

A NEW DEVELOPMENT FOR: ANDERSON CO. HIGH SCHOOL NET ZERO ENERGY BUILDING

130 MAVERICK CIRCLE, CLINTON, TN 37716

MBI

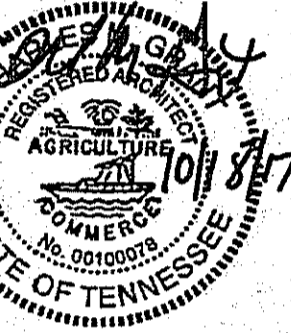
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PROJECT DIRECTORY:

OWNER:
ANDERSON CO. SCHOOL BOARD
FRANK HILLON
101 SOUTH MAIN ST. SUITE
500 CLINTON, TN 37716
865-457-2519

CIVIL ENGINEER:
MICHAEL BRADY INC.
DAVID MATLOCK
299 N. WEISGARBER RD.
KNOXVILLE, TN 37919
865-584-0999

MECHANICAL ENGINEER:
MICHAEL BRADY INC.
JOHN C. BUCHANAN
299 N. WEISGARBER RD.
KNOXVILLE, TN 37919
865-584-0999

FIRE DEPARTMENT:
CLINTON FIRE DEPARTMENT
ARGIE BRUMMETT
125 W. BROAD STREET,
CLINTON, TN 37716
865-457-2132
WWW.CLINTONFIREDEPARTMENT.NET

ARCHITECT:
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CHARLES M. GRANT, AIA
299 N. WEISGARBER RD.
KNOXVILLE, TN 37919
865-584-0999

STRUCTURAL ENGINEER:
MICHAEL BRADY INC.
WILLIAM N. DEAL
299 N. WEISGARBER RD.
KNOXVILLE, TN 37919
865-584-0999

ELECTRICAL ENGINEER:
MICHAEL BRADY INC.
CHUCK POWELL
299 N. WEISGARBER RD.
KNOXVILLE, TN 37919
865-584-0999

LOCAL BUILDING OFFICIAL:
ANDERSON CO. BUILDING INSPECTOR
CURTIS PEREZ
103 N. BOWLING ST.,
CLINTON, TN 37716
865-457-0424
CPEREZ@CLINTONTN.NET

LIST OF DRAWINGS:

_GENERAL
CVR COVER SHEET

CIVIL AND SITE ENGINEERING
C0.1 CIVIL LEGENDS AND NOTES
C1.0 EROSION PREVENTION AND SEDIMENT CONTROL PLAN
C3.0 SITE LAYOUT, GRADING, AND UTILITY PLAN
C4.0 FIRE HYDRANT EXHIBIT
C8.0 CIVIL DETAILS
C8.1 CIVIL DETAILS

ARCHITECTURAL
A0.4 LIFE SAFETY PLAN
A1.1 FLOOR PLANS, ARCHITECTURAL & STRUCTURAL NOTES
A1.2 STRUCTURAL NOTES
A2.1 DOOR SCHEDULE, DOOR / FRAME ELEVATIONS AND DETAILS
A3.1 ROOF PLAN, REFLECTED CEILING PLAN NOTES AND DETAILS
A4.1 EXTERIOR ELEVATIONS & NOTES
A5.1 BUILDING SECTION

MECHANICAL
M0.1 MECHANICAL LEGENDS, SPECIFICATIONS, AND NOTES
M1.1 FLOOR PLAN - HVAC
P0.1 PLUMBING LEGEND AND NOTES
P1.1 FLOOR PLAN, DETAILS, SCHEDULES - PLUMBING

ELECTRICAL ENGINEERING
E0.1 ELECTRICAL LEGEND AND GENERAL NOTES
E1.1 FLOOR PLAN - ELECTRICAL
E4.1 RISER DIAGRAM, PANELBOARD SCHEDULE, AND LIGHTING FIXTURE SCHEDULE
ES1.1 SITE PLAN - ELECTRICAL

Grand total: 22

PROJECT INFORMATION:

PROJECT DESCRIPTION:
A NEW NET ZERO ENERGY BUILDING FOR ANDERSON COUNTY HIGH SCHOOL

JURISDICTION:
CITY OF CLINTON
100 N. BOWLING STREET
CLINTON, TN 37716
865-259-1108

PROJECT CONTACT PERSON:
CHUCK GRANT
MICHAEL BRADY INC
865-584-0999

APPLICABLE CODES:

INTERNATIONAL BUILDING CODE:	2012
INTERNATIONAL MECHANICAL CODE:	2012
INTERNATIONAL PLUMBING CODE:	2012
NATIONAL ELECTRICAL CODE:	2012
INTERNATIONAL FIRE CODE:	2012
INTERNATIONAL FUEL GAS CODE:	2012
INTERNATIONAL ENERGY CONSERVATION CODE:	2012
HANDICAP CODE:	2010 ADA
NFPA 101 LIFE SAFETY CODE:	2012

TYPE OF CONSTRUCTION:
IBC: VB, NOT SPRINKLERED

OCCUPANCY:
IBC: EDUCATIONAL

HEIGHT OF BUILDING:
ALLOWABLE PER BLDG ORDINANCE: 1 STORIES
ACTUAL: 18' - 9" / 1 STORIES

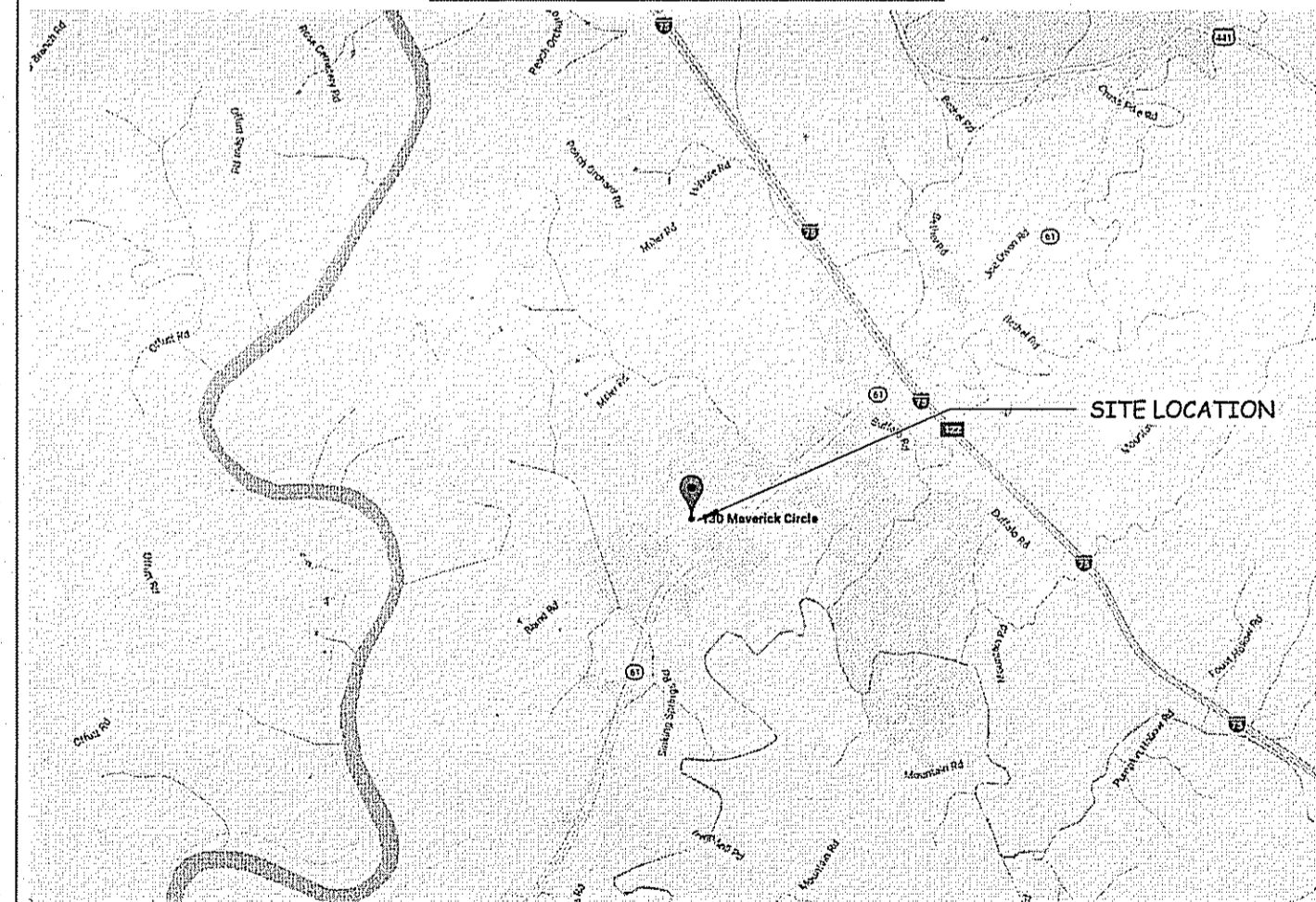
BUILDING AREA
ALLOWABLE PER FLOOR: 9,500 S.F.
ACTUAL BUILDING AREA (CONDITIONED): 1,079 S.F.
ACTUAL BUILDING AREA (COVERED PORCH): 374 S.F.
TOTAL BUILDING AREA: 1,453 S.F.

