR: TAUPE OR AS SELECTED BY OWNER FROM MFG FULL RANGE)
- B.O.S. ALLURA FIBER CEMENT BEAD BOARD. PRE-FINISHED (COLOR: SNOW OR AS SELECTED BY OWNER FROM MFG FULL RANGE)
- B.O.S. ALLURA FIBER CEMENT SOFFIT, TRADITIONAL CEDAR TEXTURE, VENTED AS NOTED. PRE-FINISHED (COLOR: SNOW OR AS SELECTED BY OWNER FROM MFG FULL RANGE)
- B.O.S. ALLURA FIBER CEMENT TRIM, TRADITIONAL CEDAR TEXTURE OR SMOOTH AS NOTED. VARYING SIZE/THICKNESS AS NOTED. PRE-FINISHED (COLOR: SNOW OR AS SELECTED BY OWNER FROM MFG FULL RANGE)

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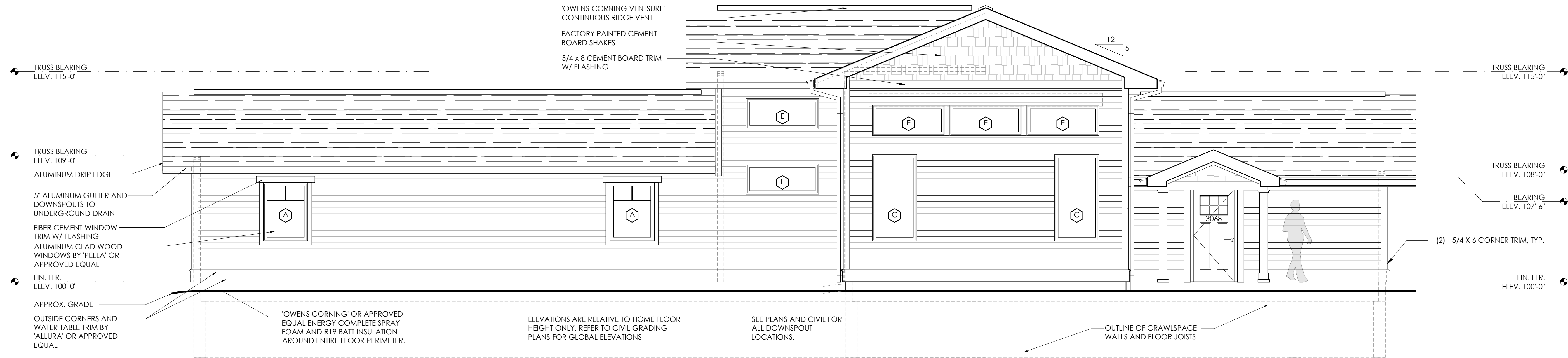
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EXTERIOR
ELEVATIONS

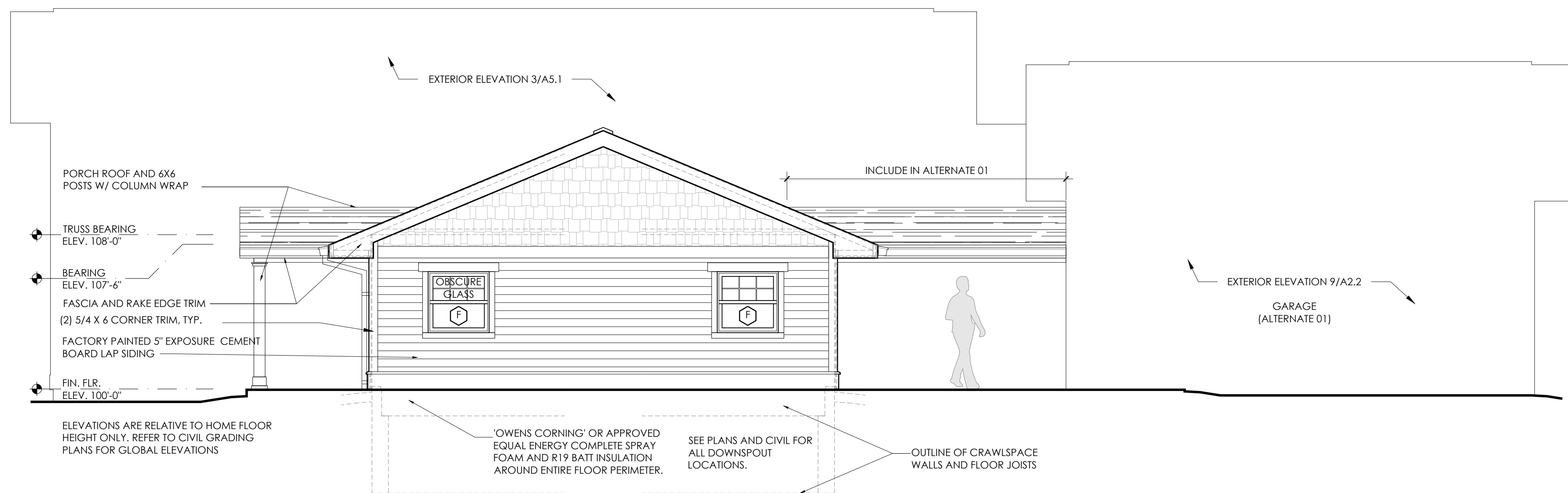
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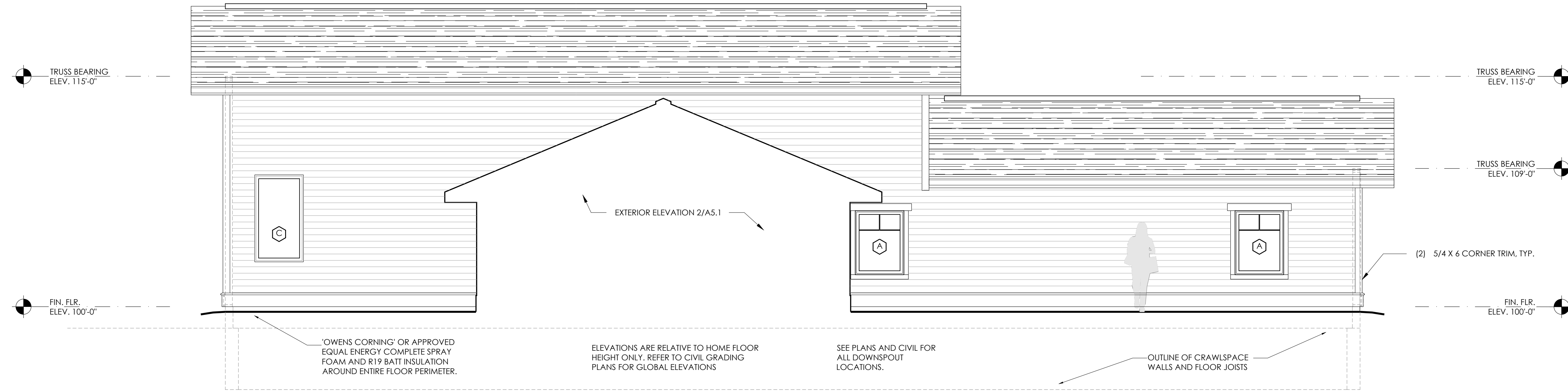
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1/2'-1'-0"
3/8'-1'-0"



1 SOUTH EXTERIOR ELEVATION
A5.1 1/4" = 1'-0"



2 EAST EXTERIOR ELEVATION
A5.1 1/4" = 1'-0"



3 EAST EXTERIOR ELEVATION
A5.1 1/4" = 1'-0"

ELEVATION MATERIAL LEGEND:

BASIS OF SPECIFICATION (B.O.S.)

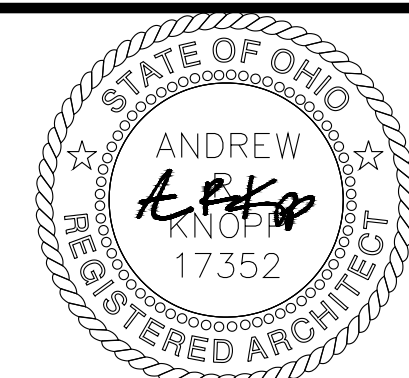
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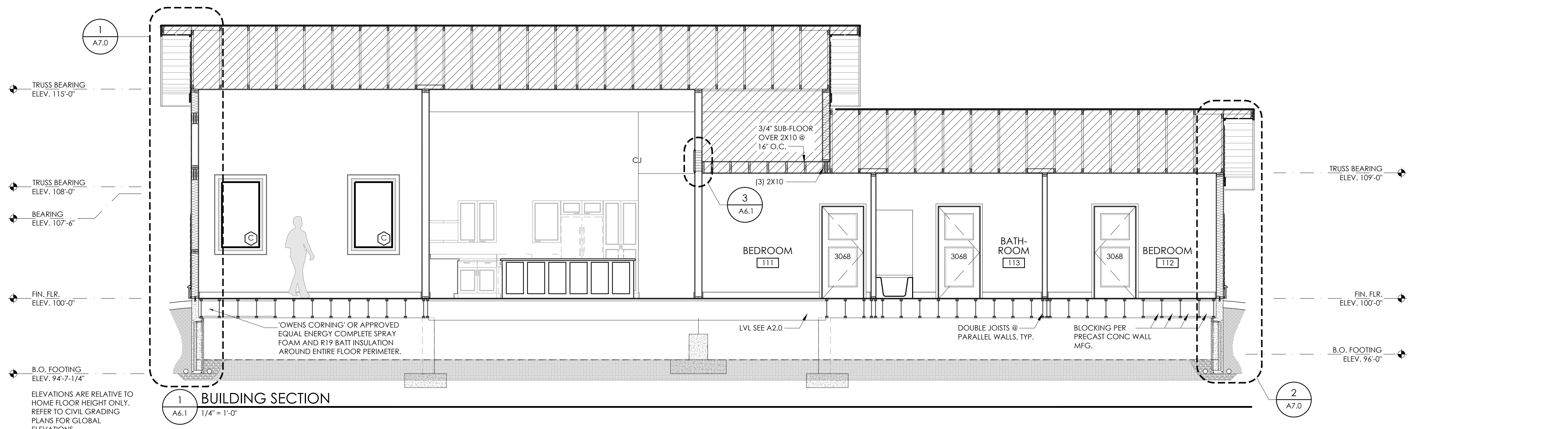
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EXTERIOR
ELEVATIONS

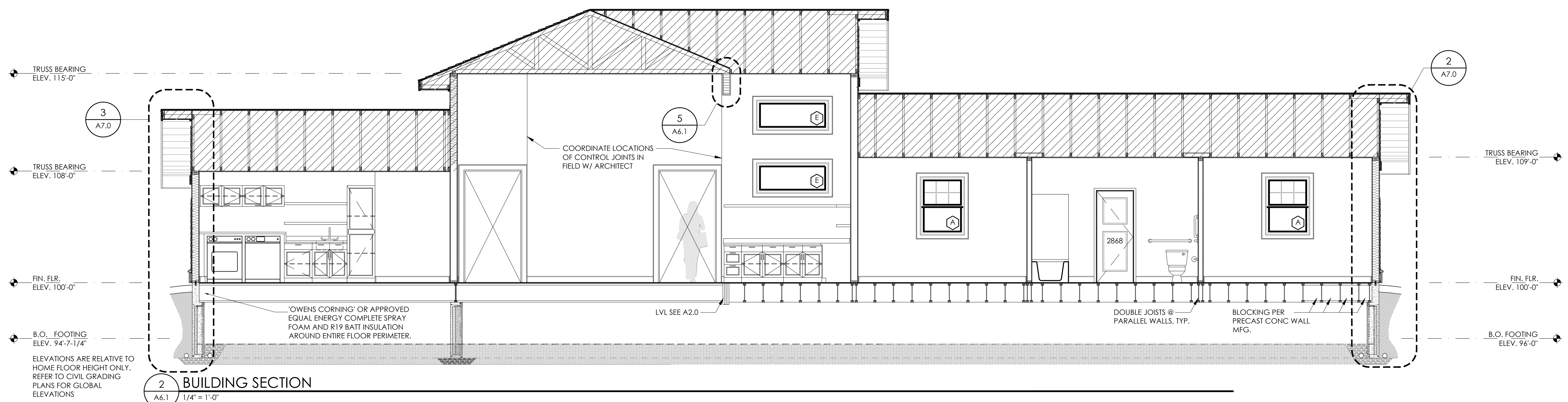
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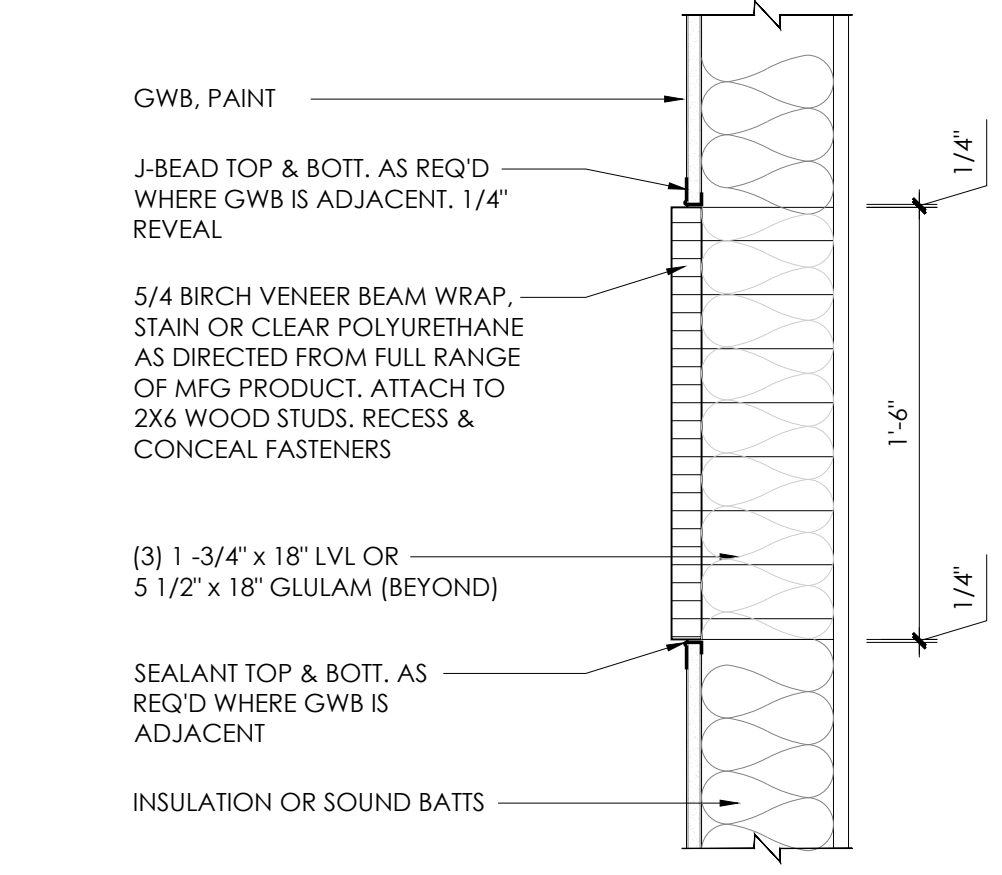
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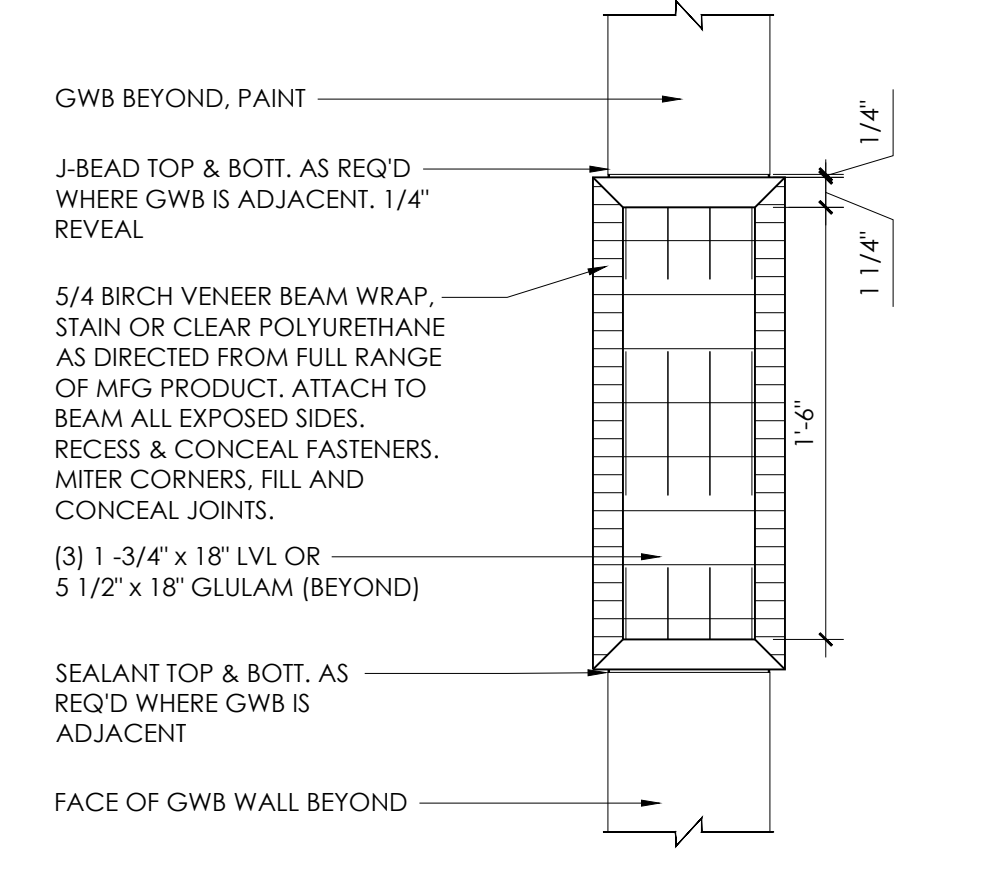
BUILDING SECTION



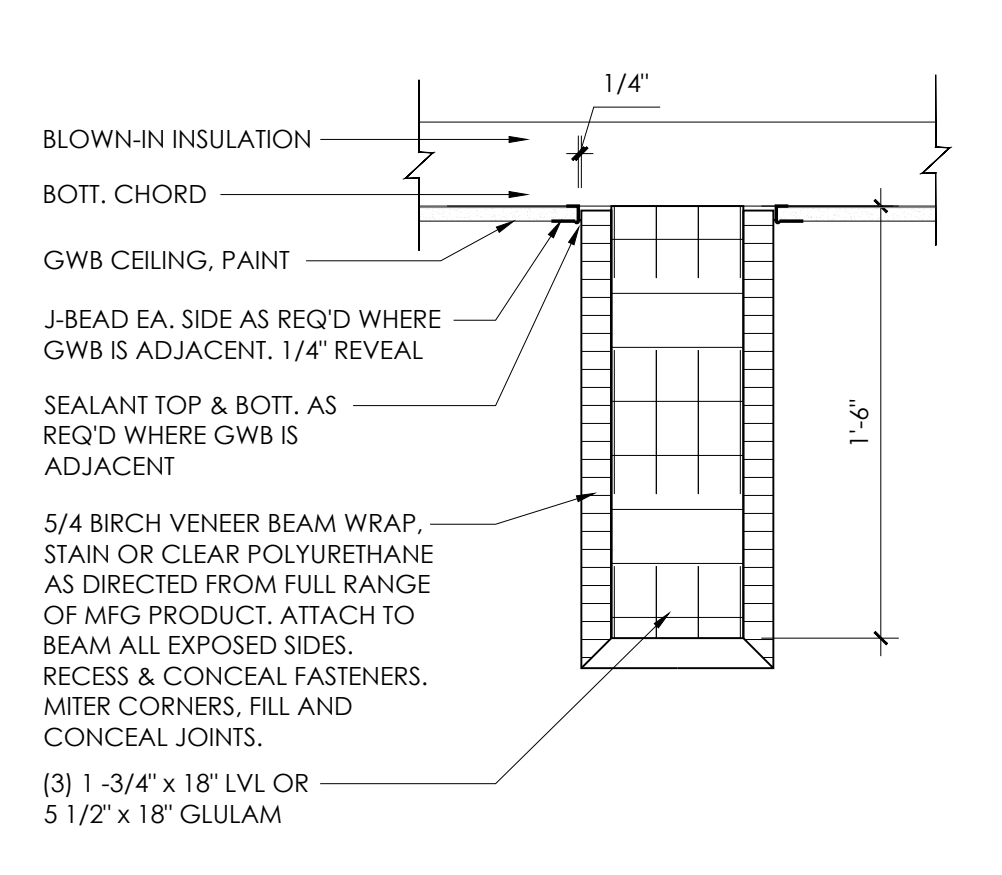
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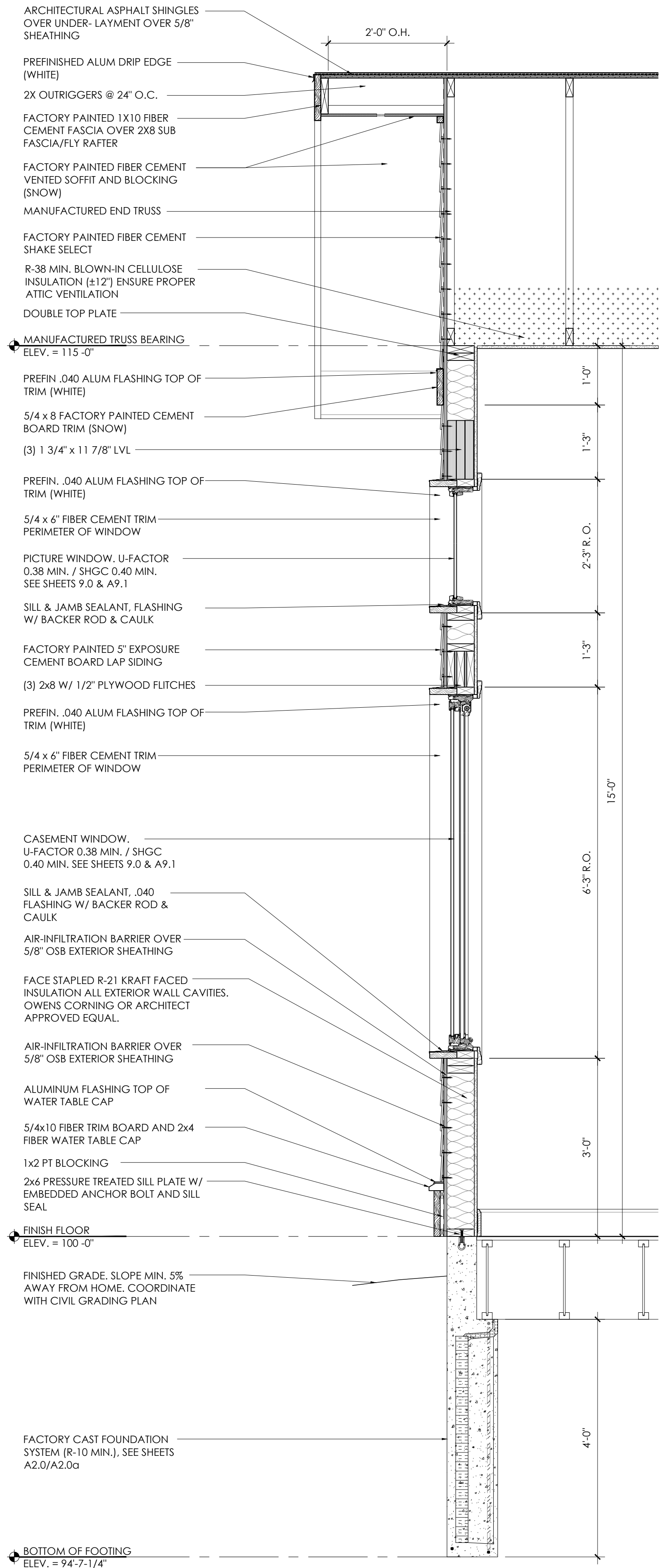
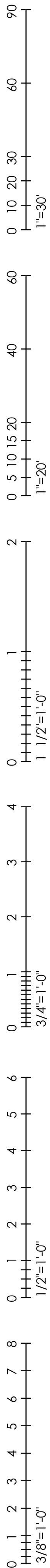
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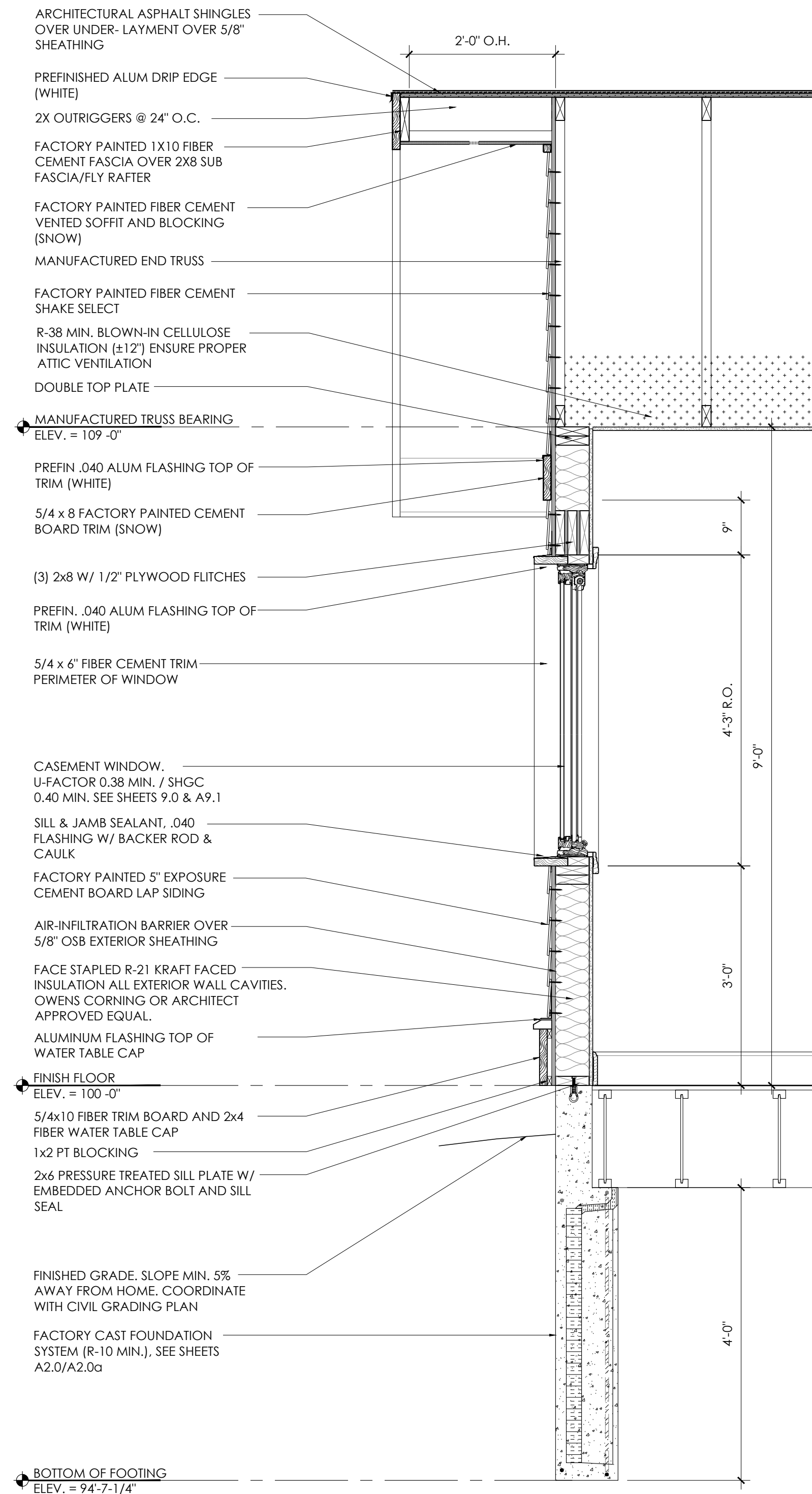
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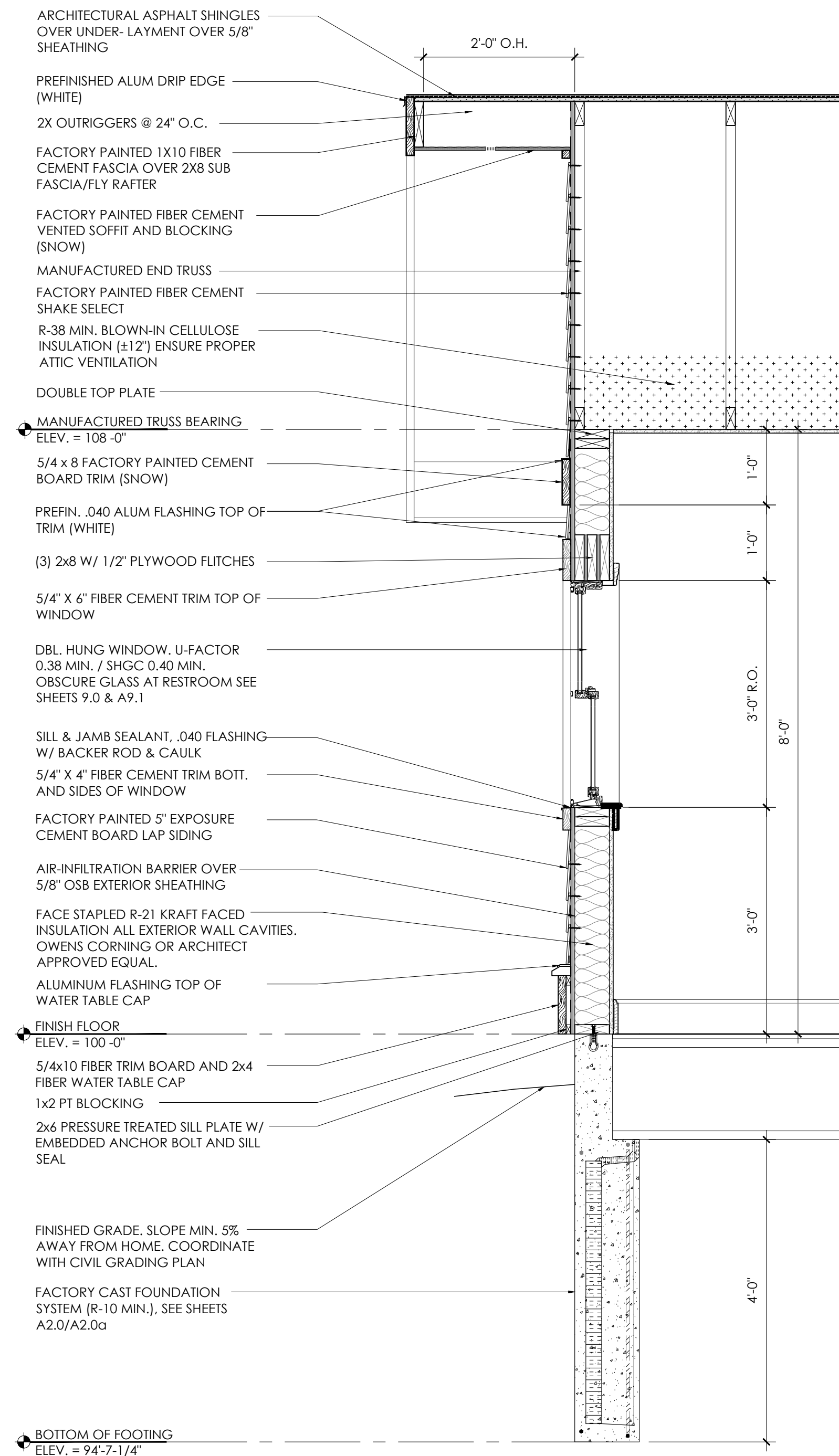
BEAM WRAP DETAIL



1 WALL SECTION
A7.0 SCALE: 3/4" = 1'-0"



2 WALL SECTION
A7.0 SCALE: 3/4" = 1'-0"



3 WALL SECTION
A7.0 SCALE: 3/4" = 1'-0"

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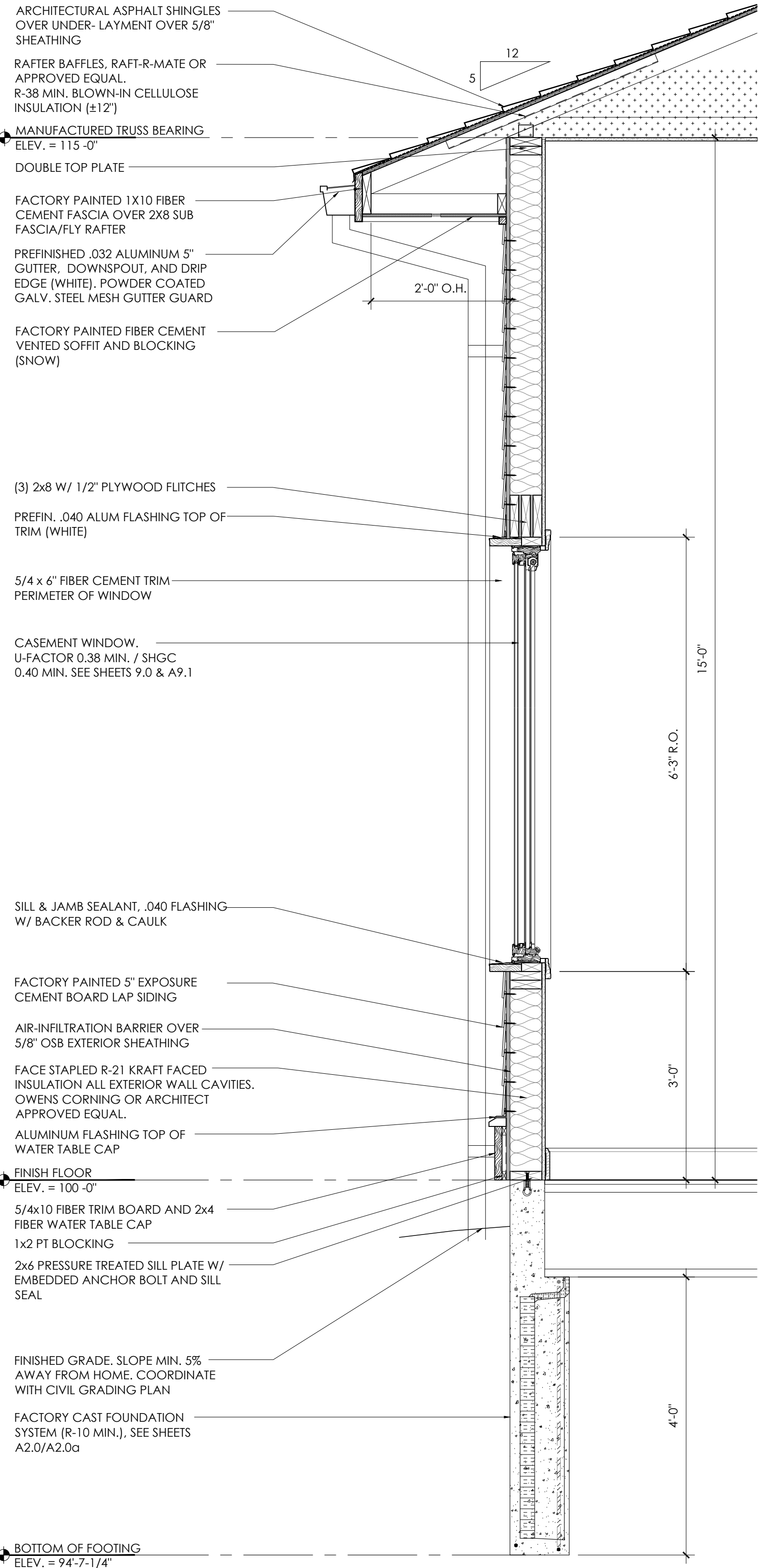
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WALL SECTIONS

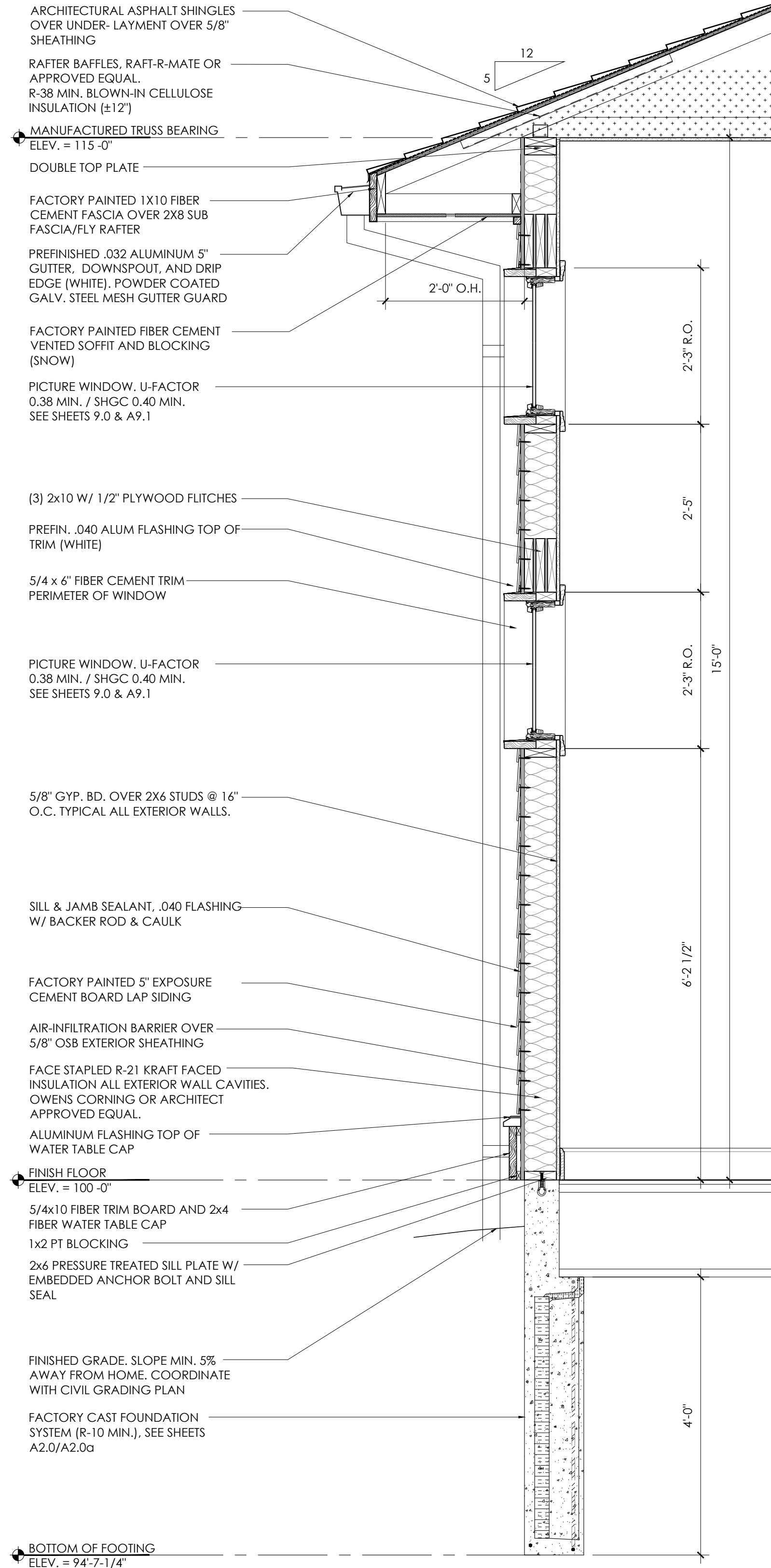
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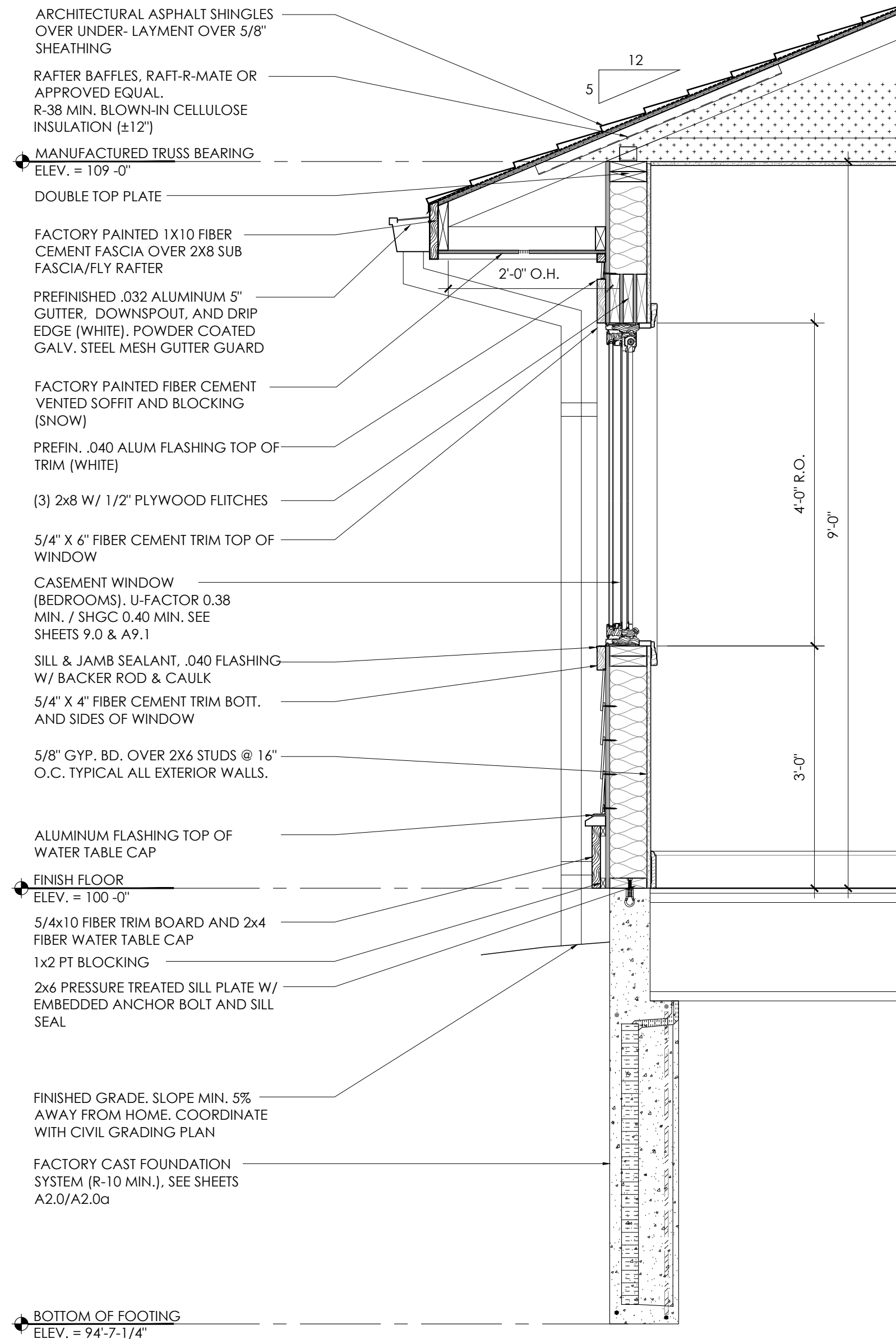
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1/2"=1'-0"
4
3
2
1
0 1 2 3 4 5 6
3/4"=1'-0"
6
5
4
3
2
1
0 1 2 3 4 5 6
1/2"=1'-0"
8
7
6
5
4
3
2
1
0 1 2 3 4 5 6
3/8"=1'-0"