OCCUPANT LOAD:
IBC: 1 OCCUPANT / 35 S.F.
1,079 S.F. / 35 S.F. = 31 OCCUPANTS

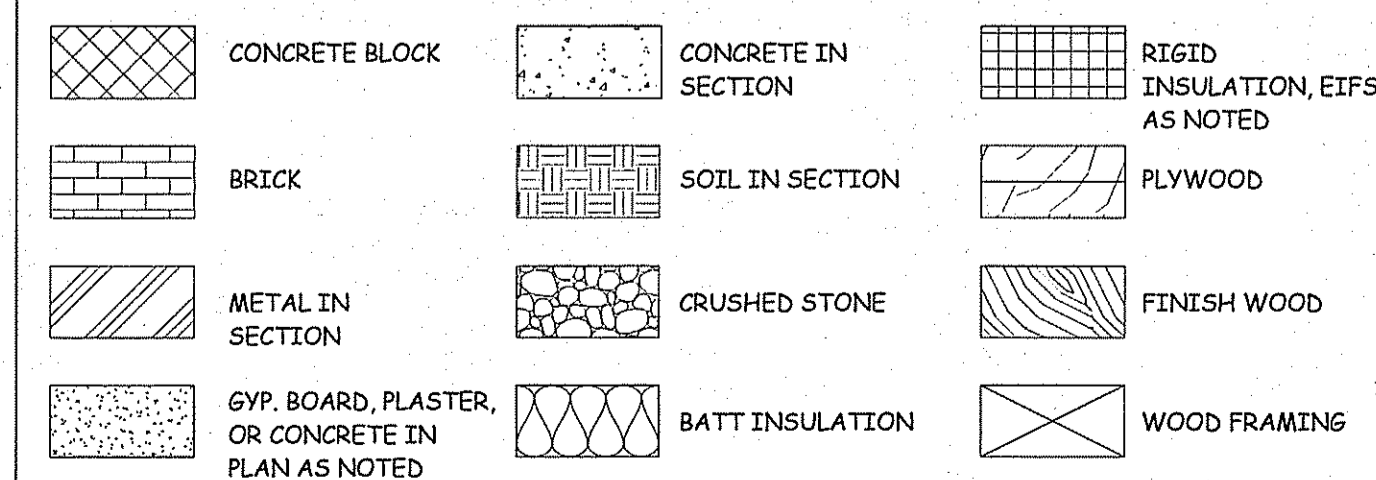
DAY CARE OCCUPANCY INFORMATION:

NUMBER OF CLIENTS FOR WHICH THE DAY CARE WILL BE LICENSED FOR:	16
THE STATE LICENSING AGENCY:	TN DEPT. OF EDUCATION
-LICENSING NUMBER:	TCA 49-1-302(1) et. seq.
THE NUMBER OF CLIENTS AGE 2 1/2 YEARS OR LESS:	ALL
THE NUMBER OF CLIENTS OLDER THAN 2 1/2 YEARS:	0
THE NUMBER OF ADULT CLIENTS (IN ADULT DAYCARES):	0
WHETHER THE CLIENTS ARE / ARE NOT CAPABLE OF RESPONDING TO AN EMERGENCY WITHOUT PHYSICAL ASSISTANCE FROM THE STAFF:	NOT CAPABLE WILL NEED ASSISTANCE
WILL THERE BE CLIENTS OR STAFF WITH MOBILITY IMPAIRMENTS?	NO

VICINITY MAP



MATERIALS LEGEND



ABBREVIATIONS

A.F.F. - ABOVE FINISH FLOOR	MET. - METAL	MFG. - MANUFACTURING
ALT. - ALTERNATE	MFG. - MANUFACTURER	MINS. - MINIMUM
ALUM. - ALUMINUM	MIN. - MINIMUM	MISC. - MISCELLANEOUS
ARCH. - ARCHITECTURAL	MISC. - MISCELLANEOUS	N.I.C. - NOT IN CONTRACT
ACT. - ACOUSTICAL TILE CEILING	N.I.C. - NOT IN CONTRACT	N.T.S. - NOT TO SCALE
ASPH. - ASPHALT	N.T.S. - NOT TO SCALE	NO. # - NUMBER
R.F. - BOTTOM FACE	O.C. - ON CENTER	O.D. - OUTSIDE DIAMETER
BSMT. - BASEMENT	O.D. - OUTSIDE DIAMETER	P. - PLATE
B.M. - BENCH MARK	P. - PLATE	PLAS. - PLASTIC
BLDG. - BUILDING	PLAS. - PLASTIC	PLAS. LAM. - PLASTIC LAMINATE
BLK. - BLOCK	PLAS. LAM. - PLASTIC LAMINATE	PLYWD. - PLYWOOD
BRG. - BEARING	PLYWD. - PLYWOOD	PTD. - PAINTED
C.B. - CATCH BASIN	PTD. - PAINTED	RAD. - RADIUS
C.J. - CONTROL JOINT	RAD. - RADIUS	R.D. - ROOF DRAIN
CH.B. - CHALK BOARD	R.D. - ROOF DRAIN	RINF. - REINFORCING
CLS. - CEILING	RINF. - REINFORCING	REQ'D. - REQUIRED
CLOS. CL. - CLOSET	REQ'D. - REQUIRED	RISER - RISER
CL. - CLEAR	RISER - RISER	RHL. - ROUGH OPENING
COL. - COLUMN	RHL. - ROUGH OPENING	RB.T. - RUBBER TILE
COMP. - COMPOSITION	RB.T. - RUBBER TILE	SCHED. - SCHEDULE
CONC. - CONCRETE	SCHED. - SCHEDULE	S.C.W.D. - SOLID CORE WOOD
CONST. - CONSTRUCTION	S.C.W.D. - SOLID CORE WOOD	SECT. - SECTION
CA.U. - CONCRETE MASONRY UNIT	SECT. - SECTION	SHT. - SHEET
C.T. - CERAMIC TILE	SHT. - SHEET	SH. - SIMILAR
DTL. - DETAIL	SH. - SIMILAR	SPECS. - SPECIFICATIONS
D. DIA. - DIAMETER	SPECS. - SPECIFICATIONS	SQ.F. - SQUARE FEET
DN. - DOWN	SQ.F. - SQUARE FEET	STD. - STANDARD
DWG. - DRAWING	STD. - STANDARD	STL. - STEEL
D.F. - DRINK FOUNTAIN	STL. - STEEL	STOR. - STORAGE
D.S. - DOWNSPOUT	STOR. - STORAGE	S.D. - STORM DRAIN
EA. - EACH	S.D. - STORM DRAIN	SUSP. - SUSPENDED
E.F. - EACH FACE	SUSP. - SUSPENDED	SQ. - SQUARE
ELEC. - ELECTRIC	SQ. - SQUARE	T.B. - TACK BOARD
E.W.C. - ELECTRIC WATER COOLER	T.B. - TACK BOARD	THOLD. - THRESHOLD
ELEV. - ELEVATION	THOLD. - THRESHOLD	TLT. - TILE
EXIST. - EXISTING	TLT. - TILE	TD., TDS. - THREAD (S)
EXT. - EXTERIOR	TD., TDS. - THREAD (S)	T.F. - TOP FACE
E.J. - EXPANSION JOINT	T.F. - TOP FACE	TYP. - TYPICAL
F.E. - FIRE EXTINGUISHER	TYP. - TYPICAL	U. - URINAL
FL. - FLOOR	U. - URINAL	V.I.F. - VERIFY IN FIELD
F.D. - FLOOR DRAIN	V.I.F. - VERIFY IN FIELD	V.S. - VENT STACK
FT. - FOOT	V.S. - VENT STACK	VOL. - VOLUME
FTG. - FOOTING	VOL. - VOLUME	V.T. - VENT TILE
GALV. - GALVANIZED IRON	V.T. - VENT TILE	VERT. - VERTICAL
G.A. - GAUGE	VERT. - VERTICAL	WSC. - WAINSCOT
GYP. - GYPSUM	WSC. - WAINSCOT	W.C. - WATER CLOSET
H.B. - HOSE BIB	W.C. - WATER CLOSET	W.H. - WATER HEATER
H.C.W.D. - HOLLOW CORE WOOD	W.H. - WATER HEATER	WRFG. - WATERROOFING
HDW. - HARDWARE	WRFG. - WATERROOFING	W.F. - WIDE FLANGE
HGT. - HEIGHT	W.F. - WIDE FLANGE	WD. - WINDOW
H.M. - HOLLOW METAL	WD. - WINDOW	W. - WOOD
I.D. - INSIDE DIAMETER	W. - WOOD	W.F.F. - WELDED WIRE FABRIC
IN. - INCH	W.F.F. - WELDED WIRE FABRIC	W.W.M. - WELDED WIRE MESH
INV. - INVERT	W.W.M. - WELDED WIRE MESH	L. - ANGLE
JAN. - JANITOR	L. - ANGLE	AT - AT
JST. - JEST	AT - AT	C - CHANNEL
LAV. - LAVATORY	C - CHANNEL	R - ROUND
LB. - POUND	R - ROUND	
M.H. - MANHOLE		
MAX. - MAXIMUM		
MECH. - MECHANICAL		

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CLINTON, TN 37716

THIS DRAWING HAS BEEN ISSUED:
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 SCHEMATIC DESIGN
 DESIGN DEVELOPMENT
 CONSTRUCTION DOCUMENTS

Drawing Title:
COVER SHEET

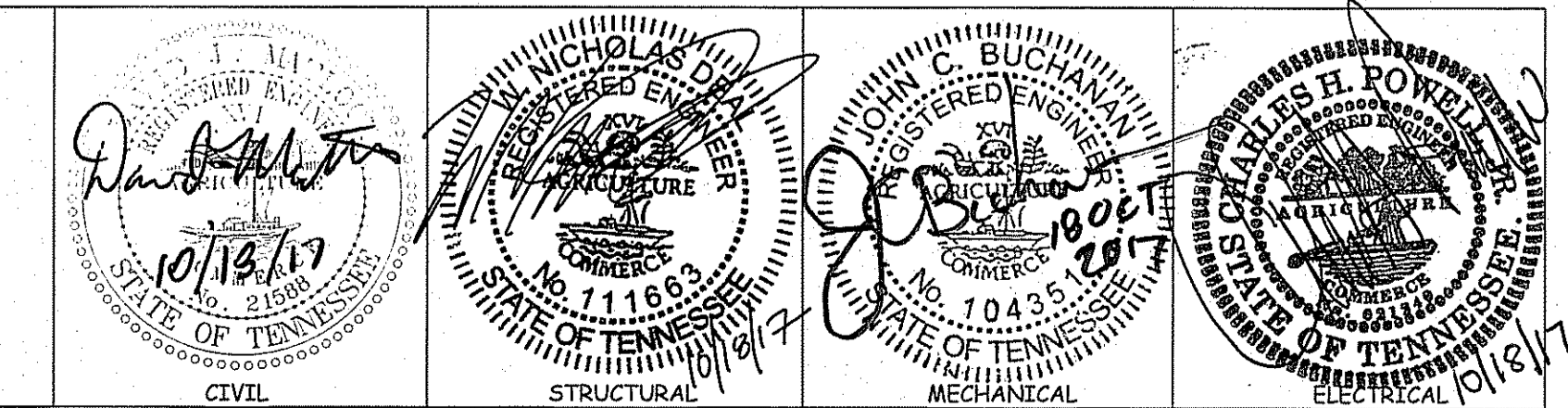
Date: 07/28/2017

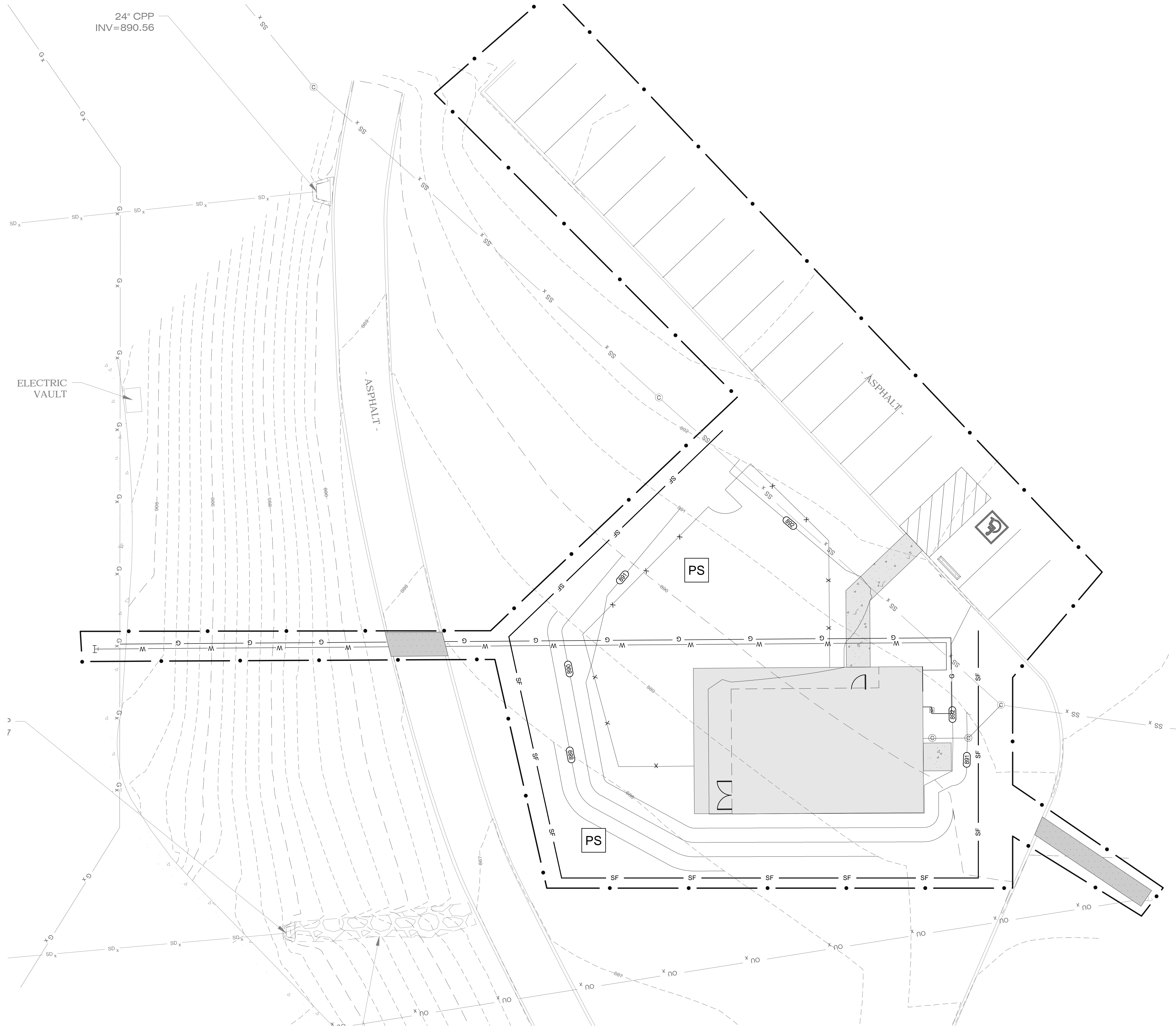
Designed By: C.M.B.
Drawn By: C.M.B.
Reviewed By: C.M.G.

Comm. No. 170042.01

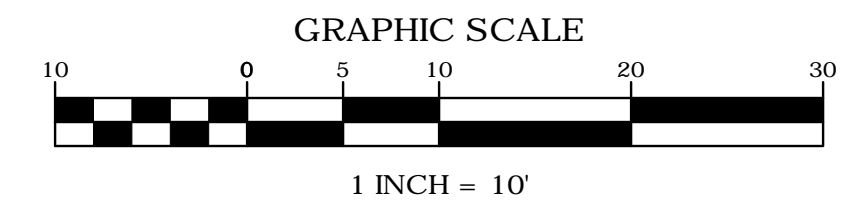
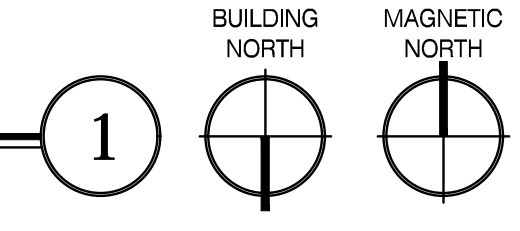
Revisions:
REV #1 01018/2017

Sheet: Sheet
of No
CVR





EROSION PREVENTION & SEDIMENT CONTROL PLAN
 SCALE: 1" = 10'-0"



Sheet: **1** of **C1.0**

GENERAL SHEET NOTES:
 1. SEE SHEET C0.1 FOR CIVIL NOTES AND LEGENDS

EROSION CONTROL LEGEND

- CONSTRUCTION LIMITS
- SF— SILT FENCE; SEE DETAIL 1/C8.0
- PS PERMANENT STABILIZATION; SEE SEED MIXTURE TABLES BELOW

PERMANENT SEED MIXTURES (TDOT)

GROUPS	SEEDING DATES	GRASS SEEDS	PERCENT
A	FEBRUARY 1 TO JULY 1	KENTUCKY 31 FESCUE	80%
		KOREAN LESPEDEZA	15%
B	JUNE 1 TO AUGUST 15	ENGLISH RYE	5%
		KENTUCKY 31 FESCUE	55%
		ENGLISH RYE	20%
		KOREAN LESPEDEZA	15%
B1	APRIL 15 TO AUGUST 15	BERMUDAGRASS (HULLED)	70%
		ANNUAL LESPEDEZA	30%
		KENTUCKY 31 FESCUE	70%
C	AUGUST 1 TO DECEMBER 1	ENGLISH RYE	20%
		WHITE CLOVER	10%
		KENTUCKY 31 FESCUE	70%
C1	FEBRUARY 1 TO DECEMBER 1	CROWN VETCH	25%
		ENGLISH RYE	5%

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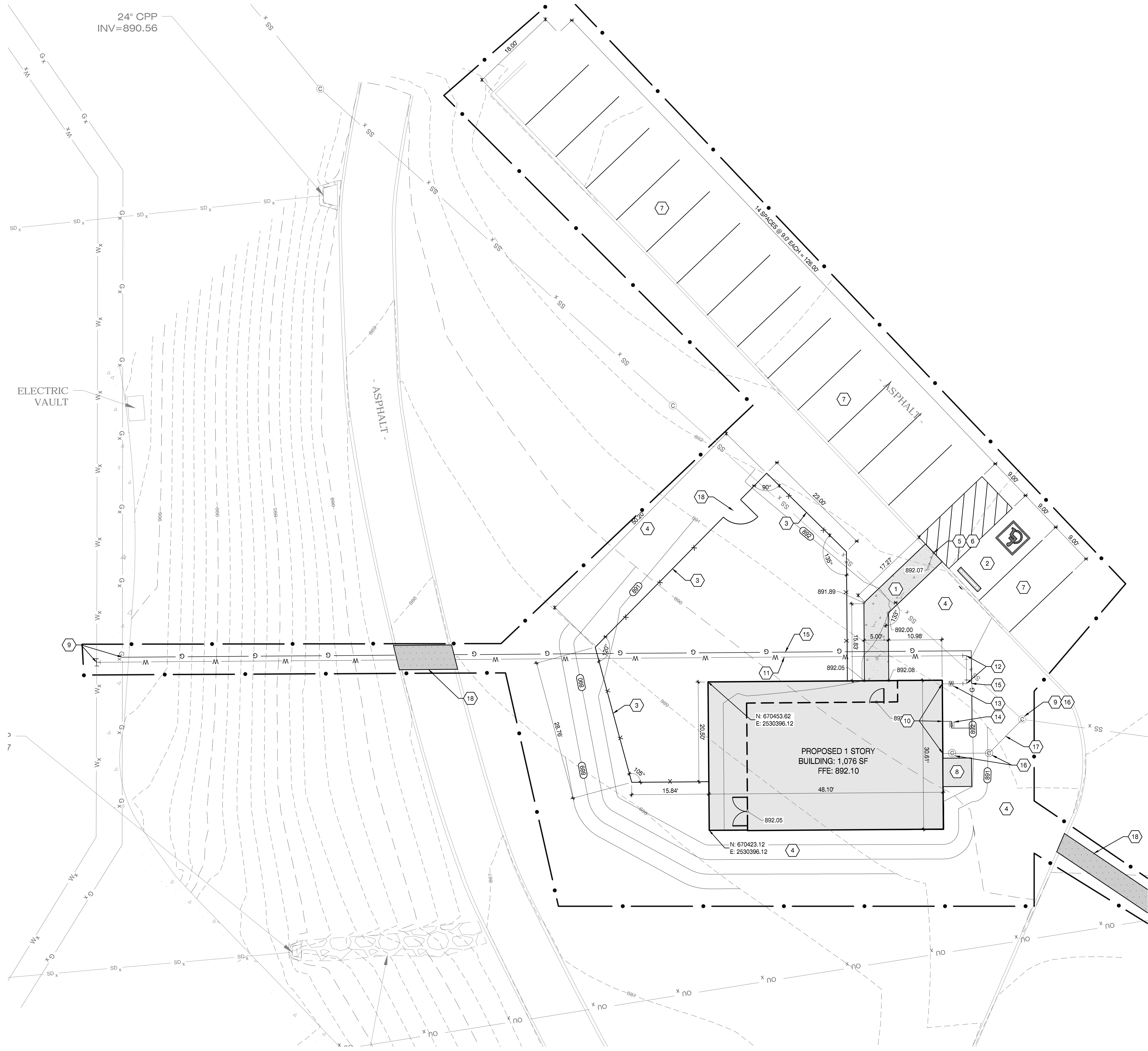
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Drawing Title:
 PHASE 2 EROSION PREVENTION & SEDIMENT CONTROL PLAN

Date: 07/28/2017
 Designed By: J.M.P.
 Drawn By: G.A.O.
 Reviewed By: D.J.M.
 Comm. No. 170042.01
 Revisions:



Know what's below.
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GENERAL SHEET NOTES:

1. SEE SHEET C0.1 FOR CIVIL NOTES AND LEGENDS
2. FOR TYPICAL PARKING SPACE LAYOUT, SEE 3/C8.0
3. COORDINATE ALL UTILITY CROSSINGS. SEE DETAIL 4/C8.1
4. FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. DETERMINE LOCATED, SIZE, MATERIAL & INVERTS. REPORT ANY DISCREPANCIES TO OWNER & ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION & INSTALLATION.