1 WALL SECTION
A7.1 SCALE: 3/4" = 1'-0"



2 WALL SECTION
A7.1 SCALE: 3/4" = 1'-0"



3 WALL SECTION
A7.1 SCALE: 3/4" = 1'-0"

CONSULTANTS:

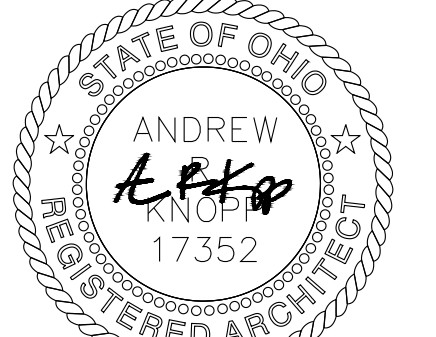
ESA

Engineers, Surveyors & Associates, LLC
1525 Secor Rd., Toledo, Ohio, 43623 Phone (419) 479-9445



Mechanical and Electrical Engineers
1415 Holland Road
Maumee, Ohio 43537
Phone: (419) 893-3141

SEAL:



Andrew R. Knopp License #1817352
Expiration Date 12/31/2021
NOT FOR CONSTRUCTION UNLESS SIGNED & SEALED

RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

PROJECT TITLE:

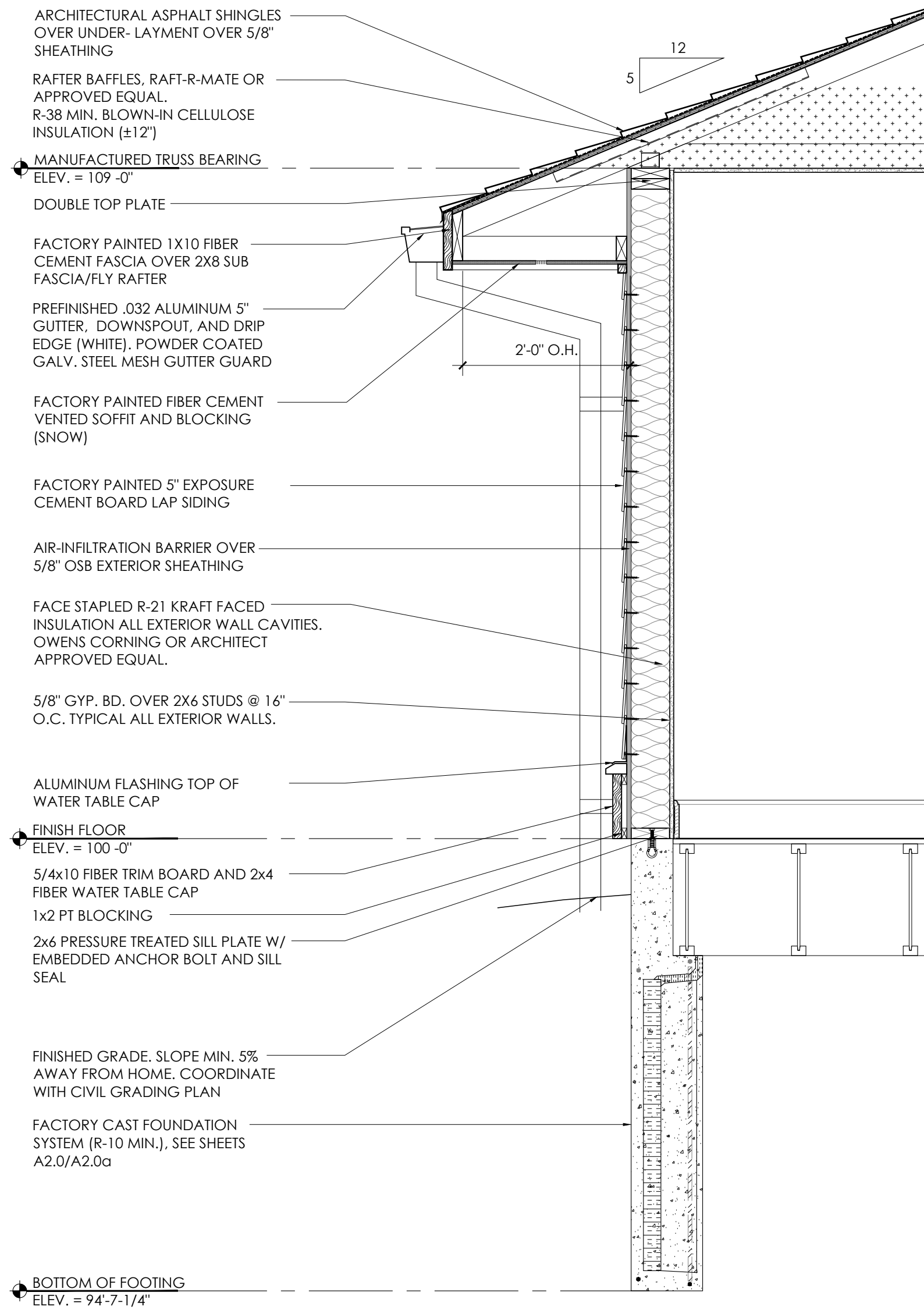
ISSUE OR REVISION:

10.22.2021	PERMIT & BID SET
DATE	ISSUE / REVISION
DESIGNED:	ACH
DRAWN:	ACH/SJW
CHECKED:	ARK
TPA COMMISSION NUMBER:	20026
DRAWING TITLE:	

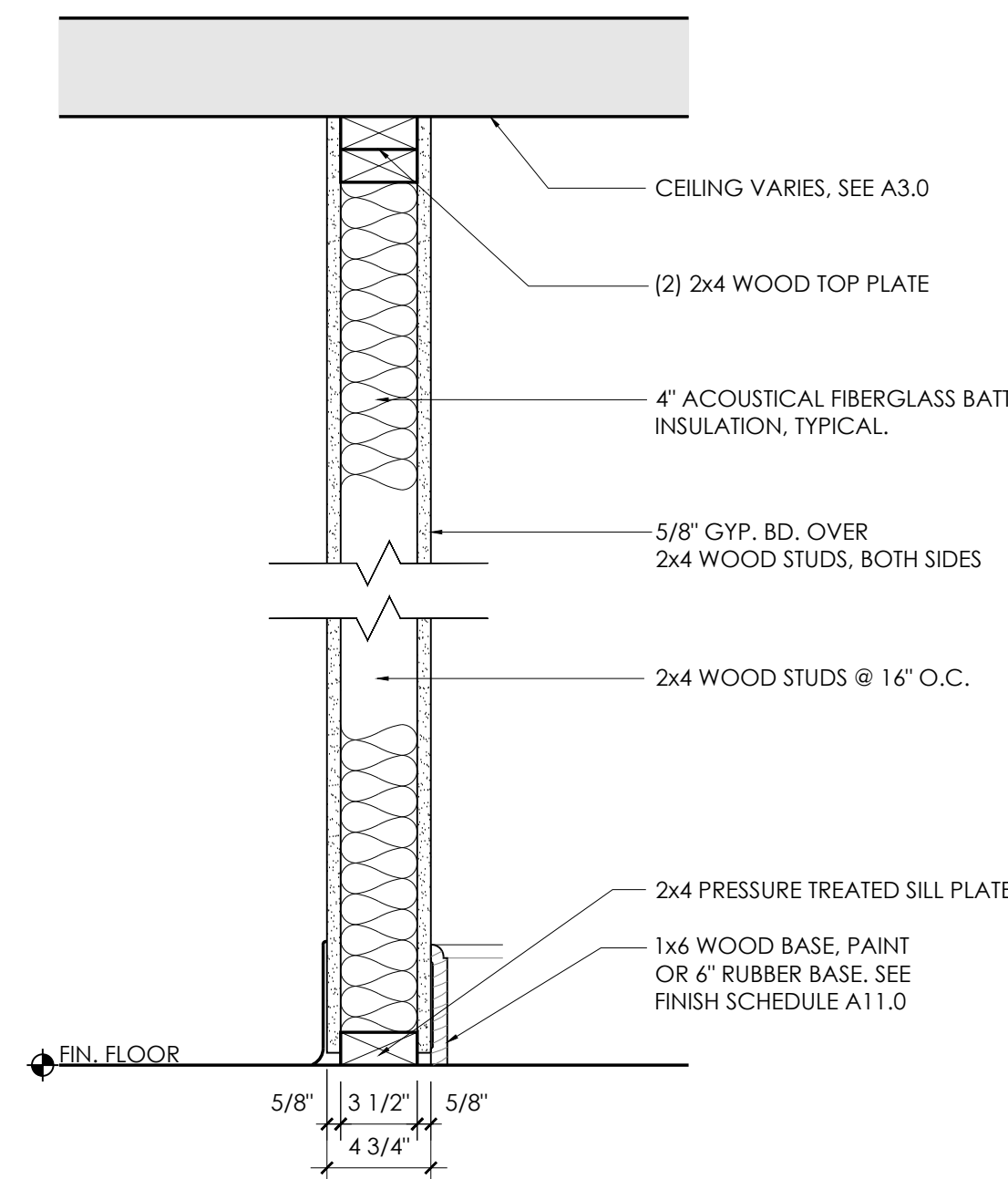
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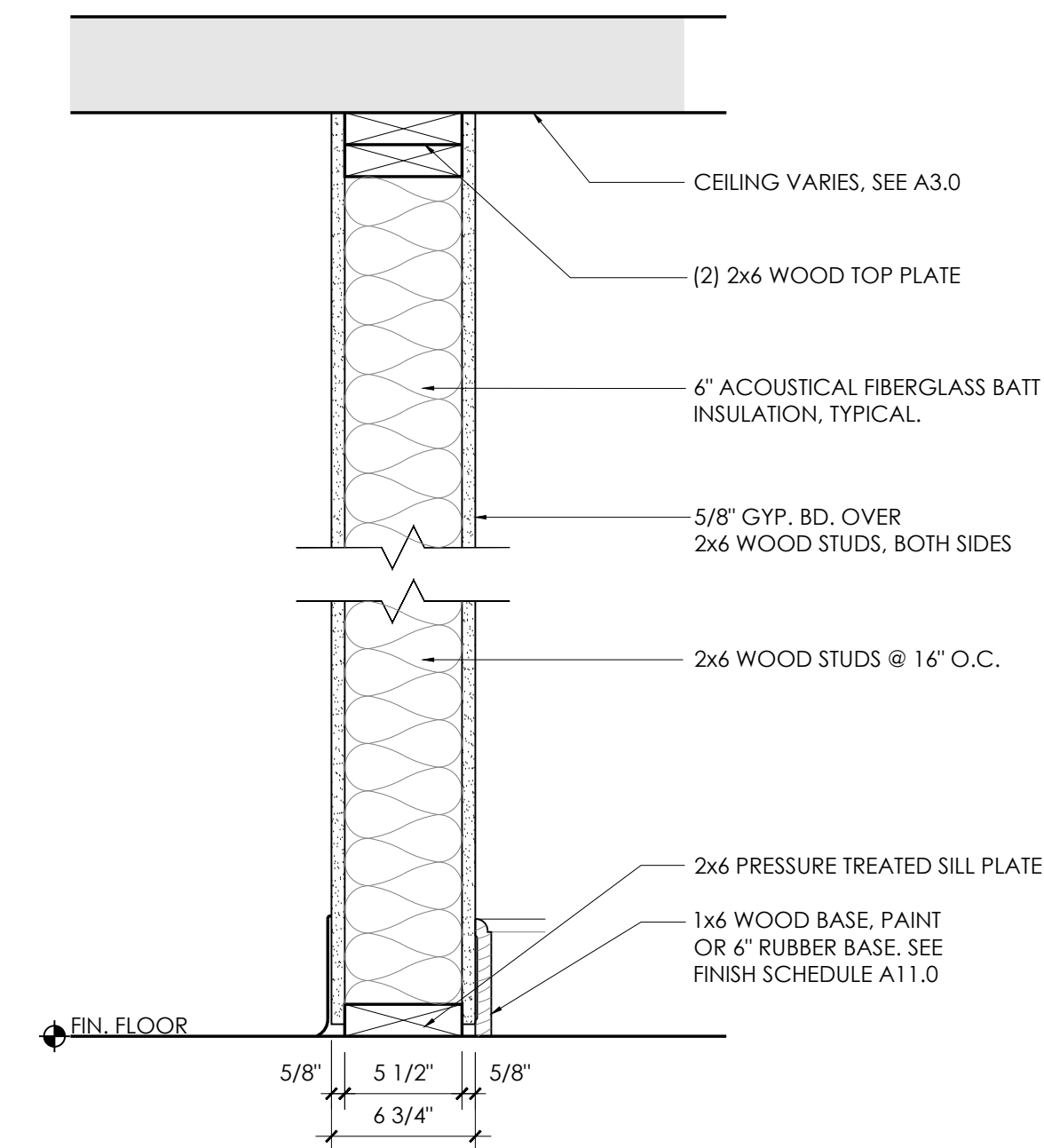
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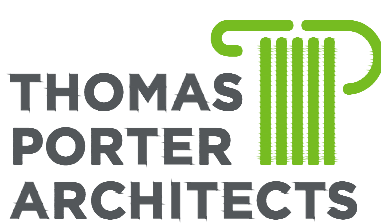
1 WALL SECTION
A7.2 SCALE: 3/4" = 1'-0"



P1 PARTITION TYPE
A7.2 SCALE: 1-1/2" = 1'-0"



P2 PARTITION TYPE
A7.2 SCALE: 1-1/2" = 1'-0"



8 North St. Clair - Toledo, Ohio 43604-1028
T 419.243.2400
www.thomasporterarchitects.com

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mda engineering, inc.
Mechanical and Electrical Engineers
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Maumee, Ohio 43537
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ROSSFORD, OH 43460

PROJECT TITLE:

ISSUE OR REVISION:

10.22.2021	PERMIT & BID SET
DATE	ISSUE / REVISION

DESIGNED:	ACH
DRAWN:	ACH/SJW
CHECKED:	ARK

TPA COMMISSION NUMBER: 20026

DRAWING TITLE:

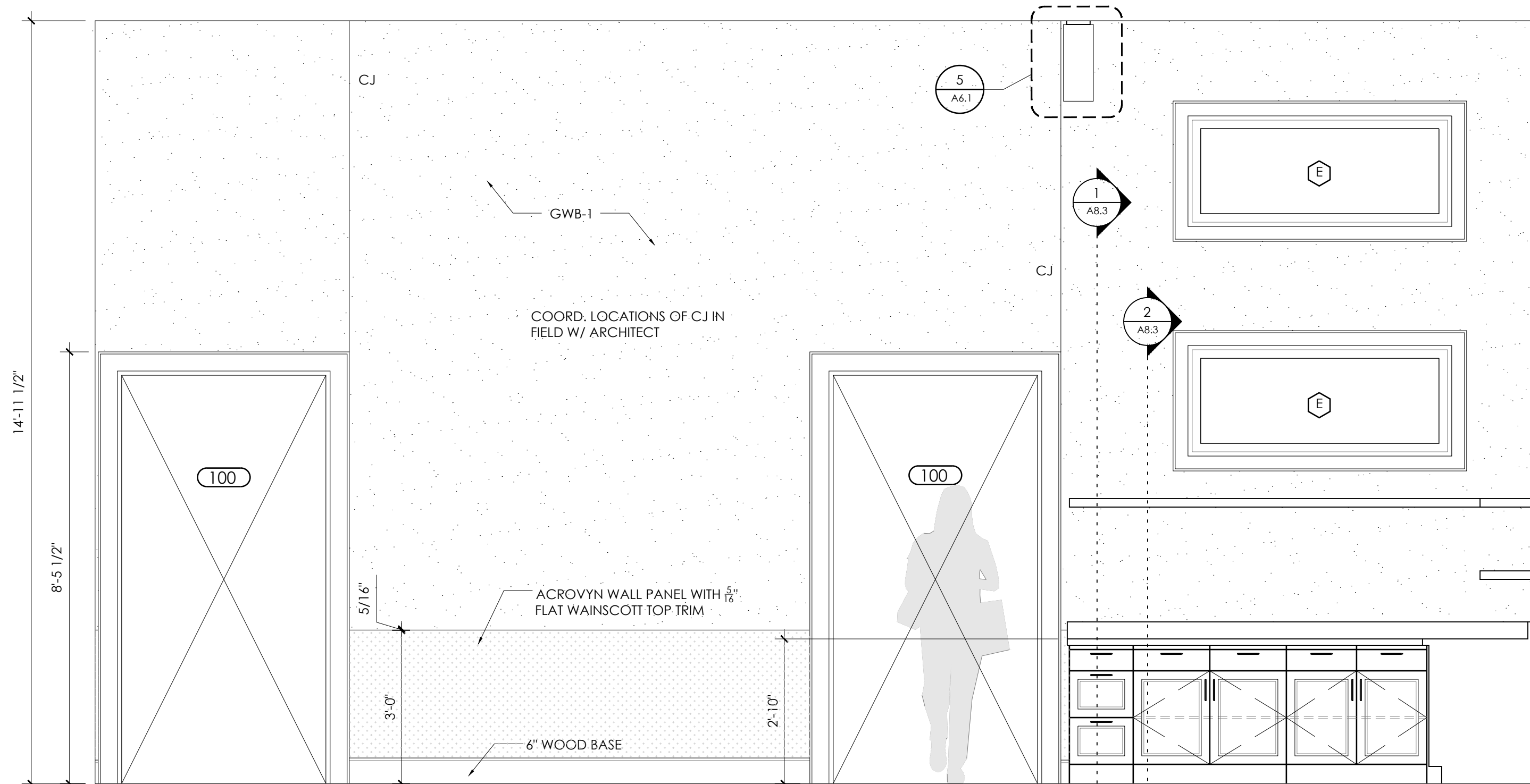
WALL SECTION
& PARTITION
TYPES

DRAWING NUMBER:

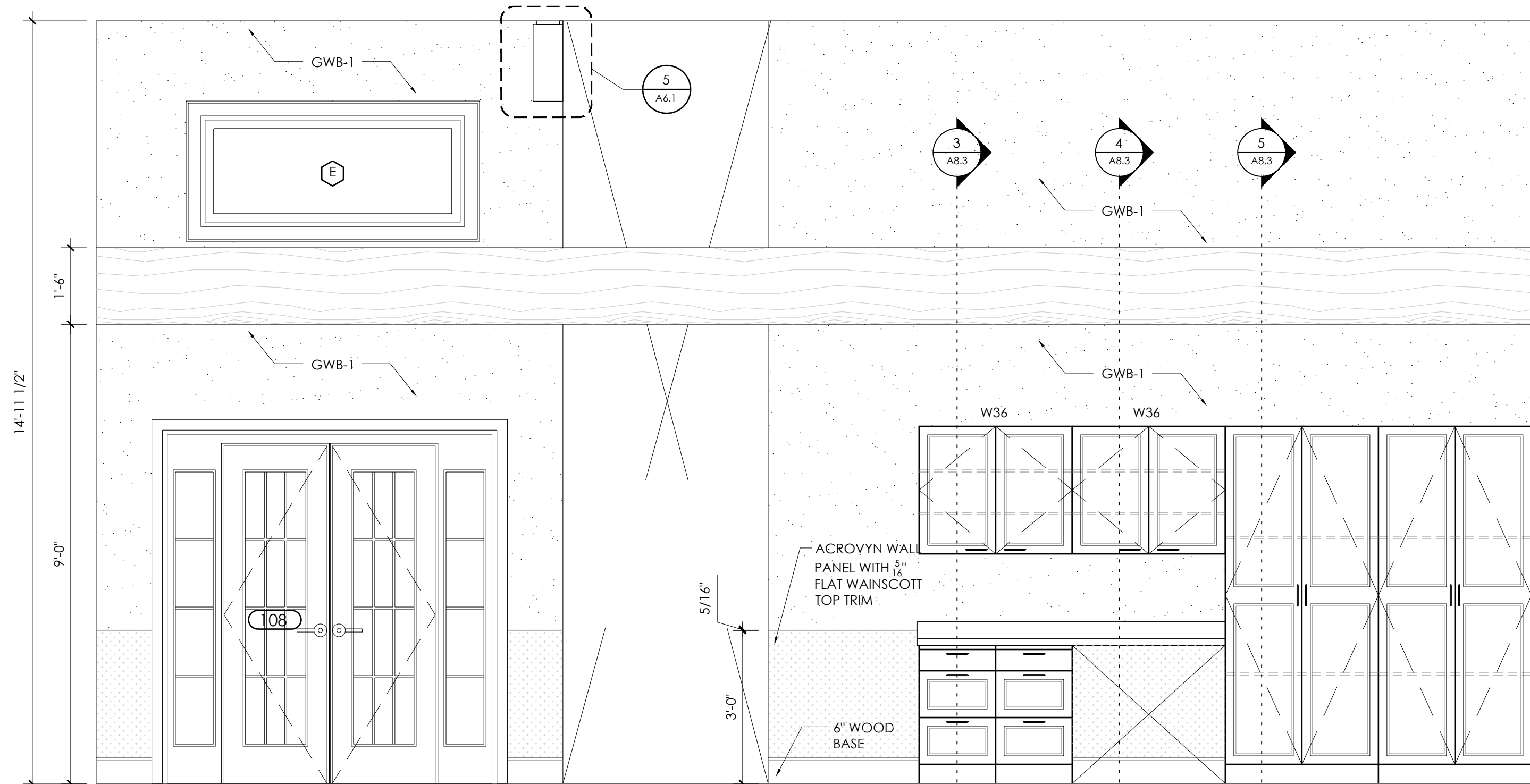
A7.2

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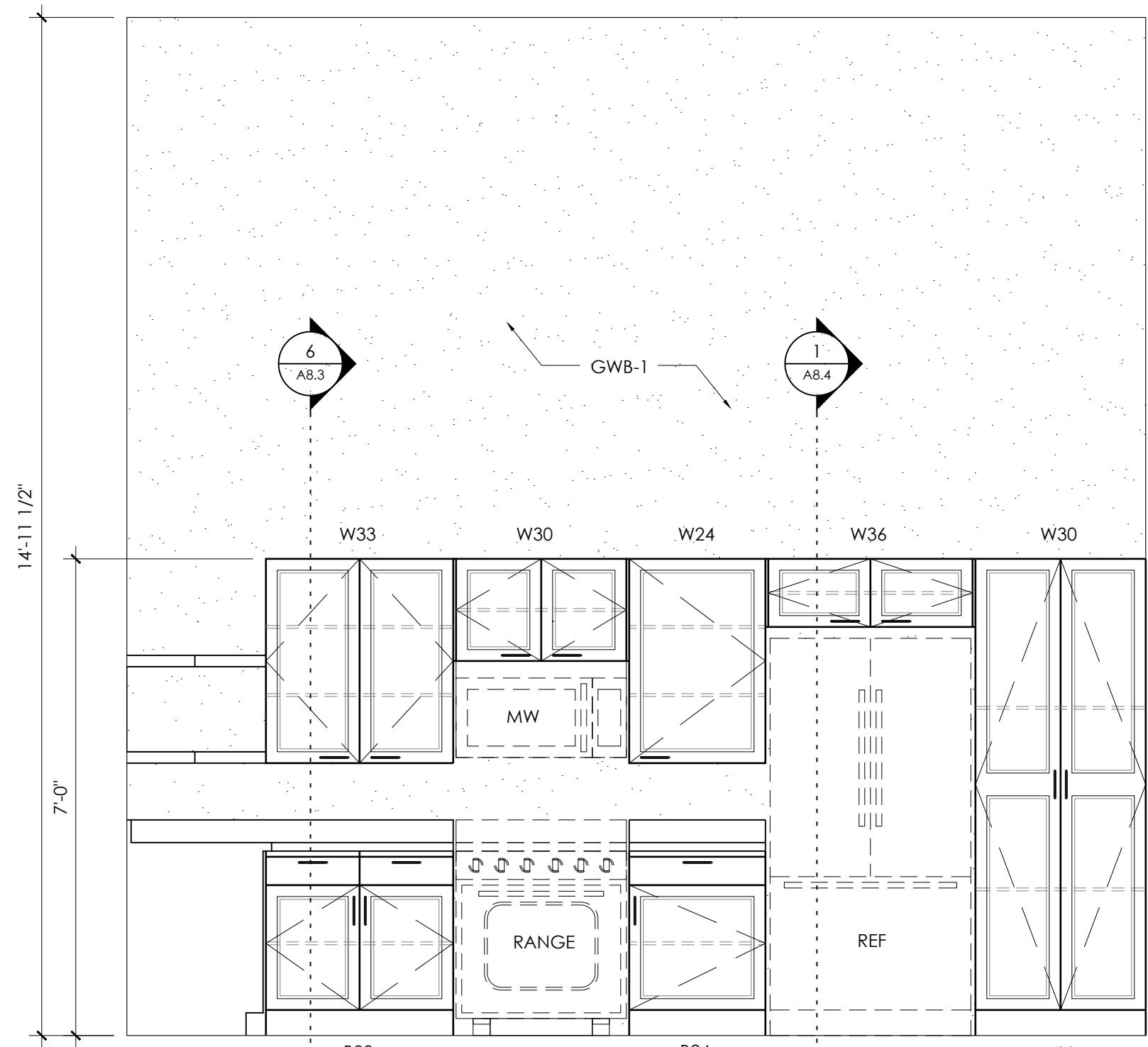
90
60
30
0 10 20 30
1"=30"
40
20
0 5 10 15 20
1"=20"
2
1
0
1
1/2"=1'-0"
4
3
2
1
0
3/4"=1'-0"
6
5
4
3
2
1
0
1
1/2"=1'-0"
3/8"=1'-0"
6
5
4
3
2
1
0
1
1/2"=1'-0"
3/8"=1'-0"



1 KITCHEN 102 / DINING/CRAFT ROOM 101
A8.0 1/2" = 1'-0"



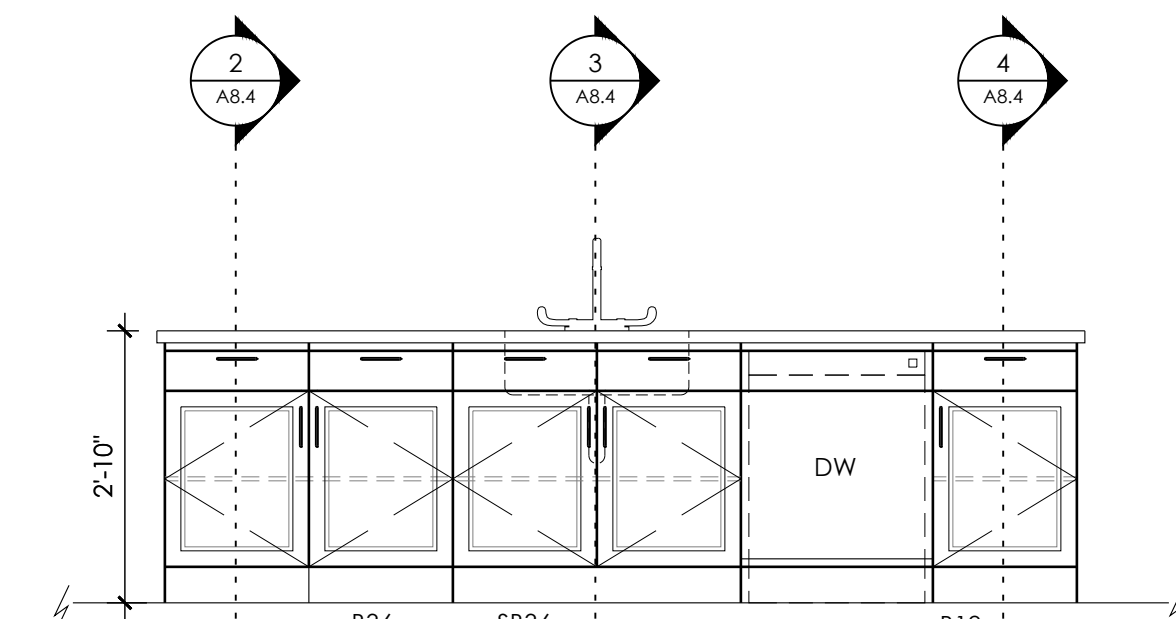
2 KITCHEN 102 / DINING/CRAFT ROOM 101
A8.0 1/2" = 1'-0"



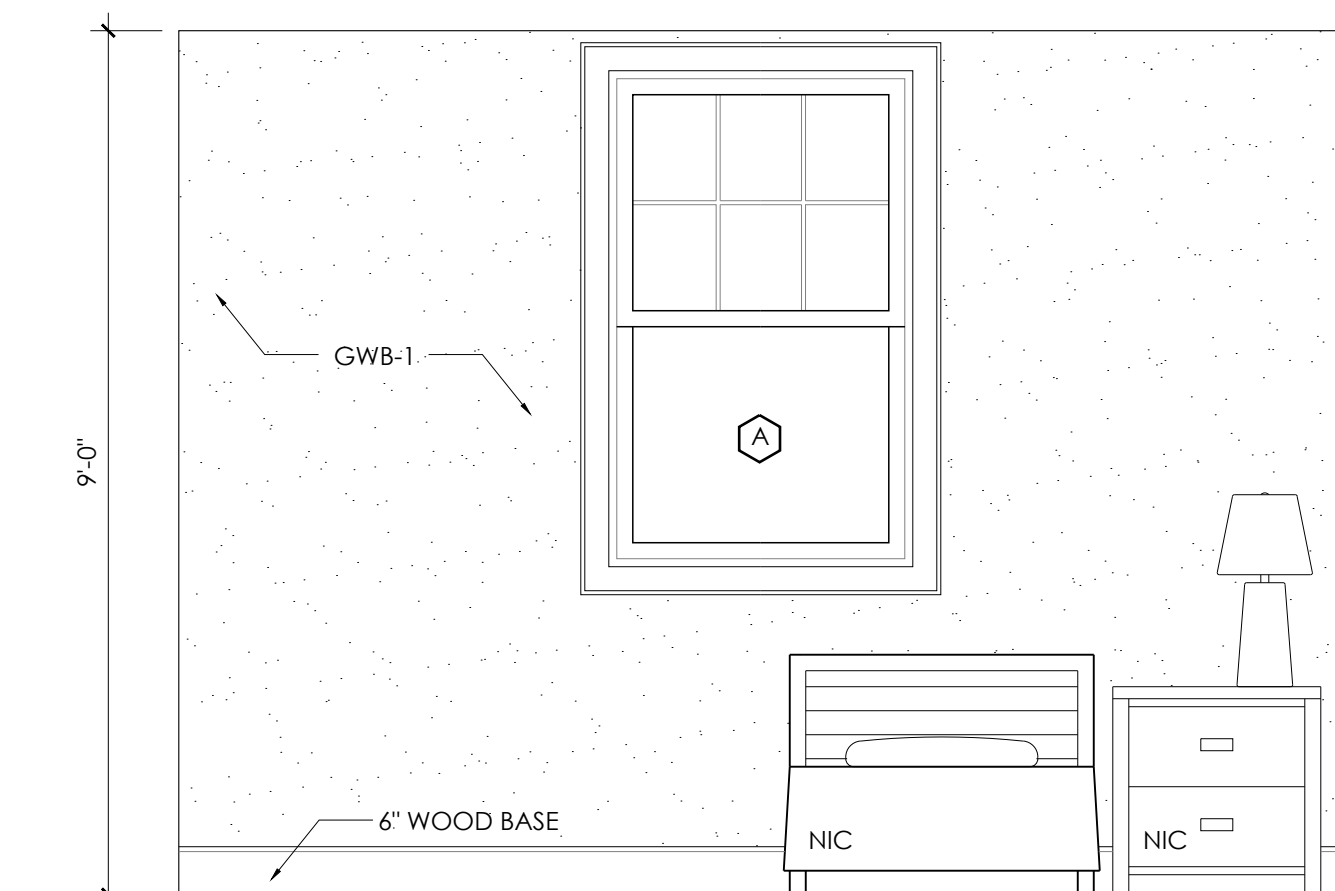
3 KITCHEN 102
A8.0 1/2" = 1'-0"



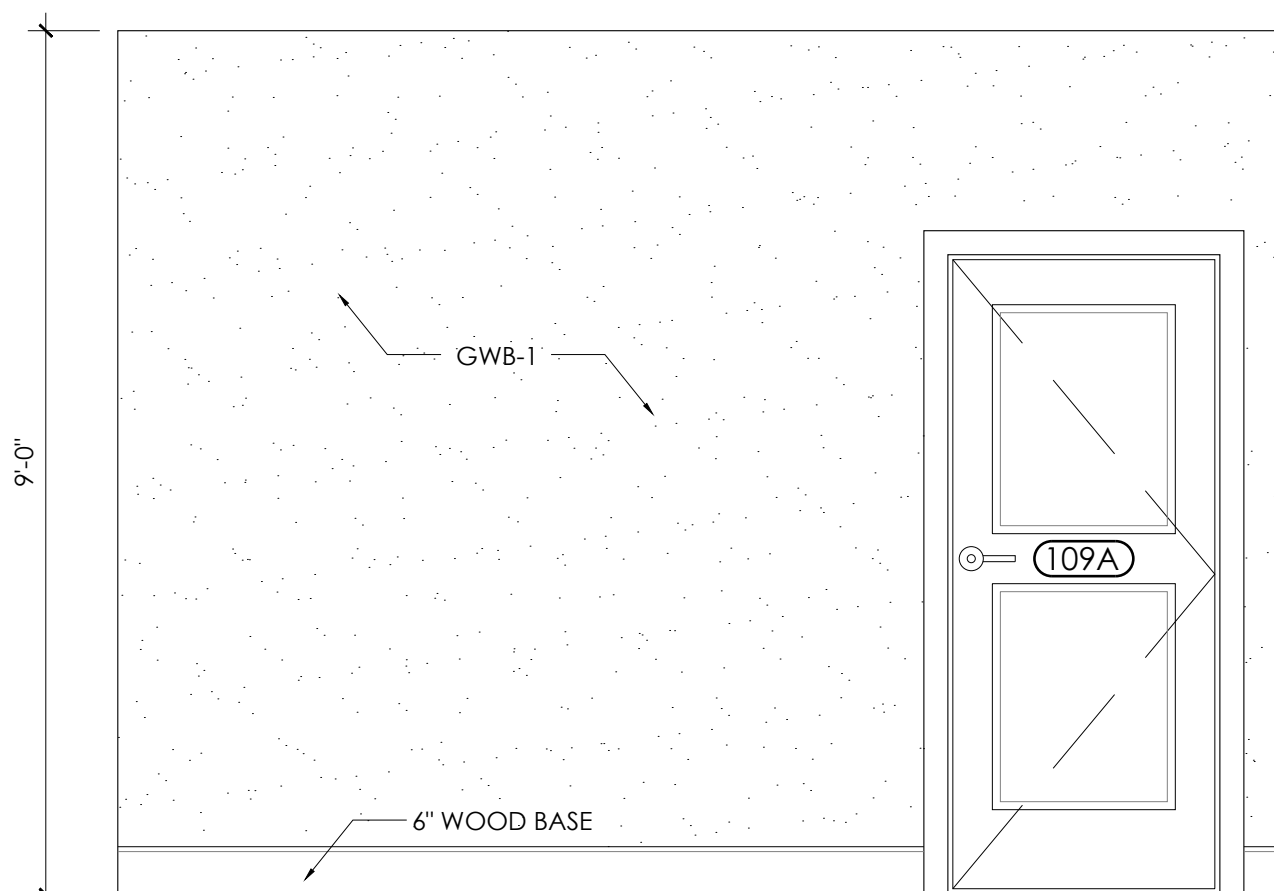
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A8.0 1/2" = 1'-0"



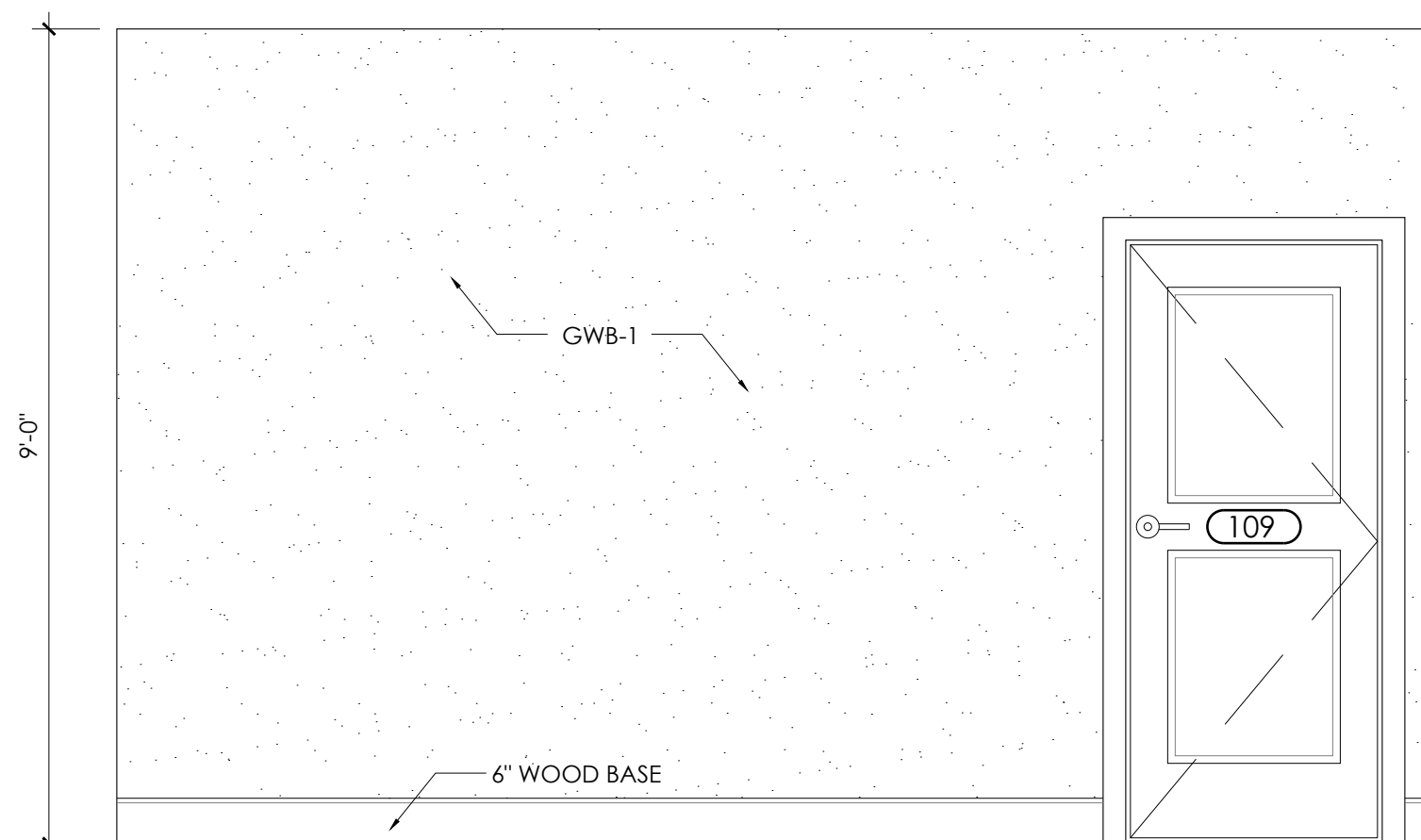
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A8.0 1/2" = 1'-0"