SITE KEYED NOTES

1. CONCRETE SIDEWALK; SEE DETAIL 2/C8.0
2. ADA COMPLIANT PARKING SPACE; SEE DETAIL 4/C8.0
3. 4ft KNUCKLED END CHAINLINK FENCE
4. AREAS DISTURBED BY CONSTRUCTION OR PAVING TO BE SEEDED, SODED OR LANDSCAPED
5. PROVIDE SMOOTH TRANSITION TO EXISTING SURFACE
6. REMOVE EXISTING CURB AS REQUIRED FOR PROPOSED SIDEWALK
7. RE-STRIPE EXISTING LOT PER DETAIL 3/C8.0
8. CONCRETE PAD; SEE MECHANICAL AND ELECTRICAL SHEETS FOR DETAILS
9. FIELD LOCATE AND CONNECT TO EXISTING PER LOCAL UTILITY REQUIREMENTS.
10. FOR CONTINUATION SEE PLUMBING PLAN
11. 2" POTABLE WATER (PVC CLASS 200); SEE DETAIL 1/C8.1
12. 90° BEND WITH THRUST BLOCK; SEE DETAIL 1/C8.1
13. WATER METER, SIZE TO BE DETERMINED BY LOCAL UTILITY; SEE DETAIL 6/C8.1
14. GAS METER; SEE SHEET C0.1 FOR SPECIFICATIONS
15. GAS SERVICE LINE; SEE SHEET C0.1 FOR SPECIFICATIONS
16. SANITARY SEWER CLEANOUT; SEE DETAIL 5/C8.1
17. 4" ASTM D3034 SDR35 PVC BUILDING SANITARY SEWER SERVICE LINE @ 2.0% MIN. SLOPE; SEE DETAIL 3/C8.1
18. ASPHALT REPAIR; SEE DETAIL 7/C8.1
19. 5' ACCESS GATE

UTILITY CONTACTS

<p>WATER CLINTON UTILITIES BOARD 1001 CHARLES G. SEIVERS BLVD CLINTON, TN 37717 (865) 457-9232</p>	<p>SEWER CLINTON UTILITIES BOARD 1001 CHARLES G. SEIVERS BLVD CLINTON, TN 37717 (865) 457-9232</p>
<p>GAS POWELL-CUNCH UTILITY DISTRICT 135 HULSEY LANE ROCKY TOP, TN 37769 (865) 426-0087</p>	<p>ELECTRIC CLINTON UTILITIES BOARD 1001 CHARLES G. SEIVERS BLVD CLINTON, TN 37717 (865) 457-9232</p>

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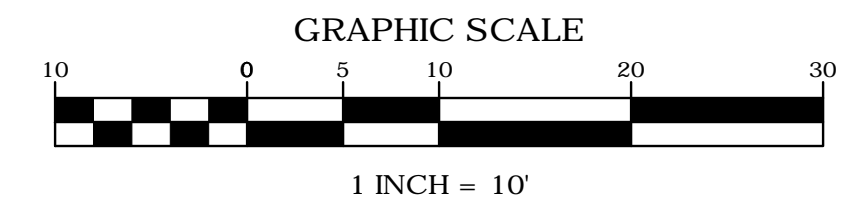
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Drawing Title:
SITE LAYOUT, GRADING, AND UTILITY PLAN

Date: 07/28/2017
 Designed By: J.M.P.
 Drawn By: G.A.O.
 Reviewed By: D.J.M.
 Comm. No. 170042.01
 Revisions:

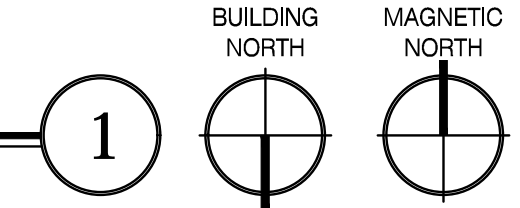


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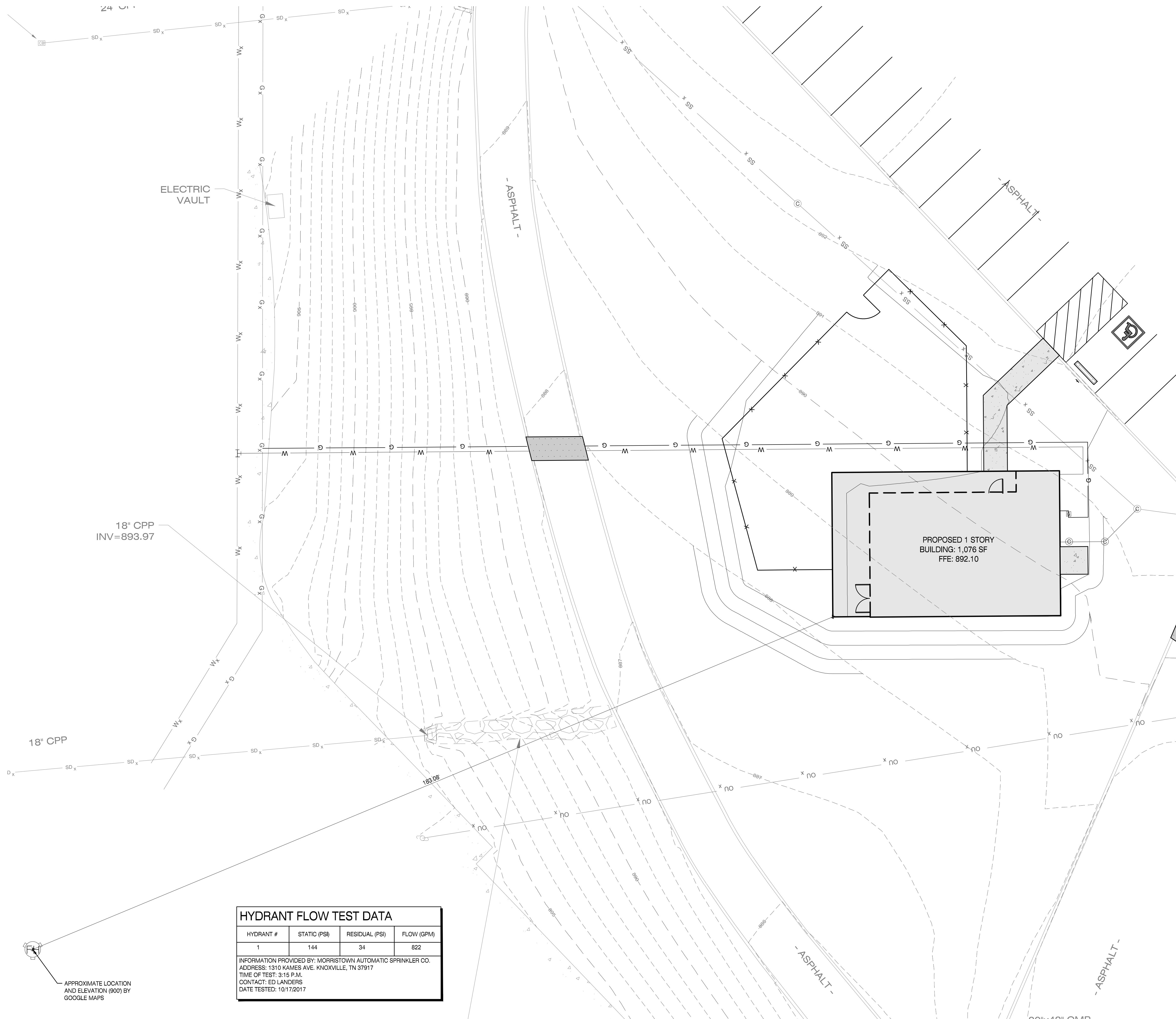
SITE LAYOUT, GRADING, AND UTILITY PLAN

SCALE: 1" = 10'-0"



Sheet: **C3.0**
of

GENERAL SHEET NOTES:
 1. SEE SHEET C0.1 FOR CIVIL NOTES AND LEGENDS



18" CPP
INV=893.97

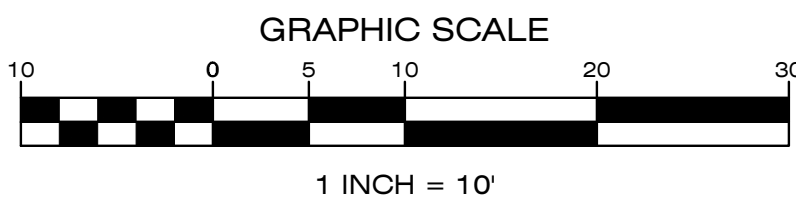
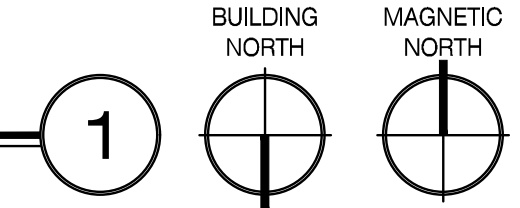
18" CPP

HYDRANT FLOW TEST DATA			
HYDRANT #	STATIC (PSI)	RESIDUAL (PSI)	FLOW (GPM)
1	144	34	822

INFORMATION PROVIDED BY: MORRISTOWN AUTOMATIC SPRINKLER CO.
 ADDRESS: 1310 KAMES AVE. KNOXVILLE, TN 37917
 TIME OF TEST: 3:15 P.M.
 CONTACT: ED LANDERS
 DATE TESTED: 10/17/2017

FIRE HYDRANT EXHIBIT

SCALE: 1" = 10'-0"

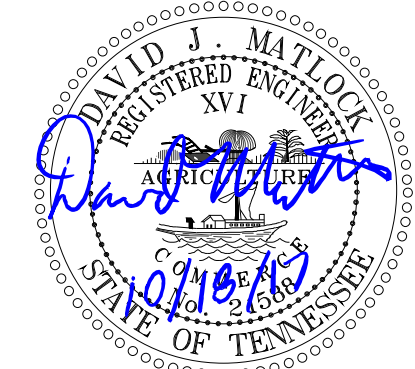


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 FIRE HYDRANT EXHIBIT

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Designed By: J.M.P.
 Drawn By: G.A.O.
 Reviewed By: D.J.M.