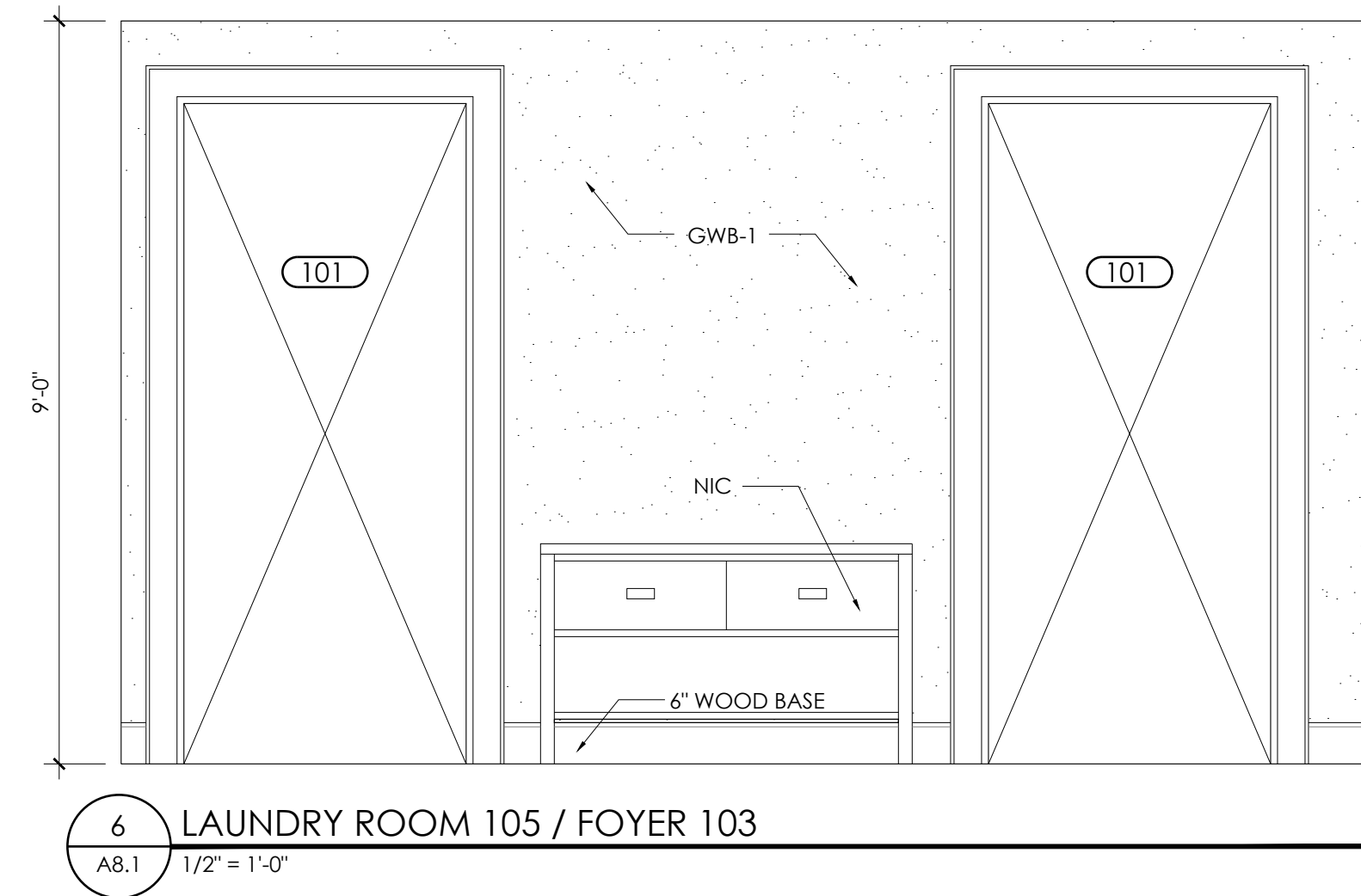
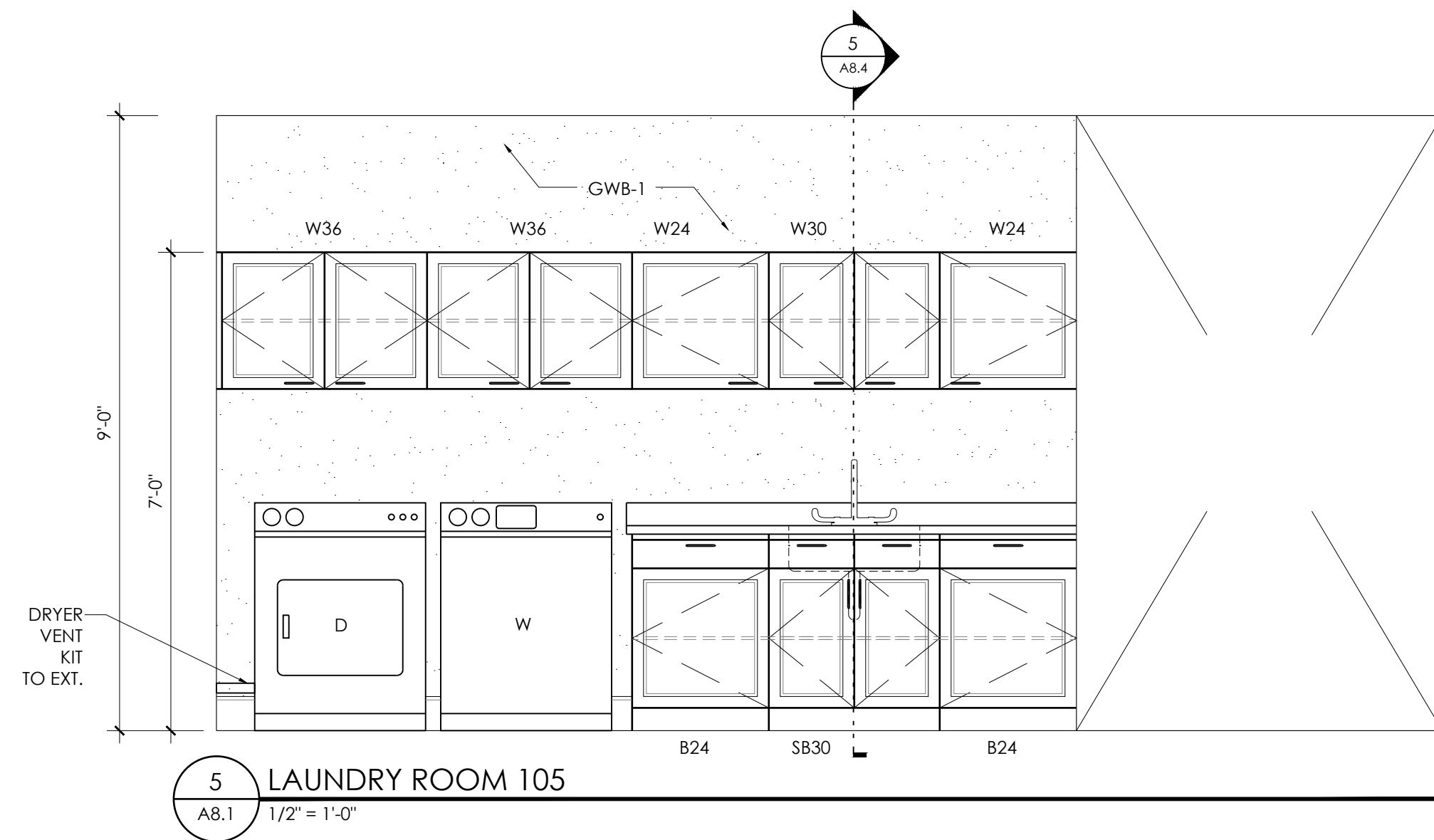
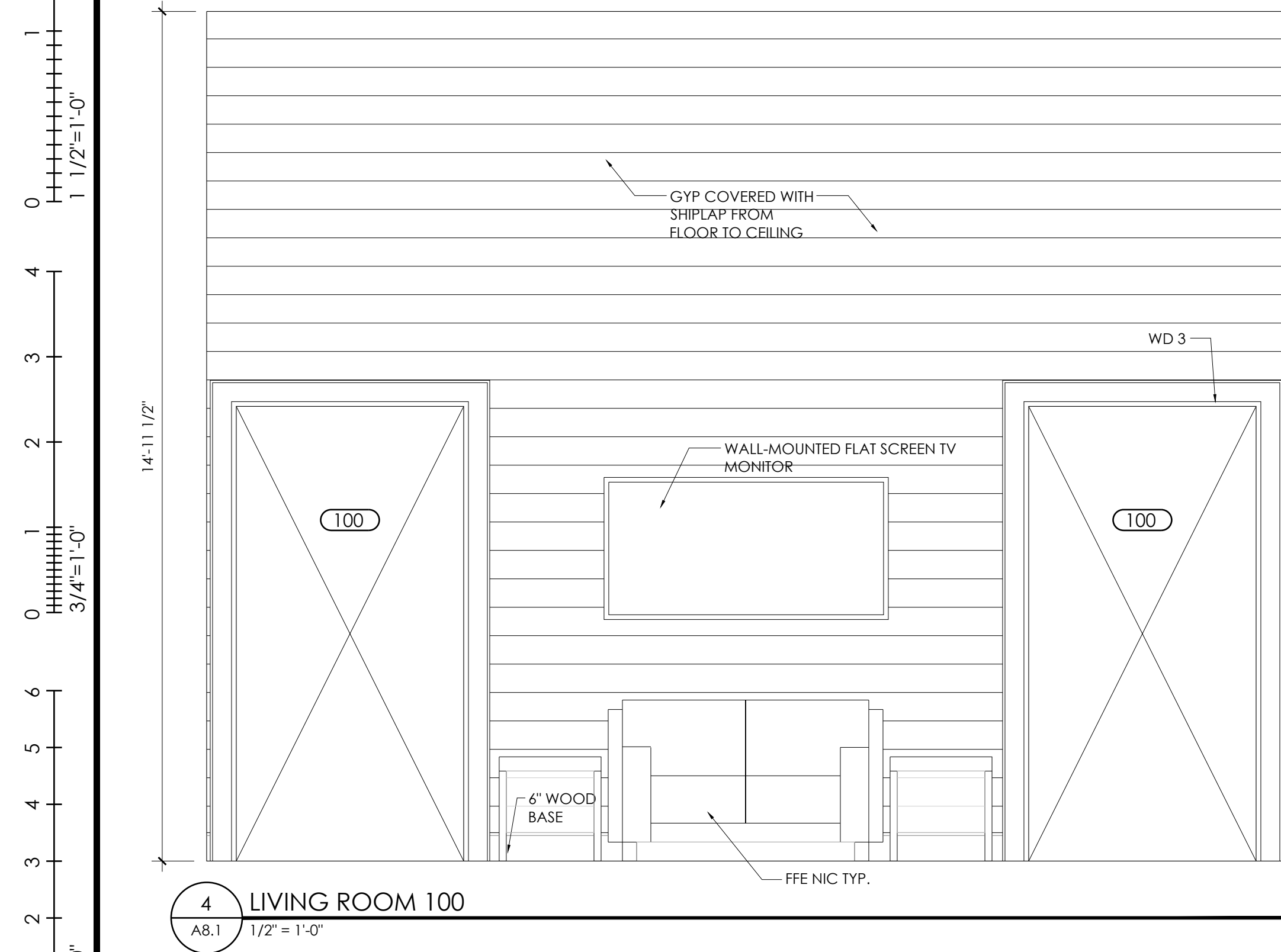
6 BEDROOM 109
A8.0 1/2" = 1'-0"



7 BEDROOM 109
A8.0 1/2" = 1'-0"



8 BEDROOM 109
A8.0 1/2" = 1'-0"



9'-0"
60
30
0 10 20 30
1"=30"

40
20
10
5
0 5 10 15 20
1"=20"

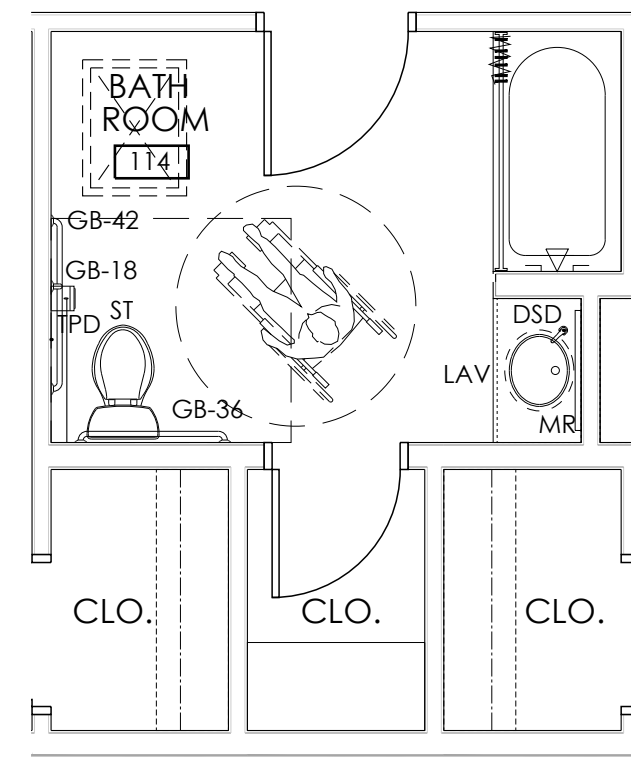
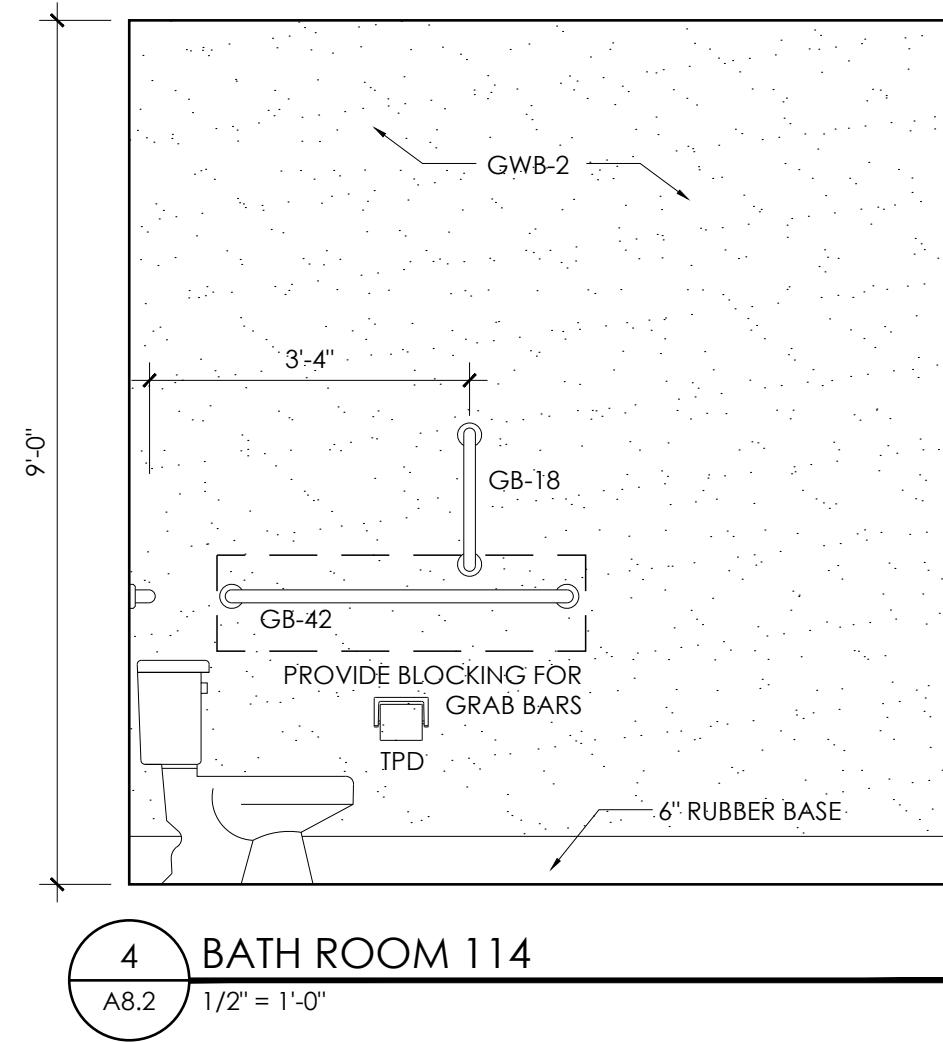
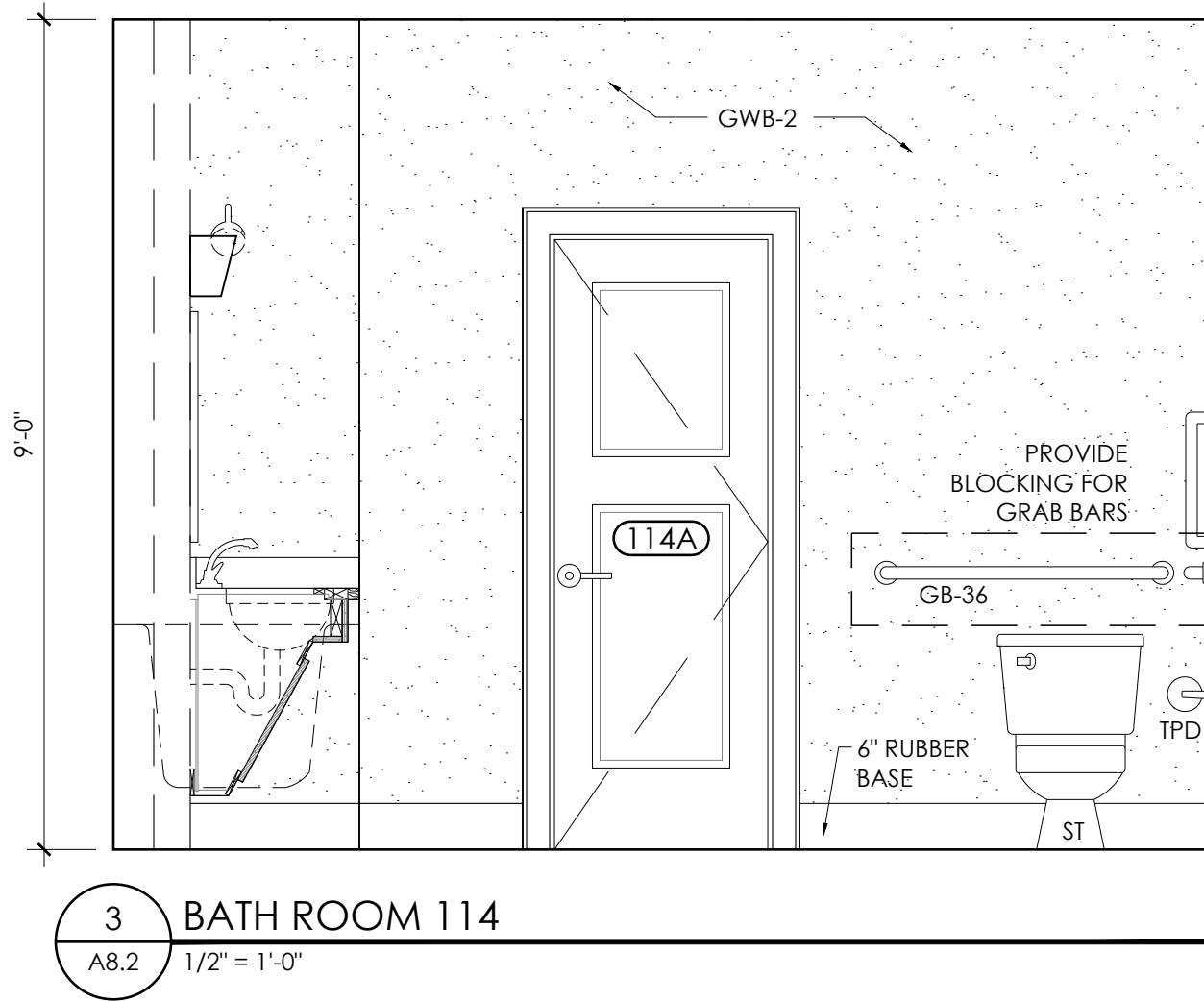
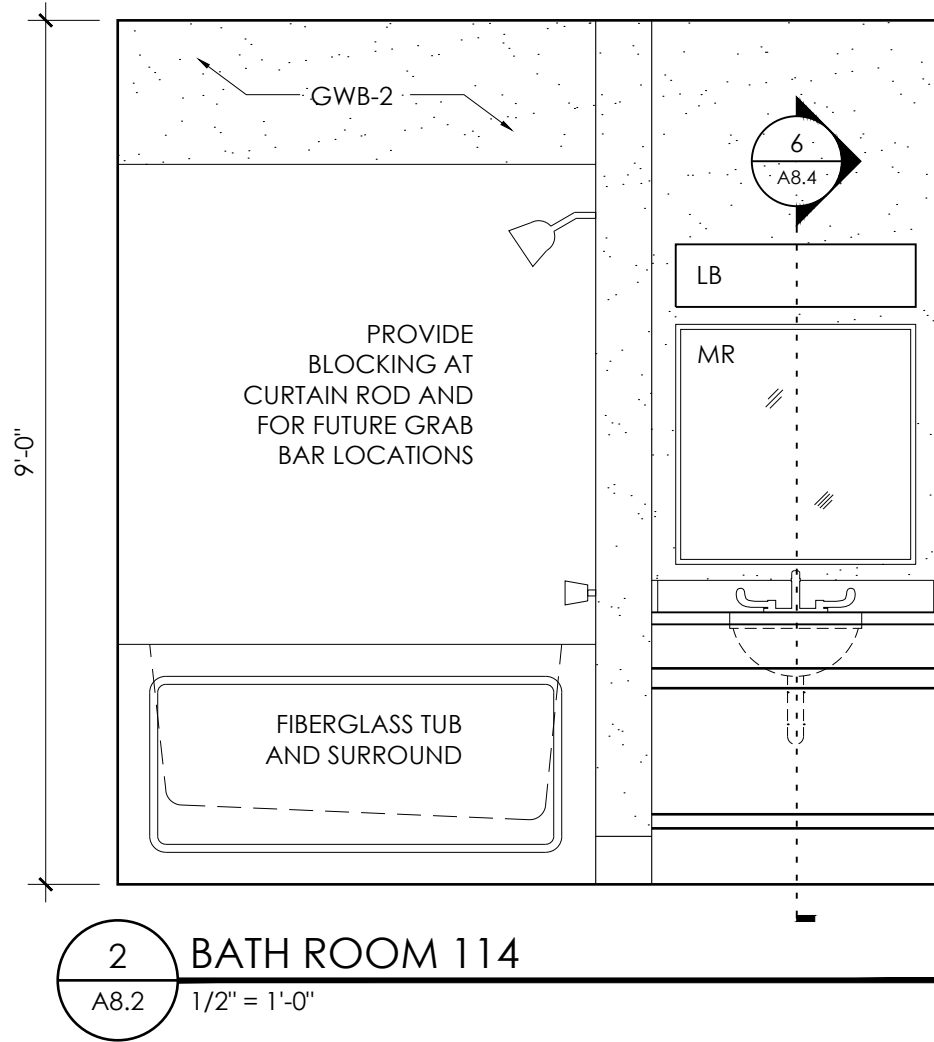
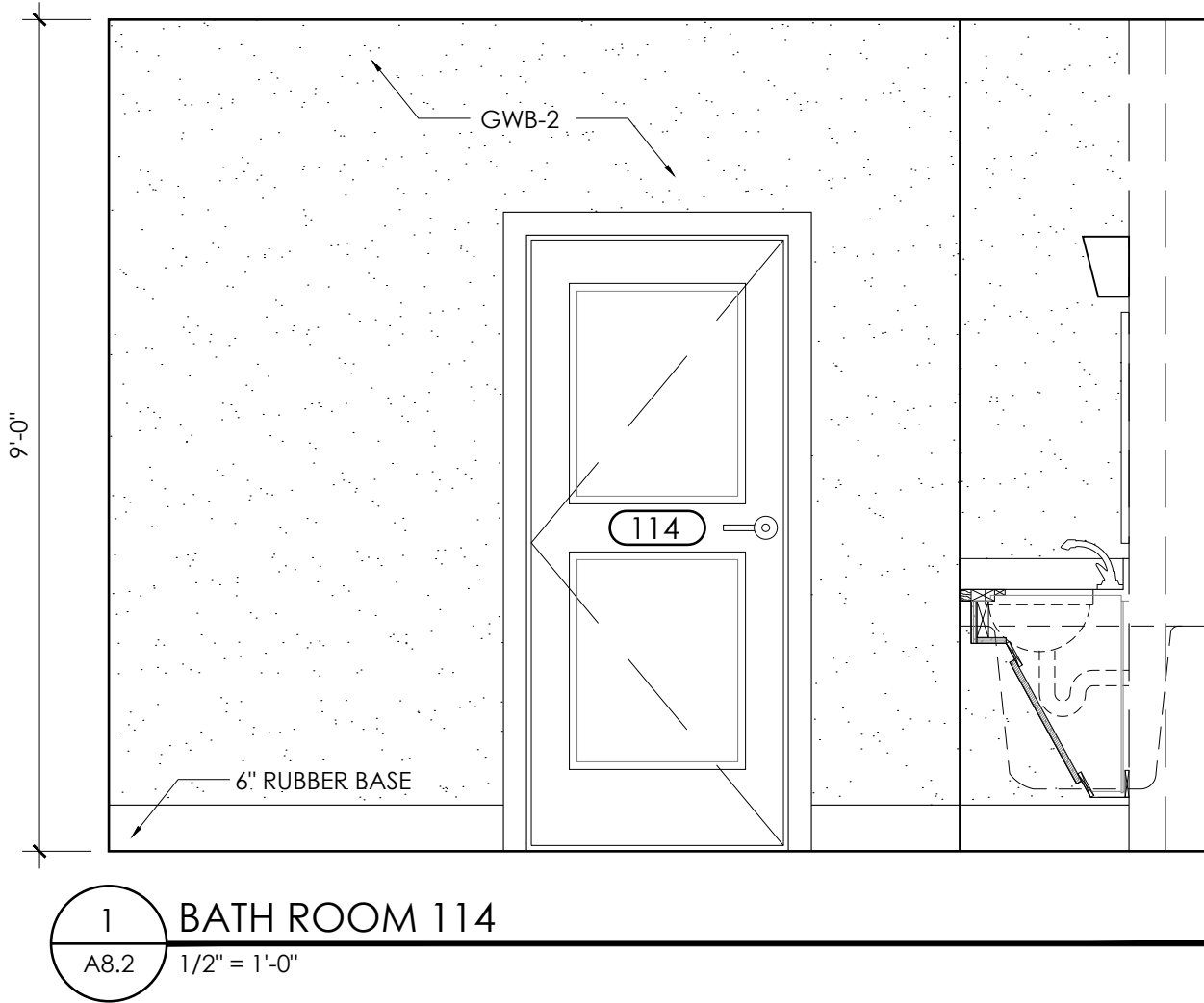
2
1
0
1 1/2"=1'-0"

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

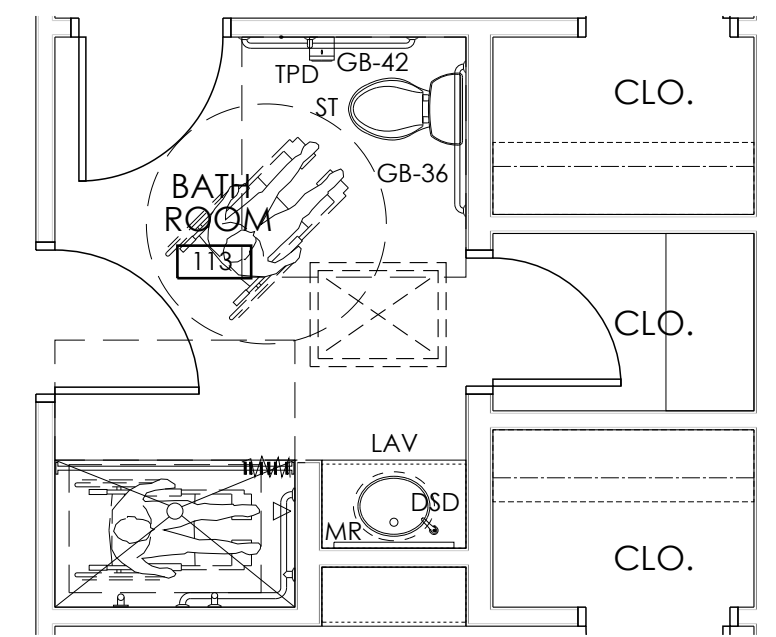
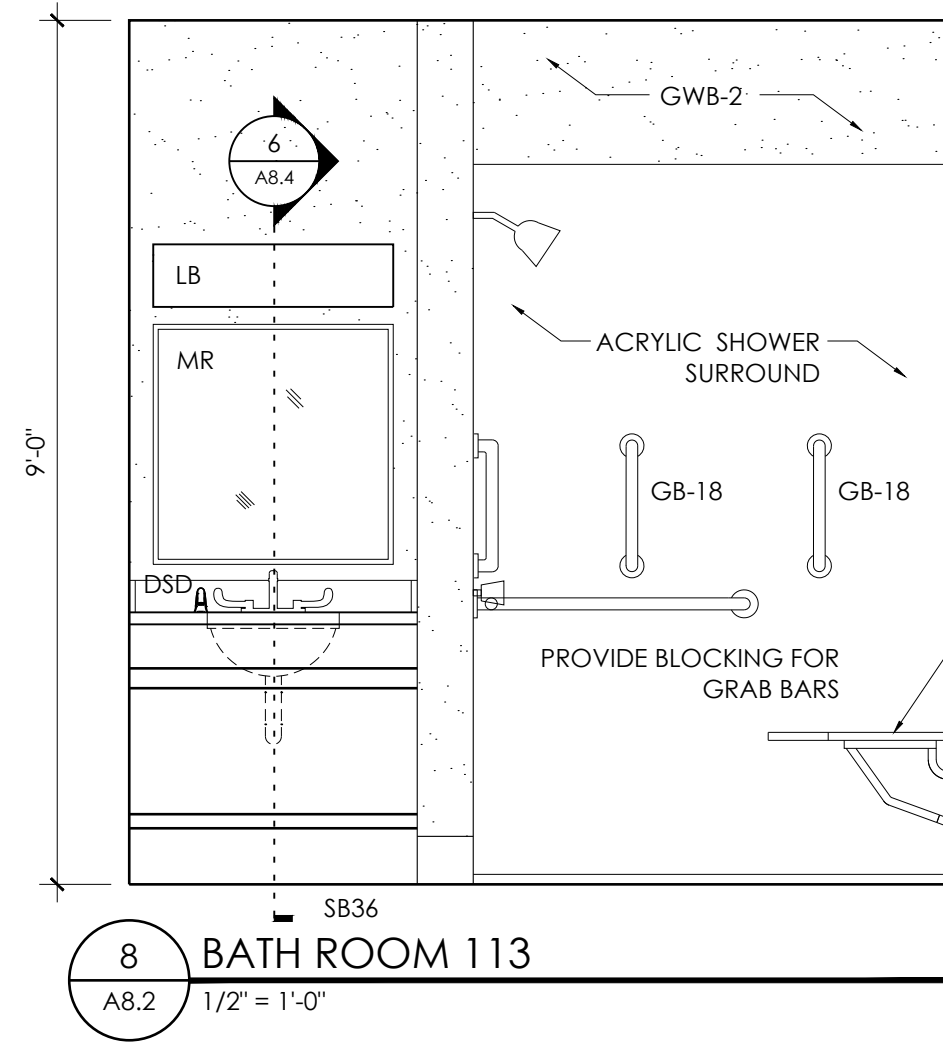
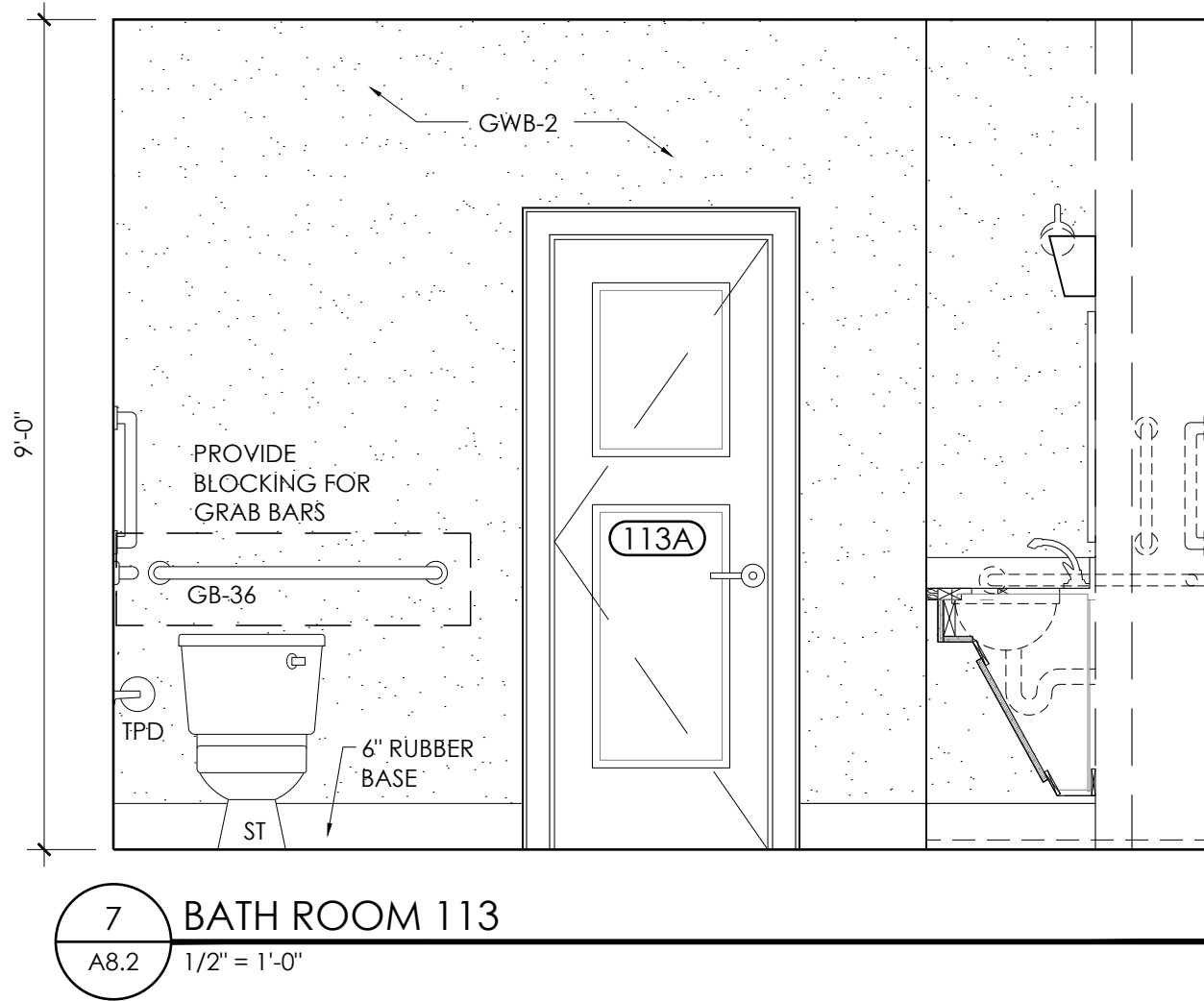
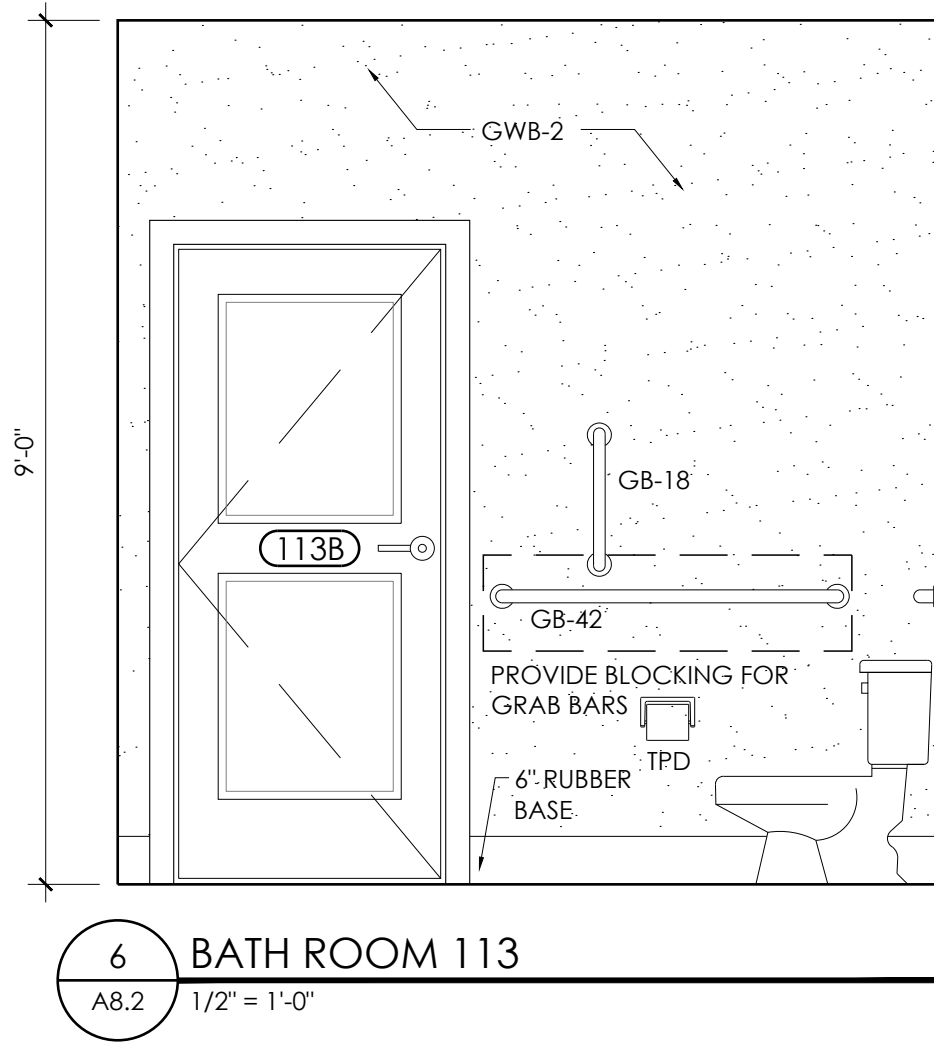
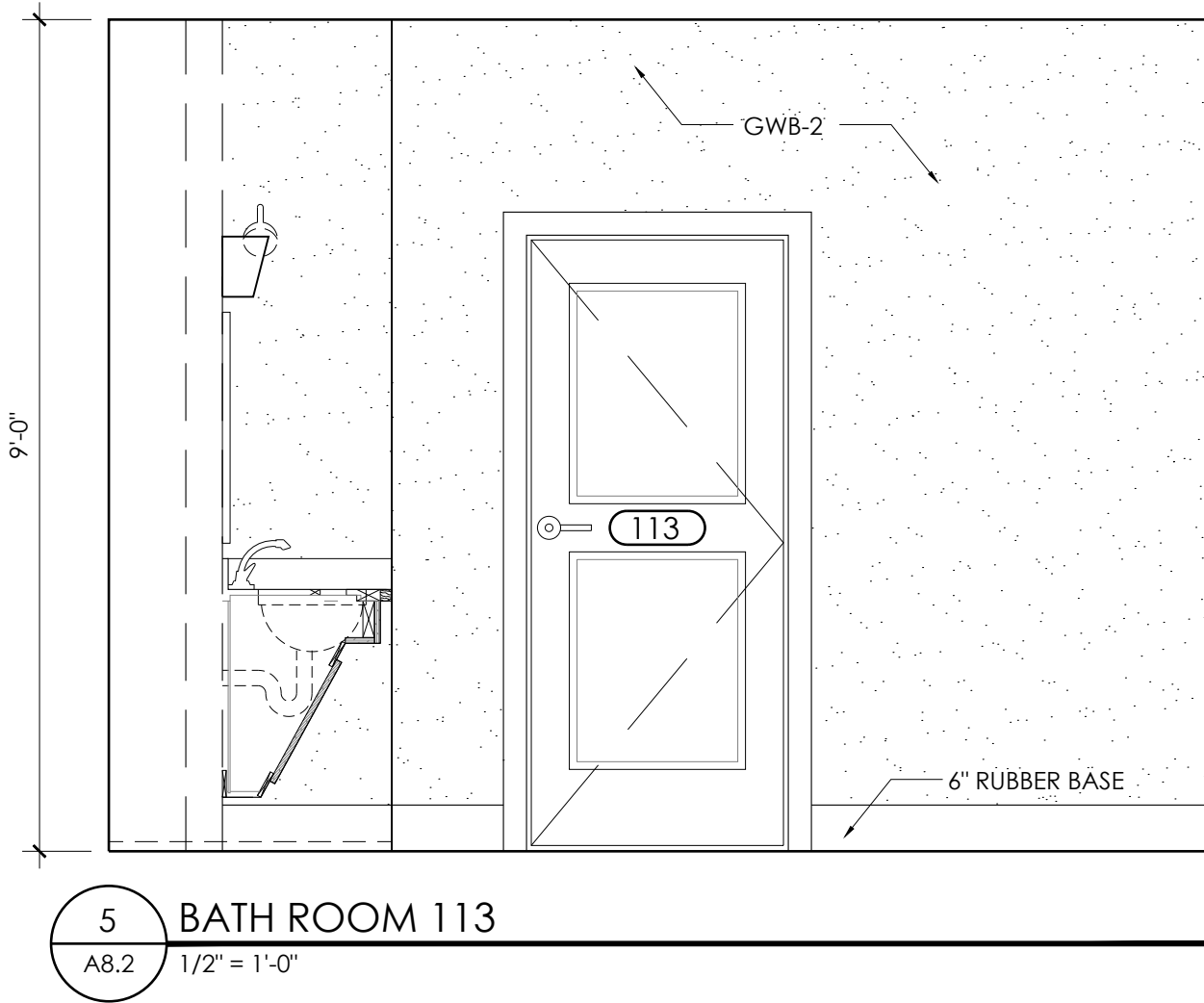
6
5
4
3
2
1
0
1 1/2"=1'-0"

8
7
6
5
4
3
2
1
0
1 1/2"=1'-0"

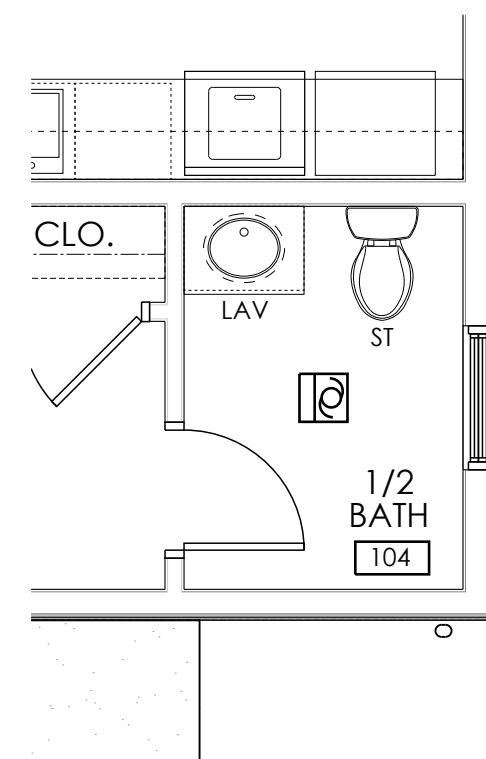
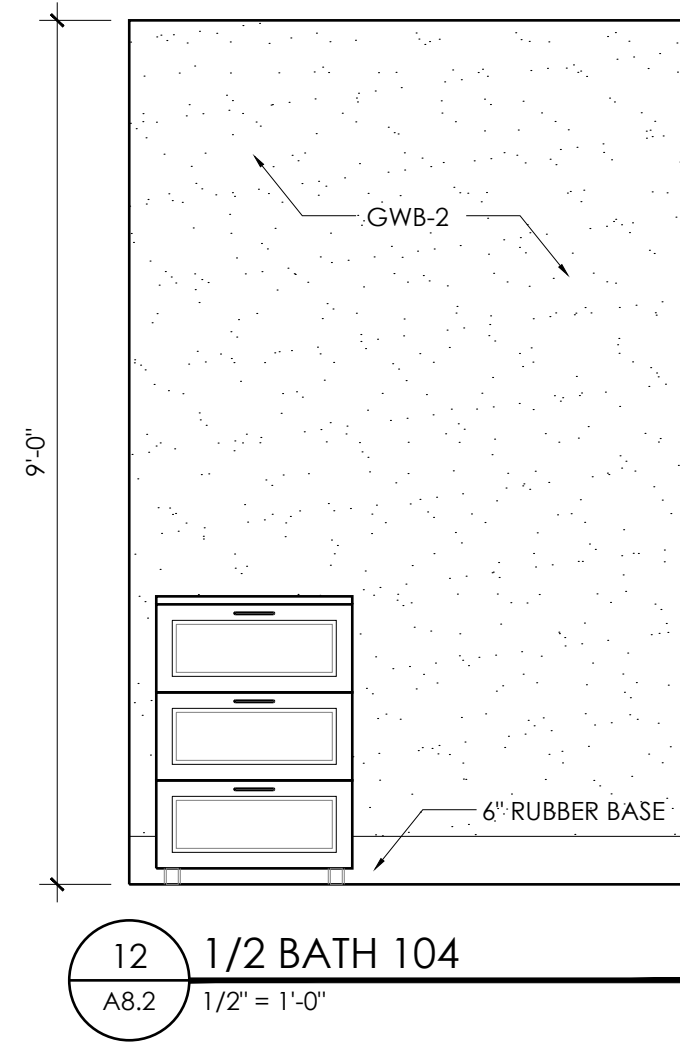
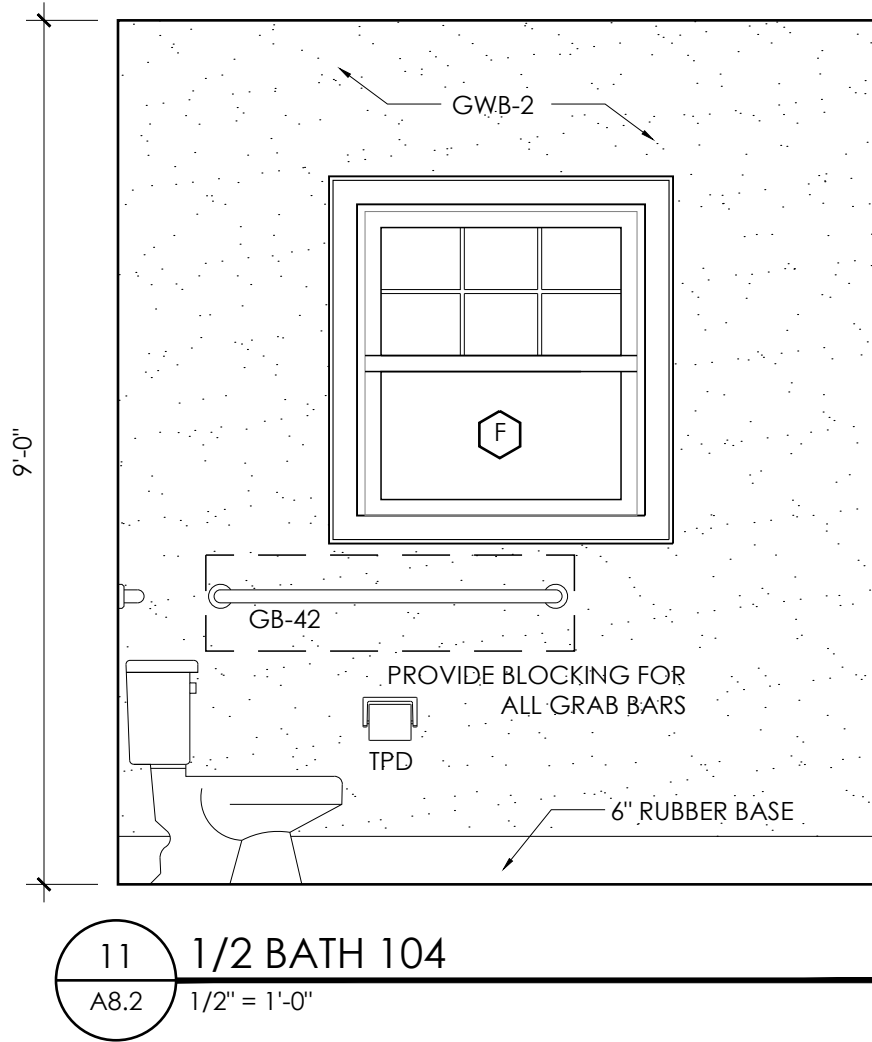
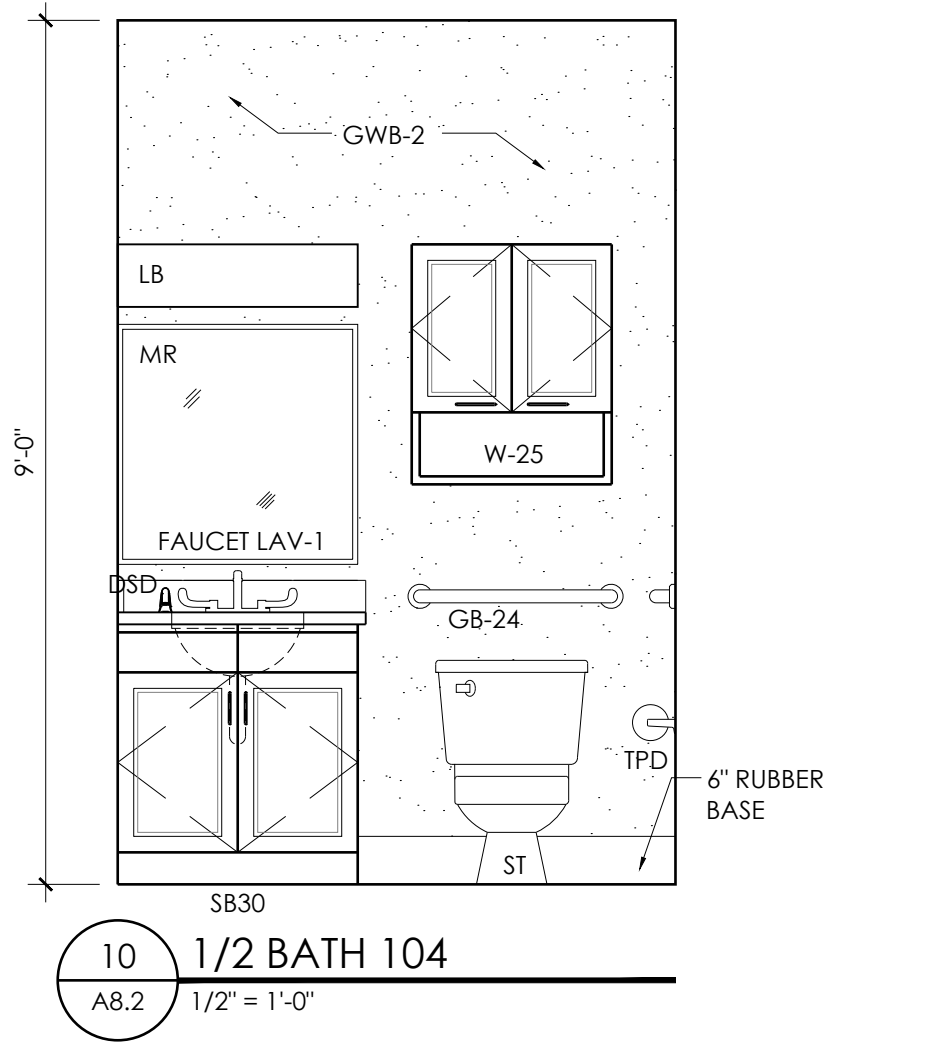
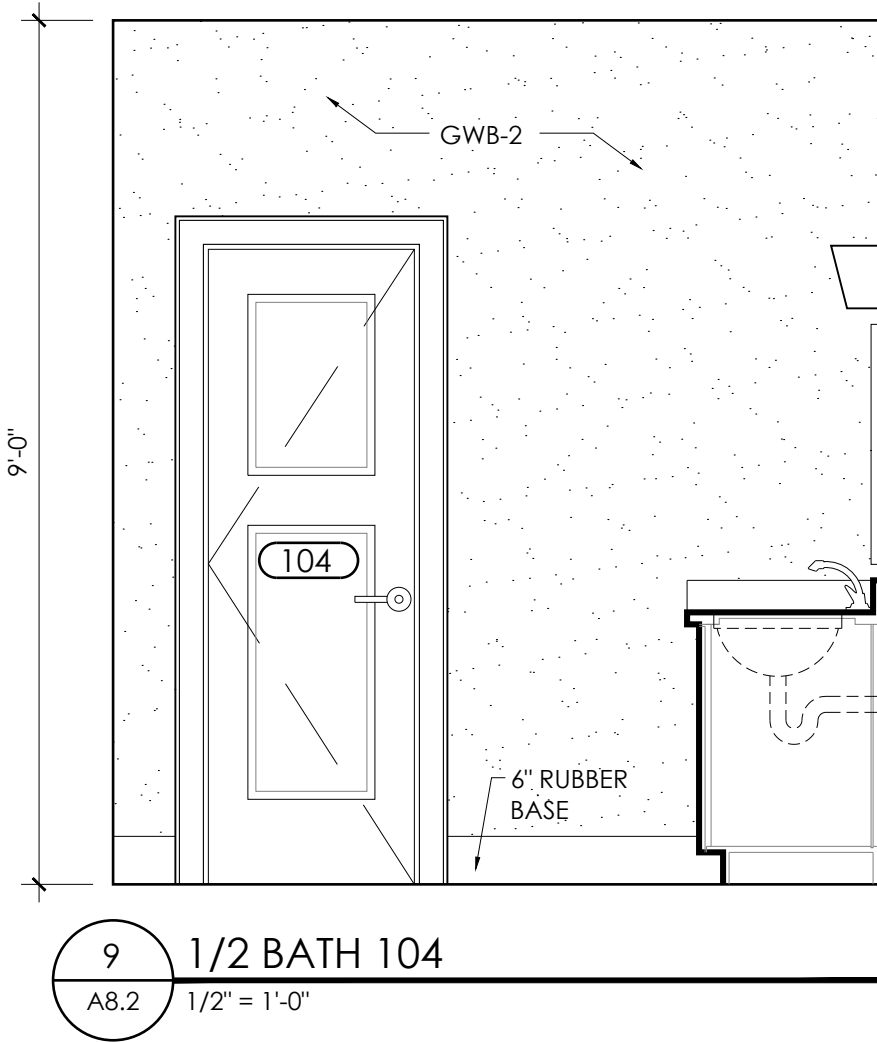
3/8"=1'-0"



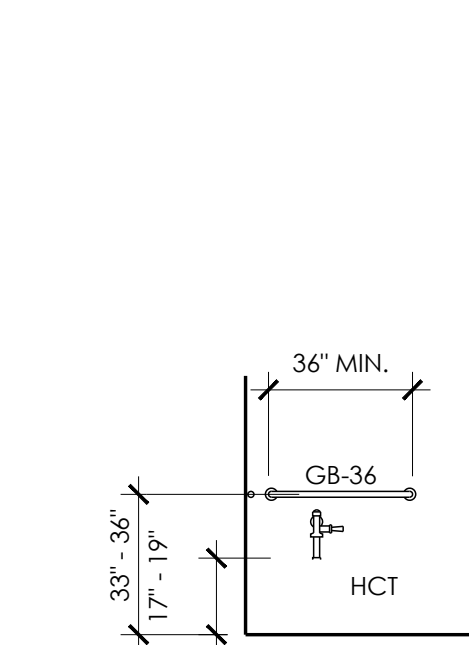
ENLARGED RR PLAN
1/4" = 1'-0"



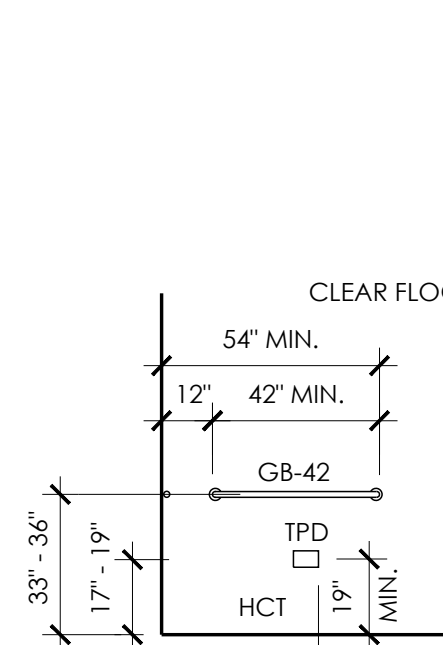
ENLARGED RR PLAN
1/4" = 1'-0"



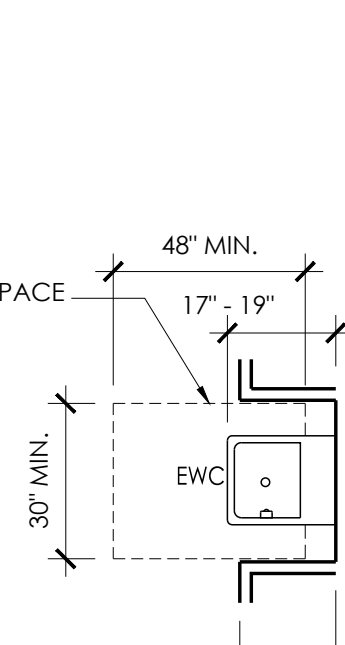
ENLARGED RR PLAN
1/4" = 1'-0"



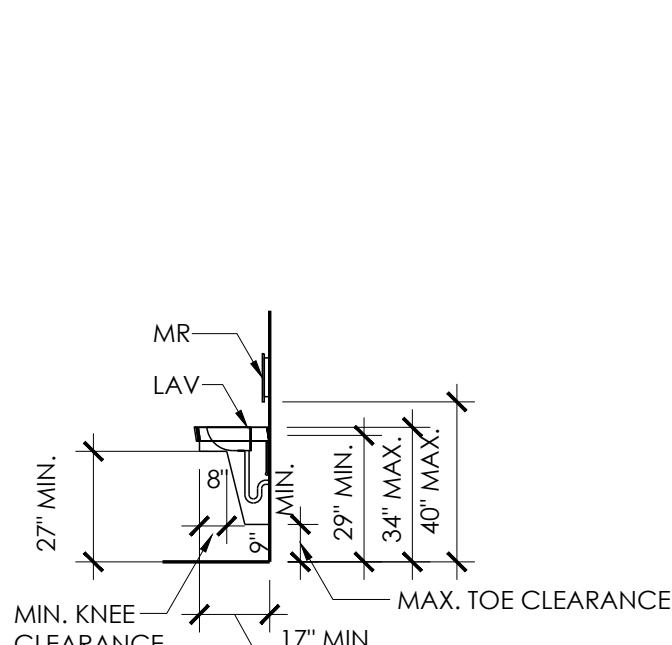
FRONT



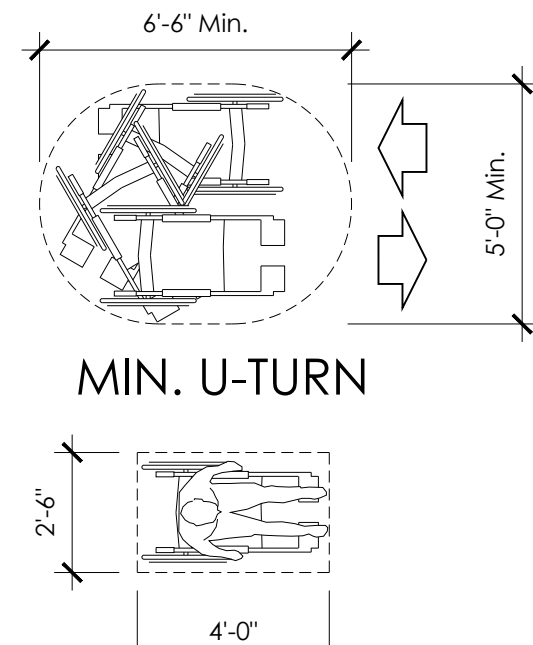
SIDE



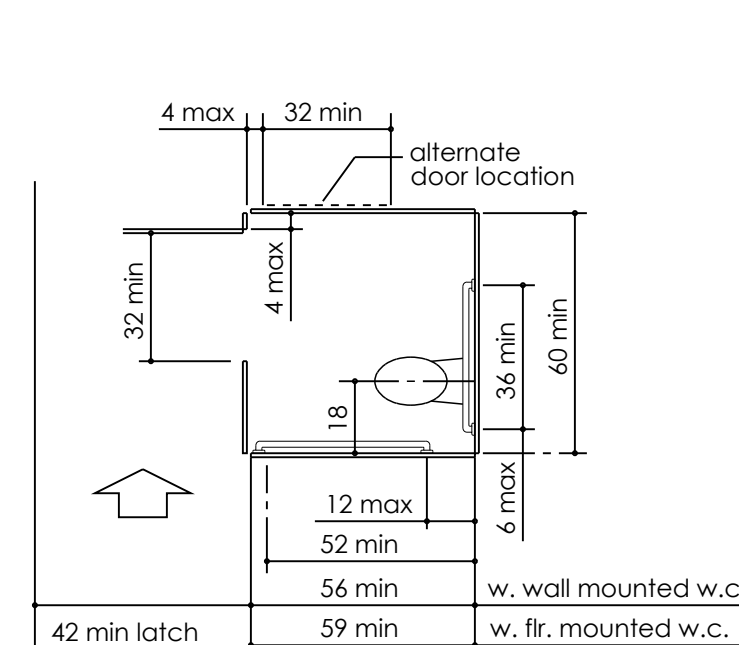
EWC FLOOR CLEARANCE



LAV MOUNTING HGT.



FLOOR CLEARANCE

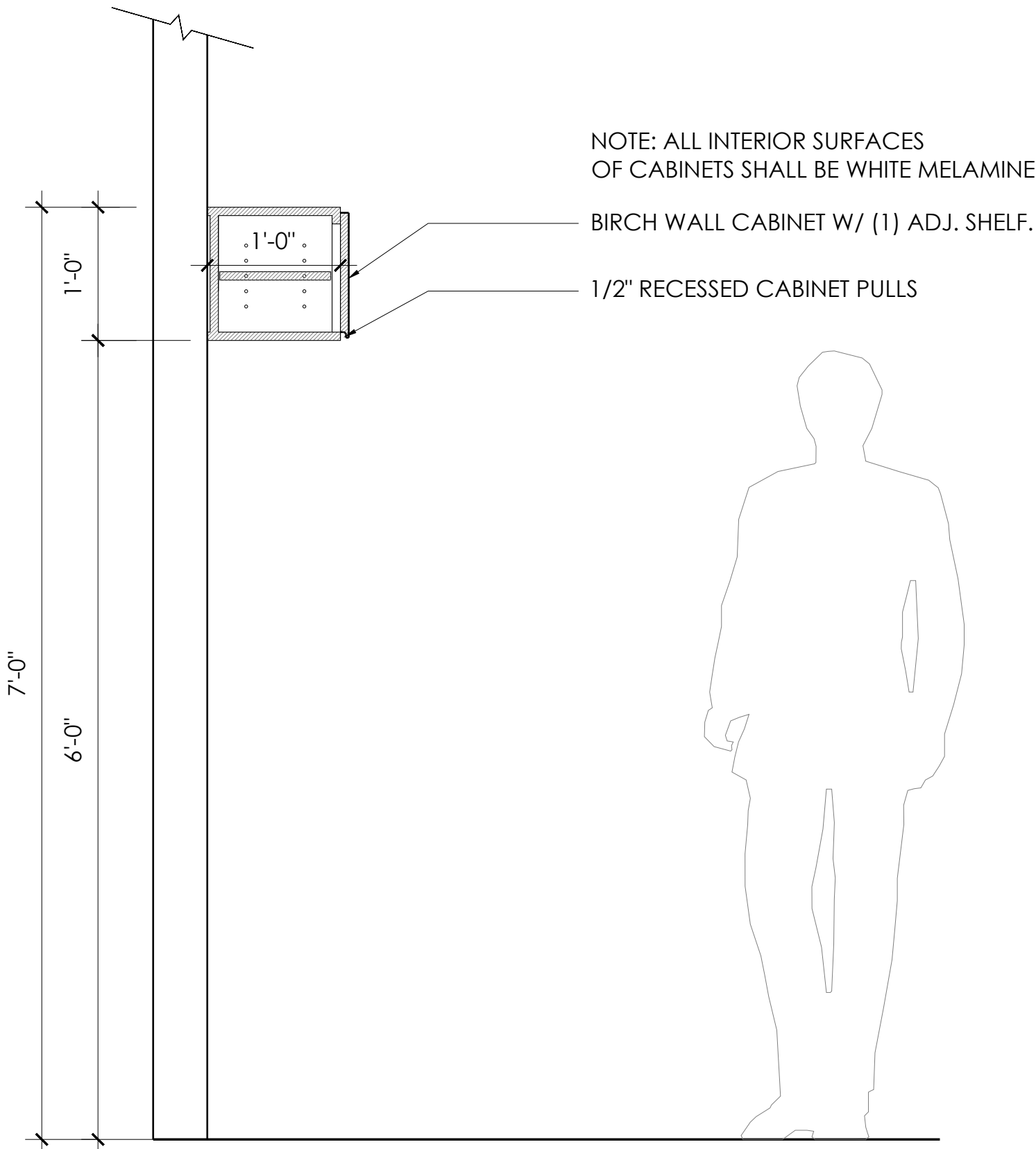


STANDARD STALL

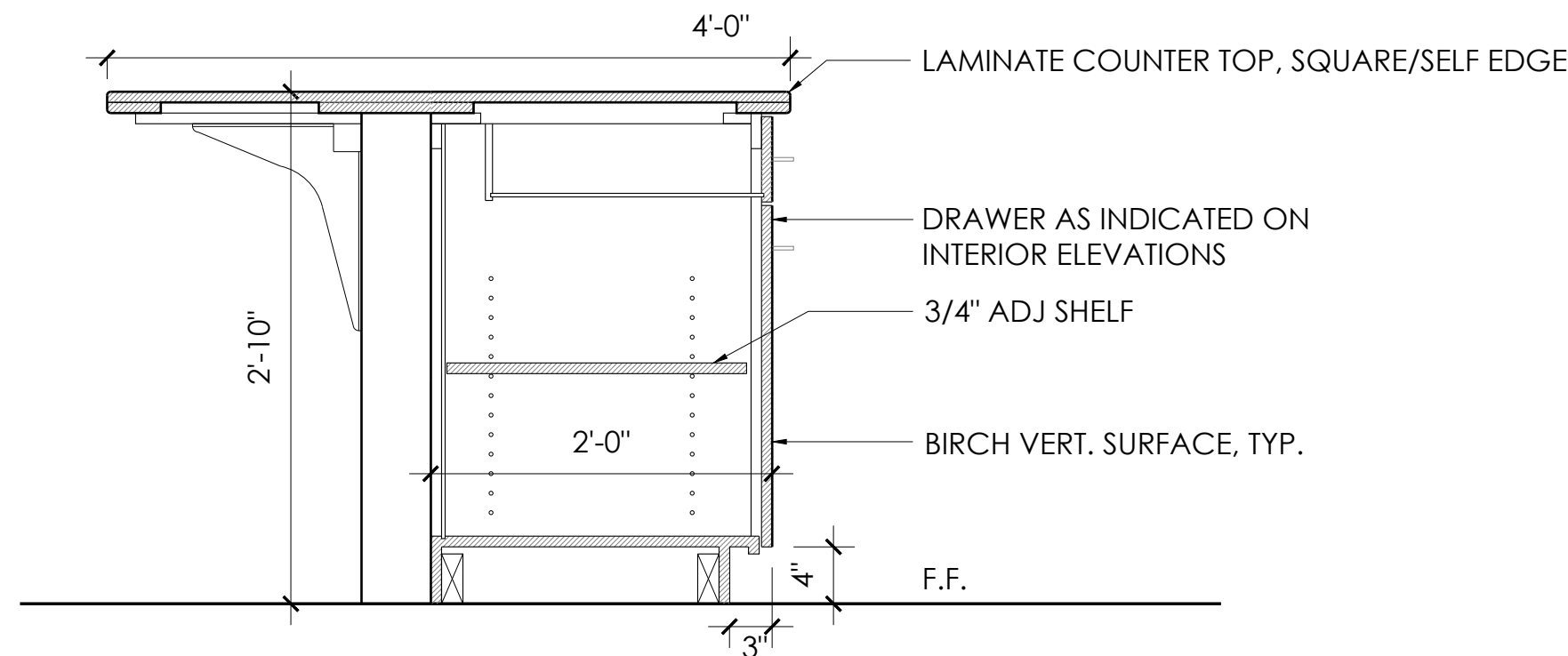
FIXTURE LEGEND / MOUNTING HGTS.			
MARK	DESCRIPTION	MNTG HGT	REMARKS
GBL1830	18"x30" "L" SHAPED GRAB BAR (ADA SHOWER)	34"	CENTERLINE
GBL2436	24"x36" "L" SHAPED GRAB BAR (ADA SHOWER)	34"	CENTERLINE
GB-18	18" GRAB BAR	42"	CENTERLINE BOTTOM ATTACHMENT
GB-24	24" GRAB BAR	34"	CENTERLINE
GB-36	36" GRAB BAR	34"	CENTERLINE
GB-42	42" GRAB BAR	34"	CENTERLINE
TPD	TOILET PAPER DISPENSER	19"	CENTERLINE
MR	MIRROR (30" X 30")	40"	BOTTOM
HCT	ACCESSIBLE TOILET	17"	TOP OF SEAT
ST	STANDARD TOILET	15"	TOP OF BOWL
LB	30" LIGHT BAR	80"	TOP OF CASING
SU	STANDARD URINAL	24"	TOP OF BOWL
LAV	LAVATORY	34"	TOP OF RIM
DSD	DECK MOUNTED SOAP DISPENSER	—	POSITION SPOUT OVER SINK
FD	FLOOR DRAIN	48"	CENTERLINE
WH	WALL HOOK	52"	CENTERLINE
HK	WALL HOOK (ADA)	48"	CENTERLINE
PTD	PAPER TOWEL DISPENSER	40"	POINT OF DISPENSING
FDB	FOLD DOWN BENCH	19"	TOP OF SEAT

NOTE: MOUNTING HEIGHTS TYPICAL FOR ALL TOILET ROOMS

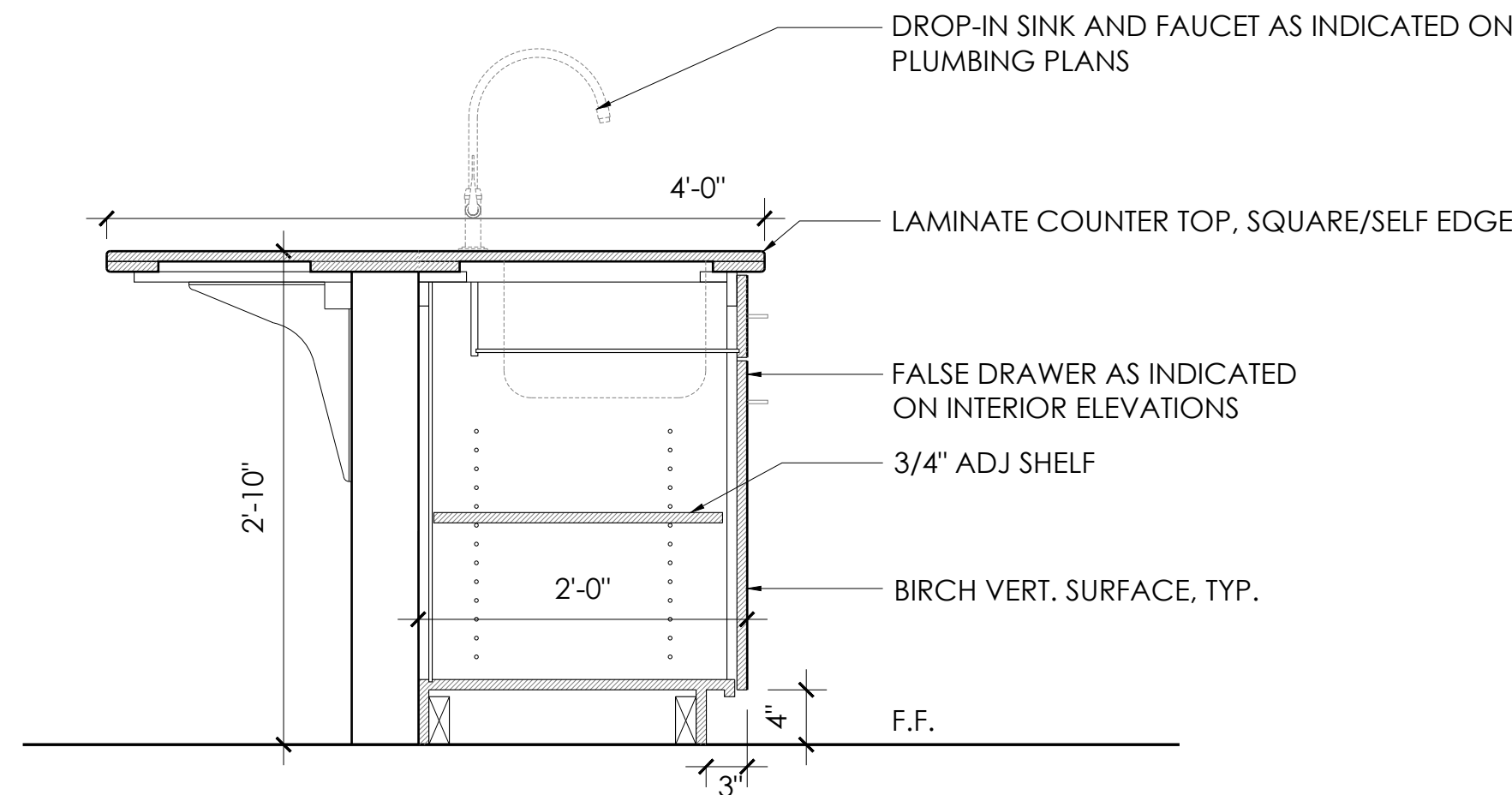
90
60
30
0 10 20 30
1"=30"
60
40
20
0 5 10 15 20
1"=20"
2
1
0
1 1/2"=1'-0"
4
3
2
1
0
3/4"=1'-0"
6
5
4
3
2
1
0
1 1/2"=1'-0"
8
7
6
5
4
3
2
1
0
3/8"=1'-0"



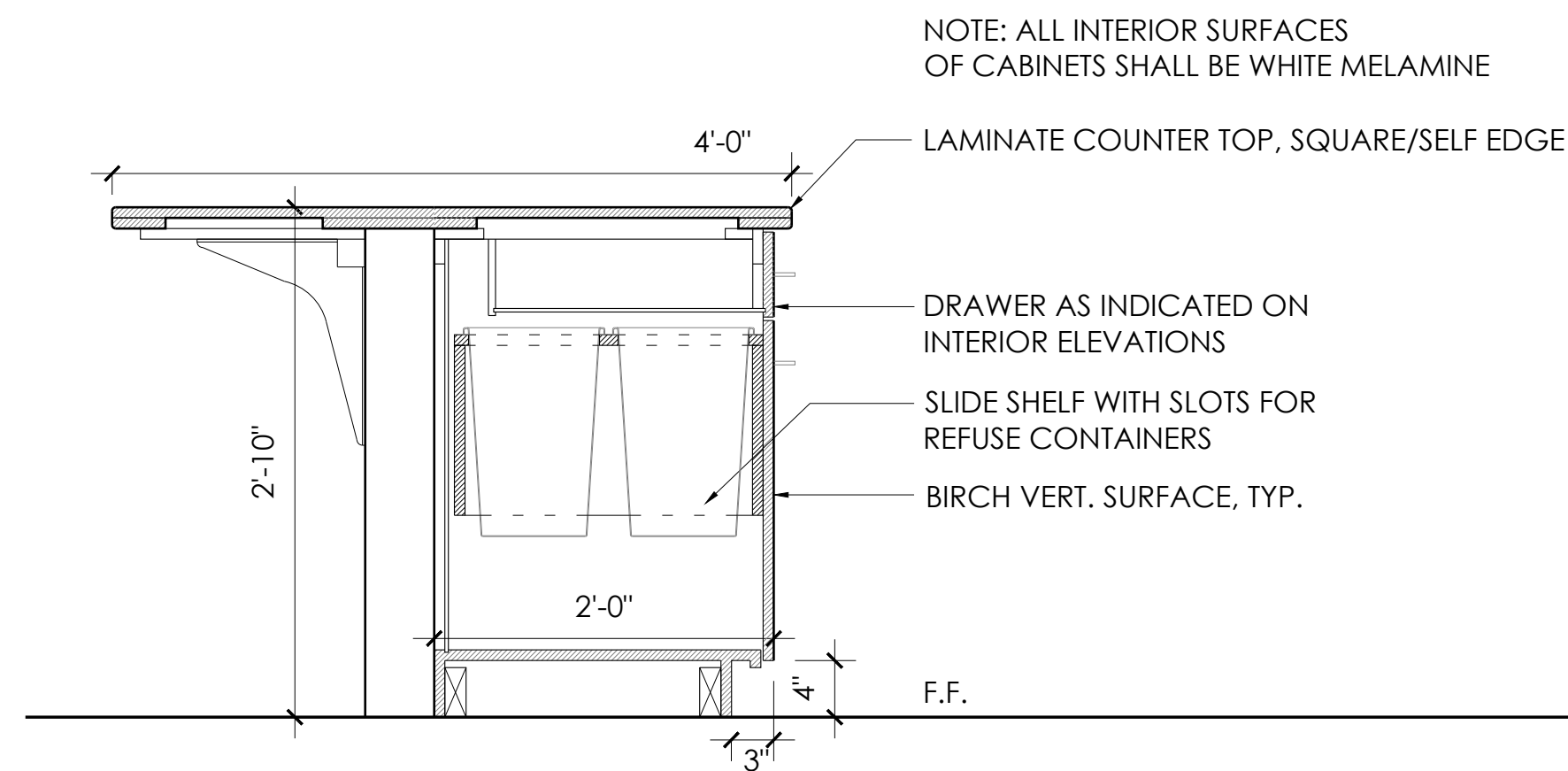
1 CASEWORK DETAIL
A8.4 1" = 1'-0"



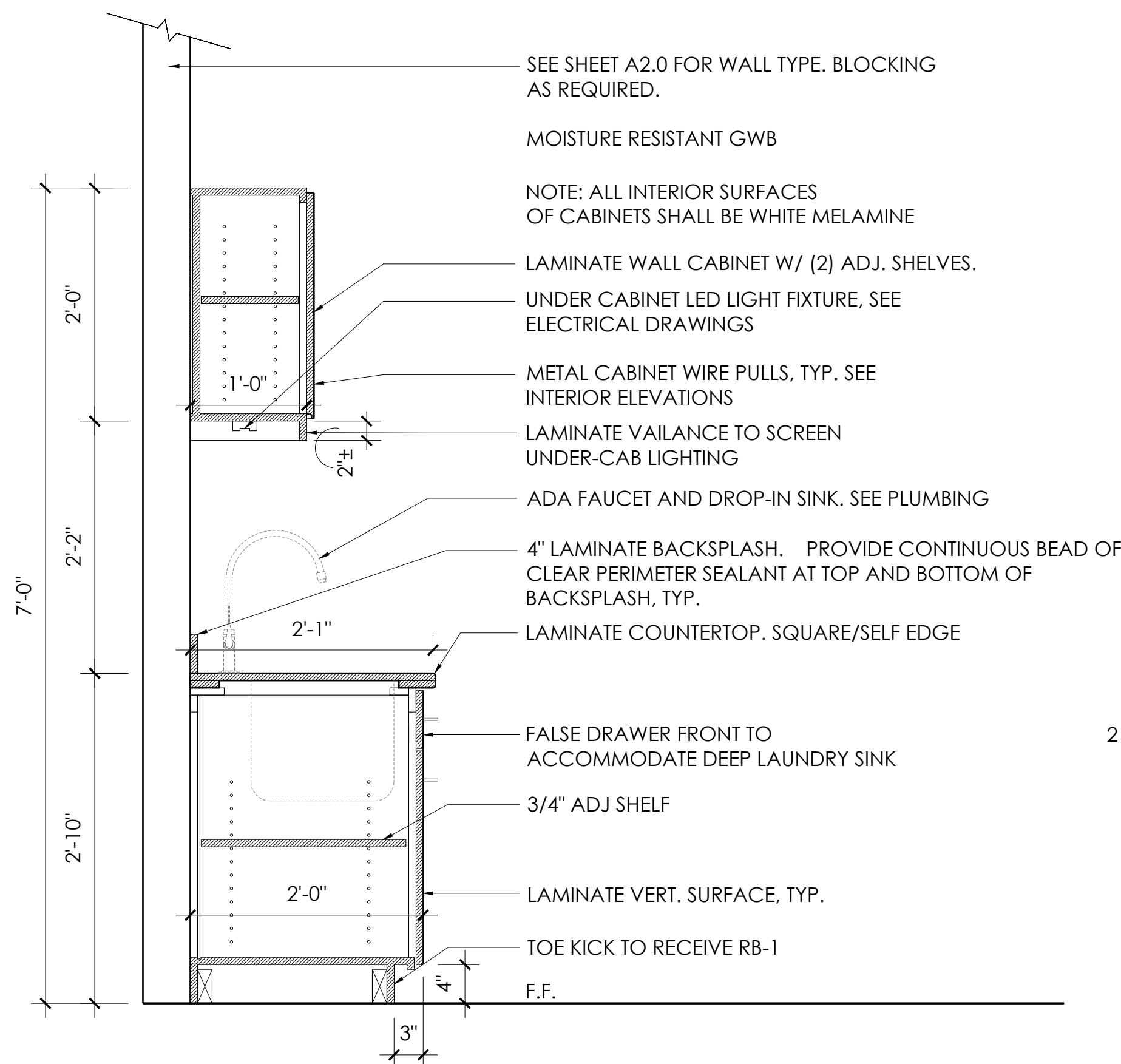
2 KITCHEN ISLAND
A8.4 1" = 1'-0"



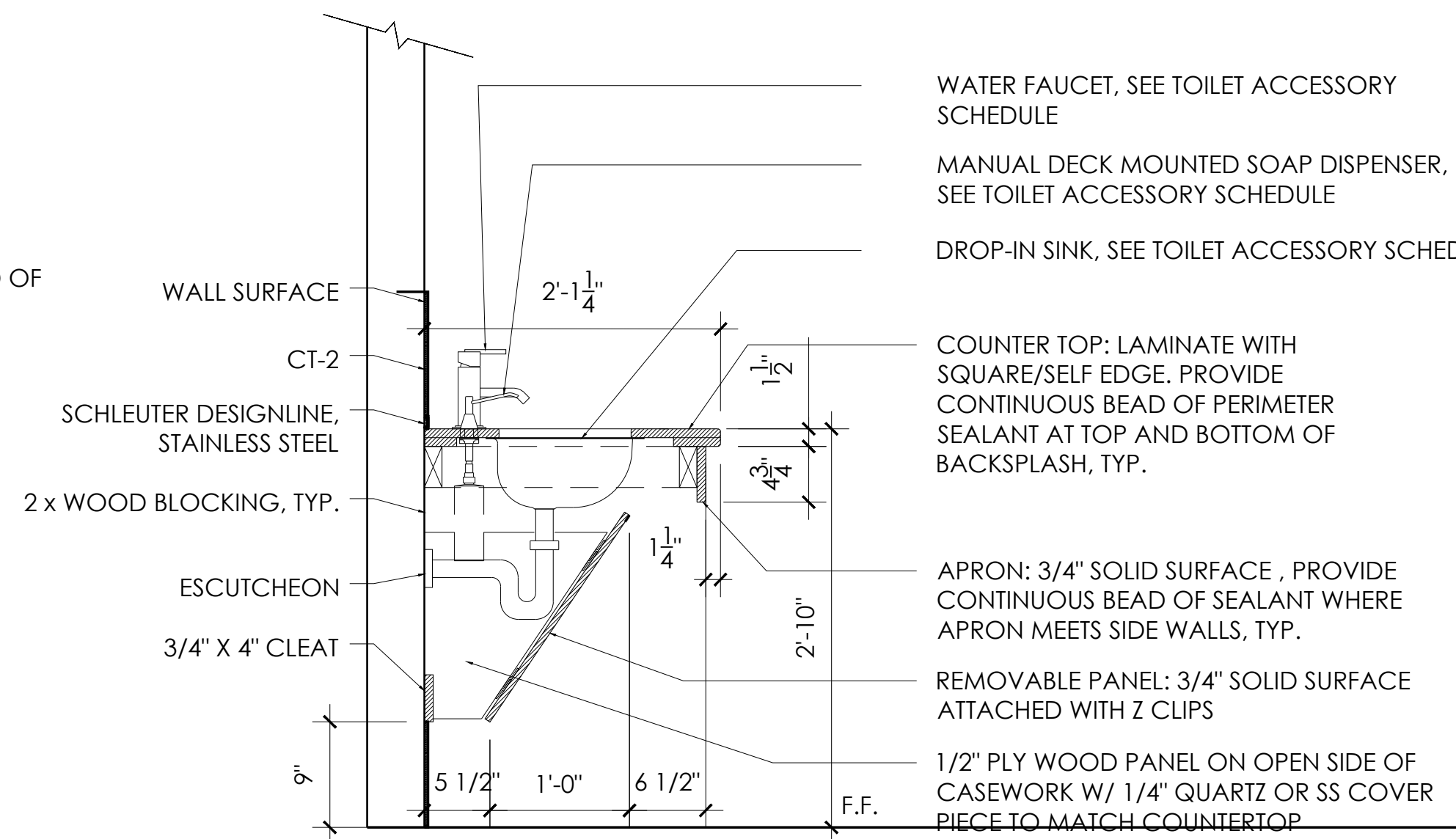
3 KITCHEN ISLAND
A8.4 1" = 1'-0"



4 CASEWORK DETAIL
A8.4 1" = 1'-0"



5 CASEWORK DETAIL
A8.4 1" = 1'-0"



6 VANITY
A8.4 1" = 1'-0"

**ESA**

Engineers, Surveyors & Associates, LLC
5353 Secor Rd., Toledo, Ohio, 43623 Phone (419) 475-9445



STATE OF OHIO
ANDREW
KNOPP
REGISTERED ARCHITECT
17352

Andrew R. Knopp License #1817352
Expiration Date 12/31/2021
NOT FOR CONSTRUCTION UNLESS SIGNED & SEALED

41 ISLAND VIEW AVENUE
ROSSFORD OH 43460

PROJECT TITLE:

10.22.2021	PERMIT & BID SET
------------	------------------

DATE	ISSUE / REVISION
------	------------------

DESIGNED: ACH

DESIGNED. ACT.