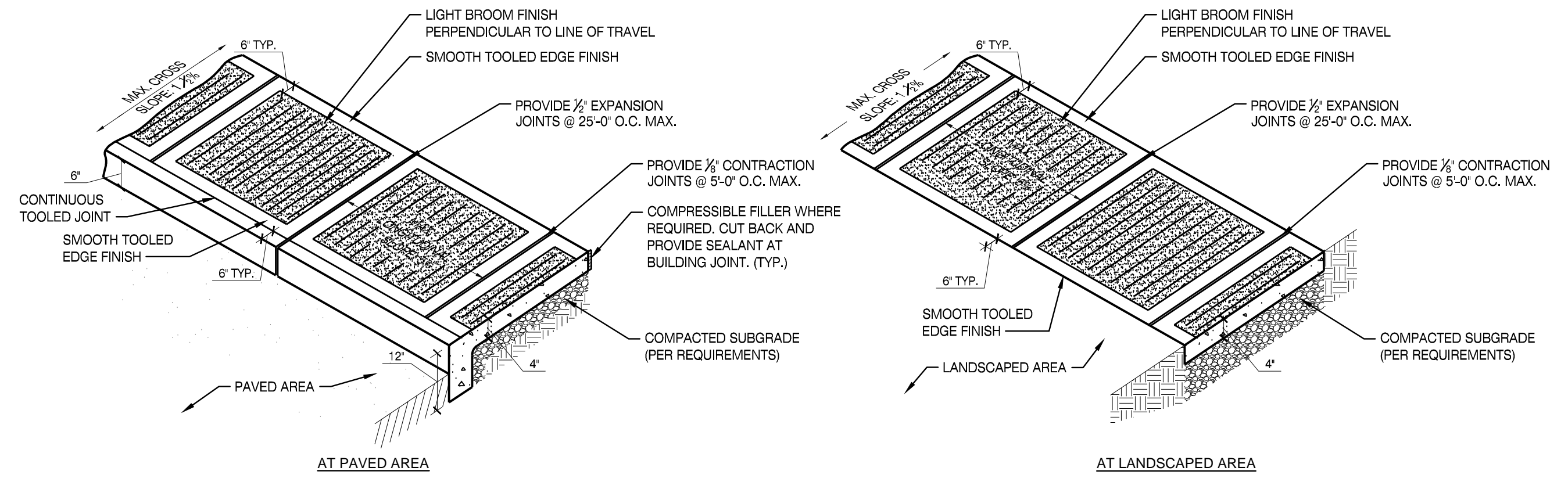
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 REV#1 10/18/2017

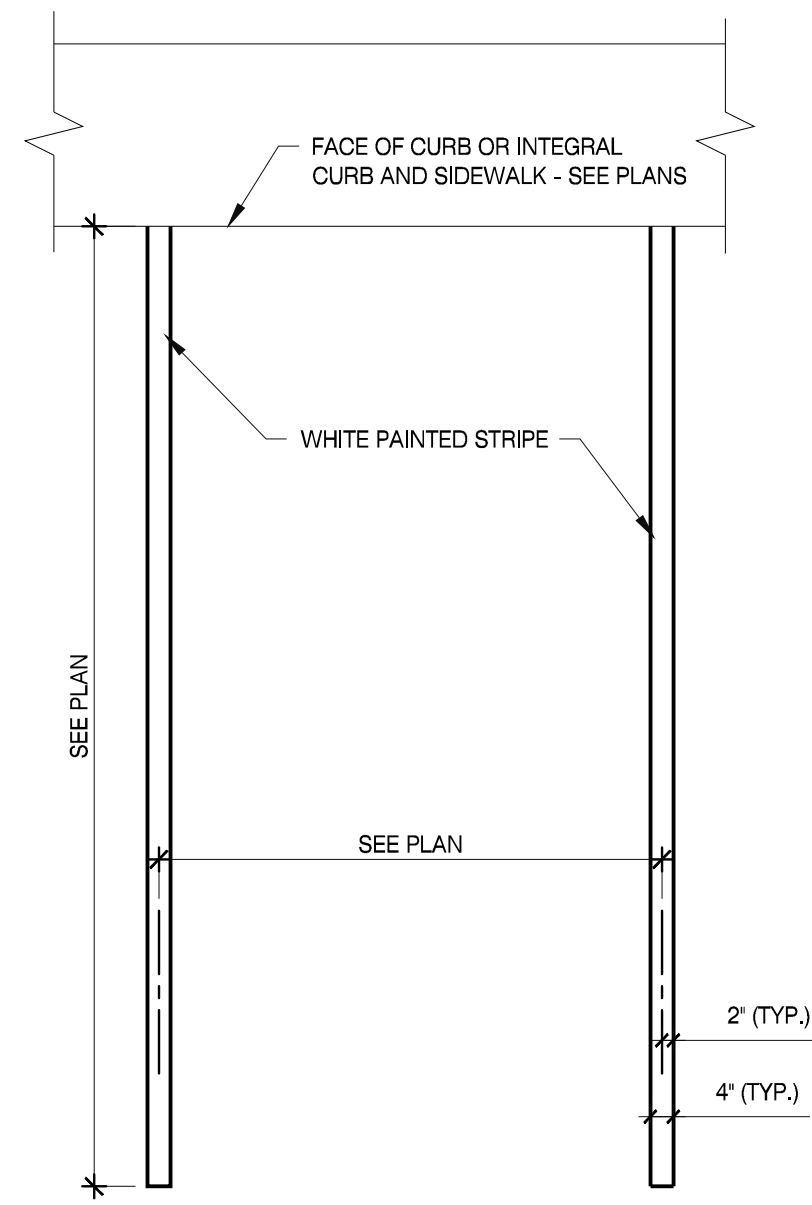


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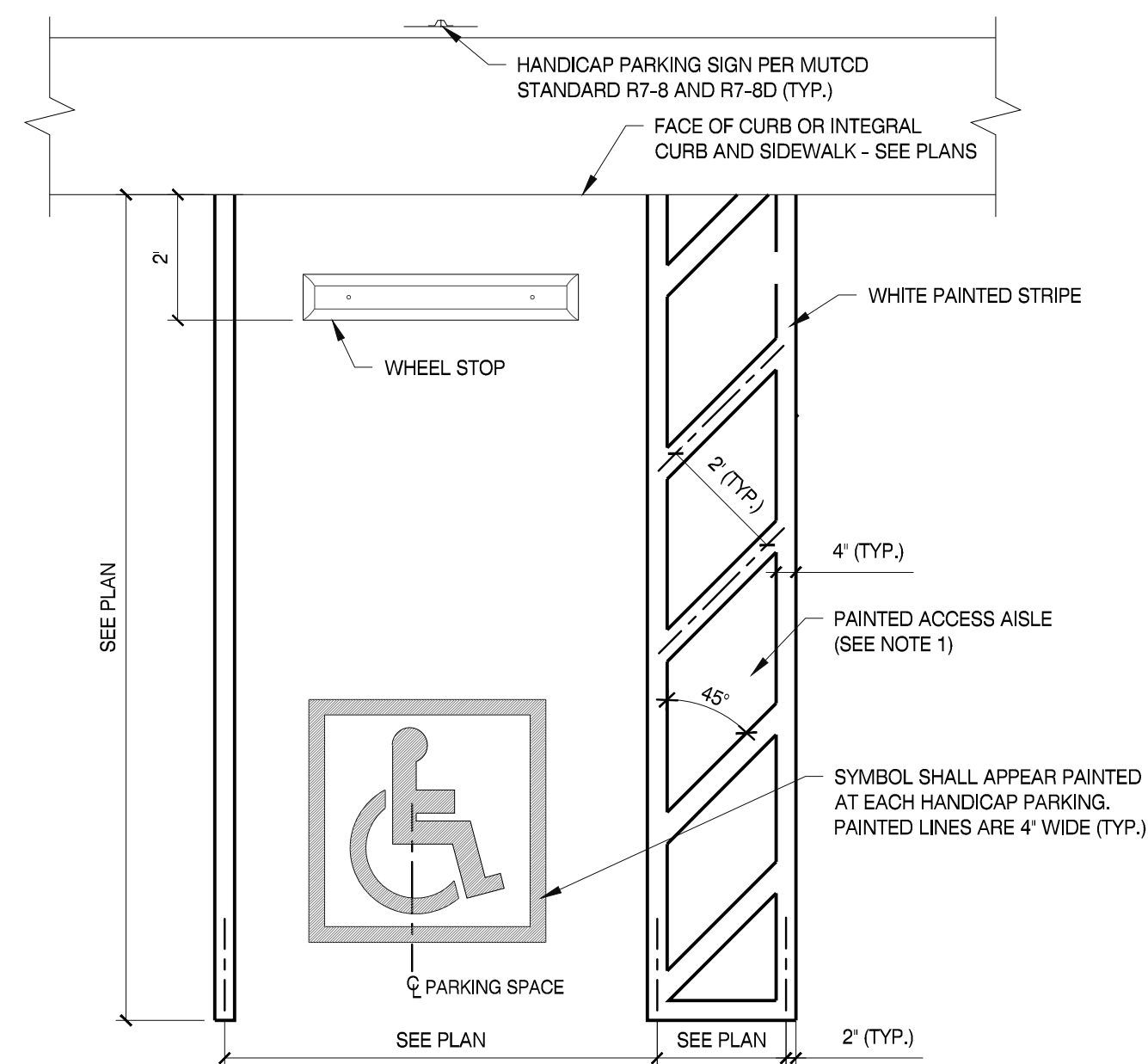
Sheet: 1 of 1
 No. C4.0



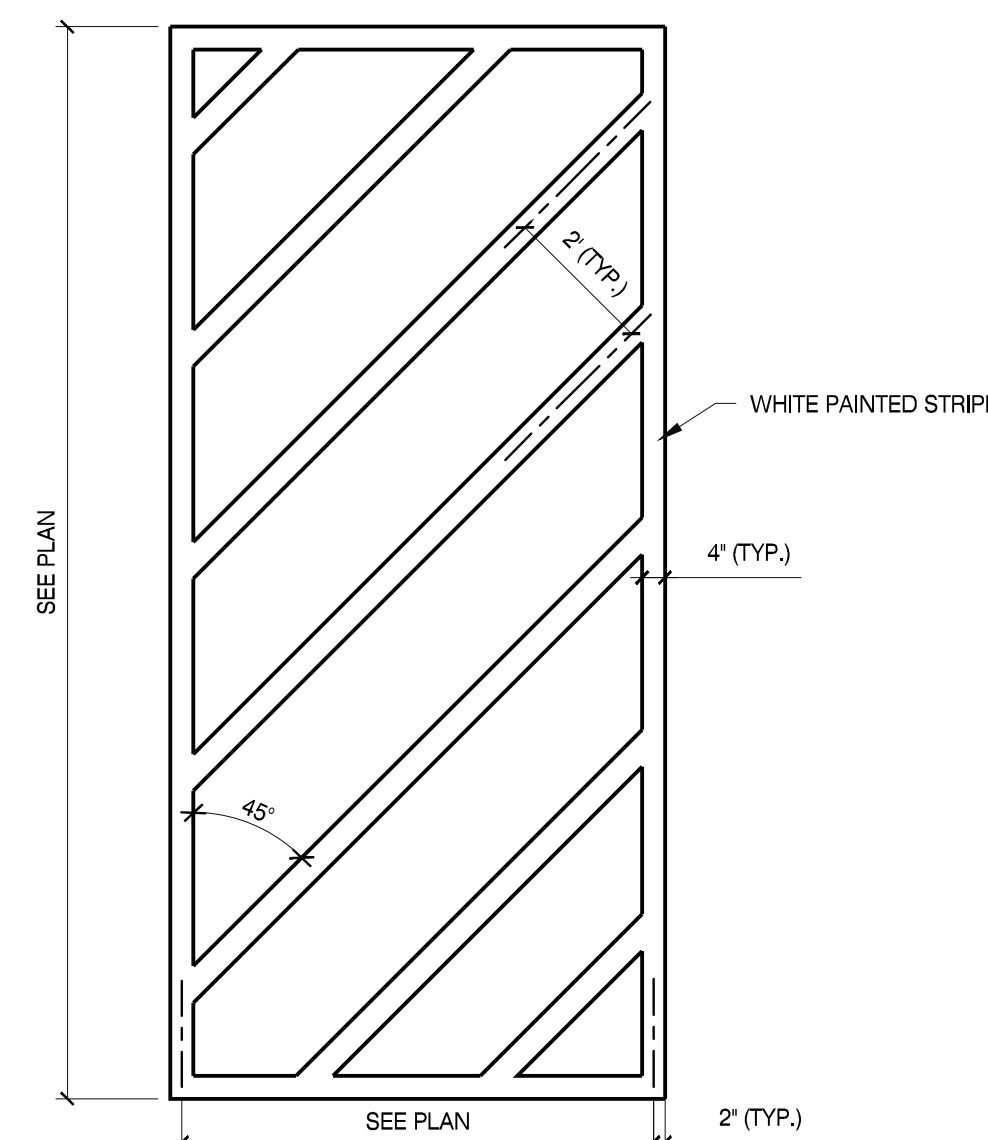
CONCRETE SIDEWALK ②
SCALE: N.T.S.



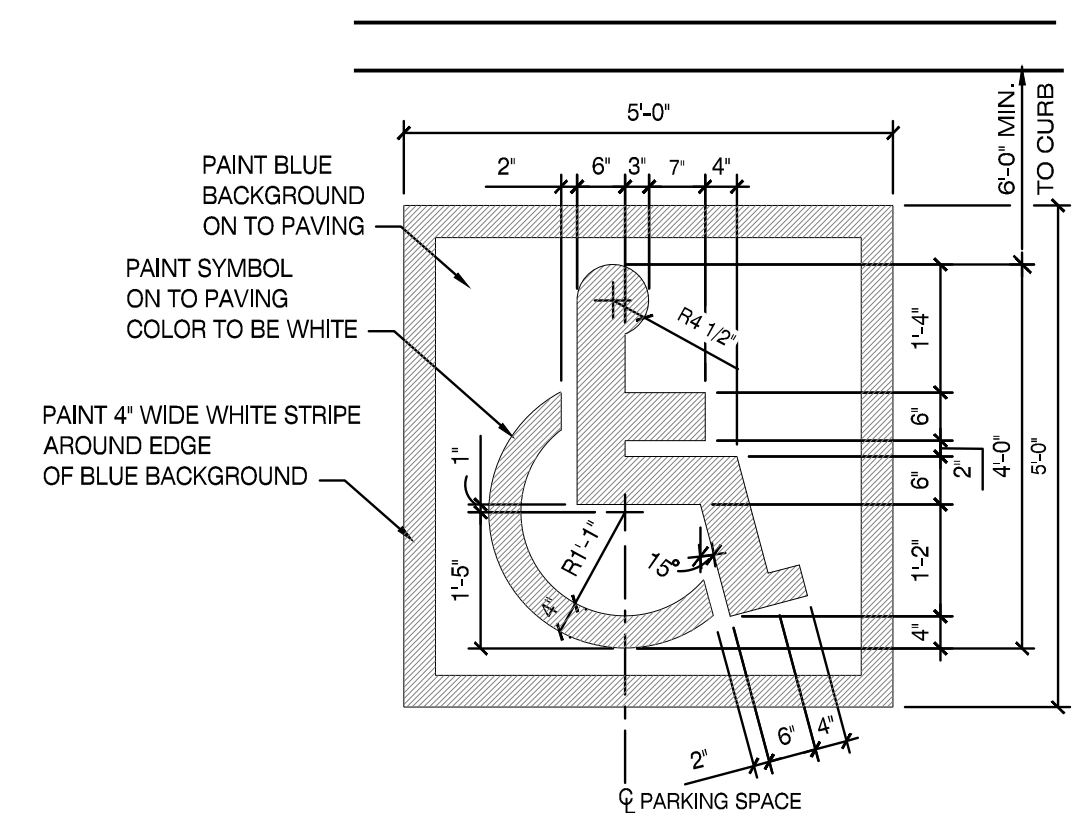
PARKING SPACE ③
SCALE: N.T.S.



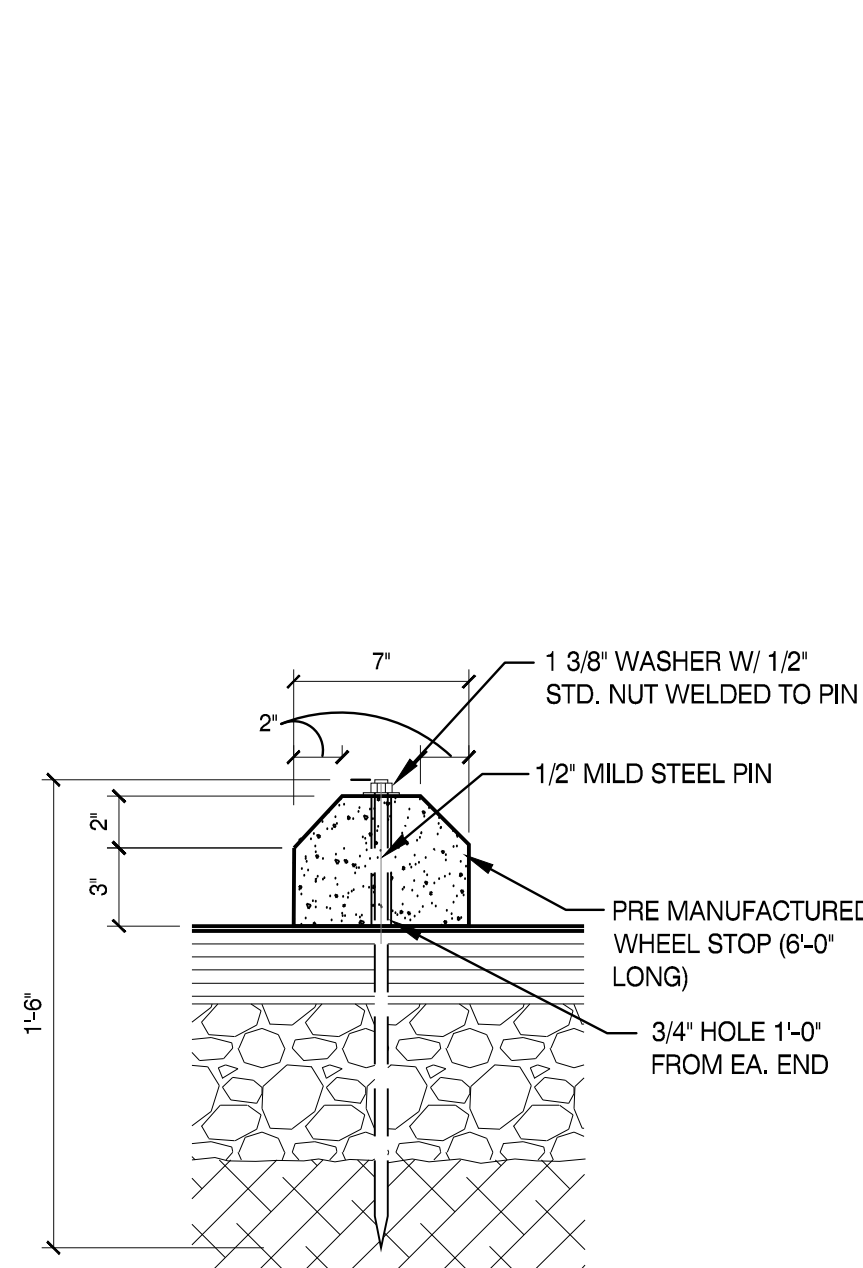
HANDICAP PARKING SPACE ④
SCALE: N.T.S.