DRAWN: ACH/SJW

CHECKED: ARK

TPA COMMISSION NUMBER: 20026

DRAWING TITLE:

DOOR & WINDOW

DOOR & WINDOW

SCHEDULE/DETAIL

SCHEDULE/DETAILS

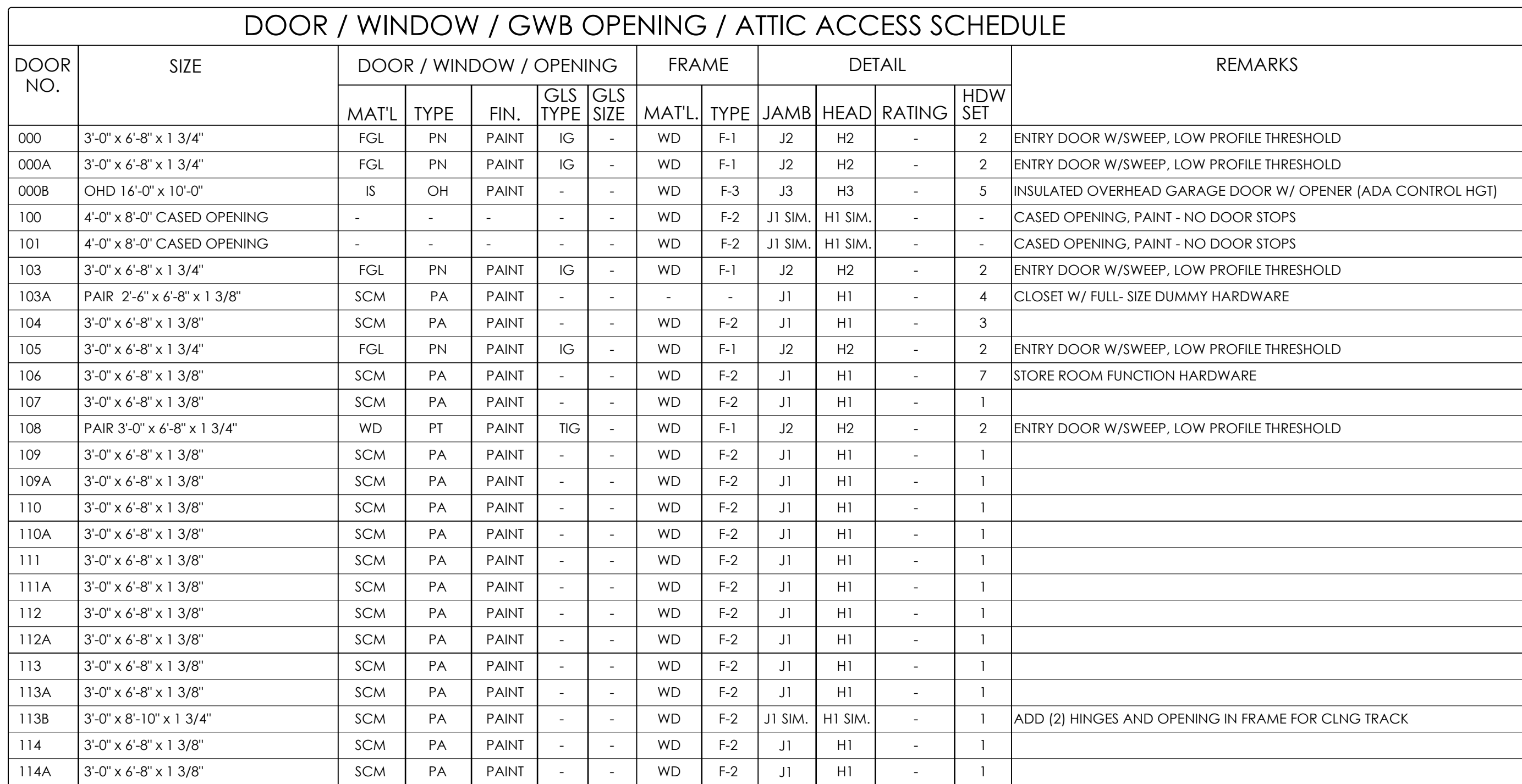
DRAWING NUMBER:

△ ○ ○

A7.0



SEE SHEET A7.0 FOR WINDOW SILL HEIGHTS



1. FIELD VERIFY ALL DOOR / JWDW MASONRY & ROUGH OPENINGS PRIOR TO ORDERING ANY MATERIALS.	6. ENTRY DOORS TO MEET OR EXCEED ALL CURRENT ENERGY-STAR REQ. / RATINGS. OWNER TO SELECT COLOR.
2. FIELD VERIFY ALL ROUGH OPENINGS PRIOR TO ORDERING ANY MATERIALS AND INSTALLATION. NOTIFY OWNER REPRESENTATIVE AND ARCHITECT/ENGINEER OF ANY DISCREPANCIES.	7. ALL EXTERIOR ENTRY DOORS TO HAVE LOW- RISE ADA THRESHOLDS. [MAX. RISE 1/2" W/ PROPER BEVELING]
3. ALL INT DOOR FRAME WIDTHS TO MATCH WALL THICKNESS (VARIES). ALL FRAMES PRIMED & CONTR PAINTED OWNER TO SELECT COLOR.	8. WINDOWS TO MEET OR EXCEED ALL CURRENT ENERGY-STAR REQ. / RATINGS.
4. THRU-DOOR VIEWERS TO BE 698 X 190 DEGREES. INCLUDE (1) PER EXTERIOR DOOR UNLESS EQUIPPED WITH TRANSPARENT LITES @ 60" AFF.	9. ALL CAVITIES OF NEW DOOR & WINDOW INSTALLATIONS IN EXIST. & NEW OPENINGS ARE TO BE THOROUGHLY INSUL. W/ DOOR AND WINDOW FOAM INSUL. & CAULKED W/ EXT. GRADE SILICONE SEALANT. (TYP.)
5. ALL INTERIOR DOOR AND WINDOW BASE AND CASINGS TO BE PRIMED & PAINTED. TRIM SHALL BE HIGH QUALITY, KILN DRIED STOCK, & MILLED PER INDUSTRY STANDARDS. TRIM SHALL BE FREE OF MACHINE OR CHATTER MARKS. ALL MITERS SHALL BE BLIND NAILED WHERE POSSIBLE. ANY WORK WHICH CHECKS, CRACKS, OPENS AT JOINTS, OR WARPS SHALL BE REMOVED & REPLACED. OWNER TO SELECT COLOR.	

1. PASSAGE LOCKSET - NON-HANDED ADA LEVER DESIGN, FULLY ADJ. LATCH, LIFETIME MECH. & FINISH WARRANTY ANS/BHMA GRADE 3, MEET 4.12.9 ADA REQ. [MIN. 3 5/8" LEVER OR APPROVED EQUL]
2. INTERCONNECTED ENTRY LOCKSET - LEVER DESIGN, WITH A SMALL FORMAT REMOVABLE CORE SYSTEM KEYPED TO OWNERS EXISTING KEYING SYSTEM ANS/BHMA GRADE 2, MEETING 4.12.9 ADA REQ., WITH LIFE TIME MECHANICAL WARRANTY [MIN. 3 1/8" LEVER OR APPROVED EQ.]
3. LOCK/PRIVACY LOCKSET - PIN & TUMBLER, SEE PASSAGE LOCKSET FOR STD SPECS & NOTES [OR APPROVED EQUL]
4. PAIR CLOSET DOORS PULL - FULL-SIZE DUMMY SET, SEE PASSAGE LOCK FOR STD SPECS & NOTES [OR APPR. EQ.]. COMPLETE BI-FOLD DOOR HARDWARE KIT - JOHNSON HARRINGTON 1825 [OR APPR. EQ.].
5. OVERHEAD DOOR TRUCK, CHAIN, SPRING, WEATHER STRIPPING ALL SIDES, AND OTHER MANUFACTURER RECOMMENDED COMPONENTS FOR A COMPLETE POWER OPERATED OPENING PACKAGE.
6. ATTIC ACCESS PANELS, CRAWLSPACE ACCESS PANELS, AND PLUMBING ACCESS PANELS LOCKABLE OR PROVIDED WITH SCREW DRIVER CAM LOCKS.

- A. INTERIOR DOOR STOPS TO BE WALL MOUNTED OR APPROVED EQUAL
- B. OWNER TO SELECT ALL FINISHES / COLORS & APPROVE ALL MATERIALS PRIOR TO ORDERING / INSTALLATION
- C. ALL HARDWARE MUST MEET ADA AND UNIVERSAL DESIGN STANDARDS
- D. ALL EXTERIOR ENTRY DOORS TO BE KEYED TO OWNER IC CORE MASTER SYSTEM OR AS DIRECTED
- E. ALL HARDWARE TO INCLUDE ALL NECESSARY ACCESSORIES, STRIKES, LATCHES, ESCUTCHEONS, TRIM, ETC.
- F. ALL INTERIOR DOORS TO HAVE MIN. OF 2 PLAIN BEARING BUTT HINGES 4 1/2" X 4 1/2", FINISH AS SELECTED.
- G. ALL EXTERIOR DOORS TO HAVE 3 PLAIN BEARING BUTT HINGES 4 1/2" X 4 1/2", FINISH AS SELECTED
- H. INCLUDE ADDITIONAL "ATTIC STOCK": UNOPENED, (1) PASSAGE LOCKSET AND (1) PRIVACY LOCKSET

SPECIFICATION NOTES:

1. MANUFACTURER AND CATALOG/SERIES NUMBERS SHOWN ARE A BASIS OF SPECIFICATION. ALTERNATES OR SUBSTITUTIONS MUST BE SUBMITTED TO OWNER/ARCHITECT 10 DAYS PRIOR TO BID FOR CONSIDERATION.

2. CONTRACTOR TO VERIFY ALL STYLES, COLORS, FINISHES, ETC. WITH ARCHITECT/OWNER PRIOR TO ORDERING ANY MATERIALS. SUBMIT 5 SETS/COPIES OF SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING ANY MATERIAL.

3. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO ORDERING ANY MATERIALS.

4. CONTRACTOR TO INSTALL/APPLY ALL FINISHES PER MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS.
5. ALL FLOORING PRODUCTS MUST BE LABELED BY INDEPENDENT LABORATORY TESTED AND CERTIFIED GREEN SEAL OR GREEN SEAL PLUS.

6. ALL CARPET PAD PRODUCTS MUST BE LABELED BY INDEPENDENT LABORATORY TESTED AND CERTIFIED GREEN SEAL OR GREEN SEAL PLUS.

7. CLEAN AND FINISH ALL VINYL AND VCT PRODUCTS IN ACCORDANCE TO MANUFACTURERS RECOMMENDATIONS.

FINISH / PRODUCT LEGEND WOOD CO. DD RESPITE											
CABINETRY	INSULATED ATTIC SKUTILE		PAINT PRIMER	EXTERIOR DOORS/HARDWARE	SHOWER CURTAIN ROD		SINK**	TOILET TOPPER CABINET	WALL PROTECTION		
FACE FRAME:	3/4" x 1-1/2" HARDWOOD	MFR: MARWIN COMPANY	WOOD/MDF PRIMER/ALL AREAS	MFR: JELDWEN SERIES MDF	TUB/SHO-1 (ALL BATHROOMS)		SNK-1 (KITCHEN)	BATHROOM & POWDER ROOM	HALLWAYS, LIVING ROOM, KITCHEN		
BACK:	DOWELED GLUED & SCREW 1/4" MDF BACK, FRAMED & DADO TO ENDS	NUMBER: THERMABLOC 22" X 30"	INTERIOR LATEX PRIMER SEALER	PRIMED, PREHUNG DOOR	MFR: BOBRICK B-207 18-8, TYPE 304 20 GA. STAINLESS STEEL		MFR: DAYTON 'ELITE' DSE23322-1 SELF RIM, STAINLESS STEEL, 8" DEEP, 2 COMPARTMENT	RECESSED (IN-WALL)	RECESSED (IN-WALL)		
FLR BRACE:	3/4" SOLID WD	FINISH: PRIMED/PAINTED IN FIELD	MFR: SHERWIN-WILLIAMS OR ARCHITECT APPROVED EQUAL	SPLIT JAMB FRAMES, FACTORY DRILLED FOR LEVER TYPE HANDLES. SEE FINISH SCHEDULE	FINISH: SATIN		NOTES: ONE HOLE PUNCHING, SINK STRAINER SCHAUL 1133 SS DUO SINK	MFR: ZENITH MP109 OR APPROVED EQUAL	MFR: ACROVYN (C-S GROUP) OR APPROVED EQUAL		
TOE KICK:	(3) PIECE 3/4" TREAT, PINE	NOTES: INSULATED TO R-38 MINIMUM	COLOR: TINT SAME AS PNT-1/PNT-2		NOTES: BLOCKING REQ'D AT ALL MOUNTING POINTS			COLOR: OWNER TO SELECT	COLOR: OWNER TO SELECT		
SUPPORTS:	3/4" x 1-3/4" SOLID WOOD							NOTES: (2) FIXED SHELVES	NOTES: TRIM TOP OF PANELS (@ 36") WITH 5/16" FLAT WAINSCOTT TOP TRIM		
SHELF:	1/2" PLYWD W/ EDGE BANDING	COUNTERTOPS	GWB PRIMER	NOTES: SCHLAGE ACC619 FOR DOOR LEVERS AND HINGES, BRUSHED ALUMINIUM FINISH	WATER CLOSET**		SNK-2 (BATHROOMS)	LVT			
DRWRS:	STD DEPTH, DADOED SIDES & ENDS, 75# RATED, DUAL STL. BALLBEARING, SIDE MOUNT GLIDES	KITCHEN (25" TOP DEPTH & 4" SPLASH)	MFR.: ALL AREAS EXCEPT BATHROOM		TOL-1		MFR: KOHLER 'FARMINGTON'	LVT-1 INTERFACE 25CM X 1M PLANK STYLE: "NATURAL WOODGRAIN"	SHIPLAP WALL PANELING		
HINGES:	SEMI-CONCEALED, WRAP AROUND	MFR: POST FORM LAMINATE SQUARE/SELF FRONT EDGE, WHICH RETURNS BACK TO CAB FACE OR APPROVED EQUAL	MFR.: SHERWIN-WILLIAMS INTERIOR LATEX PRIMER SEALER	TUB-1 (BATHROOM 114)	MFR: KOHLER 'HIGHLINE' CLASS FIVE MODEL K-3979 ELONGATED BOWL, 1.6 GPF. OR ARCHITECT APPROVED EQUAL		FINISH: DROP-IN, CAST IRON, 8" DEPP, OVAL BASIN, OVERFLOW DRAIN	COLOR: AS SELECTED BY ARCHITECT	SPR-1 (LIVING ROOM WALL) SHIP-1 DIMENSIONS RUSTIC WALL PLANK OR APPROVED ALTERNATE 4-IN. X 2-FT. PINE WALL		
RAIL:	SOLID WD 3/4" x 3-1/2", TOP/BOTTOM	COLOR: OWNER TO SELECT	COLOR: TINT 3/4 OF PNT-1/PNT-2	STERLING 32" X 60" X 74" THREE PIECE	COLOR: WHITE		NOTES: ADA COMPLIANT	LVT-2 INTERFACE 25CM X 1M PLANK STYLE: "DRYWN LINES" COLOR: AS SELECTED BY ARCHITECT	FLANK		
COLOR:	NATURAL MAPLE	GWB	PAINT FINISH COAT	NOTES: VERIFY FIXTURES AND DRAIN END PRIOR TO ORDERING	ADA SHOWER**		SNK-3 (LAUNDRY ROOM) MFR: KOHLER 'GLEN FALLS' K-19017-3-0	WINDOW STOOLS	FINISH: OWNER TO SELECT		
MANFR:	SMART CABINETS OR ARCHITECT APPROVED EQUAL	GWB-1 MFR: USG OR APPROVED EQUAL 4/4"-1/2" X 1/2" GYPSUM BOARD	INTERIOR FINISH (PNT-1)	NOTES: ADA SHOWER**	SHOWER-1 (BATHROOM 113)		FINISH: TOP-MOUNT, CAST IRON, 13" DEEP, SINGLE BOWL	ALL ROOMS	NOTES: ADHERE TO WALL WITH NAILS OR SCREWS		
		NOTES: 1/2" ON ALL WALLS, 5/8" ON CEILINGS/RATED WALLS, ORANGE PEEL FINISH FOR ALL SURFACES	-FIELD COLOR AREAS AS NOTED- WOOD/MDF BASE AND TRIM- MFR: SHERWIN-WILLIAMS SEMI-GLOSS LATEX ENAMEL	SHOWER-1 (BATHROOM 113)	MFR: FREEDOM SHOWERS OR APPROVED ALTERNATE 32" X 60" X 74" FIVE PIECE WHITE		NOTES: 27" MIN. BASE CABINET WIDTH	1/2" SOLID SURFACE FORMICA OR APPROVED EQUAL	KITCHEN APPLIANCES		
BASE*			COLOR: SW7103 WHITETAIL	NOTES: ADA SHOWER**	COLOR: WHITE			PROFILE: OWNER TO SELECT	DELIVERED TO SITE BY OWNER, INSTALLED BY CONTRACTOR (NON TILT INSTALLATION WHERE APPLICABLE TYPICAL)		
WD-1 MFR:	NOMINAL 6" MDF BASE	GWB-2 MFR: USG OR APPROVED EQUAL 4/4"-1/2" X 1/2" GYPSUM BOARD	INTERIOR FINISH (PNT-2)	SHOWER-1 (BATHROOM 113)	COLOR: WHITE			PROFILE: OWNER TO SELECT	RANGE		
PROFILE:	CRAFTSMAN	NOTES: 1/2" MOLD AND MOISTURE RESISTANT ON ALL WALLS AND CEILINGS,ORANGE PEEL FINISH FOR ALL SURFACES	-BATHROOMS/POWDER ROOMS- MFR.: SHERWIN-WILLIAMS SEMI-GLOSS LATEX EPOXY	NOTES: VERIFY FIXTURES AND DRAIN END PRIOR TO ORDERING	SHOWER HEAD/FAUCET			TOILET PAPER HOLDER	MICROWAVE		
FINISH:	PRIMED/PAINTED		COLOR: SW6477 TIDEWATER	NOTES: ADA SHOWER**	TUB/SHO-1 (BATHROOMS)			ALL BATHROOMS	REFRIDGERATOR		
RB-1 MFR:	ROPPE - PINNACLE		INTERIOR FINISH (PNT-3)	SHOWER-1 (BATHROOM 113)	MFR: KOHLER 'CORALAIS' RITE-TEMP SINGLE HANDLE MODEL K-115601-4			MFR: BOBRICK B-2730	DISHWASHER		
PROFILE:	6" STANDARD TOE		-ACCENT COLOR AREAS AS NOTED- MFR: SHERWIN-WILLIAMS SEMI-GLOSS LATEX ENAMEL	NOTES: ADA SHOWER**	MFR: KOHLER 'CORALAIS' MODEL K-15583-F .5 GPM, ADA COMPLIANT, EPA WATERSENSE LABEL CHROME			FINISH: SATIN	MICROWAVE/HOOD		
FINISH:	170 WHITE		COLOR: SW6477 TIDEWATER	NOTES: ADA SHOWER**	MFR: KOHLER 'CORALAIS' MODEL K-15583-F .5 GPM, ADA COMPLIANT, EPA WATERSENSE LABEL CHROME			NOTES: BLOCKING REQ'D AT ALL MOUNTING POINTS			
TRIM*	INTERIOR DOORS / WINDOWS	INTERIOR DOORS/HARDWARE	COLOR: SW6477 TIDEWATER	NOTES: ADA SHOWER**	MFR: KOHLER 'CORALAIS' MODEL K-15583-F .5 GPM, ADA COMPLIANT, EPA WATERSENSE LABEL CHROME			TOWEL BARS			
WD-2 MFR:	NOMINAL 4" MDF CASING	MFR: MASONITE DOORS MOLDED DOOR FACING, SOLID CORE	INTERIOR FINISH (PNT-4)	NOTES: ADA SHO-1 (BATHROOMS)	MFR: KOHLER 'AWAKEN' RITE-TEMP SINGLE HANDLE MODEL K-99899-CP, 2.0 GPM, ADA COMPLIANT,			ALL BATHROOMS			
PROFILE:	CRAFTSMAN	FACTORY DRILLED FOR LEVER TYPE HANDLES.	-ACCENT COLOR AREAS AS NOTED- MFR: SHERWIN-WILLIAMS SEMI-GLOSS LATEX ENAMEL	NOTES: ADA SHO-1 (BATHROOMS)	MFR: KOHLER 'AWAKEN' RITE-TEMP SINGLE HANDLE MODEL K-99899-CP, 2.0 GPM, ADA COMPLIANT,			MFR: BOBRICK B-674 18", 24"			
FINISH:	PRIMED/PAINTED		COLOR: SW6213 HALCYON GREEN	NOTES: ADA SHO-1 (BATHROOMS)	MFR: KOHLER 'AWAKEN' RITE-TEMP SINGLE HANDLE MODEL K-99899-CP, 2.0 GPM, ADA COMPLIANT,			FINISH: POLISHED			
VCT		PROFILE: SIX PANEL SMOOTH FACE	INTERIOR FINISH (PNT-5)	NOTES: ADA SHO-1 (BATHROOMS)	MFR: KOHLER 'AWAKEN' RITE-TEMP SINGLE HANDLE MODEL K-99899-CP, 2.0 GPM, ADA COMPLIANT,			NOTES: BLOCKING REQ'D AT ALL MOUNTING POINTS			
CT-1 STYLE:	ARMSTRONG 'EXCELO'N	NOTES: SCHLAGE ACC619 FOR DOOR LEVERS AND HINGES, BRUSHED ALUMINIUM FINISH	-ACCENT COLOR AREAS AS NOTED- MFR: SHERWIN-WILLIAMS SEMI-GLOSS LATEX ENAMEL	NOTES: ADA SHO-1 (BATHROOMS)	MFR: KOHLER 'AWAKEN' RITE-TEMP SINGLE HANDLE MODEL K-99899-CP, 2.0 GPM, ADA COMPLIANT,			NOTES: PROVIDE 18" & 24" AS REQ'D.			
COLOR:	AS SELECTED BY ARCHITECT		COLOR: SW7068 GRIZZLE GRAY	NOTES: ADA SHO-1 (BATHROOMS)	MFR: KOHLER 'AWAKEN' RITE-TEMP SINGLE HANDLE MODEL K-99899-CP, 2.0 GPM, ADA COMPLIANT,			CLOTHES HOOK	NOT USED		
			NOTES: VERIFY ALL FINAL COLORS BEFORE PAINTING	NOTES: ADA SHO-1 (BATHROOMS)	MFR: KOHLER 'AWAKEN' RITE-TEMP SINGLE HANDLE MODEL K-99899-CP, 2.0 GPM, ADA COMPLIANT,			ALL BATHROOMS			
				NOTES: ADA SHO-1 (BATHROOMS)	MFR: KOHLER 'AWAKEN' RITE-TEMP SINGLE HANDLE MODEL K-99899-CP, 2.0 GPM, ADA COMPLIANT,			MFR: BOBRICK B-2116			
				NOTES: ADA SHO-1 (BATHROOMS)	MFR: KOHLER 'AWAKEN' RITE-TEMP SINGLE HANDLE MODEL K-99899-CP, 2.0 GPM, ADA COMPLIANT,			FINISH: SATIN			
				NOTES: ADA SHO-1 (BATHROOMS)	MFR: KOHLER 'AWAKEN' RITE-TEMP SINGLE HANDLE MODEL K-99899-CP, 2.0 GPM, ADA COMPLIANT,			NOTES: BLOCKING REQ'D AT ALL MOUNTING POINTS			

ABBREVIATIONS:

ADJ	ADJUSTABLE	EQ	EQUAL	GA	GAUGE	MIN	MINIMUM	REQ	REQUIRED	TEMP	TEMPERED
APPR	APPROVED	EXIST	EXISTING	GLS	GLASS	MO	MASONRY OPENING	RO	ROUGH OPENING	TYP	TYPICAL
BD	BOARD	EXT	EXTERIOR	GWB	GYPSUM WALL BOARD	MTL	METAL	SCHED	SCHEDULE	UTIL	UTILITY
CONTR	CONTRACTOR	FIBER	FIBERGLASS	INSUL	INSULATED	PNT	PAINT	SHT	SHEET	VPF	VINYL PLANK FLOOR
DIM	DIMENSION	FL	FLUSH	INT	INTERIOR	PERIM	PERIMETER	STD	STANDARD	WD	WOOD OR MDF*
DTL	DETAIL	FV	FIELD VERIFY	LAUN	LAUNDRY	REQD	REQUIRED	STL	STEEL	WDW	WINDOW

* MDF MEDIUM DENSITY FIBERBOARD FSC CERTIFIED
SEE DESCRIPTIONS ON SHEETS OR SCHEDULE NOTES.

** UTILIZE PLUMBING FIXTURES SPECIFIED ON
PLUMBING SHEET LEGEND FOR BASE BID U.N.O.

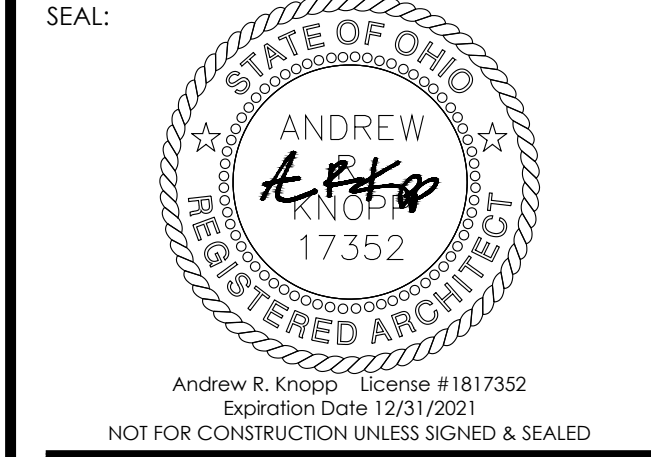
ROOM FINISH SCHEDULE															
NO.	NAME	FLOOR	BASE	WALL								CEILING			REMARKS
				NORTH		EAST		SOUTH		WEST		MAT'L	FIN.	HT.	
				MAT'L	FIN.	MAT'L	FIN.	MAT'L	FIN.	MAT'L	FIN.				
ROOM#	ROOM_NAME	FLOOR	BASE	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	HEIGHT	REMARKS
100	LIVING ROOM	LVT-1	WD-1	GWB-1	SHP-1	GWB-1	PT-5	GWB-1	PT-5	GWB-1	PT-5	GWB-1	FINISH	14'-11 1/2"	
101	DINING / CRAFT	LVT-1	WD-1	GWB-1	PT-4	GWB-1	PT-4	GWB-1	PT-4	N/A	N/A	GWB-1	PT-1	14'-11 1/2"	
102	KITCHEN	LVT-1	WD-1	GWB-1	PT-1	N/A	N/A	GWB-1	PT-4	GWB-1	PT-4	GWB-1	PT-1	14'-11 1/2"	
103	FOYER	LVT-1	WD-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	7'-11 1/2"	
104	1/2 BATH	LVT-1	RB-1	GWB-2	PT-2	GWB-2	PT-2	GWB-2	PT-2	GWB-2	PT-2	GWB-2	PT-1	7'-11 1/2"	
105	LAUNDRY	LVT-1	WD-1	GWB-2	PT-1	GWB-2	PT-1	GWB-2	PT-1	GWB-2	PT-1	GWB-2	PT-1	7'-11 1/2"	
106	MECH./STORAGE	VCT	RB-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	7'-11 1/2"	
107	HALL	LVT-1	WD-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	VARIES	
108	HALL	LVT-1	WD-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	VARIES	
109	BEDROOM	LVT-2	WD-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-4	GWB-1	PT-4	GWB-1	PT-1	8'-11 1/2"	CLOSET TO HAVE PT-1 AND LVT-2
110	BEDROOM	LVT-2	WD-1	GWB-1	PT-1	GWB-1	PT-4	GWB-1	PT-4	GWB-1	PT-1	GWB-1	PT-1	8'-11 1/2"	CLOSET TO HAVE PT-1 AND LVT-2
111	BEDROOM	LVT-2	WD-1	GWB-1	PT-1	GWB-1	PT-4	GWB-1	PT-4	GWB-1	PT-1	GWB-1	PT-1	8'-11 1/2"	CLOSET TO HAVE PT-1 AND LVT-2
112	BEDROOM	LVT-2	WD-1	GWB-1	PT-4	GWB-1	PT-4	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	8'-11 1/2"	CLOSET TO HAVE PT-1 AND LVT-2
113	BATH ROOM	LVT-1	RB-1	GWB-2	PT-2	GWB-2	PT-2	GWB-2	PT-2	GWB-2	PT-2	GWB-2	PT-1	8'-11 1/2"	CLOSET TO HAVE PT-2 AND LVT-1
114	BATH ROOM	LVT-1	RB-1	GWB-2	PT-2	GWB-2	PT-2	GWB-2	PT-2	GWB-2	PT-2	GWB-2	PT-1	8'-11 1/2"	CLOSET TO HAVE PT-2 AND LVT-1



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RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES
41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

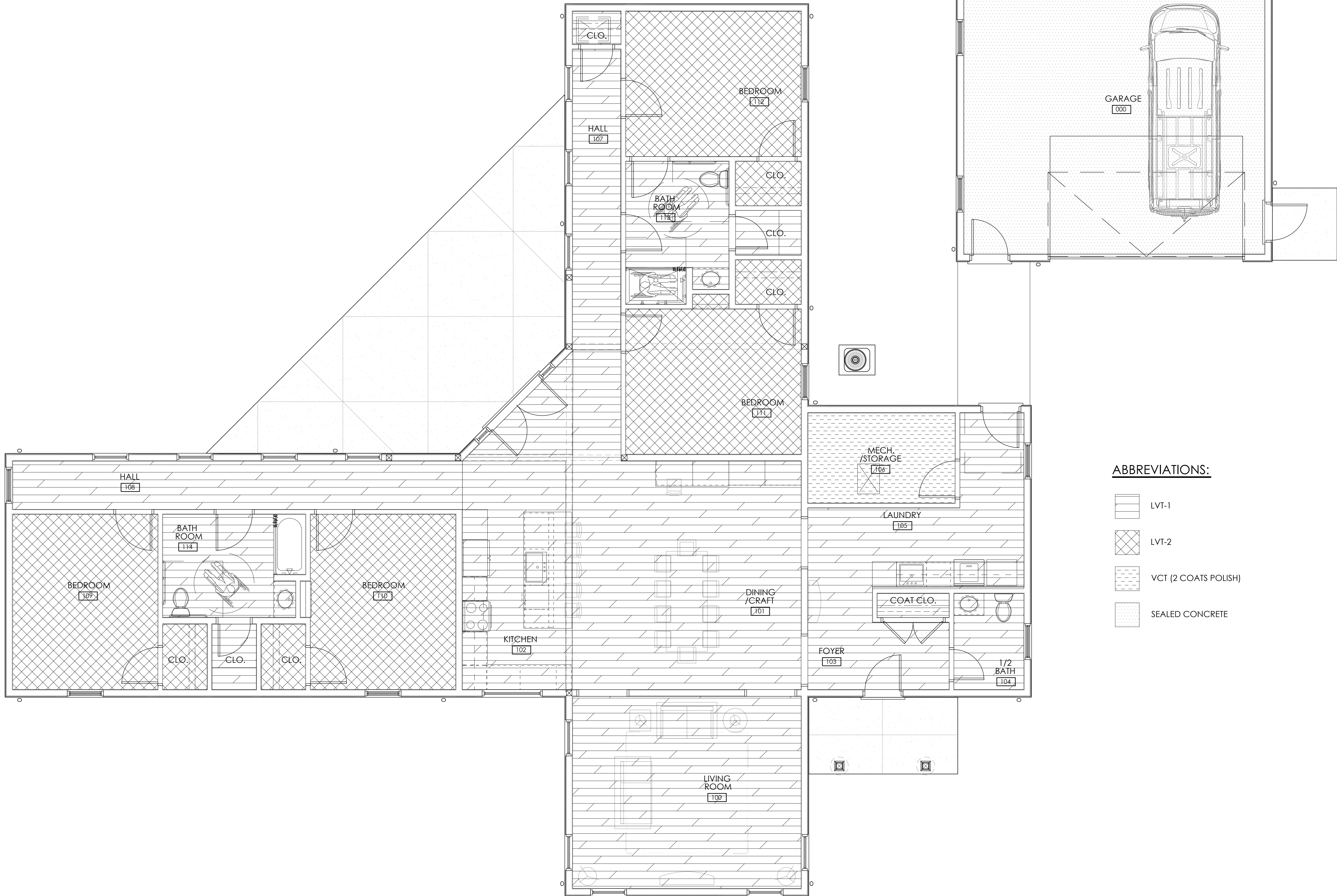
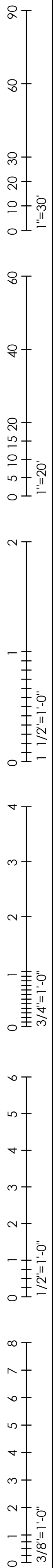
PROJECT TITLE:

ISSUE OR REVISION:

10.22.2021	PERMIT & BID SET
DATE	ISSUE / REVISION
DESIGNED:	ACH
DRAWN:	ACH/SJW
CHECKED:	ARK
TPA COMMISSION NUMBER:	20026
DRAWING TITLE:	

FINISH SCHEDULE /
LEGEND

DRAWING NUMBER:
A11.0



ABBREVIATIONS:

- LVT-1
- LVT-2
- VCT (2 COATS POLISH)
- SEALED CONCRETE

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Andrew R. Knopp License #1817352
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RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

PROJECT TITLE:

ISSUE OR REVISION:

10.22.2021	PERMIT & BID SET
DATE	ISSUE / REVISION

DESIGNED: ACH
DRAWN: ACH/SJW
CHECKED: ARK

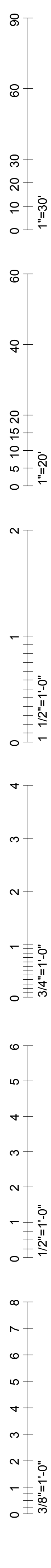
TPA COMMISSION NUMBER: 20026

DRAWING TITLE:

FLOORING PLAN

DRAWING NUMBER:

A11.1



SPECIFICATIONS FOR
THE GUARDIAN MODEL #G300A
AUTOMATIC FIRE EXTINGUISHING SYSTEM

GENERAL DESCRIPTION:
THE FIRE EXTINGUISHING SYSTEM SHALL BE CAPABLE OF DETECTING A COOKING GREASE FIRE ORIGINATING ON THE RANGE TOP, EXTINGUISH THE FIRE, AND PREVENT RE-IGNITION, WHILE AT THE SAME TIME SHUT-OFF THE GAS OR ELECTRIC SUPPLY TO SURFACE ELEMENTS ON THE KITCHEN RANGE TOP. EACH SYSTEM SHALL BE PROVIDED WITH A MEANS TO DISTRIBUTE THE CHEMICAL AGENT, FIRE DETECTION COMPONENTS, CONTAINER FOR STORING THE CHEMICAL, VALVE ASSEMBLY WITH PRESSURE GAUGE, ENCLOSURE ASSEMBLY FOR CONTAINER, AND APPLIANCE SHUT-OFF DEVICE. THESE COMPONENTS SHALL BE PROVIDED FACTORY ASSEMBLED AND READY FOR INSTALLATION AND INSTALLED IN ACCORDANCE WITH AN APPROVED OWNER'S MANUAL.

CLARIFICATION:
THE FIRE EXTINGUISHING SYSTEMS SHALL HAVE A CURRENT U.L. LISTING UNDER THE CATEGORY "RESIDENTIAL RANGE TOP FIRE PROTECTION" IN THE MOST RECENT FIRE PROTECTION EQUIPMENT DIRECTORY (FPED).

CHEMICAL AGENT:
WET CHEMICAL: SHALL CONFORM TO THE REQUIREMENTS OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD NO. 17A FOR WET CHEMICAL FIRE EXTINGUISHING SYSTEMS.

SYSTEMS COMPONENTS:
SYSTEM ENCLOSURE: THE SYSTEM ENCLOSURE SHALL CONSIST OF THE PRESSURIZED EXTINGUISHER CYLINDER WITH WET CHEMICAL FIRE SUPPRESSANT, CENTRAL PROCESSING UNIT CONTROL BOARD WITH TERMINAL BLOCK CONNECTIONS, ELECTRONIC RELEASE VALVE, CYLINDER PRESSURE GAUGE, ENCLOSURE BASE, AND ENCLOSURE COVER. OPERATION OF THE EXTINGUISHER UNIT IS CONTROLLED BY THE SUPERVISED ELECTRONIC CONTROL PANEL, WHICH IS BATTERY POWERED. DETECTION IS INITIATED THROUGH THE HEAT SENSORS, ACTIVATING THE ALARM AND THE EXTINGUISHER. THE ELECTRIC OR GAS SHUTDOWN DEVICES CAN EITHER BE SONICALLY OPERATED BY THE CONTROL PANEL, OR HARDWIRED TO THE CENTRAL PROCESSING UNIT CONTROL BOARD.

CYLINDER AND VALVE ASSEMBLY:
THE EXTINGUISHER CYLINDER AND VALVE ASSEMBLY SHALL BE PROVIDED FULLY CHARGED WITH CHEMICAL AND PRESSURIZED WITH DRY NITROGEN IN ACCORDANCE WITH LISTED REQUIREMENTS. A PRESSURE GAUGE ATTACHED TO THE VALVE ASSEMBLY SHALL BE POSITIONED TO ALLOW VISUAL INSPECTION WHEN INSTALLED WITHIN A KITCHEN CABINET. MAXIMUM ALLOWABLE HEIGHT OF CONTAINER (INCLUDING THE ENCLOSURE ASSEMBLY) SHALL NOT EXCEED 12 INCHES. THE CONTAINER AND VALVE ASSEMBLY SHALL BE OF THE RE-SERVICEABLE TYPE AND PROVIDE MAINTENANCE REQUIREMENTS SYNONYMOUS WITH THAT REQUIRED FOR PORTABLE HAND-HELD FIRE EXTINGUISHERS, ACCORDING TO NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD 10. THE CONTAINER AND VALVE ASSEMBLY SHALL BE PROVIDED FACTORY ASSEMBLED TO THE ENCLOSURE. ASSEMBLY SHALL INCLUDE A REMOUNTED CPU CONTROL BOARD FOR THE APPLIANCE SHUT-OFF DEVICE AND NECESSARY ATTACHMENT FOR THE FIRE DETECTION UNIT.

THE COMPLETE EXTINGUISHER CYLINDER AND VALVE ASSEMBLY SHALL BE INSTALLED IN A PROTECTED AREA ABOVE THE RANGE HOOD (NORMALLY, KITCHEN CABINETS). INSTALLATIONS WHICH EXPOSE EXTINGUISHER CYLINDER AND VALVE ASSEMBLY TO DIRECT COOLING HEAT AND GREASE WILL NOT ACCEPTED.

CENTRAL PROCESSING UNIT CONTROL BOARD:
THE CPU CONTROL BOARD IS HOUSED/ATTACHED INSIDE THE SYSTEM ENCLOSURE. THE CONTROL BOARDS CIRCUITRY IS POWERED BY AC/DC WALL PLUG-IN POWER SUPPLY, AND A 9V DC BATTERY AND HAS THE FOLLOWING FEATURES:

SUPERVISED CIRCUITRY: THE AUDIBLE 106DB ALARM ON THE CPU CONTROL BOARD WILL "ALARM" TO WARN OF POSSIBLE TROUBLE IN THE ELECTRONIC CIRCUITRY INCLUDING THE HEAT SENSORS, IF THERE IS AN OPEN CIRCUIT.

SYSTEM OPERATION LIGHT: THE RED "POWER" LIGHT WILL BLINK APPROXIMATELY EVERY 45 SECONDS TO CONFIRM THE SYSTEM IS OPERATING.

AUDIBLE ALARM: THE SYSTEM 105DB ALARM IS DESIGNED TO CONTINUOUSLY SOUND ONCE THE SYSTEM HAS BEEN ACTIVATED BY A STOVE TOP FIRE.

LOW BATTERY WARNING: THE AUDIBLE ALARM ON THE CPU CONTROL BOARD WILL "CHIRP" APPROXIMATELY EVERY 45 SECONDS WHEN A LOW BATTERY CONDITION EXISTS. IF THIS CONDITION EXISTS, 9V DC BATTERY MUST BE REPLACED IMMEDIATELY TO INSURE PROPER SYSTEM OPERATION.

AUXILIARY OUTPUTS: PROVIDE OUTPUTS TO MONITORED FIRE ALARM WARNING/PROTECTIVE EQUIPMENT, AUXILIARY OUTPUTS ONE (1) SECOND IMPULSES TO ACTIVATE ABOVE ITEMS.

TEMPERATURE ACTIVATED SENSOR ASSEMBLY:
THE SENSOR ASSEMBLY SHALL CONSIST OF TWO (2) TEFLON-LINED STAINLESS STEEL BRAIDED HOSES AND TWO (2) MAGNETIC BASED ADJUSTABLE NOZZLE ASSEMBLIES. THE USE OF COPPER TUBING SHALL NOT BE ACCEPTED. HOSE AND NOZZLES SHALL COMPLY WITH NFPA STANDARD NO 17A FOR WET CHEMICAL EXTINGUISHING SYSTEMS AND SHALL HAVE BEEN INVESTIGATED BY UNDERWRITERS LABORATORIES, INC. (U.L.) AND LISTED FOR THIS SERVICE.

APPLIANCE NOZZLES:
WET SYSTEM: APPLIANCE NOZZLES SHALL BE CONSTRUCTED OF BRASS. APPLIANCE NOZZLES WITH PAINTED SURFACES SHALL NOT BE ACCEPTED. APPLIANCE NOZZLES WITH PAINTED SURFACES SHALL NOT EXTEND BELOW THE LOWEST COMPONENT OF THE RANGE HOOD. DESIGN SHALL PROVIDE EQUAL DISTRIBUTION OF CHEMICAL AGENT AND ALLOW CHEMICAL TO FLOW EFFECTIVELY WITH LOW VELOCITY TO AVOID SPLATTERING OF BURNING GREASE.

APPLIANCE SHUT-DOWN DEVICE:
EACH SYSTEM SHALL BE PROVIDED WITH A LIST DEVICE TO AUTOMATICALLY SHUT OFF THE ELECTRIC SUPPLY TO SURFACE BURNERS ON THE KITCHEN RANGE TOP UPON ACTIVATION OF THE ALARM FROM THE FIRE DETECTION UNIT VIA AN INTERCONNECTION CABLE. THE GAS OR ELECTRIC SUPPLY SHALL REMAIN "OFF" UNTIL MANUALLY RESET. ELECTRICAL POWER CUT-OFF TO KITCHEN RANGE HOOD EXHAUST FAN SHALL NOT BE REQUIRED FOR UNDERWRITERS LABORATORIES INCORPORATED (U.L.) LISTED EXTINGUISHING SYSTEMS.

ELECTRIC SHUTOFF: ONCE ACTIVATED VIA A LOW VOLTAGE INTER CONNECTION CABLE IT WILL CLOSE THE ELECTRICAL CURRENT TO THE RANGE AND MUST BE MANUALLY RESET. YOU CAN RESET THE SHUTOFF BY EITHER UNPLUGGING IT FROM THE WALL OR PLUGGING IT BACK IN, OR BY PRESETTING THE BREAKER FOR THE RANGE.

OWNER'S MANUAL:
EACH SYSTEM SHALL BE PROVIDED WITH A COMPREHENSIVE OWNER'S MANUAL THAT CONTAIN PROCEDURES FOR POST CLEAN-UP, PARTS IDENTIFICATION, A COMPLETE WIRING DIAGRAM, SYSTEM INSTALLATION WITH PICTORIALS FOR STEP-BY-STEP PROCEDURES, SYSTEM LIMITATION, AND INSPECTION AND MAINTENANCE REQUIREMENTS.

OPTIONAL EQUIPMENT INCLUDED:
MANUAL REMOTE PULL STATION: DEVICE SHALL BE U.L. LISTED OR RECOGNIZED COMPONENT SUPPLIED COMPLETE WITH WIRE LEADS AND LISTED WITH THE RESIDENTIAL SYSTEM.