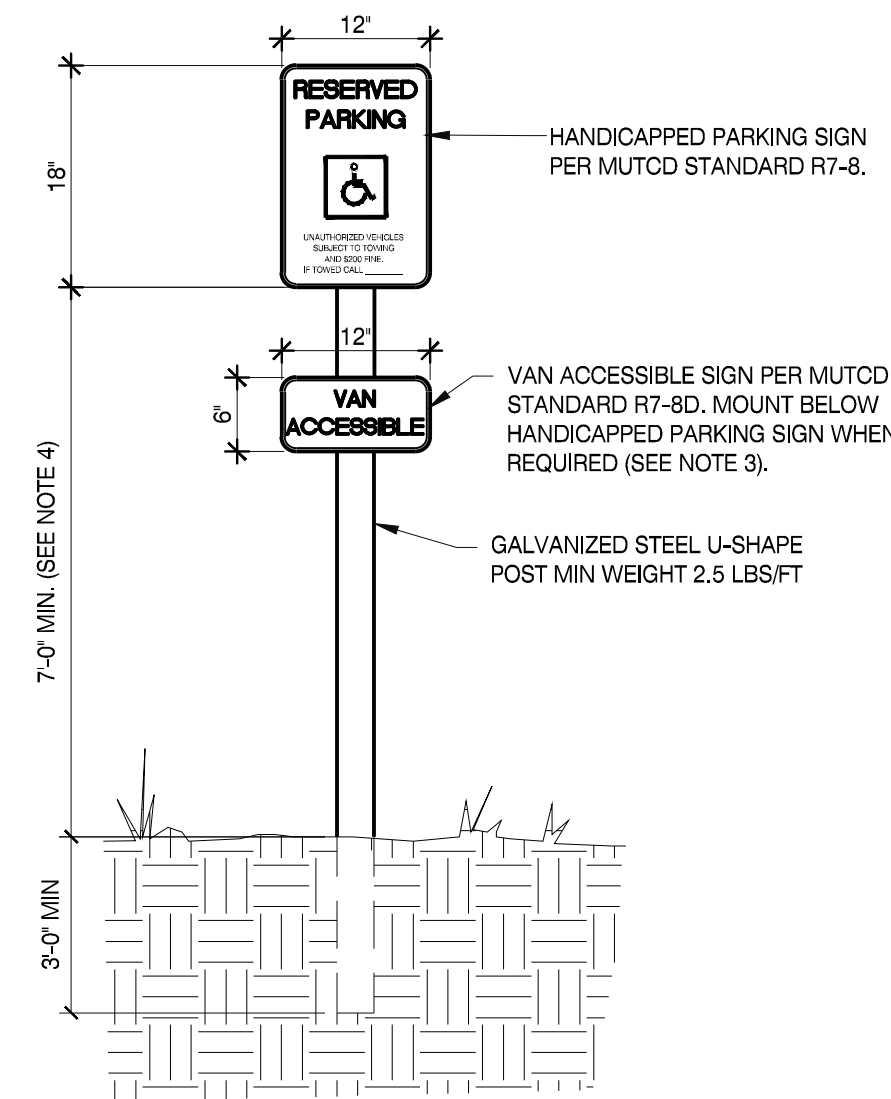
'NO PARKING' AREA ⑤
SCALE: N.T.S.



PAINTED HANDICAP SYMBOL ⑥
SCALE: N.T.S.



WHEEL STOP ⑦
SCALE: N.T.S.

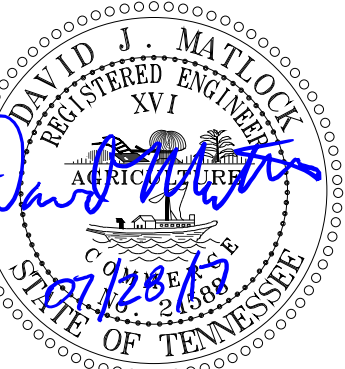


STANDARD HANDICAP SIGN ⑧
SCALE: N.T.S.

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A NEW DEVELOPMENT FOR:
**ANDERSON COUNTY HIGH SCHOOL
NET ZERO BUILDING**
130 MAVERICK CIRCLE
CLINTON, TN 37716

THIS DRAWING HAS BEEN ISSUED:
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 CONSTRUCTION DOCUMENTS

Drawing Title:
CIVIL DETAILS

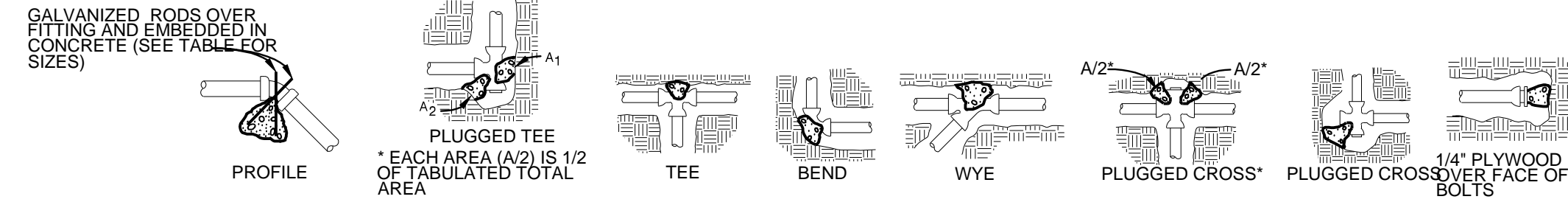
Date: 07/28/2017
Designed By: J.M.P.
Drawn By: G.A.O.
Reviewed By: D.J.M.
Comm. No. 170042.01
Revisions:

Sheet:
of Sheet
No. C8.0

- NOTES:
- KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES.
 - CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
 - REQUIRED VOLUMES OR BEARING AREAS AT FITTINGS SHALL BE AS INDICATED BELOW, ADJUSTED, IF NECESSARY, TO CONFORM TO THE TEST PRESSURES AND ALLOWABLE SOIL BEARING STRESSES STATED IN THE SPECIFICATIONS.
 - THRUST BLOCK VOLUMES FOR VERTICAL BENDS HAVING UPWARD RESULTANT THRUSTS ARE BASED ON TEST PRESSURE OF 150 PSIG AND THE WEIGHT OF CONCRETE = 4050 LBS/CU YD. TO COMPUTE VOLUMES FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION: VOLUME = (TEST PRESS. / 150) X (TABLE VALUE).
 - BEARING AREAS FOR HORIZONTAL BEND THRUST BLOCKS ARE BASED ON TEST PRESSURE OF 150 PSIG AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 LBS/SQ FT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, MULTIPLY TABLE VALUES BY THE FACTOR (13.33/Ps), WHERE:
Ps = ACTUAL TEST PRESSURE, PSIG
Ss = ACTUAL SOIL BEARING PRESSURE, PSF.
 - THRUST BLOCKS FOR VERTICAL BENDS HAVING DOWNWARD RESULTANT THRUSTS SHALL BE THE SAME AS FOR HORIZONTAL BENDS.
 - BEARING AREAS, VOLUMES, AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER THIS STANDARD.
 - BEARING AREA OF THRUST BLOCK SHALL NOT BE LESS THAN 1.0 SQ FT.
 - VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME EXCEEDING 5 CUBIC YARDS REQUIRE SPECIAL BLOCKING DETAILS. SEE PLANS FOR VOLUMES SHOWN TO LEFT OF SOLID LINE IN TABLE.
 - TEST PRESSURES ARE SHOWN IN THE PIPING SCHEDULE.
 - ALLOWABLE SOIL BEARING STRESS IS 2000 LBS/SQ FT.

BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS)						VOLUME OF THRUST BLOCK IN CUBIC YARDS (VERTICAL BENDS)					
FITTING SIZE	TEE, WYE, PLUG, OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED RUN		BEND ANGLE	FITTING SIZE	BEND ANGLE			11 1/4'	
			A1	A2			45'	22 1/2'	11 1/4'		
4	1.0	1.4	1.9	1.4	1.0	4	1.1	0.4	0.2	0.2	
6	2.1	3.0	4.3	3.0	1.6	6	2.7	1.0	0.4	0.4	
8	3.8	5.3	7.6	5.4	2.9	8	4.0	1.5	0.6	0.6	
10	5.9	8.4	11.8	8.4	4.6	10	6.0	2.3	0.9	0.9	
12	8.5	12.0	17.0	12.0	6.6	12	8.5	3.2	1.3	1.3	
14	11.5	16.3	23.0	16.3	8.9	14	11.5	4.3	1.8	1.8	
16	15.0	21.3	30.0	21.3	11.6	16	14.8	5.6	2.3	2.3	
18	19.0	27.0	38.0	27.0	14.6						
20	23.5	33.3	47.0	33.3	18.1						
24	34.0	48.0	68.0	48.0	26.2						

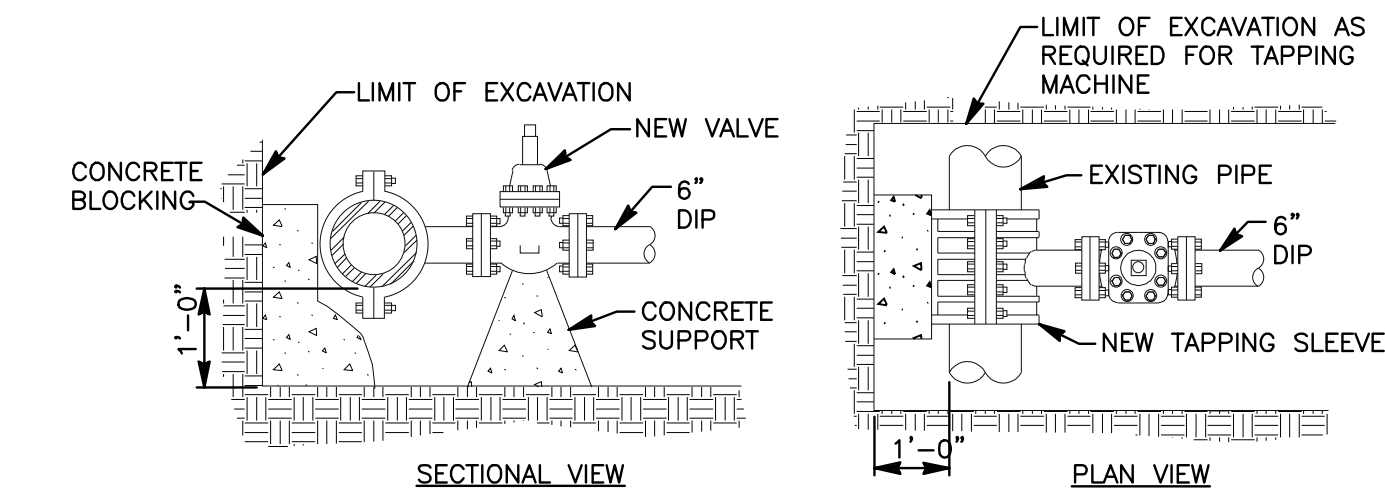
FITTING SIZE	ROD SIZE	EMBEDMENT
12" AND LESS	#6	30"
14"-16"	#8	36"



THRUST BLOCK

SCALE: N.T.S.