AC/DC WALL PLUG IN POWER SUPPLY: A CONSTANT 9 VOLT POWER SOURCE IS REQUIRED AN AC/DC WALL PLUG IN TRANSFORMER CAN BE SUPPLIED. ONLY A U.L. LISTED AC/DC WALL PLUG IN POWER SUPPLY THAT HAS BEEN TESTED AND LISTED WITH THE CENTRAL PROCESSING CONTROL BOARD SHALL BE USED.

EXTINGUISHER: SUPPLYING AND INSTALLING CONTRACTOR TO PROVIDE A TYPE "K" FIRE EXTINGUISHER IN KITCHEN.

COMMISSIONING AND CERTIFICATION:
-SYSTEM SUPPLIER TO BE RESPONSIBLE FOR COMPLETE INSTALLATION OF UNIT
-SYSTEM SUPPLIER TO PROVIDE WRITTEN SET-UP AND TEST REPORTS
-SYSTEM SUPPLIER TO PROVIDE A SCHEDULE FOR INSPECTION AND TESTING EVERY 6 MONTHS. PROVIDE INSPECTION AND TESTING COMMENTS TO OWNER.

SPRINKLER HEAD SCHEDULE									
TAG	DESCRIPTION	CEILING	HAZARD DESIGN	DESIGN GPM	DENSITY * SQ. FT.	HEAD TYPE	TEMPERATURE RATING	FINISH	REMARKS
SP1	FINISHED FLOOR AREA	YES	NFPA 13D	.05	AREA	CONCEALED SIDEWALL	ORDINARY (155°F)	BRASS	WHITE COVER

* - AREA TO BE THE LARGEST COMPARTMENT WITH A MAXIMUM OF TWO HEADS IN CALCULATION

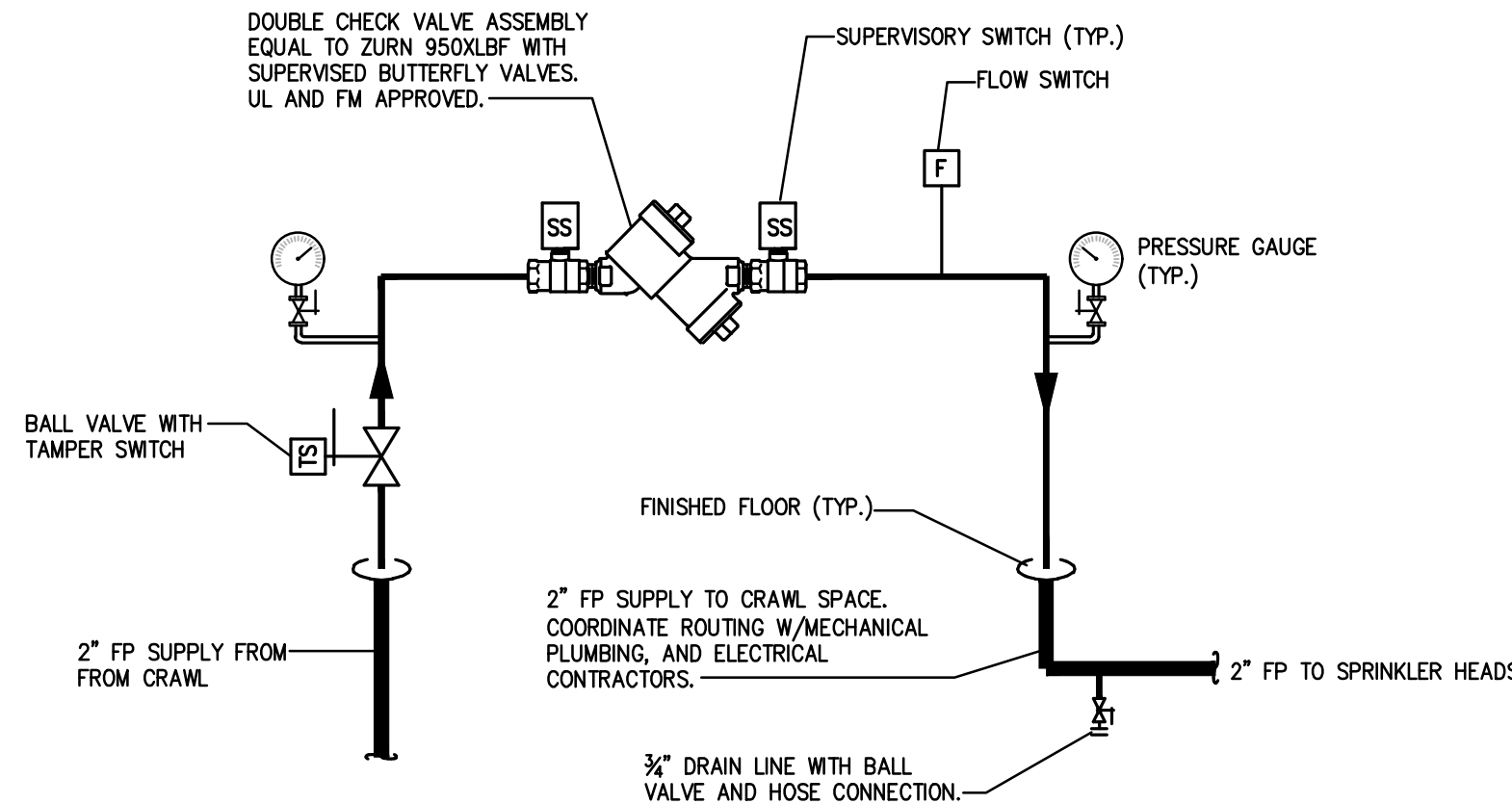
FIRE PROTECTION DESIGN NOTES:

- AREA(S) COVERED BY NFPA 13D WET PIPE SPRINKLER SYSTEM
 - ENTIRE HOUSE - EXCLUDING GARAGE
- REGULATORY REQUIREMENTS FOR FIRE PROTECTION SYSTEM DESIGN AND INSTALLATION:
 - DIVISION 13 SPECIFICATIONS
 - NFPA-13D
 - STATE BUILDING CODE
 - LOCAL AUTHORITY HAVING JURISDICTION
- INITIATE SYSTEM INSTALLATION ONLY AFTER SUBMITTALS HAVE BEEN APPROVED BY:
 - ARCHITECT/ENGINEER
 - LOCAL FIRE DEPARTMENT AUTHORITY/ FIRE MARSHAL
- COORDINATE THE LAYOUT AND INSTALLATION OF SPRINKLER PIPING AND EQUIPMENT WITH STRUCTURAL, MECHANICAL, ELECTRICAL, AND ALL OTHER TRADES PRIOR TO FABRICATION AND/OR INSTALLATION OF WORK. INCLUDE:
 - SYSTEM MAIN AND AUXILIARY DRAINS
 - FIRE ALARM SYSTEM
 - ROUTING OF MAINS THROUGH CRAWL SPACE
 - LOCATION OF SITE FIRE PROTECTION WATER SUPPLY

FIRE PROTECTION GENERAL NOTES:

- CONTRACTOR SHALL VISIT SITE TO VERIFY ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK.
- CONTRACT SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, ETC., FOR A COMPLETE AND OPERABLE INSTALLATION. ALL MATERIALS SHALL BE NEW, SPECIFICATION GRADE, AND U.L. LISTED PRODUCTS, UNLESS NOTED OTHERWISE.
- COORDINATE ALL WORK AND SCHEDULES WITH OWNER, CONSTRUCTION MANAGER, OTHER CONTRACTORS AND APPROPRIATE UTILITY COMPANIES.
- STORE MATERIALS WHERE DIRECTED. PROTECT STORED MATERIALS AND INSTALLED WORK FROM DAMAGE. REPAIR ALL DAMAGE.
- REMOVE DIRT, DEBRIS AND UNUSED MATERIALS FROM SITE REGULARLY, AND DISPOSE OF BY PROPER AND LEGAL METHODS.
- PATCH AND FINISH CONSTRUCTION DAMAGED DURING THE COURSE OF FIRE PROTECTION SYSTEM INSTALLATION. SEALS & FIRE STOPPING AT ALL WALL AND FLOOR PENETRATIONS.
- PERFORM TESTING AND MAKE FINAL ADJUSTMENTS TO VERIFY PROPER PERFORMANCE OF ALL SYSTEMS AND EQUIPMENT.
- MAINTAIN "AS BUILT" RECORDS OF ALL INSTALLED ITEMS AND PROVIDE TO CONSTRUCTION MANAGER AT PROJECT COMPLETION.

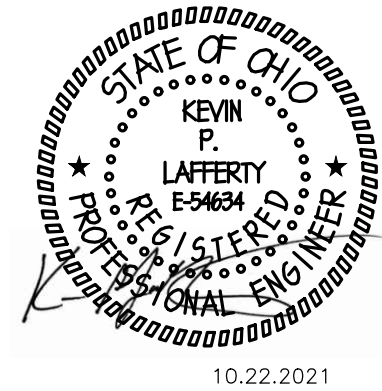
NOTE: THESE NOTES ARE GENERAL IN NATURE. SPECIFIC MEANS, METHODS AND MATERIALS ARE DETAILED IN THE SPECIFICATIONS AND CONTRACTOR IS DIRECTED TO THOROUGHLY REVIEW THE FULL SPECIFICATION. CONTRACT SPECIFICATIONS SHALL GOVERN IN CASE OF CONFLICT.



1 FP DOUBLE CHECK VALVE ASSEMBLY DETAIL
NO SCALE

CONSULTANTS:

SEAL:



10.22.2021

PROJECT TITLE:

RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

ISSUE OR REVISION:

10.22.2021	PERMIT & BID SET
DATE	ISSUE / REVISION
DESIGNED:	RFY
DRAWN:	RFY
CHECKED:	RFY

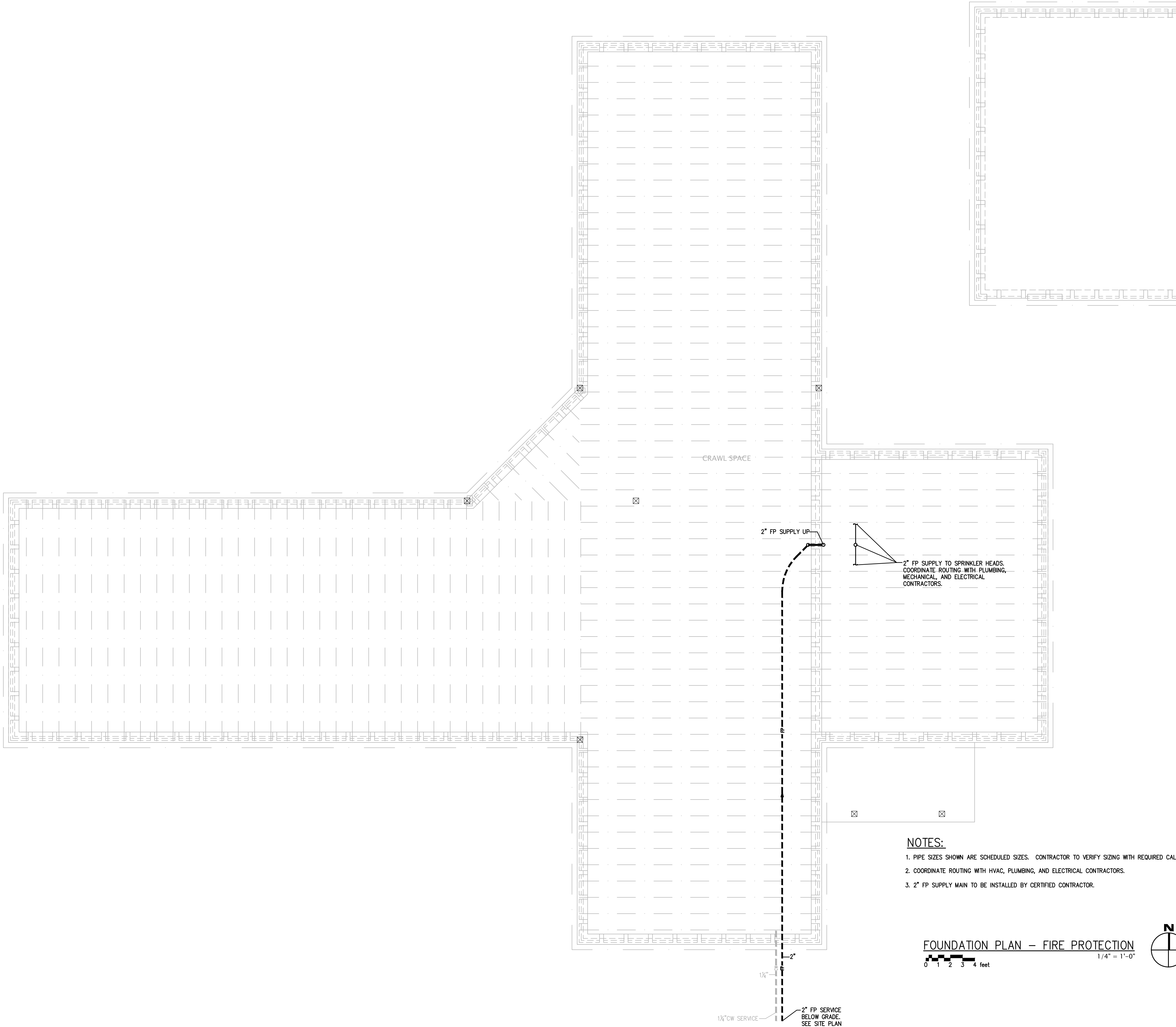
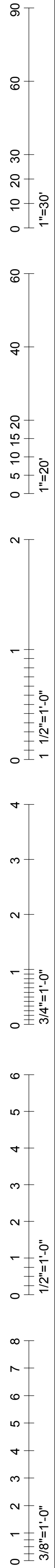
TPA COMMISSION NUMBER: 20026

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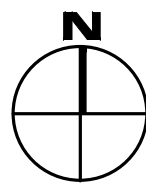
FIRE PROTECTION
SCHEUDLES, NOTES

DRAWING NUMBER:

FP1.0



FOUNDATION PLAN – FIRE PROTECTION
1/4" = 1'-0"



- NOTES:**
- PIPE SIZES SHOWN ARE SCHEDULED SIZES. CONTRACTOR TO VERIFY SIZING WITH REQUIRED CALCULATIONS.
 - COORDINATE ROUTING WITH HVAC, PLUMBING, AND ELECTRICAL CONTRACTORS.
 - 2" FP SUPPLY MAIN TO BE INSTALLED BY CERTIFIED CONTRACTOR.



8 North St. Clair - Toledo, Ohio 43604-1028
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CONSULTANTS:

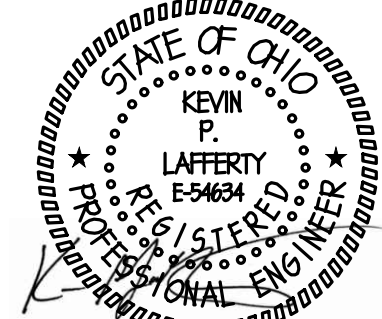


Engineers, Surveyors & Associates, LLC
1825 State Rd., Toledo, Ohio, 43620 Phone (419) 479-9448



MDA #20038
mda engineering, inc.
Mechanical and Electrical Engineers
1415 Holland Road
Maumee, Ohio 43537
Phone: (419) 893-3141

SEAL:



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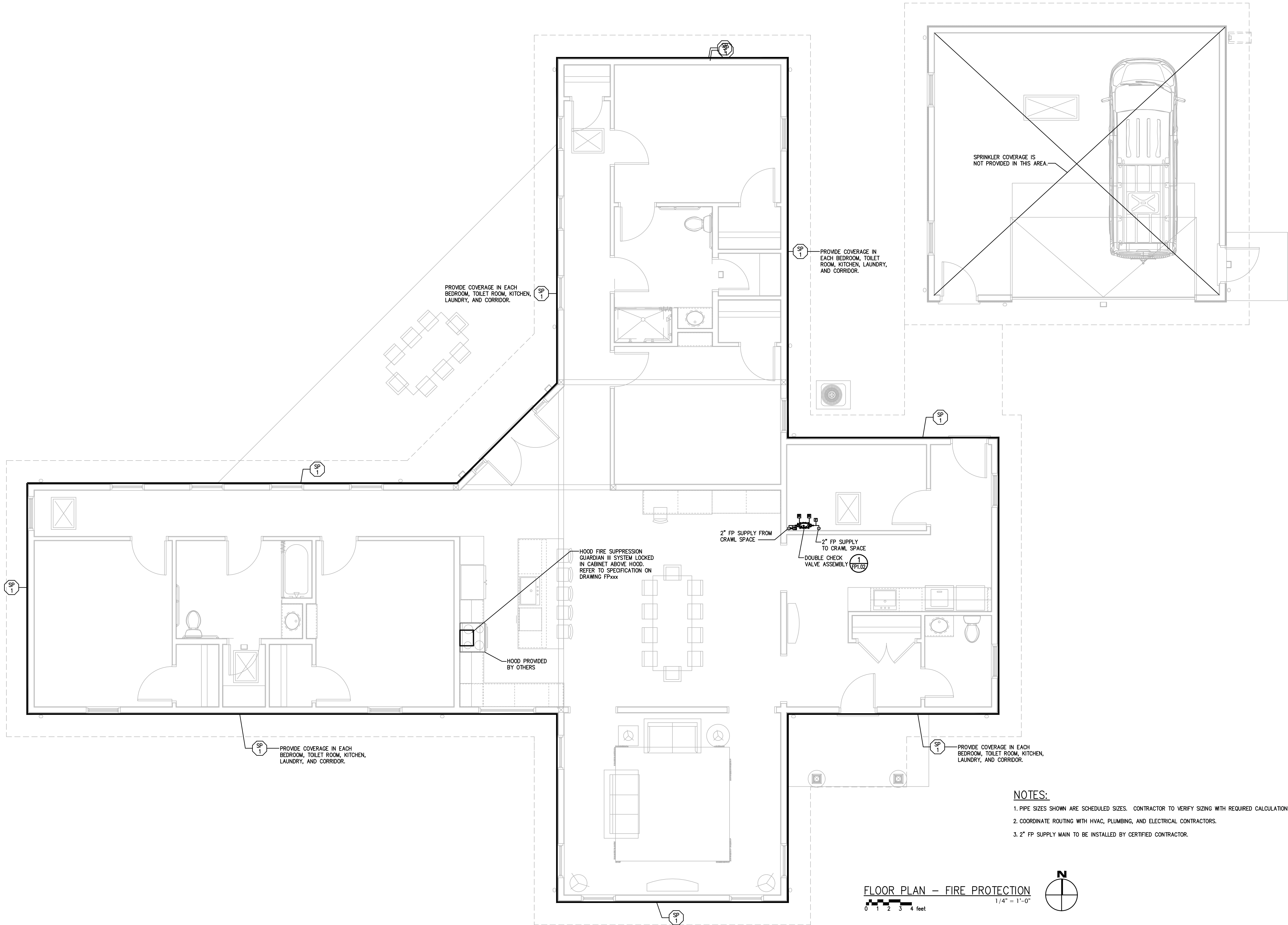
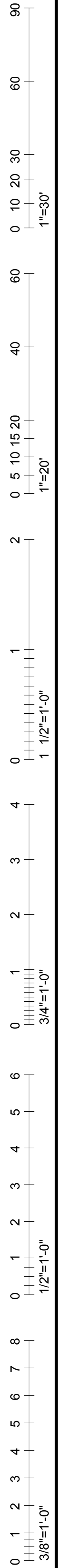
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FOUNDATION PLAN –
FIRE PROTECTION

DRAWING NUMBER:

FP2.0

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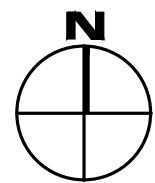


NOTES:

1. PIPE SIZES SHOWN ARE SCHEDULED SIZES. CONTRACTOR TO VERIFY SIZING WITH REQUIRED CALCULATIONS.
2. COORDINATE ROUTING WITH HVAC, PLUMBING, AND ELECTRICAL CONTRACTORS.
3. 2" FP SUPPLY MAIN TO BE INSTALLED BY CERTIFIED CONTRACTOR.

FLOOR PLAN - FIRE PROTECTION

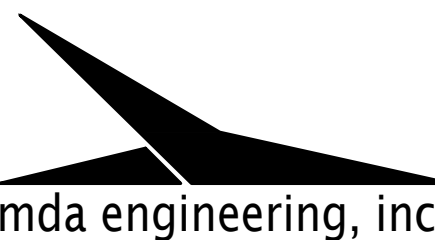
1/4" = 1'-0"



CONSULTANTS:

esa

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SEAL:



**RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES**

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PROJECT TITLE:

ISSUE OR REVISION:

10.22.2021	PERMIT & BID SET
DATE	ISSUE / REVISION
DESIGNED:	RFY
DRAWN:	RFY
CHECKED:	RFY










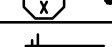
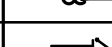
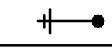
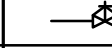
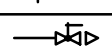
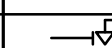
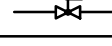
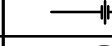


TPA COMMISSION NUMBER: **20026**







DRAWING TITLE:

**FLOOR PLAN -
FIRE PROTECTION**

DRAWING NUMBER:

FP2.1

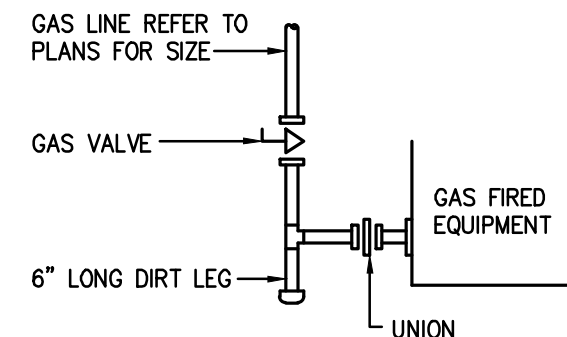
LEGEND AND SYMBOLS				
	DCW	DOMESTIC COLD WATER PIPING	FD	FLOOR DRAIN
	DHW	DOMESTIC HOT WATER PIPING	RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
	DHWR	DOMESTIC HOT WATER RETURN PIPING	V	VENT
	NG	NATURAL GAS PIPING	VTR	VENT THROUGH ROOF
	SAN	SANITARY PIPING – ABOVE GROUND	I.E.	INVERT ELEVATION
	SAN	SANITARY PIPING – BELOW GROUND	G.C.	GENERAL CONTRACTOR
	V	SANITARY VENT PIPING	E.C.	ELECTRICAL CONTRACTOR
			P.C.	PLUMBING CONTRACTOR
			F.F.E.	FINISHED FLOOR ELEVATION
	WATER HAMMER ARRESTOR w/ PDI SIZE			"P" TRAP
	FREEZE PROOF WALL HYDRANT – FWH			CHECK VALVE
	FREEZE PROOF POST HYDRANT			GATE VALVE
	HOSE BIBB – HB			BUTTERFLY VALVE
	AUTOMATIC TRAP PRIMER – ATP			GAS VALVE
	BALL VALVE			UNION
				DETAIL NUMBER – WITH SHEET REFERENCE

DESCRIPTION	SYM	TAG	DCW	DHW	WASTE	VENT	SPECIFICATIONS
CLEANOUT TO GRADE		GOO	----	----	REFER TO DWG'S	----	ZURN Z1474-G-N HEAVY-DUTY CLEANOUT HOUSING WITH Z1440 INTERNAL CLEANOUT. GALVANIZED CAST IRON BODY WITH INTEGRAL ANCHOR FLANGE, SECURED SCORIATED COVER WITH LIFTING DEVICE; AND CLEANOUT WITH DURA-COATED CAST-IRON BODY, GAS AND WATER-TIGHT ABS TAPERED THREADED PLUG.
FLOOR CLEANOUT		FOO	----	----	REFER TO DWG'S	----	ZURN ZN-1440 "LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY WITH GAS WATER-TIGHT ABS TAPERED, THREAD PLUG, AND SCORIATED POLISHED NICKEL-BRONZE COVER AND PLATE ADJUSTABLE TO FINISHED FLOOR.
WALL CLEANOUT		CO	----	----	REFER TO DWG'S	----	ZURN Z-1446, WALL CLEANOUT TEE, DURA-COATED CAST IRON BODY, GAS AND WATER-TIGHT ABS TAPERED THREAD PLUG, AND ROUND SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.
FREEZE-PROOF WALL HYDRANT		FWH	¾"	----	----	----	WOODFORD MODEL 68, UNDERCOVER WALL HYDRANT, CHROME PLATED, FLUSH MOUNTED CAST BRASS HYDRANT HEAD. MODEL 50 ASSE 1062 HIGH FLOW DOUBLE CHECK BACKFLOW PREVENTER, AUTOMATIC DRAIN, VANDAL RESISTANT WITH STAINLESS STEEL COVER, AND INTEGRAL LOCKING HEAD.
HOSE BIBB		HB	¾"	----	----	----	PRIER MODEL 526.62, EXPOSED, HEAVY PATTERN CASTED BRASS CONSTRUCTION, SOLID BRASS STEM, CAST METAL HANDLE WITH BRASS MOUNTING SCREW, RED(HOT) AND BLUE(COLD) OPERATING HANDLE, AND 3/4 INCH HOSE CONNECTION, FURNISH HOSE BIBB COMPLETE WITH P-003CP VACUUM BREAKER.
FLOOR DRAIN - MECHANICAL ROOM		FD-1	----	----	3"	----	SIOUX CHIEF 664 SERIES MODEL 664-W3P COMPACT FLOOR SINK WITH PVC BODY, SCHEDULE 40 HUB CONNECTION, AND 6-5/8-INCH ROUND PVC STRAINER. PROVIDE DRAIN WITH SIOUX CHIEF TRAPSHIELD MODEL 635-4 PRE-ASSEMBLED INLINE TRAP SEAL DEVICE. DEVICE TO MEET ASSE 1072.

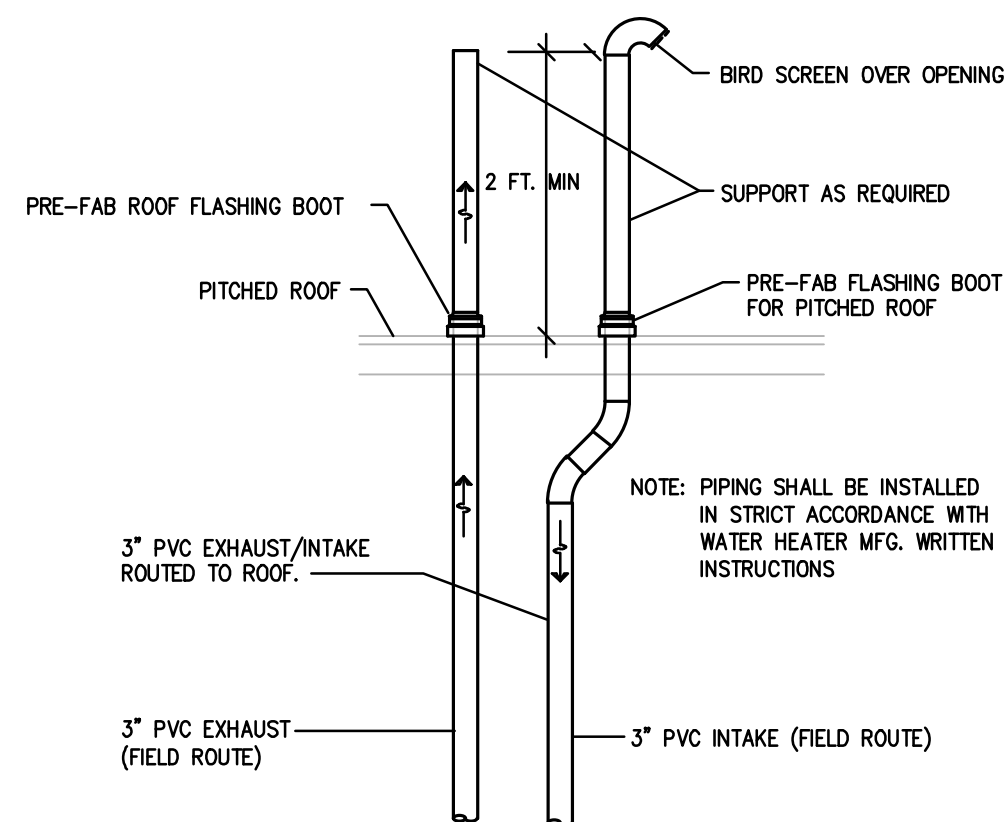
[illegible]

1. PERFORM ALL WORK IN ACCORDANCE WITH THE CURRENT CITY PLUMBING CODE, LATEST EDITION AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
2. CONTRACTOR SHALL VISIT SITE TO VERIFY ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PHYSICAL CONDITIONS UNDER WHICH ALL WORK MUST BE PERFORMED. VERIFY ALL ELEVATIONS, REPORT ANY DISCREPANCIES TO THE [ARCHITECT, ENGINEER, CONTRACTOR MANAGER].
4. CONTRACT SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, ETC., FOR A COMPLETE AND REPEALABLE INSTALLATION. ALL MATERIALS SHALL BE NEW, SPECIFICATION GRADE, AND UL LISTED PRODUCTS, UNLESS NOTED OTHERWISE.
5. COORDINATE ALL WORK AND SCHEDULES WITH OWNER, ARCHITECT, OTHER CONTRACTORS AND APPROPRIATE UTILITY COMPANIES.
6. THE CONTRACTOR IS RESPONSIBLE FOR FULLY COORDINATING ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS. SCHEDULING ALL WORK TO ENSURE PROPER CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE MAINTAINED. DRAWING ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. EXACT LOCATION OF EQUIPMENT, MATERIAL, DEVICE, ETC. WILL BE WORKED OUT IN THE FIELD.
7. SCHEDULE ALL WATER, GAS SERVICE, AND SEWER INTERRUPTIONS WITH OWNER AND OTHER CONTRACTORS 72 HOURS PRIOR TO INTERRUPTION.
8. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN PLUMBING VENTS AND HVAC EQUIPMENT OR OTHER AIR INTAKES. COORDINATE LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
9. SUBMIT FOR APPROVAL DATA ON PROPOSED EQUIPMENT AND MATERIALS. SUBMITTALS SHALL INCLUDE EQUIPMENT SIZES, INSTALLATION WORK, AND PERFORMANCE CURVES AND OTHER PERTINENT DATA. EACH SUBMITTAL SHALL INCLUDE IDENTIFICATION TAGS OR SYMBOLS TO MATCH CONTRACT DOCUMENTS.
10. ALL EQUIPMENT SHALL BE NEW AND SHALL BE EQUAL IN QUALITY AND TYPE AND HAVE ALL ACCESSORIES AS NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS. MAKE EQUIPMENT SELECTIONS AND PROVIDE INSTALLATIONS WHICH MEET OR EXCEED THE REQUIRED PERFORMANCE. ALL EQUIPMENT TO BE INSTALLED SHALL BE APPROVED BY THE ARCHITECT AND THE PLUMBING CONTRACTOR. ACCESSORIES ON SUBMITTED EQUIPMENT MAY BE REQUIRED TO ACHIEVE THIS EQUALITY AND SHALL BE INCLUDED AT NO EXTRA COST TO THE OWNER. MAKE ANY CHANGES IN PLUMBING SUPPORT MATERIALS, FRAMES, OR CONNECTIONS TO MECHANICALLY SUBSTITUTED EQUIPMENT.
11. STORE MATERIALS WHERE DIRECTED. PROTECT STORED MATERIALS AND INSTALLED WORK FROM DAMAGE. REPAIR ALL DAMAGED ITEMS WITH NEW.
12. REMOVE DIRT, DEBRIS AND UNUSED MATERIALS FROM WORK REGULARLY AND DISPOSE OF BY PROPER AND NEAT METHODS.
13. PATCH AND FINISH CONSTRUCTION DAMAGED DURING THE COURSE OF PLUMBING INSTALLATIONS.
14. PROVIDE PROPER SEALS AT ALL WALL PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS.
15. PERFORM TESTING AND MAKE FINAL ADJUSTMENTS TO VERIFY PROPER PERFORMANCE OF ALL SYSTEMS AND EQUIPMENT.
16. MAINTAIN "AS BUILT" RECORDS OF ALL INSTALLED ITEMS AND PROVIDE TO ARCHITECT AT PROJECT COMPLETION.
17. MOUNT ALL HANDICAP (BARRIER-FREE) DEVICES AND EQUIPMENT PER FEDERAL ADA GUIDELINES. PROVIDE HANDICAP ACCESS TO TOILETS, WORK TO MASTERY COUSERS, WASHROOMS, COUNTERS, BACK SPLASHES, ETC. FOR ROUGH-IN.
18. CONTRACTOR TO INCLUDE REQUIRED UTILITIES WORKING HOURS, WEEKEND AND OVERTIME OVERVIEW FOR DISCONTINUATION OF WORK. PROVIDE SCHEDULES FOR DISCONTINUED SUBSTITUTED EQUIPMENT OF THE OWNERS SYSTEMS.
19. PROTECT ALL EXISTING BUILDING COMPONENTS INCLUDING ALL EXISTING STRUCTURE, FINISHES, AND MATERIALS AT ALL TIMES FROM DAMAGE DUE TO WORK UNDER THIS CONTRACT OR FROM DAMAGE TO EXISTING MATERIALS OR EQUIPMENT. ALL DAMAGE SHALL BE REPAIRED, PATCHED, OR REPLACED TO MATCH THE ORIGINAL EXISTING CONDITION AT NO COST TO THE OWNER.
20. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROOF PENETRATIONS ASSOCIATED WITH THE INSTALLATION OF NEW WORK. THE ROOF WORK SHALL BE PERFORMED BY A LICENSED AND CERTIFIED CONTRACTOR THAT IS LICENSED IN THE STATE OF CALIFORNIA.
21. REFER TO ARCHITECTURE, MECHANICAL, SHEET PLAN FOR ALL PREWALL LOCATIONS, SEAL, ALL PIPING PENETRATIONS THROUGH WALL PARTITIONS/FLOORS AS REQUIRED BY LOCAL CODES.
22. NOTE: THESE NOTES ARE GENERAL IN NATURE. SPECIFIC METHODS, METHODS AND MATERIALS ARE DETAILED IN THE SPECIFICATIONS AND CONTRACTOR IS DIRECTED TO THOROUGHLY REVIEW THE FULL SPECIFICATION BEFORE BEGINNING THE WORK. CONTRACTOR SPECIFICATIONS SHALL GOVERN IN CASE OF CONFLICT.

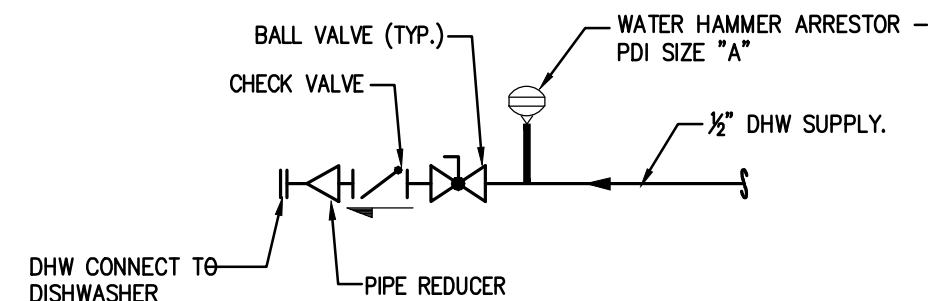
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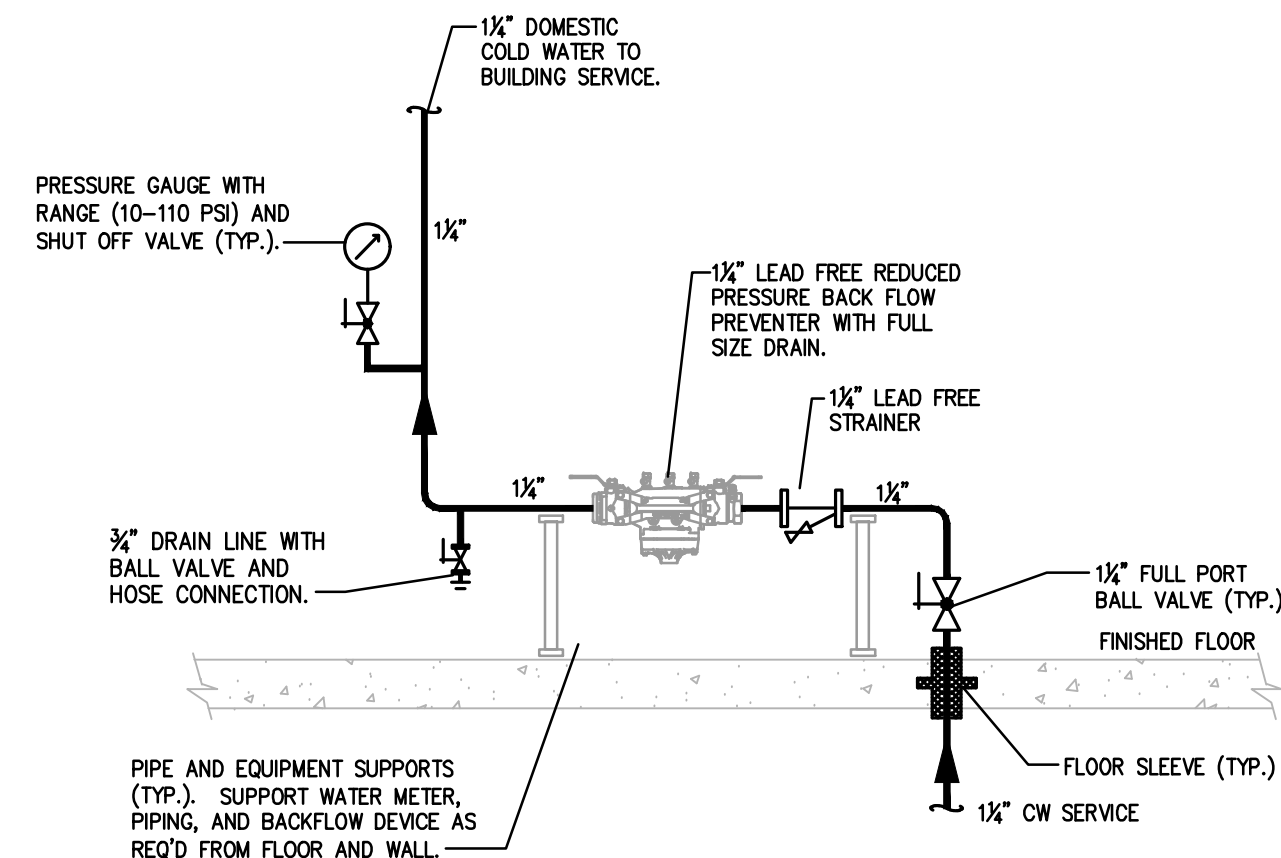
5 TYPICAL GAS CONNECTION DETAIL
NO SCALE
NOTE: REFER TO FLOOR PLANS FOR GAS LINE SIZE



4 WATER HEATER EXHAUST AND INTAKE DETAIL
NO SCALE
CONTRACTOR TO COORDINATE ROOF PENETRATIONS WITH CONSTRUCTION MANAGER.

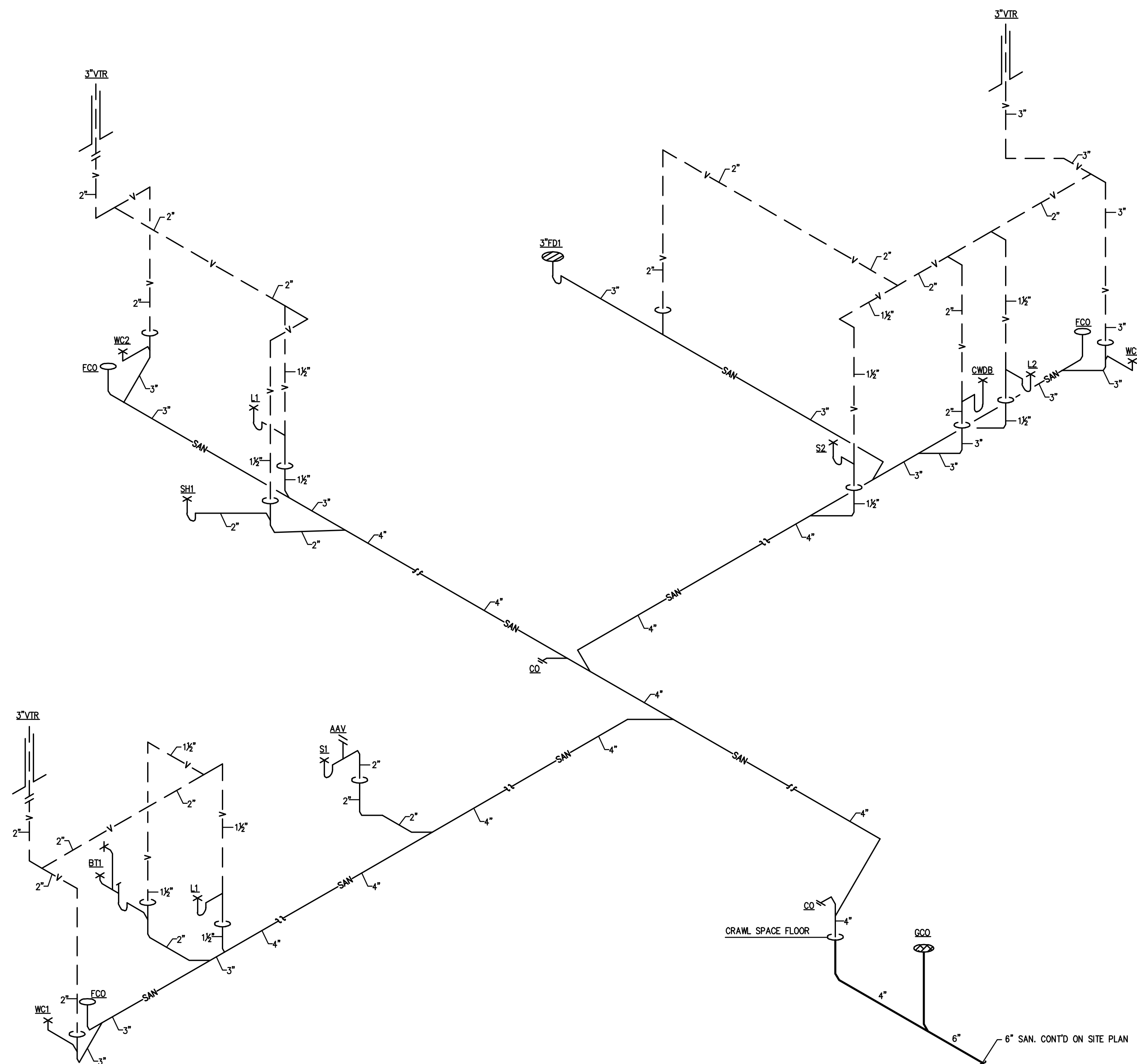


3 DISHWASHER SUPPLY CONNECTION DETAIL
NO SCALE

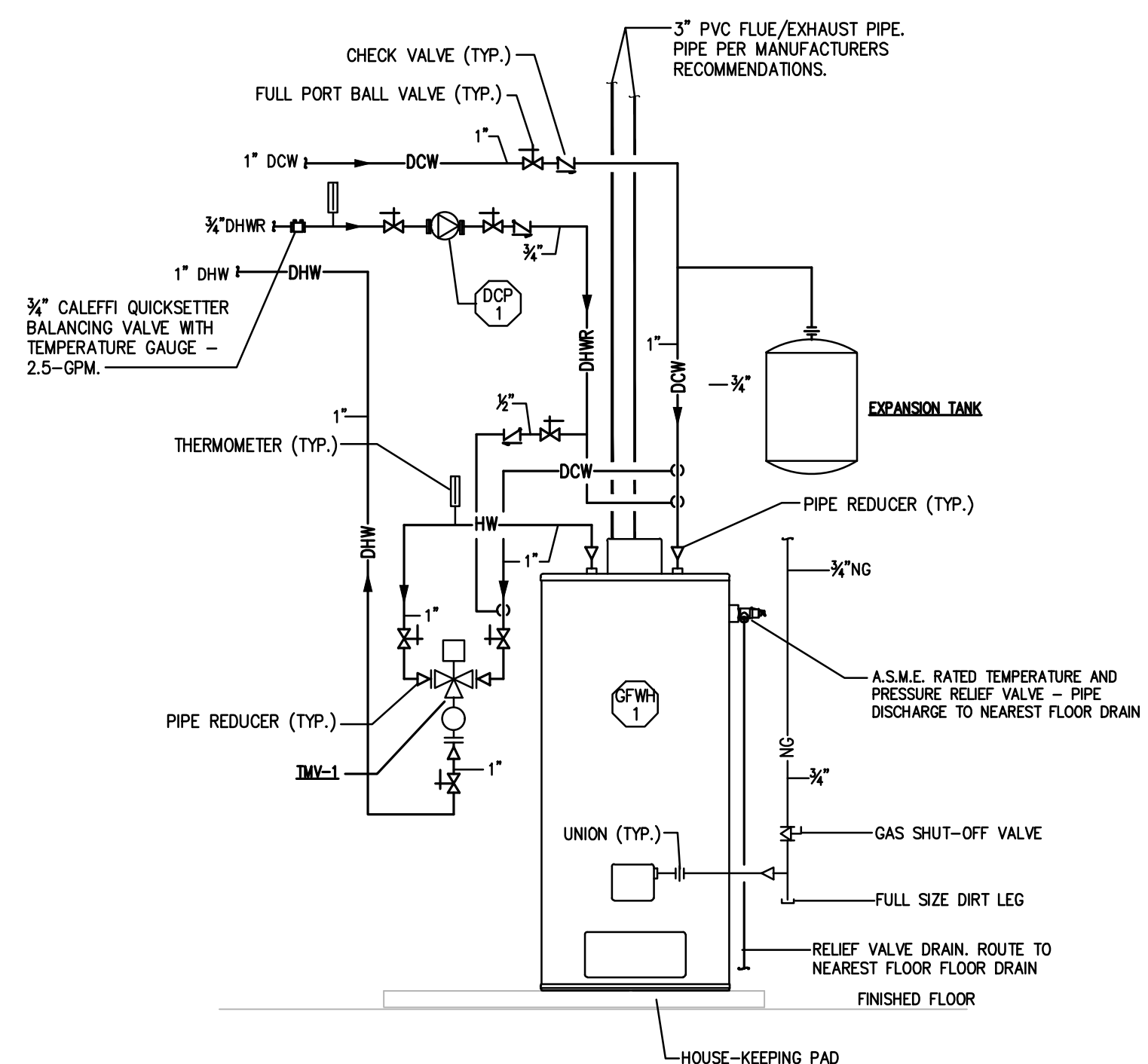


1 DOMESTIC WATER SUPPLY AND BACKFLOW DETAIL
NO SCALE

- NOTES:
1. SUPPORT BACKFLOW PREVENTOR FROM WALL OR FLOOR AS REQ'D.
2. BACKFLOW PREVENTOR SHALL NOT BE MOUNTED ABOVE 30" FROM FINISHED FLOOR.
3. BACKFLOW PREVENTION SHALL COMPLY WITH ALL CITY OR WATER UTILITY STANDARDS.



A SANITARY AND VENT ISOMETRIC
NO SCALE

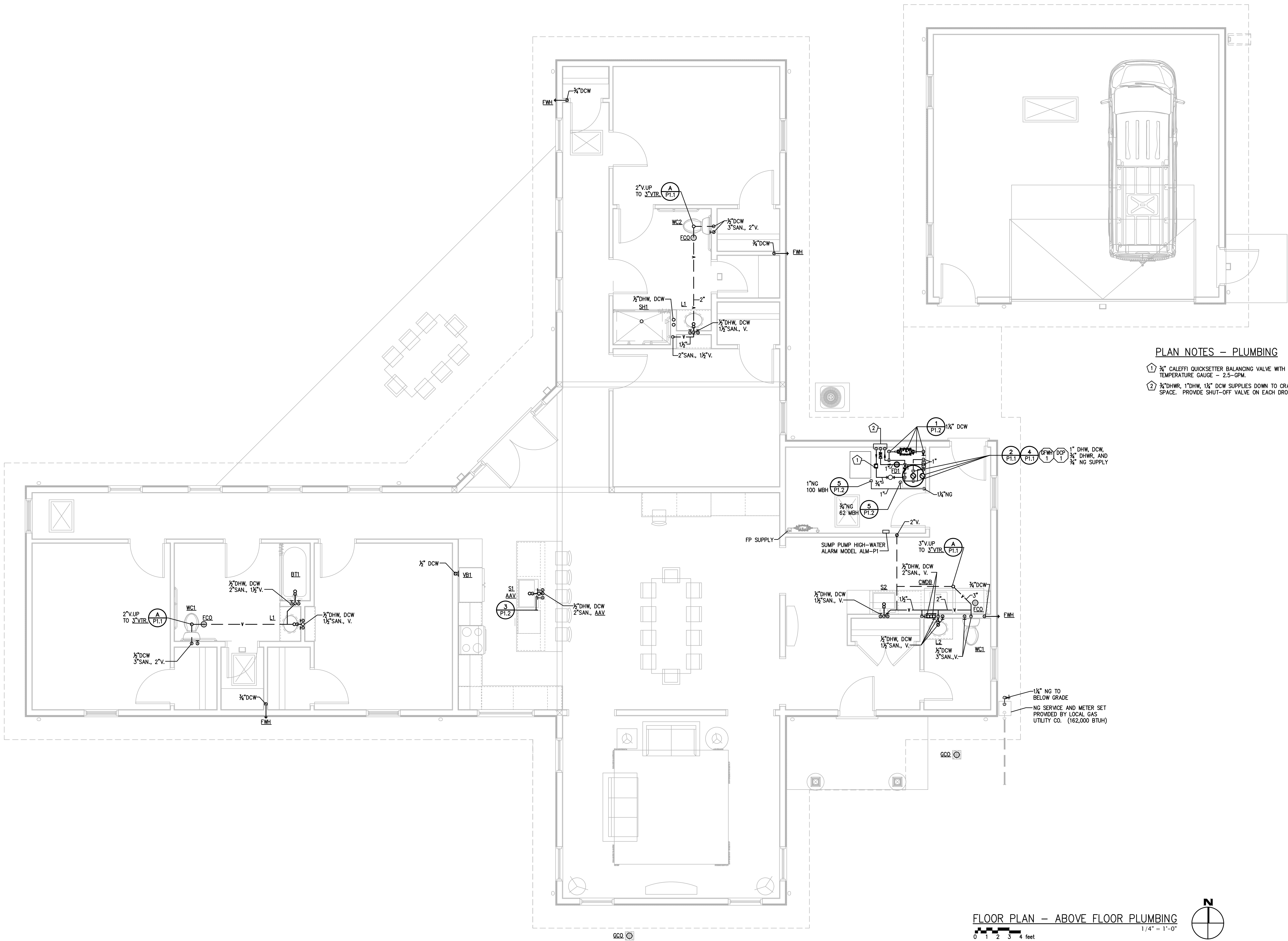


2 GAS-FIRED WATER HEATER DETAIL
NO SCALE

EXP. TANK LEAD-FREE NON-ASME CODE THERMAL EXPANSION TANK - ZURN WILKINS MODEL XT-8. PIPE PER MANUFACTURERS RECOMMENDATIONS. PIPE SIZE TO MATCH CONNECTION SIZE.

TMV-1 CALEFFI THERMOSTATIC MIXING VALVE LEGIOMIX 6000-SERIES-600056A; 3/4-INCH VALVE, ASSE Standard 1017. OUTLET TEMPERATURE SET AT 118 DEG.F. MAX. PIPE PER MANUFACTURERS WRITTEN INSTRUCTIONS. PROVIDE THE FOLLOWING ITEMS WITH VALVE: LEGIOMIX DIGITAL CONTROLLER; 3/4-INCH NA51 SERIES S.S. CHECK VALVES; 24V 3-WIRE FLOATING ACTURATOR; MIXED OUTLET WATER TEMPERATURE SENSOR; RETURN WATER (RECIRCULATION) TEMPERATURE SENSOR; MIXED OUTLET WATER TEMPERATURE GAUGE; ACTUATOR MOUNTING CLIP; AND 24V POWER TRANSFORMER. PROVIDE FACTORY STARTUP AND BALANCE, AND OWNER TRAINING.

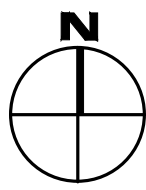
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0 1/2"=1'-0"
3/8"=1'-0"



PLAN NOTES – PLUMBING

- 1/2" CALEFFI QUICKSETTER BALANCING VALVE WITH TEMPERATURE GAUGE – 2.5-GPM.
- 1/2" DHWR, 1" DHW, 1 1/2" DCW SUPPLIES DOWN TO CRAWL SPACE. PROVIDE SHUT-OFF VALVE ON EACH DROP.

FLOOR PLAN – ABOVE FLOOR PLUMBING
1/4" = 1'-0"
0 1 2 3 4 feet



CONSULTANTS:

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RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

PROJECT TITLE:

ISSUE OR REVISION:

10.22.2021	PERMIT & BID SET
DATE	ISSUE / REVISION
DESIGNED:	RFY
DRAWN:	RFY
CHECKED:	RFY

TPA COMMISSION NUMBER: 20026

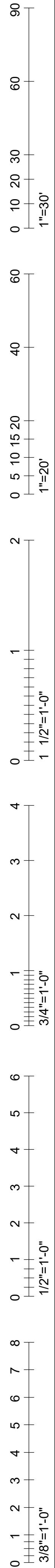
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FLOOR PLAN –
ABOVE FLOOR PLUMBING

DRAWING NUMBER:

P2.1

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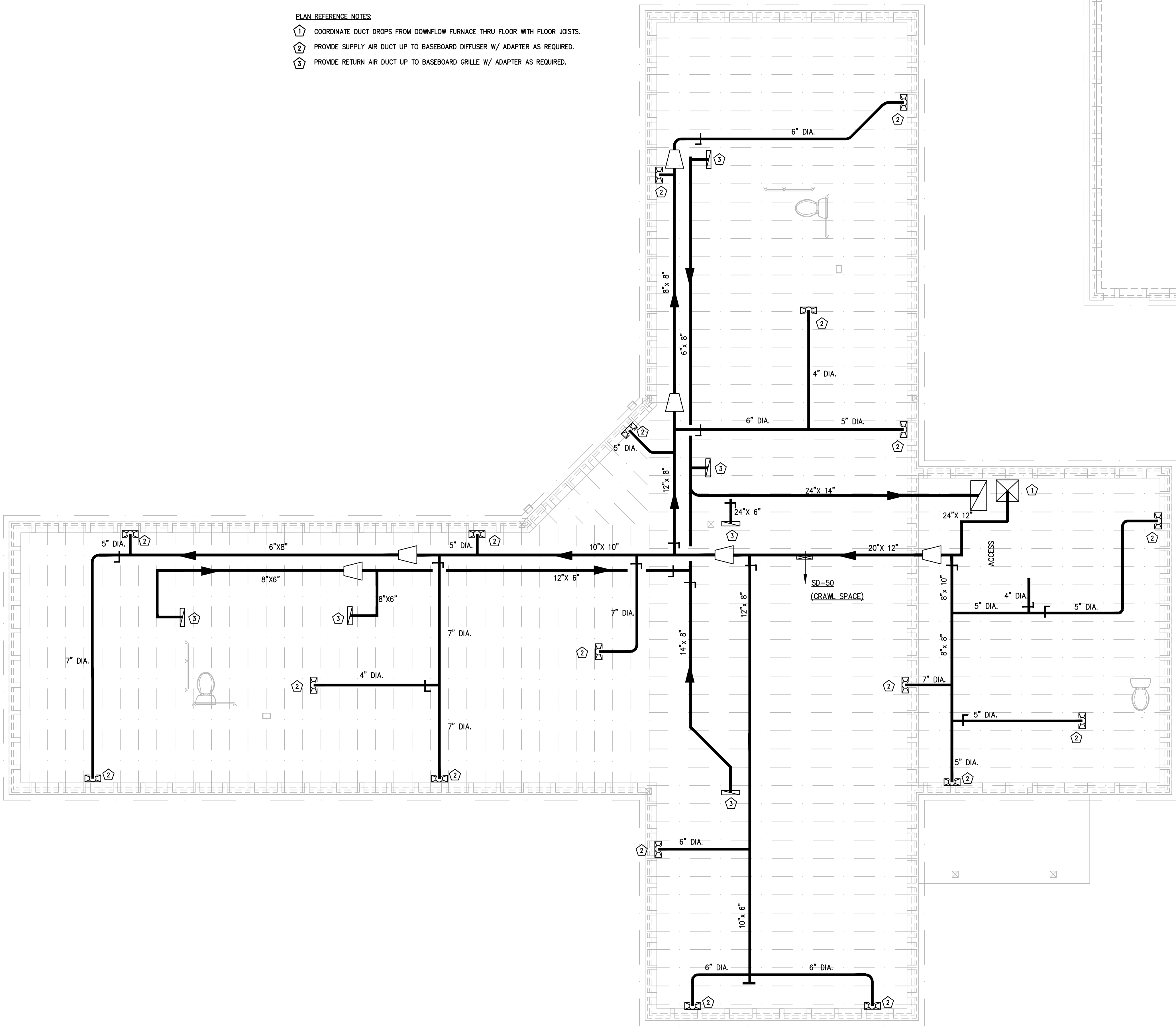


GENERAL NOTES:

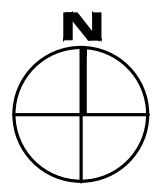
- COORDINATE DUCTS WITH PLUMBING PIPING, ACCESS DOORS, FLOOR JOISTS AND SIZING OF DUCTS PENETRATING WALLS. SEE ARCHITECTURAL PLANS.
- PROVIDE DUCT TRANSITION TO DIFFUSER OR REGISTER AS NEED.

PLAN REFERENCE NOTES:

- COORDINATE DUCT DROPS FROM DOWNFLOW FURNACE THRU FLOOR WITH FLOOR JOISTS.
- PROVIDE SUPPLY AIR DUCT UP TO BASEBOARD DIFFUSER W/ ADAPTER AS REQUIRED.
- PROVIDE RETURN AIR DUCT UP TO BASEBOARD GRILLE W/ ADAPTER AS REQUIRED.



FLOOR PLAN - CRAWL SPACE HVAC
1/4" = 1'-0"



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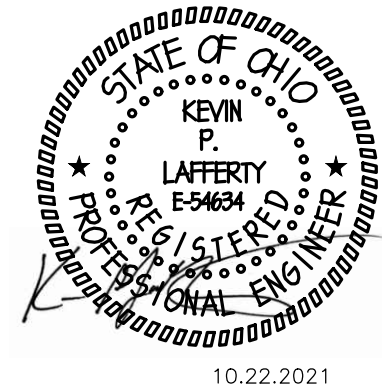
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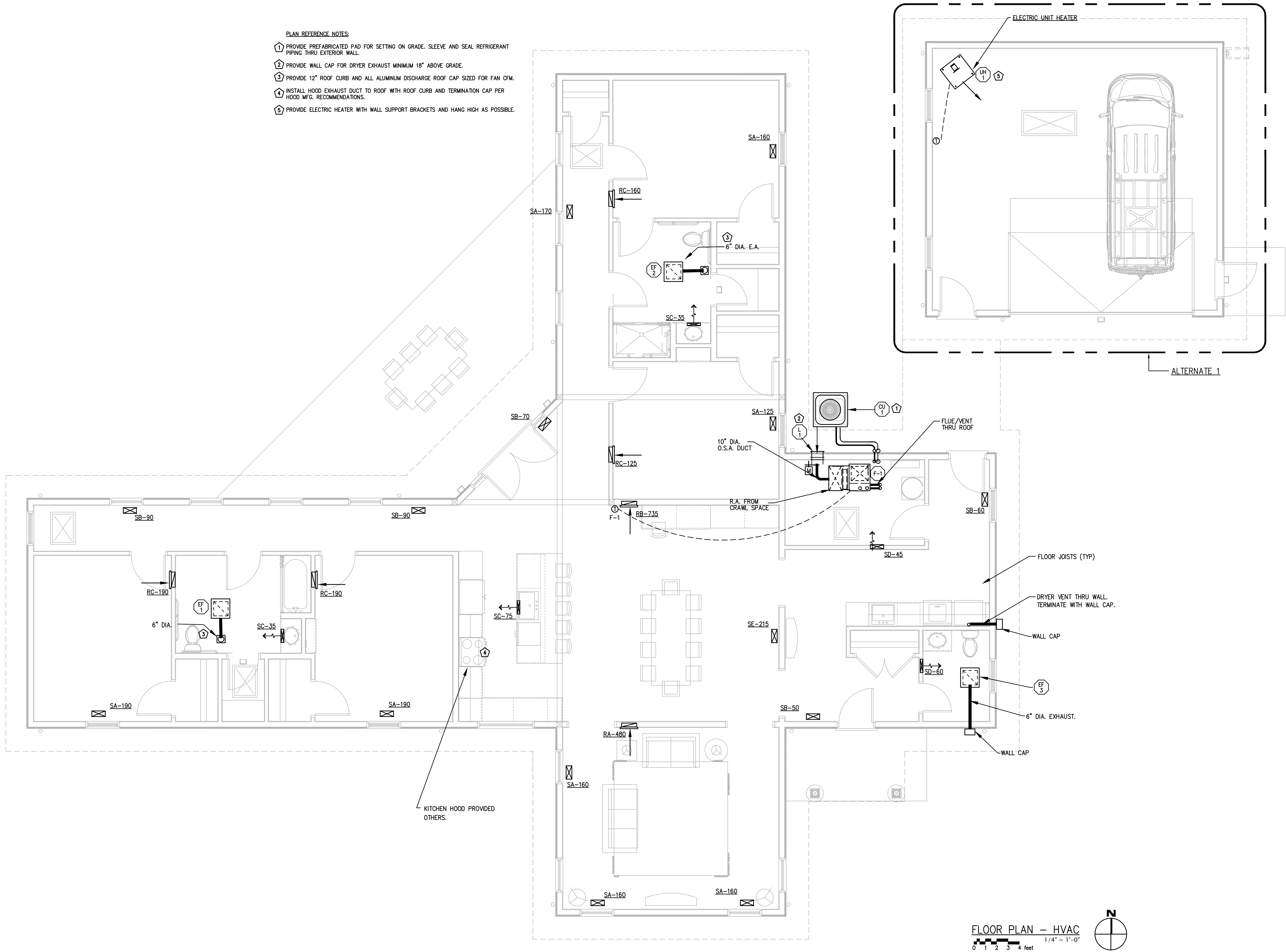
FLOOR PLAN -
CRAWL SPACE HVAC

DRAWING NUMBER:

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- PLAN REFERENCE NOTES:
- 1 PROVIDE PREFABRICATED PAD FOR SETTING ON GRADE. SLEEVE AND SEAL REFRIGERANT PIPING THRU EXTERIOR WALL.
 - 2 PROVIDE WALL CAP FOR DRYER EXHAUST MINIMUM 18" ABOVE GRADE.
 - 3 PROVIDE 12" ROOF CURB AND ALL ALUMINUM DISCHARGE ROOF CAP SIZED FOR FAN CFM.
 - 4 INSTALL HOOD EXHAUST DUCT TO ROOF WITH ROOF CURB AND TERMINATION CAP PER HOOD MFG. RECOMMENDATIONS.
 - 5 PROVIDE ELECTRIC HEATER WITH WALL SUPPORT BRACKETS AND HANG HIGH AS POSSIBLE.



FLOOR PLAN -- HVAC
1/4" = 1'-0"
0 1 2 3 4 feet

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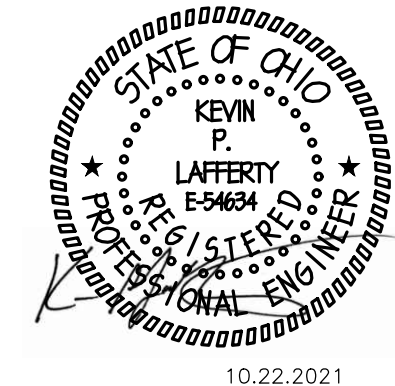
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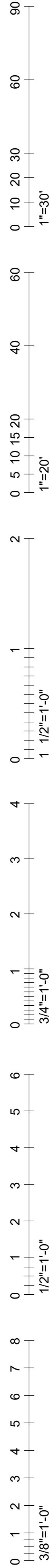
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DRAWING TITLE:

FLOOR PLAN --
HVAC

DRAWING NUMBER:

M1.1



GAS FIRED FURNACE SCHEDULE

TAG	LOCATION		CONFIGURATION	FAN SECTION					HEATING SECTION					COOLING SECTION					ELECTRICAL DATA					FILTER SECTION				ACCESSORIES				MAKE	MODEL	REMARKS
	DWG.	ROOM		CFM	OA	ESP	DRIVE	HP	EAT	LAT	MBH IN	MBH OUT	GAS PRESS.	EAT DB/WB	LAT DB/WB	TOT MBH	SENS MBH	APD	REFIG.	SPEED	VOLTAGE	AMPS	CKT. BKR.	TYPE	MEDIA	MERV	THICK	DISC.	T-STAT	COND. PUMP	HUMIDIFIER			
F-1	M2.0	MECH. RM.	VERTICAL DOWNFLOW	1,990	165	0.60"	DIRECT	1	68.4°F	95.0°F	100.0	97.0	7-14" w.c.	75.3°F/63.9°F	56.0°F/54.3°F	51.3	38.6	0.28"	R-410	VARIABLE	115-1-60	14.7	20	T.A.	PLEATED	8	4"	YES	YES	YES	YES	TRANE	XV95	

HUMIDIFER

TYPE	UNITS SERVED	TYPE	GPD	MAKE	MODEL	REMARKS
WHOLE HOUSE	F-1	EVAPORATIVE	12	APRILAIRE	MODEL 500	SEE NOTE BELOW
INCLUDE: 24 VAC TRANSFORMER, AUTOMATIC DIGITAL CONTROL, OUTDOOR TEMPERATURE SENSOR, SADDLE VALVE, SOLENOID VALVE, AND WATER PANEL.						

FAN SCHEDULE

TAG (*)	LOCATION		AREA SERVED	TYPE	CFM	ESP	MOTOR				DRIVE	SONES	CONTROL	ACCESSORIES			OPERATING WEIGHT	MAKE	MODEL	REMARKS
	DWG.	AREA					AMPS	WATTS	RPM	VOLTAGE				DISC	B/D DMPR	DISC				
EF-1 & 2	M1.0	TOILET ROOMS	MEN/WOMEN	RECESSED CABINET	120	0.375"	1.30	113	1400	120-1-60	DIRECT	2.5	LIGHT SWITCH	PLUG-IN	INTEGRAL	INTEGRAL	17 Lbs.	GREENHECK	SP-A190	PROVIDE SLOPED ROOF CAP

HEATER SCHEDULE (ELECTRIC) ALTERNATE 1

TAG	LOCATION		CABINET ARRANGEMENT				BTUH	CFM	KW	VOLTAGE	AMPS	ACCESSORIES			FINISH	MAKE	MODEL	REMARKS
	DWG.	AREA	TYPE	MOUNTING	INLET	OUTLET						T-STAT	FILTER	DISCON.				
UH-1	-	GARAGE	PROP. HEATER	WALL BRACKETS	BACK	FRONT	17100	200	5.0	208/1/60	24.1	WALL MOUNT	N/A	BUILT-IN	STANDARD	MARKEL	HF1208515	5100 SERIES HORIZONTAL- 17"H x14"W X 6"D

NOTE: SELECTIONS BASED ON: EAT 65°F, LAT 85 °F, PROVIDE RADIAL DIFFUSER.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

TAG	SERV.	TYPE	NECK	MAX CFM	SP	PATTERN	MAX NC	DAMPER	NOM MODULE	MTG	FINISH	MAKE	MODEL	REMARKS
SA	SUPPLY	BASEBOARD DIFFUSER	18" LONG	220	0.040	BLANKET	<15	YES	18" LONG	BASEBOARD	WHITE	HART & COOLEY	406	
SB	SUPPLY	BASEBOARD DIFFUSER	15" LONG	100	0.040	BLANKET	<15	YES	15" LONG	BASEBOARD	WHITE	HART & COOLEY	406	
SC	SUPPLY	TOE SPACE GRILLE	2"x 12"	75	0.031	MULTI-BLADE	<15	NO	-	SURFACE	WHITE	HART & COOLEY	420	
SD	SUPPLY	WALL REGISTER	6" x 6"	80	0.035	3-WAY DEFL.	<15	YES	-	SURFACE	WHITE	HART & COOLEY	683	
SE	SUPPLY	FLOOR DIFFUSER	10" x 6"	215	0.035	MULTI-ANGLE	<15	YES	-	FLOOR	WHITE	HART & COOLEY	411	
RA	RETURN	WALL RETURN	14" x 10"	480	0.023	20 DEG. FIN.	<15	NO	-	SURFACE	WHITE	HART & COOLEY	650	
RB	RETURN	WALL RETURN	20" x 14"	735	0.023	20 DEG. FIN.	<15	NO	-	SURFACE	WHITE	HART & COOLEY	650	
RC	RETURN	WALL RETURN	14" x 6"	190	0.023	20 DEG. FIN.	<15	NO	-	SURFACE	WHITE	HART & COOLEY	650	

NOTE : CONFIRM FINAL COLOR AND FINISH WITH ARCHITECT

LOUVER SCHEDULE

TAG	LOCATION		UNITS SERVED	TYPE	CFM	VELOCITY	MINIMUM FREE AREA	SP	SIZE			SCREEN		FINISH	MAKE	MODEL	REMARKS
	DWG	AREA							LENGTH	HEIGHT	DEPTH	TYPE	LOCATION				
LV-1	M1.0	EXTERIOR WALL	F-1	FIXED-DRAINABLE BLADE	300	500 FPM	0.5 SQ. FT.	0.030"	12"	12"	4"	BIRD	INTERIOR	ALUMINUM	RUSKIN	ELF-63750X	

INSTALL TO MAINTAIN 12'-0" MINIMUM DISTANCE FROM FLUE-VENT/COMBUSTION AIR CONCENTRIC VENTS. MOUNT TOP OF LOUVER AS HIGH AS POSSIBLE.

AIR COOLED CONDENSER SCHEDULE

TAG	SERVICE	TONS	MBH	SEER	COMPRESSORS		COND. FANS		ELECTRICAL DATA			OPERATING WT. (lbs.)	MAKE	MODEL	REMARKS
					NO.	STAGES	NO.	FLA	VOLTAGE	MCA	MFA				
CU-1	FURNACE F-1	5.0	53.6	17.0	1	1 STAGE	1	3.1	208/230/1/60	34.0	50	300	TRANE XR16	TTR060	36.0" L x 40.0" H x 36.0" W, SINGLE STAGE

NOTES: PROVIDE COIL GUARDS AND FABRICATED PAD FOR GROUND MOUNTING.

ASHRAE VENTILATION RATE SCHEDULE

UNIT TYPE	SERVICE AREA	CFM/SF REQUIRED	NUMBER OF PEOPLE	CFM/PERSON REQUIRED	SYSTEM EFFECTIVENESS	CODE REQUIRED VENTILATION	VENTILATION PROVIDED	REMARKS
FURNACE F-1	2080 S.F.	0.06	8	5	1.0	165	165 CFM	

LEGEND AND SYMBOLS			
A.F.F.	ABOVE FINISHED FLOOR	E.C.	ELECTRICAL CONTRACTOR
A.H.A.P.	AS HIGH AS POSSIBLE	M.C.	MECHANICAL CONTRACTOR
A.R.D.	ABOVE ROOF DECK	P.C.	PLUMBING CONTRACTOR
B.D.	BALANCING DAMPER	T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
D.D.C.	DIRECT DIGITAL CONTROL	T.B.C.	TEST & BALANCE CONTRACTOR
DIA.	DIAMETER		AIRFLOW DIRECTION
EX.	EXISTING		BALANCING DAMPER
N.A.	NOT APPLICABLE		MOTORIZED BYPASS DAMPER
E.A.	EXHAUST AIR		MOTORIZED ZONE DAMPER
R.A.	RETURN AIR		THERMOSTAT W/ WIRING
S.A.	SUPPLY AIR		SPIN-IN FITTING W/ BALANCING DAMPER



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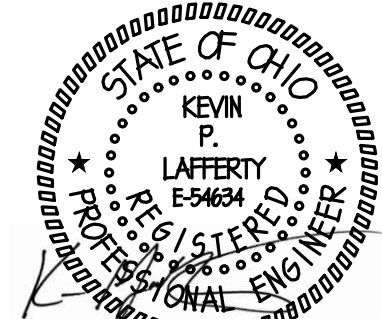


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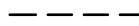
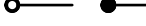
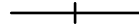
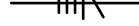
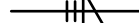


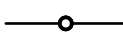

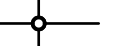








TPA COMMISSION NUMBER: 20026

DRAWING TITLE:

MECHANICAL DETAILS
& SCHEDULES

DRAWING NUMBER:

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




PLAN SYMBOL LEGEND				
SYMBOL	DESCRIPTION			
	INDICATES CONDUIT ABOVE GRADE, SURFACE MOUNTED OR CONCEALED INSIDE THE BUILDING SURFACE. EXPOSED CONDUIT ON THE BUILDING EXTERIOR WILL NOT BE ACCEPTED.			
	INDICATES CONDUIT BELOW GRADE OR UNDER FLOOR.			
	RACEWAY/CABLE TURNED UP, RACEWAY/CABLE TURNED DOWN.			
	INDICATES CONDUCTOR/CABLE IN CONDUIT, QUANTITY AS SHOWN.			
	INDICATES PHASE, NEUTRAL AND GROUND CONDUCTORS IN CONDUIT.			
	INDICATES (2) PHASE, NEUTRAL AND GROUND CONDUCTORS IN CONDUIT.			
	HOME RUN TO SOURCE PANELBOARD OR CONTROL PANEL.			
				JUNCTION BOX BLANK COVER.
	PACKAGED MOTOR STARTER PANEL FURNISHED WITH EQUIPMENT. WIRING TO LINE TERMINALS BY E.C.			
	MOTOR, HORSEPOWER AND VOLTAGE AS SCHEDULED.			
	MANUAL MOTOR SAFETY DISCONNECT SWITCH, HORSEPOWER RATED.			
	FUSED BOX COVER EDISON BASE WITH TOGGLE SWITCH AND PILOT LIGHT AND NEMA 5-15 RECEPTACLE; BUSSMANN S SERIES OR EQUAL. SELECT DUAL ELEMENT FUSE TO MATCH EQUIPMENT NAMEPLATE RATING.			
	INDOOR FUSIBLE SAFETY DISCONNECT SWITCH WITH SIZE AS INDICATED, NEMA 1 ENCLOSURE, NON-FUSED UNLESS NOTED OTHERWISE. FUSED UNITS WILL SHOW FUSE SIZE AS INDICATED WITH REJECTION STYLE FUSE CLIPS			
	OUTDOOR FUSIBLE SAFETY DISCONNECT SWITCH WITH SIZE AS INDICATED, NEMA 3R ENCLOSURE, NON-FUSED UNLESS NOTED OTHERWISE. FUSED UNITS WILL SHOW FUSE SIZE AS INDICATED WITH REJECTION STYLE FUSE CLIPS			
	COMBINATION LIGHTING AND RECEPTACLE BRANCH CIRCUIT BREAKER PANELBOARD; 120/240-1Ø-3W; SEE PANELBOARD SCHEDULE.			
	RECESSED I.C. RATED COMBINATION EXHAUST FAN F.B.M.C.			





COMMUNICATIONS CONNECTIVITY SCHEDULE	
SYMBOL	DESCRIPTION
Ⓑ	PROVIDE BLANK COVERPLATE FOR OUTLET; MATCH OUTLET BOX/PLASTER RING.
①	COMMUNICATIONS OUTLET CONSISTING OF ONE (1) CAT-6 RJ45 MODULAR JACK WITH ONE (1) CAT-6 UTP CABLE ROUTED TO LOCAL T.C.; SINGLE GANG 2-PORT FACEPLATE WITH 1-BLANK.
Ⓣ	TELEVISION OUTLET (1-COAX) CONSISTING OF 1-PORT SINGLE GANG, FLUSH FACEPLATE, AND (1) F-CONNECTOR WITH (1) RG6 COAX CABLE ROUTED TO T.C. OR COAXIAL EQUIPMENT.

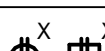
LUMINAIRE SCHEDULE - GENERAL											
TYPE MARK	DESCRIPTION	LED DATA			INPUT WATTS	VOLTAGE	MOUNTING	Model	APPROVED EQUAL	NOTES	
		CRI	TEMP.	LUMENS							
A	STEP LIGHT, LED, AMBER		3000 K	38 lm	4 VA	120 V	WALL MOUNT 12" A.F.F. TO BOTTOM	KENALL #MCSL-HR-MW-2LAMB-DV-BPC	BEGA		
B	WALL SCENCE, LED	90	3000 K	800 lm	10 VA	120 V	WALL MOUNT 7-8" A.F.F. TO BOTTOM	KICHLER #50960ZSL18	-		
D1	DOWNLIGHT, LED, 6" DIA., WHITE BAFFLE	90	3000 K	860 lm	11 VA	120 V	RECESSED	LITHONIA #B8PMW-HL LED-30K 90TH	GREE, HALO	3	
D2	DOWNLIGHT, LED, 4" DIA., REGRESSED LENS, WHITE TRIM, NON-CONDUCTIVE	90	3000 K	750 lm	8 VA	120 V	RECESSED	GOTHAM #EVO43SH-3007-DFR-SMAG-120-EX10	CREE, HALO	5	
D3	DOWNLIGHT, LED, 6" DIA., WHITE PAINTED FLANGE	90	3000 K	2000 lm	20 VA	120 V	RECESSED	GOTHAM #EVO6-30/20-AR-MD-LS-120-GZ10-TRW	CREE, HALO	5	
D4	DOWNLIGHT, LED, 6" DIA., WHITE PAINTED FLANGE, WET LOCATION	90	3000 K	750 lm	9 VA	120 V	RECESSED	GOTHAM #EVO6-30/07-AR-WD-LS-120-GZ10-TRW	CREE, HALO	4,5	
E1	THERMOPLASTIC, EMERGENCY LIGHTING UNIT				3 VA	120 V	WALL	LITHONIA - #ELM4L	SURE-LITES, CHLORIDE	1	
L1	2" LONG LED STRIP, DROP LENS, WITH INTEGRATED OCCUPANCY SENSOR	80	3000 K	1500 lm	15 VA	120 V	SURFACE MOUNT ON WALL 6" ABOVE CLO DOOR	LITHONIA #ZL1D-124-1500LM-FST-120-30K-80CRI-LSV2	METALUX, COLUMBIA		
L2	4" LONG LED STRIP, DROP LENS	80	3000 K	3000 lm	30 VA	120 V	SURFACE MOUNT	LITHONIA #ZL1D-148-3000LM-FST-120-30K-80 CRI	METALUX, COLUMBIA		
L3	18" LONG LED UNDERCABINET LIGHT	90	3000 K	630 lm	14 VA	120 V	SURFACE MOUNT TO BOTTOM OF CABINETS	LITHONIA #RAZ-18IN-30K-90CRI	METALUX, COLUMBIA	4	
P1	MINI-PENDANT, LED, WHITE GLASS LENS	90	3000 K	300 lm	6 VA	120 V	CABLE HUNG 8"-0" A.F.F. TO BOTTOM	TECH LIGHTING #700-FJ-W-S-LED5930	-		
P2	CHANDIEIER, 32" DIA, 9-LAMP	90	3000 K	5000 lm	90 VA	120 V	PENDANT MOUNT 8'-0" A.F.F. TO BOTTOM	KICHLER #A3924NLI18	-		
W1	WALL SCENCE, LED,WET LOCATION	80	3000 K	600 lm	10 VA	120 V	WALL MOUNT 7'-0" A.F.F. TO BOTTOM	KICHLER #496860Z WITH 75W EQUIVALENT A19 LED BULB	-	2	


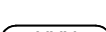


LUMINAIRE SCHEDULE NOTES - GENERAL

- | | |
|--|---|
| <p>A. SPECIFICATION NUMBERS ARE MANUFACTURERS SERIES NUMBER AND MAY NOT BE COMPLETE. IT IS THE RESPONSIBILITY OF THE SUPPLIER/CONTRACTOR TO COMPLETE CATALOG NUMBERS TO MATCH THE LUMINAIRE DESCRIPTION, COMPLIANCE WITH SPECIFICATIONS AND INSTALLATION REQUIREMENTS.</p> | <p>F. LUMINAIRES SHALL BEAR THE LABEL OF APPROVAL OF THE UNDERWRITERS LABORATORIES, INC (UL).</p> |
| <p>B. LUMINAIRE SUPPLIER/CONTRACTOR SHALL COORDINATE ALL LUMINAIRE DRAWING COORDINATIONS WITH THE CONTROLS AND PROVIDE ADEQUATE SHOP DRAWING SUBMITTALS CONFIRMING LUMINAIRE AND CONTROL COMPATIBILITY FOR ALL APPLICATIONS FOR THE PROJECT.</p> | <p>G. LUMINAIRES TO BE LISTED 'ENERGY STAR QUALIFIED'.</p> |
| <p>C. LED DRIVERS TO BE 0-10V DIMMING TO 10% MINIMUM UNLESS NOTED OTHERWISE.</p> | <p>H. CONFIRM CEILING TYPES WITH ARCHITECTURAL, REFLECTED CEILING PLANS AND ROOM FINISH SCHEDULES PRIOR TO ORDERING TRIM AND MOUNTING HARDWARE.</p> |
| <p>D. VERIFY FINAL LUMINAIRE COLORS AND FINISH WITH THE ARCHITECT PRIOR TO ORDERING.</p> | <p>I. REVIEW ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON FIXTURE LOCATIONS, ARRANGEMENTS AND MOUNTING HEIGHTS.</p> |
| <p>E. LUMINAIRES OF EACH TYPE SHALL BE OF THE SAME MANUFACTURER AND SERIES.</p> | <p>J. VERIFY FINAL LUMINAIRE OUTPUT COLOR TEMPERATURE AND EXPOSED FINISHES WITH THE ARCHITECT PRIOR TO ORDERING.</p> |
| | <p>K. RECESSED FIXTURES AND ROUGH-IN BOXES FOR SURFACE FIXTURES SHALL BE SEALED TO COMPLY WITH THE OHIO RESIDENTIAL CODE 4101-8-1105.2.4.5.</p> |

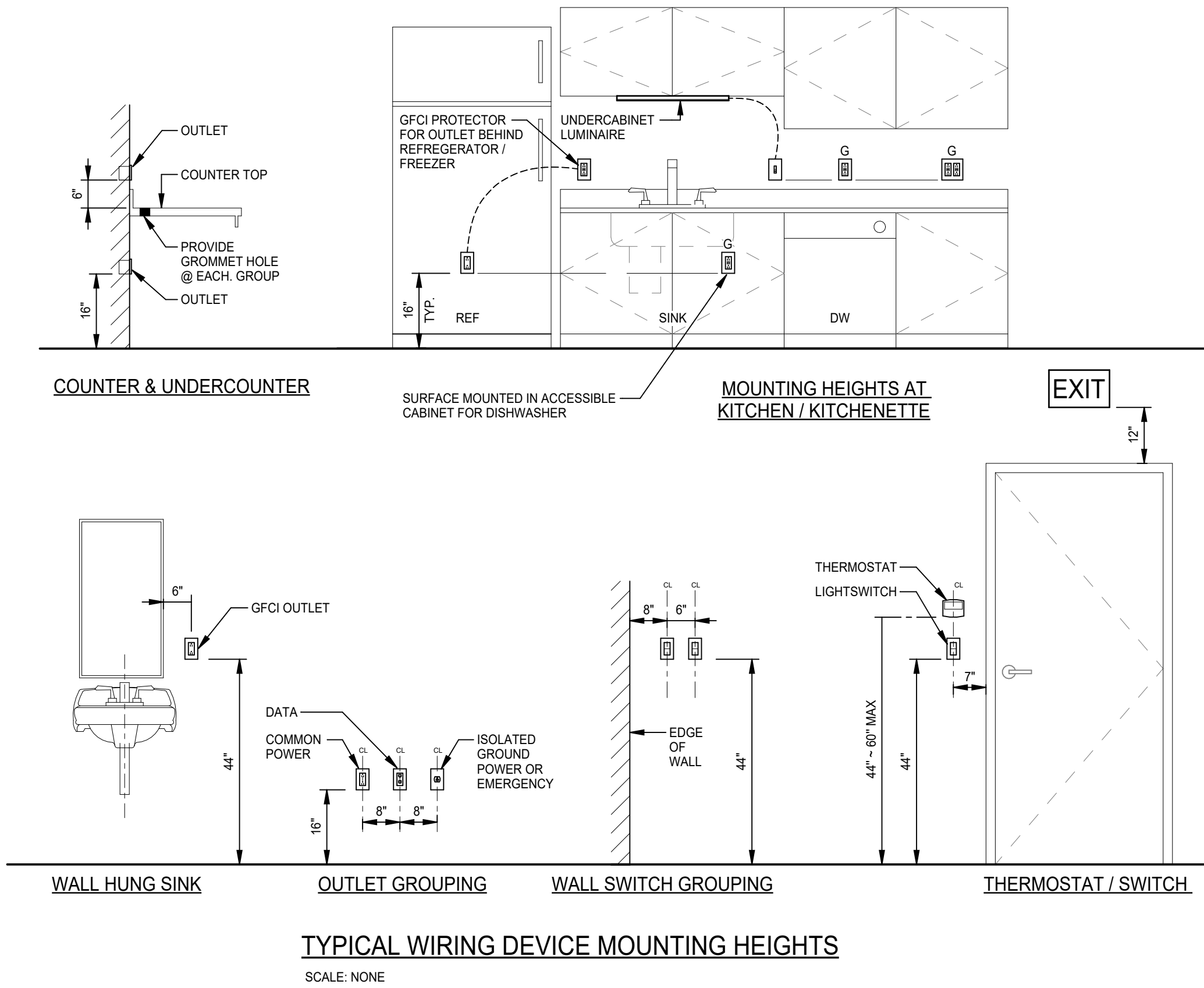
LIGHTING CONTROLS SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	SINGLE POLE WALL SWITCH, 20A-120/277V, FLUSH MOUNTED.
	3-WAY WALL SWITCH, 20A-120/277V; FLUSH MOUNTED.
	SINGLE POLE 0-10VOLT WALL DIMMER SWITCH WITH RAISE/LOWER PUSH BUTTONS AND SEPARATE ON/OFF SWITCH. 20A-120/277V, FLUSH MOUNTED.; DIMMER SHALL BE COMPATIBLE WITH LED LIGHT FIXTURES IT IS CONTROLLING. PROVIDE 3 WAY STYLE WHERE INDICATED WITH "3".
	PILOT LIGHTED SWITCH, 20A-120/277V; FLUSH MOUNTED.
	WALL PLATE OCCUPANCY SENSOR, MULTI-TECHNOLOGY, AUTOMATIC ON, LINE VOLTAGE, FLUSH MOUNTED, UTOMATIC, ADJUSTABLE TIME DELAY OFF SET AT 10 MINUTES; NUIGHT #WSX P.D.T OR EQUAL.
	DUSK ON/DAWN OFF SPST PHOTOELECTRIC CELL, 120V, MOUNT AT ROOF LINE FACING NORTH; TORK 2000 SERIES OR ENGINEER APPROVED EQUAL.

WIRING DEVICE SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	TAMPER DUPLEX OR DOUBLE DUPLEX RECEPTACLE, GROUNDING TYPE, NEMA 5-20R, 20A-120V; FLUSH MOUNTED. REFER TO ABBREVIATIONS.
	DRYER RECEPTACLE, GROUNDING TYPE, 30A-125/250V, NEMA 14-30R WITH 5' PIGTAIL AND MATCHING ANGLE CAP; FLUSH MOUNTED. ROUTE 3#10 & 1#10G - 3/4" C TO LOCAL BRANCH CIRCUIT PANELBOARD.
	RANGE RECEPTACLE, GROUNDING TYPE, 50A-125/250V, NEMA 14-50R WITH 5' PIGTAIL AND MATCHING ANGLE CAP; FLUSH MOUNTED. ROUTE 3#6 & 1#10G - 3/4" C TO LOCAL BRANCH CIRCUIT PANELBOARD.
	VOICE/DATA OUTLET, 2 1/2" DEEP, 4" SQUARE BOX WITH 1-GANG PLASTER RING, STUB 1" ABOVE ATTIC OR CRAWL SPACE WITH 90° ELBOW AND INSULATED BUSHING, FLUSH MOUNTED, M.H. 16" A.F.F. U.N.O. INSTALL BLANK COVER PLATES ON ALL UNUSED OPENINGS TO MATCH WIRING DEVICE COVER PLATES.





	RECEPTACLE TYPE ABBREVIATIONS
C	CEILING MOUNTED OUTLET. #USB15X2xx OR EQUAL.
G	GFIC OUTLET OR GFIC PROTECTED OUTLET.
U	DUPLEX RECEPTACLE WITH USB TYPE A AND C CHARGING PORT OUTLETS ; HUBBELL #USB15X2xx OR EQUAL.
WP	WEATHERPROOF GROUND FAULT INTERRUPTER OUTLET, LISTED WEATHER RESISTANT , POLYCARBONITE "WHILE IN USE" COVER; FLUSH MOUNTED WITH RECESSED BOX IN THE BUILDING EXTERIOR FINISH.

MISCELLANEOUS SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	MECHANICAL EQUIPMENT SCHEDULE ITEM, SEE SCHEDULE.
	FEEDER SCHEDULE ITEM, SEE SCHEDULE.
	PLAN NOTE ITEM.
	RISER NOTE ITEM.

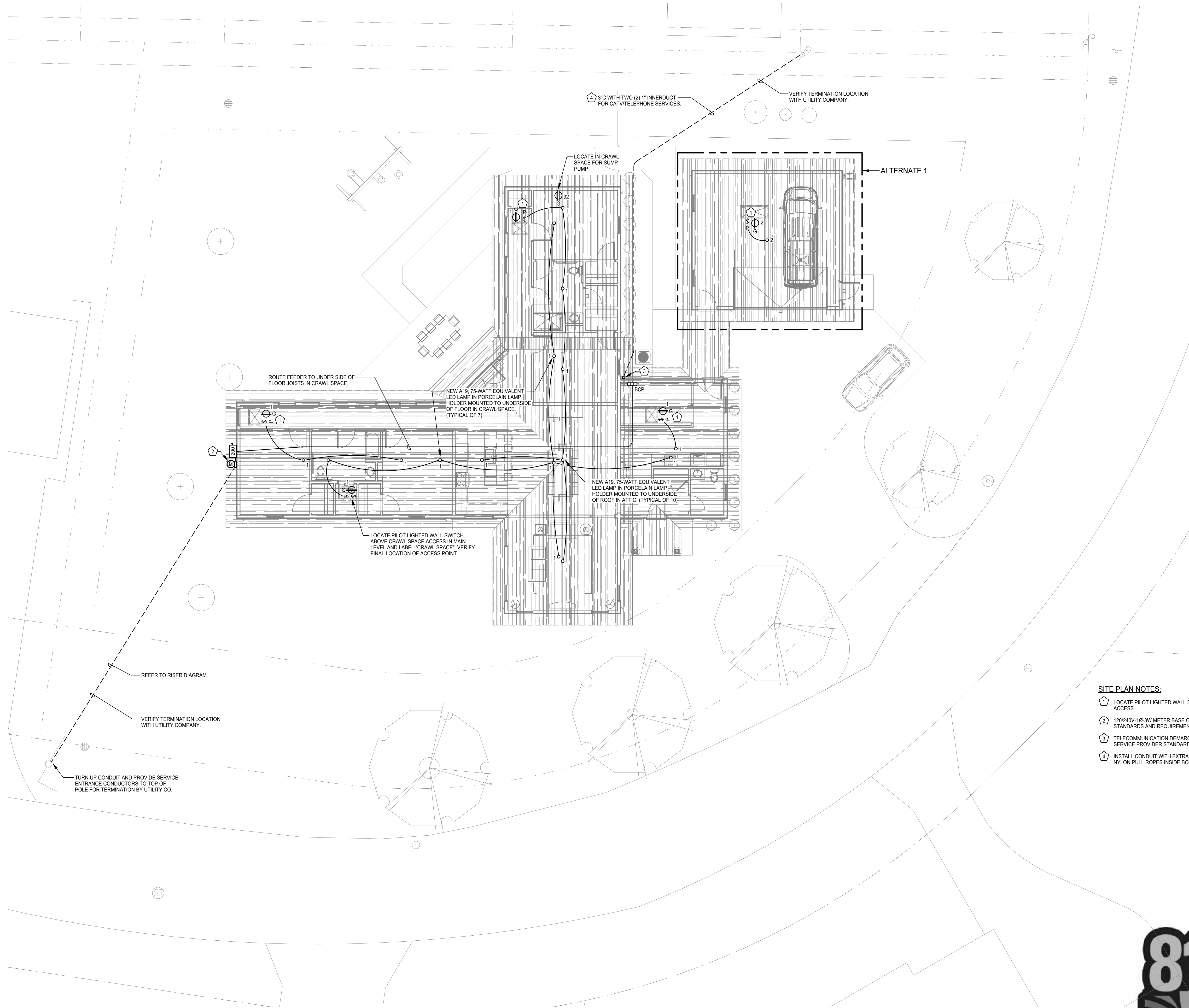
ALARM SYMBOL LEGEND - STANDARD
DESCRIPTION
PHOTOELECTRIC TYPE, 120VAC WITH BATTERY BACK-UP, HORN AND STROBE WITH RELAY MODULE FOR TANDEM
PHOTOELECTRIC TYPE, 120VAC WITH BATTERY BACK-UP, HORN AND STROBE WITH RELAY MODULE FOR TANDEM
ING MOUNTED, 120VAC BATTERY BACK-UP, HORN AND STROBE WITH RELAY MODULE FOR TANDEM
MOUNTED, PHOTOELECTRIC TYPE, 120VAC WITH BATTERY BACK-UP, HORN AND STROBE WITH RELAY MODULE FOR
E, MOUNT IN ACCESSIBLE FLUSH COVER JUNCTION BOX.
ULE, MOUNT IN JUNCTION BOX; VERIFY OUTPUT CONTACT REQUIREMENTS WITH CONTROLLED EQUIPMENT.
WATER FLOW SWITCH, F.B.F.P., 2#14-1/2" TO AM.
GATE VALVE TAMPER SWITCH, F.B.F.P., 2#14-1/2" TO AM.
E MOUNTED.



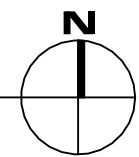
ABBREVIATIONS			
ABBREVIATIONS ARE FOR REFERENCE ONLY AND MAY OR MAY NOT BE USED ELSEWHERE IN CONSTRUCTION DOCUMENTS			
A	AMPERE	KVA	KILOVOLT-AMPERE
AC	ALTERNATING CURRENT	L.A.D.	LOCATE AS DIRECTED
A.F.C.I.	ARC-FAULT CIRCUIT INTERRUPTER (ARC-FAULT PROTECTION)	LTG.	LIGHTING
A.F.F.	MOUNTING HEIGHT ABOVE FINISHED FLOOR	L.V.	LOW VOLTAGE
A.F.G.	MOUNTING HEIGHT ABOVE FINISHED GRADE	M.C.B.	MAIN CIRCUIT BREAKER
A.H.J.	AUTHORITY HAVING JURISDICTION	M.H.	MOUNTING HEIGHT, FLOOR TO BOTTOM OF ITEM
A.I.C.	AMP INTERRUPTING CIRCUIT	MIN	MINIMUM
AL	ALUMINUM	MISC	MISCELLANEOUS
AWG	AMERICAN WIRE GAUGE	N	NEUTRAL
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
CKT.	CIRCUIT	N.F.	NON-FUSED SAFETY DISCONNECT AND/OR COMBINATION STARTER
C.L.	CENTERLINE	N.I.C.	WORK NOT IN CONTRACT
CU	COPPER	OCPD	OVERCURRENT PROTECTION DEVICE
DWG	DRAWING	P.C.	PLUMBING CONTRACTOR
EA.	EACH	RECEPT.	RECEPTACLE
E.C.	ELECTRICAL CONTRACTOR	R.N.C.	RIGID NON-METALLIC CONDUIT.
E.M.T.	ELECTRICAL METALLIC TUBING.	STD.	STANDARD
FACP	FIRE ALARM CONTROL PANEL	TV	TELEVISION
FLA	FULL LOAD AMPS	U.G.	BELOW GRADE (UNDERGROUND)
F.P.	FIRE PROTECTION CONTRACTOR	U.N.O.	UNLESS NOTED OTHERWISE
G	GROUND	U.T.P.	UNSHIELDED TWISTED PAIR
G.C.	GENERAL CONTRACTOR	V	VOLTS
G.F.I.C.	GROUND FAULT INTERRUPTER CIRCUIT (GROUND FAULT PROTECTION)	VA	VOLT-AMPERE
G.R.C.	GALVANIZED RIGID STEEL CONDUIT	V.L.	VERIFY LOCATION WITH OWNER
G.W.B.	GYPSUM WALL BOARD	W	WATTS
HP	HORSEPOWER	W.I.C.	WORK IN CONTRACT
HVAC	HEATING, VENTILATING, AIR CONDITIONING	W.P.	WEATHERPROOF ITEM OR DEVICE
HZ	HERTZ	XFMR	TRANSFORMER
IL	INTERLOCK	F.B.O.	FURNISHED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR
F.B.X.X.	FURNISHED BY "XX", INSTALLED BY ELECTRICAL CONTRACTOR	I.C.	INSULATION CONTACT U.L. HOUSING

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<div style="text-align: center;"> mda engineering, inc. Mechanical and Electrical Engineers 1415 Holland Road Maumee, Ohio 43537 Phone: (419) 893-3141 Fax: (419) 893-0687</div>	
SEAL	
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<div style="text-align: center;">RESIDENTIAL RESPITE CENTER WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES</div>	
<div style="text-align: right;">41 ISLAND VIEW AVENUE ROSSFORD, OH 43460</div>	
PROJECT TITLE	
ISSUE OR REVISION	
10.22.2021	PERMIT & BID SET
DATE	ISSUE / REVISION
DESIGNED:	RSK
DRAWN:	RSK
CHECKED:	RJG
DAP COMMISSION NUMBER:	20026
DRAWING TITLE	
ELECTRICAL LEGENDS, SCHEDULES & DETAILS	
DRAWING NUMBER	
E1.0	

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OVERALL SITE PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"



Know what's below.
Call before you dig.

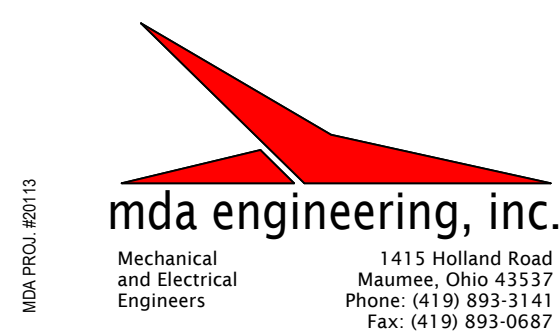


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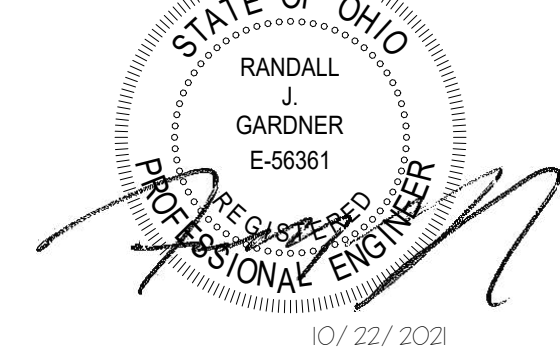
CONSULTANTS

ESA

Engineers, Surveyors & Associates, LLC
5555 Secor Rd., Toledo, Ohio, 43623 Phone (419) 475-9445



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ROSSFORD, OH 43460

PROJECT TITLE

ISSUE OR REVISION

10.22.2021 PERMIT & BID SET

DATE ISSUE / REVISION

DESIGNED: RSK

DRAWN: RSK

CHECKED: RJG

DAP COMMISSION NUMBER: 20026

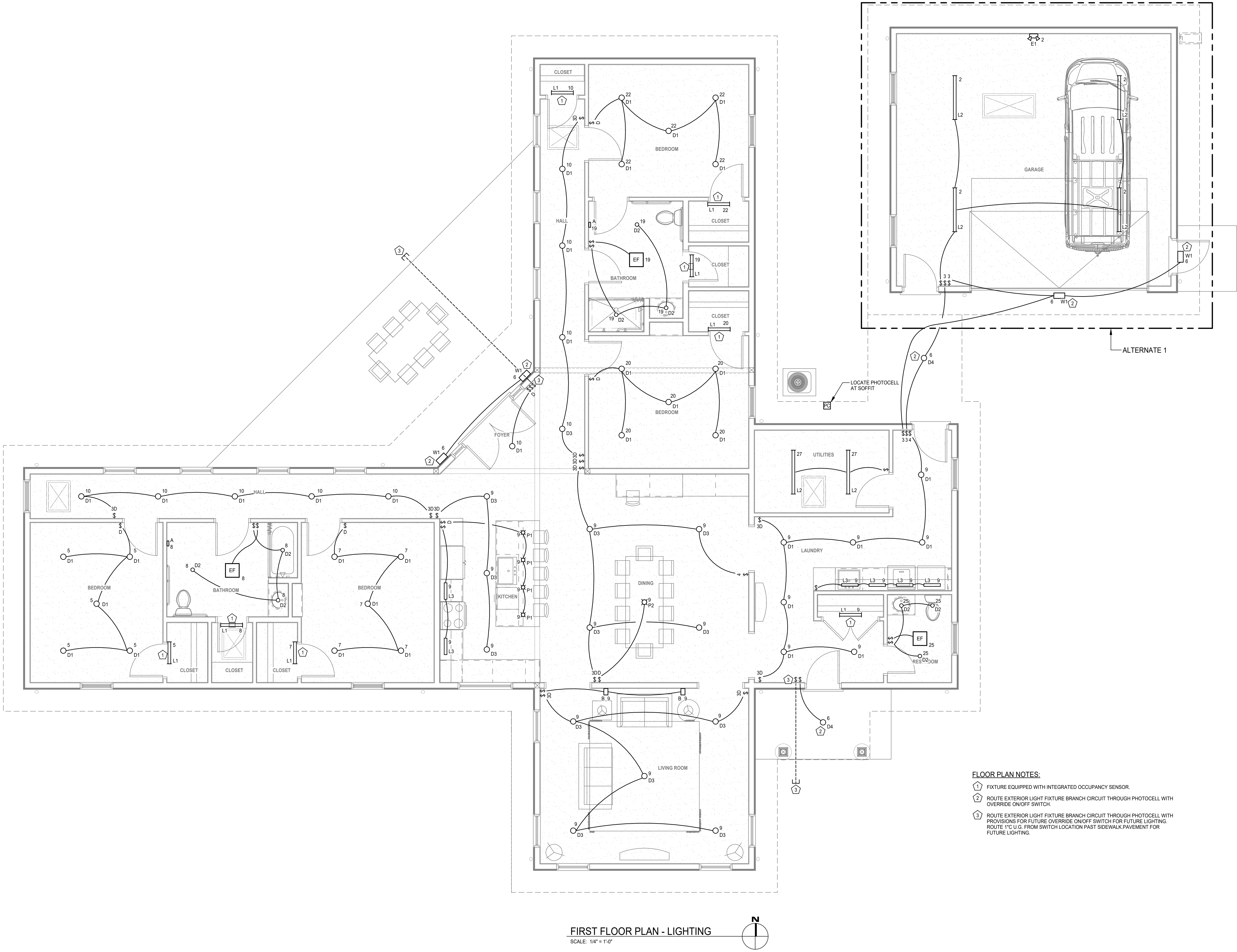
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SITE PLAN -
ELECTRICAL

DRAWING NUMBER

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- FLOOR PLAN NOTES:**
- 1 FIXTURE EQUIPPED WITH INTEGRATED OCCUPANCY SENSOR.
 - 2 ROUTE EXTERIOR LIGHT FIXTURE BRANCH CIRCUIT THROUGH PHOTOCELL WITH OVERRIDE ON/OFF SWITCH.
 - 3 ROUTE EXTERIOR LIGHT FIXTURE BRANCH CIRCUIT THROUGH PHOTOCELL WITH PROVISIONS FOR FUTURE OVERRIDE ON/OFF SWITCH FOR FUTURE LIGHTING. ROUTE 1" C U.G. FROM SWITCH LOCATION PAST SIDEWALK PAVEMENT FOR FUTURE LIGHTING.

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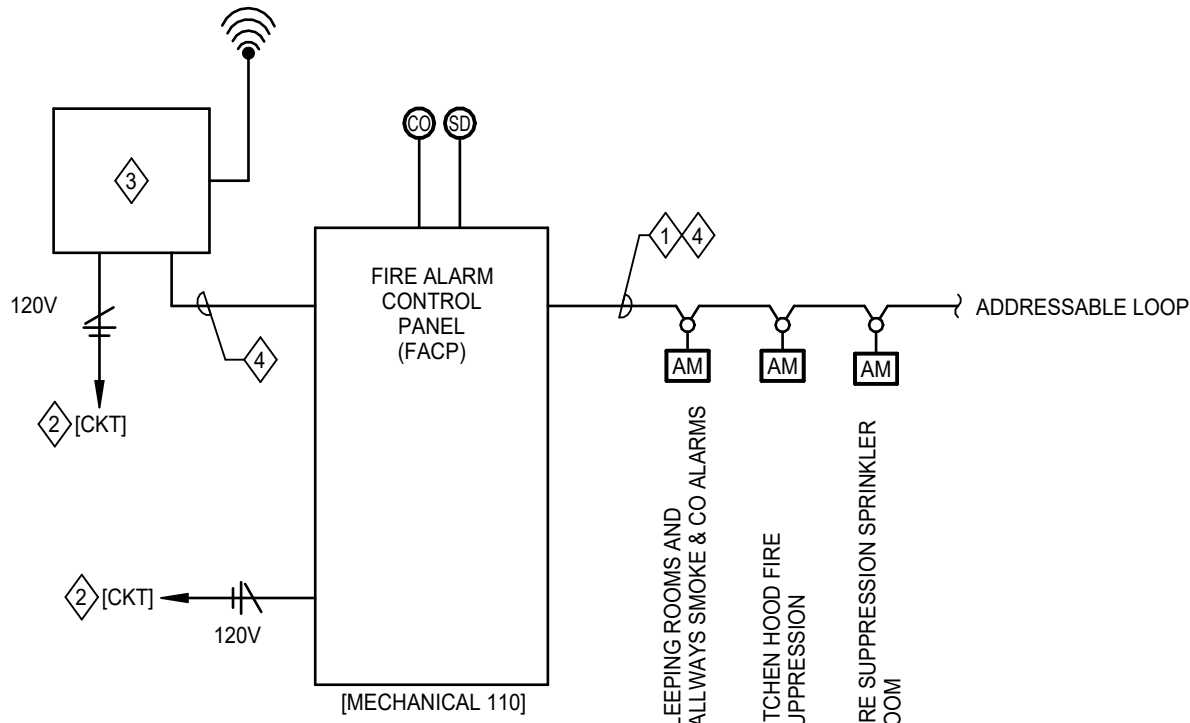
SEAL
STATE OF OHIO
RANDALL J. GARDNER
E-56361
Professional Engineer
10/22/2021
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PROJECT TITLE
RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES
41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

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**FIRST FLOOR PLAN -
LIGHTING**

DRAWING NUMBER
E3.0



FIRE ALARM RISER DIAGRAM

SCALE: NO SCALE

RISER DIAGRAM NOTES:

- ADDRESSABLE LOOP; SEE CABLE PATHWAY REQUIREMENTS.
- TO LOCAL BRANCH CIRCUIT PANELBOARD; REFER TO FLOOR PLANS FOR CIRCUITS. PROVIDE BRANCH BREAKER LOCKING STRAP AND IDENTIFICATION PER CODE.
- UL864 CELLULAR ALARM COMMUNICATOR WITH BATTERY BACKUP AND WIRELESS COMMUNICATIONS TO REMOTE CENTRAL STATION MONITORING CENTER; TELGUARD TG-7FS OR EQUAL WITH REMOTE ANTENNA AS REQUIRED BY FIELD CONDITIONS.
- CONDUCTORING AS REQUIRED/RECOMMENDED BY SYSTEM SUPPLIER.

FIRE ALARM CABLE PATHWAYS:

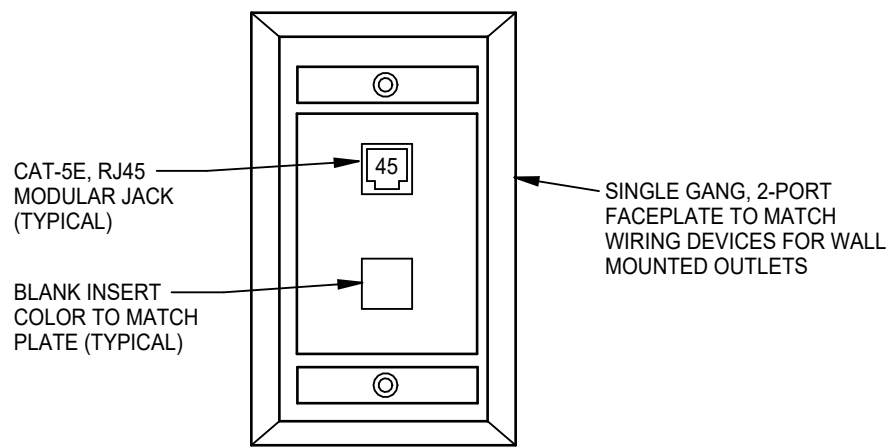
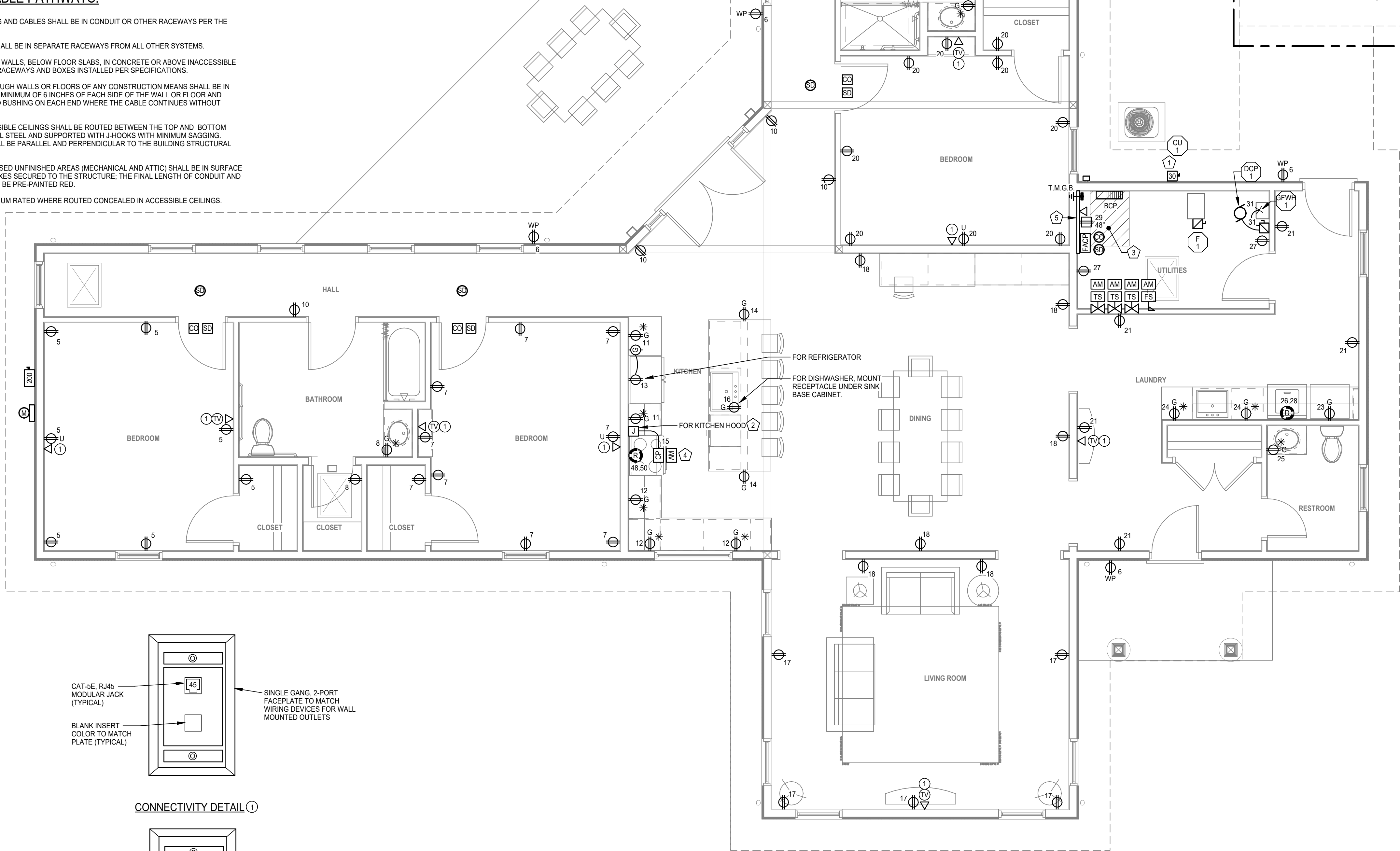
- ALL FIRE ALARM WIRING AND CABLES SHALL BE IN CONDUIT OR OTHER RACEWAYS PER THE SPECIFICATIONS.
- FIRE ALARM CABLES SHALL BE IN SEPARATE RACEWAYS FROM ALL OTHER SYSTEMS.
- CABLES CONCEALED IN WALLS, BELOW FLOOR SLABS, IN CONCRETE OR ABOVE INACCESSIBLE CEILINGS SHALL BE IN RACEWAYS AND BOXES INSTALLED PER SPECIFICATIONS.
- CABLES PASSING THROUGH WALLS OR FLOORS OF ANY CONSTRUCTION MEANS SHALL BE IN CONDUIT EXTENDING A MINIMUM OF 6 INCHES OF EACH SIDE OF THE WALL OR FLOOR AND INCLUDE AN INSULATED BUSHING ON EACH END WHERE THE CABLE CONTINUES WITHOUT RACEWAY.
- CABLES ABOVE ACCESSIBLE CEILINGS SHALL BE ROUTED BETWEEN THE TOP AND BOTTOM CHORD OF STRUCTURAL STEEL AND SUPPORTED WITH J-HOOKS WITH MINIMUM SAGGING. EXPOSED CABLES SHALL BE PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURAL COMPONENTS.
- CABLES IN OPEN, EXPOSED UNFINISHED AREAS (MECHANICAL AND ATTIC) SHALL BE IN SURFACE MOUNTED EMT AND BOXES SECURED TO THE STRUCTURE; THE FINAL LENGTH OF CONDUIT AND THE DEVICE BOX SHALL BE PRE-PAINTED RED.
- CABLES SHALL BE PLENUM RATED WHERE ROUTED CONCEALED IN ACCESSIBLE CEILINGS.

FIRE ALARM GENERAL NOTES:

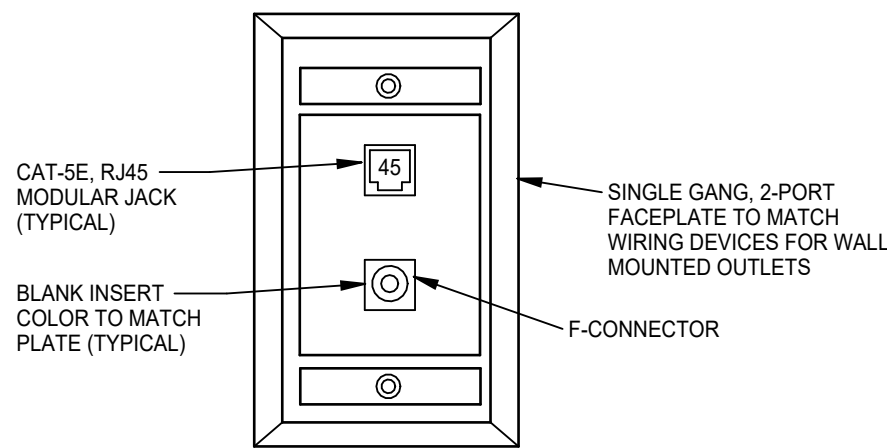
- RISER DIAGRAM IS DIAGRAMMATIC AND DOES NOT INDICATE DEVICE QUANTITIES. SEE FLOOR PLAN DRAWINGS FOR DEVICE QUANTITIES AND LOCATIONS.
- SYSTEM SUPPLIER TO PROVIDE ALL NECESSARY DEVICES/COMPONENTS AND WIRING FOR A COMPLETE AND CODE COMPLIANT SYSTEM.
- ALL END-OF-LINE RESISTORS TO BE LOCATED AT CONTROL PANEL LOCATIONS.
- ALL DEVICES IN FINISHED AREAS ON STUD-WALL PARTITIONS SHALL UTILIZE RECESSED BOXES AND RACEWAY CONCEALED WITHIN THE STUD-WALL CAVITY.
- ALL DEVICES IN FINISHED AREAS ON FINISHED CEILINGS SHALL UTILIZE THE MANUFACTURERS APPROVED BACK BOX APPROVED FOR USE WITH THE CEILING CONSTRUCTION WITH CABLES CONCEALED ABOVE THE CEILING PER CABLE PATHWAY REQUIREMENTS.
- ALL DEVICES IN AREAS WITHOUT CEILINGS SHALL UTILIZE SURFACE MOUNTED EMT ATTACHED TO THE STRUCTURAL PER SPECIFICATIONS AND CABLE PATHWAYS REQUIREMENTS TO CONCEAL CABLES.

FIRE ALARM SYSTEM CRITERIA:

- A FIRE SUPPRESSION SYSTEM WILL BE PROVIDED BY THE F.P.C. IN ACCORDANCE WITH NFPA 13D STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
- PROVIDE AN INTER-CONNECTED FIRE DETECTION/ALARM SYSTEMS, WHERE THE UNITS ARE CONNECTED BY WIRING SO THAT ALL ALARMS SOUND WHEN ANY UNIT DETECTS FIRE OR SMOKE AND SHALL HAVE A BATTERY BACKUP.
- THE FIRE SUPPRESSION SYSTEM SHALL BE INTERCONNECTED TO THE FIRE ALARM SYSTEM.
- PROVIDE SMOKE ALARMS IN ACCORDANCE WITH THE OHIO RESIDENTIAL CODE SECTION 314. SMOKE AND CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING; AND WHEN PRIMARY POWER IS INTERRUPTED SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. SMOKE AND CARBON MONOXIDE ALARMS SHALL BE INTERCONNECTED.
- PROVIDE CARBON MONOXIDE ALARMS IN ACCORDANCE WITH THE OHIO RESIDENTIAL CODE SECTION 315.



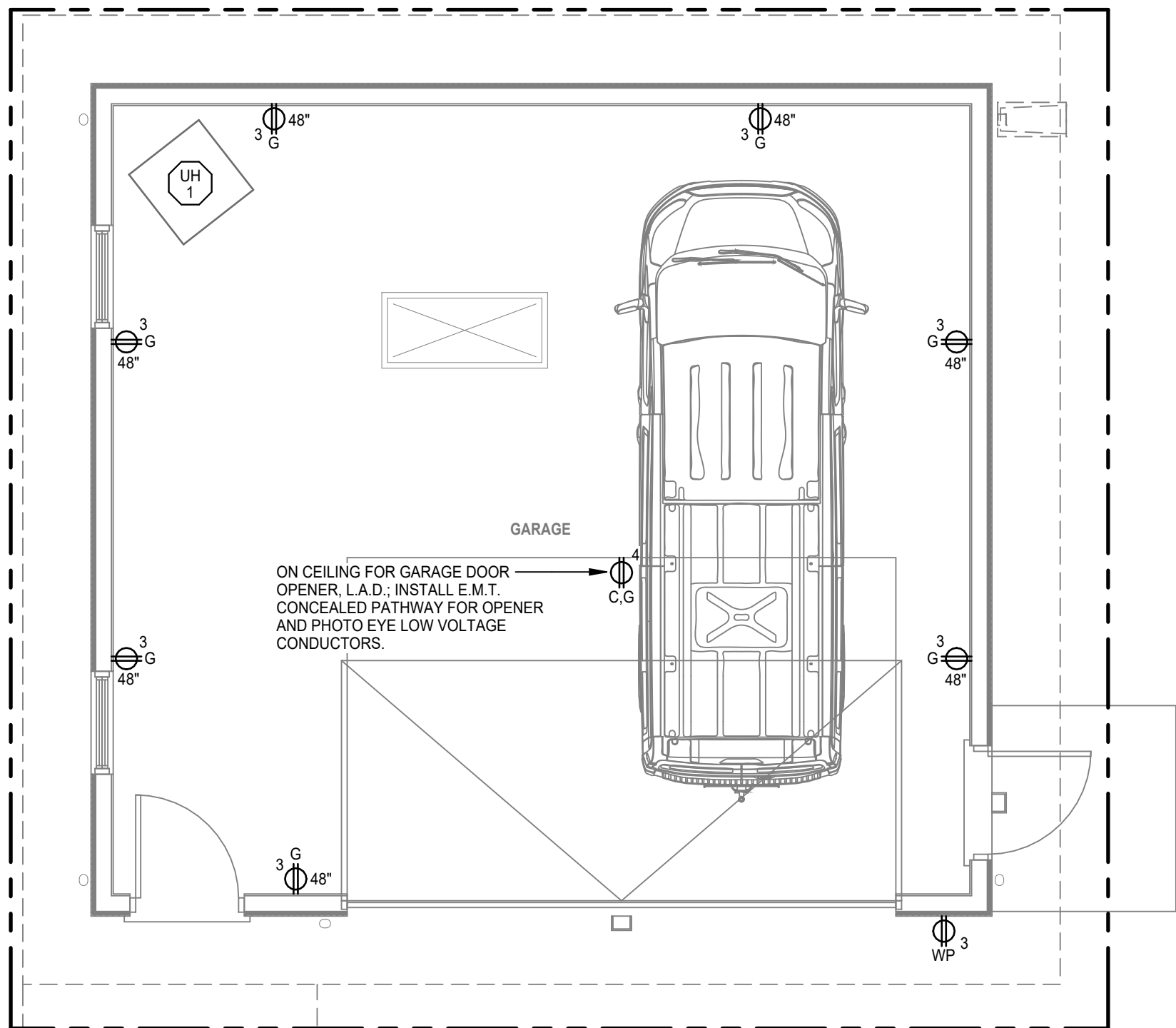
CONNECTIVITY DETAIL 1



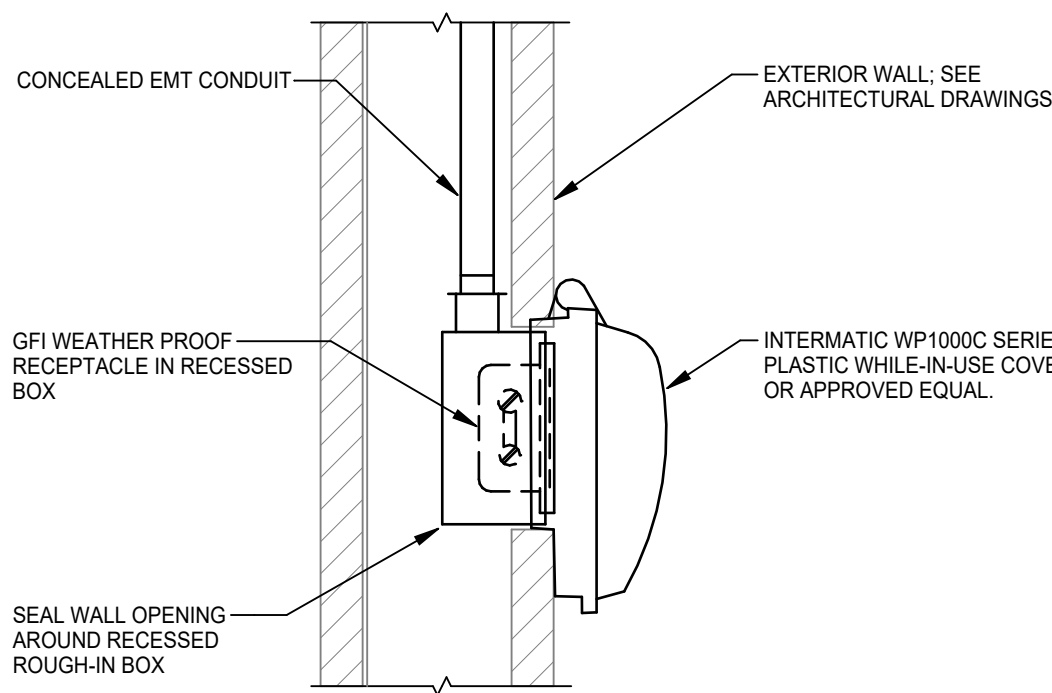
CONNECTIVITY DETAIL 2

FIRST FLOOR PLAN - POWER & SYSTEMS

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



ALTERNATE 1



EXTERIOR RECEPTACLE COVER DETAIL

SCALE: NO SCALE

FLOOR PLAN NOTES:

- FIELD VERIFY EQUIPMENT NAMEPLATE AND PROVIDE FUSING TO MATCH RATING. INSTALL OWNER PROVIDED PAD LOCK.
- PROVIDE 120V BRANCH CIRCUIT IN JUNCTION BOX FOR CONNECTION TO KITCHEN HOOD EXHAUST AND FIRE SUPPRESSION SYSTEM (HOOD AND SUPPRESSION SYSTEM BY OTHERS). VERIFY LOCATION, COORDINATE MOUNTING HEIGHTS AND CONNECTION REQUIREMENTS.
- PROVIDE CLEARANCE REQUIREMENTS PER NEC 110.26 FOR NEW BCP.
- TO BCP FOR SHUNT TRIP OF RANGE 60A2P BRANCH CIRCUIT BREAKER; PROVIDE AUXILIARY INTERPOSING CONTROL RELAY AS REQUIRED FOR VOLTAGE CONVERSION BETWEEN SHUNT TRIP CIRCUIT AND HOOD SUPPRESSION SYSTEM CONTROL PANEL.
- PROVIDE 48"x48"x3/4" PLYWOOD BACKBOARD PAINTED FIRE RETARDANT WHITE MOUNTED ON WALL WITH TOP AT 6'-0" A.F.F. PROVIDE DOUBLE DUPLEX RECEPTACLE CENTERED ON BOARD. INSTALL ONE CAT-6, 12-PORT WALL MOUNTED RACK FOR CABLE TERMINATION.

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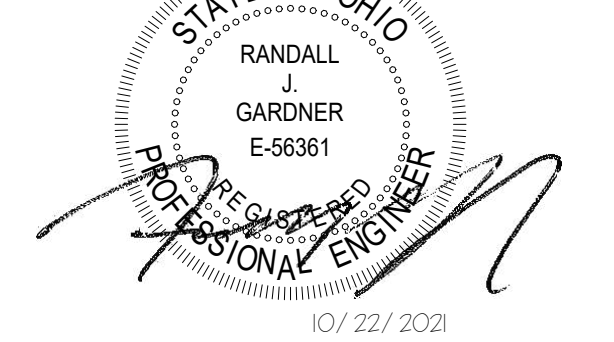
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SEAL



NOT FOR CONSTRUCTION UNLESS SIGNED & SEALED

RESIDENTIAL RESPITE CENTER
WOOD COUNTY BOARD OF DEVELOPMENTAL DISABILITIES

41 ISLAND VIEW AVENUE
ROSSFORD, OH 43460

PROJECT TITLE

ISSUE OR REVISION

10.22.2021 PERMIT & BID SET

DATE ISSUE / REVISION

DESIGNED: RSK

DRAWN: RSK

CHECKED: RJG

DAP COMMISSION NUMBER: 20026

DRAWING TITLE

FIRST FLOOR PLAN -
POWER & SYSTEMS

DRAWING NUMBER

E4.0