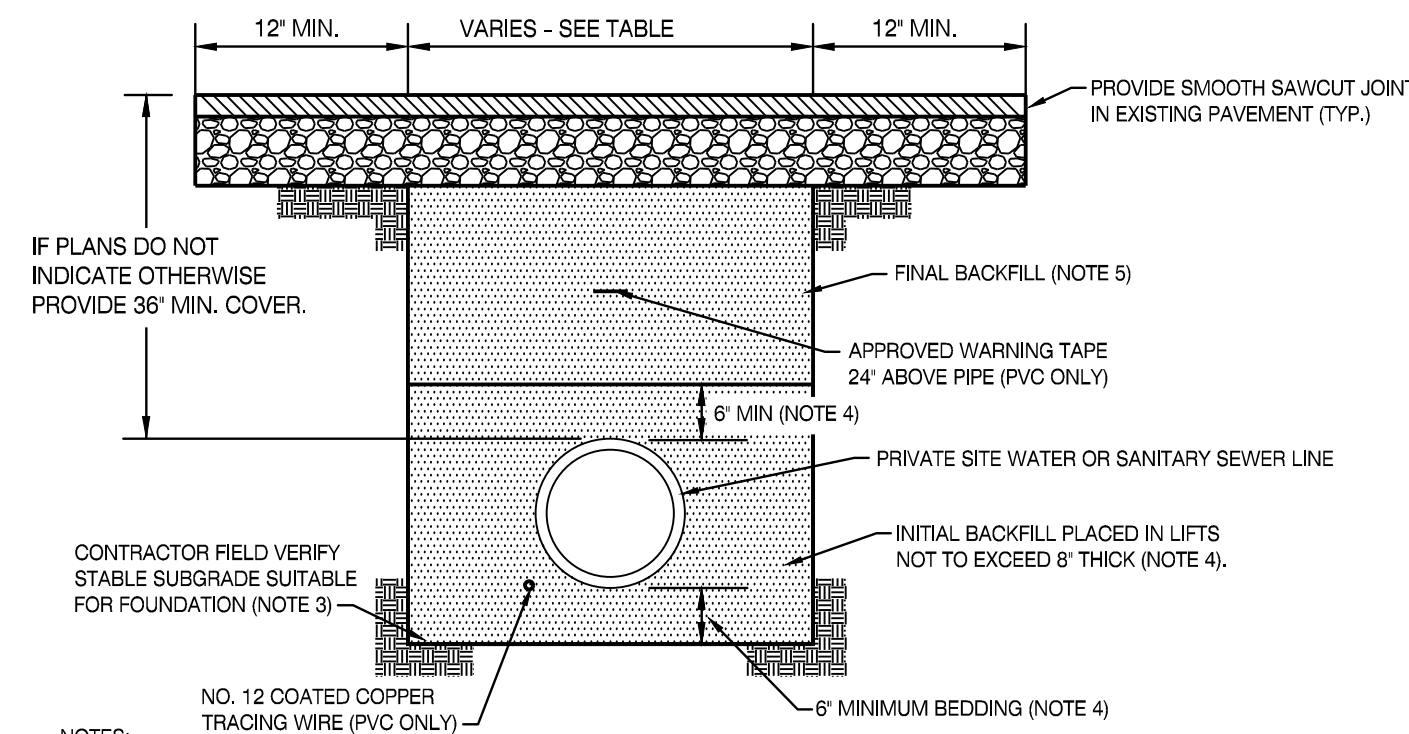
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TAPPING SLEEVE

SCALE: N.T.S.

2



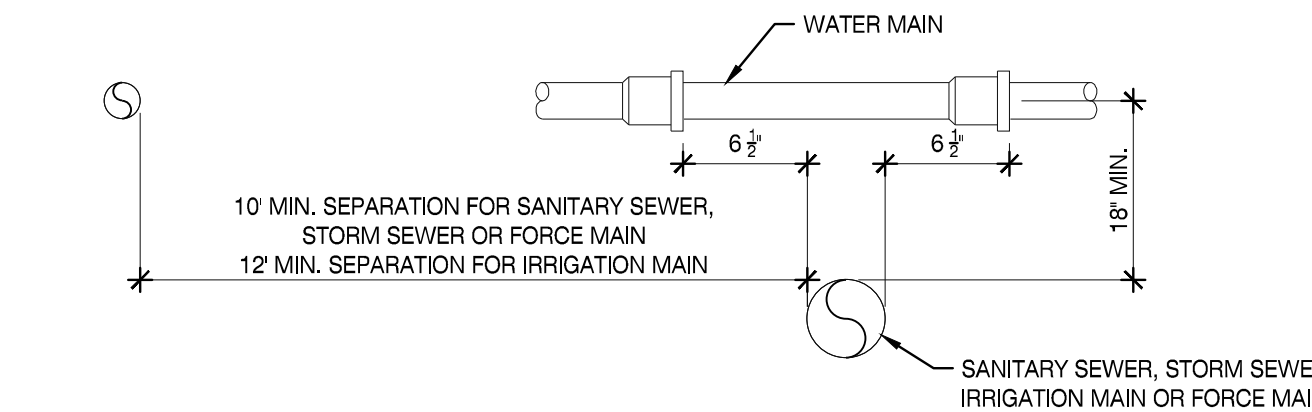
- NOTES:
- ALL PRIVATE SITE UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE, LOCAL UTILITY REQUIREMENTS, AND THE LOCAL AGENCY HAVING JURISDICTION OVER BUILDING CONSTRUCTION.
 - THIS DETAIL ADDRESSES A TRENCH TYPE INSTALLATION. THIS DETAIL DOES NOT ADDRESS OSHA TRENCH SAFETY REQUIREMENTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MEET ALL HEALTH AND SAFETY ISSUES REGARDING TRENCH SAFETY.
 - WHERE THE TRENCH BOTTOM IS UNSUITABLE FOR FOUNDATION IN THE OPINION OF THE PROJECT GEOTECHNICAL ENGINEER, THE CONTRACTOR SHALL STABILIZE THE TRENCH BOTTOM ACCORDING TO THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER.
 - BEDDING AND INITIAL BACKFILL TO 6" ABOVE THE CROWN OF THE PIPE SHALL BE #57 CRUSHED STONE. ELIMINATE VOIDS BY KNIFING UNDER AND AROUND PIPE WITH SHOVEL OR OTHER MEANS AT THE DISCRETION OF THE CONTRACTOR.
 - FINAL BACKFILL FOR ALL PIPES LOCATED IN PAVED AREAS SHALL BE COMPACTED #57 CRUSHED STONE MEETING THE REQUIREMENTS OF THE STATES DEPARTMENT OF TRANSPORTATION.
 - FOR GRASS OR LANDSCAPED AREAS, PROVIDE #57 CRUSHED STONE INITIAL BACKFILL TO 6" ABOVE CROWN OF PIPE AND COVER GRAVEL WITH A NONWOVEN GEOTEXTILE TO PREVENT MIGRATION OF FINES. FINAL BACKFILL TO SURFACE SHALL BE SOIL FREE OF FOREIGN DEBRIS. SOIL BACKFILL SHALL BE PLACED IN 6" LOOSE LIFTS AND BE COMPACTED TO 90% STANDARD DENSITY PER AASHTO T-99 OR PER PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. TOP 6" SHALL BE TOPSOIL FROM SITE STRIPPING OPERATIONS LOOSELY PLACED.
 - IF PLANS AND SPECIFICATIONS DO NOT INDICATE OTHERWISE, PAVEMENT REPAIR SHALL MATCH EXISTING SECTION AS A MINIMUM REQUIREMENT.

MINIMUM TRENCH WIDTHS	
PIPE DIA. (IN.)	MIN. WIDTH (IN.)
< 4	18
4	21
6	23
8	26

WATER AND SEWER TRENCH

SCALE: N.T.S.

3

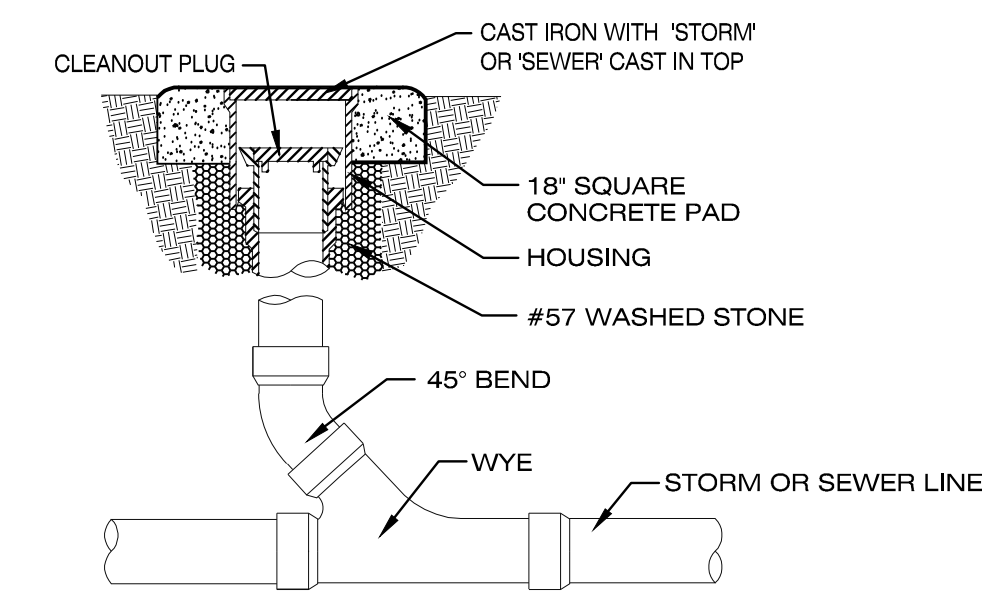


- WATER MAINS SHALL BE SEPARATED FROM STORM SEWER, SANITARY SEWER, NON-POTABLE IRRIGATION MAINS, AND FORCE MAINS BY A MINIMUM CLEAR VERTICAL DISTANCE OF 18" MEASURED BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE TOP OF THE LOWER PIPE. THE 18" MINIMUM VERTICAL SEPARATION DISTANCE DOES NOT APPLY TO SEPARATION OF SEWER LATERALS AND POTABLE WATER MAIN PIPELINE INSTALLATIONS. ALSO, WATER MAINS SHALL BE SEPARATED FROM STORM SEWER, SANITARY SEWER AND FORCE MAINS BY 10" AND FROM IRRIGATION MAINS BY 12" MEASURED HORIZONTALLY BETWEEN OUTSIDE OF PIPES.
- IF A DEVIATION IS SUBMITTED, THE FOLLOWING MINIMUM STIPULATIONS APPLY: THE CROSSING SHALL BE MADE USING THICKNESS CLASS 200 AWWA C-900 DR14, PVC (CLASS 235 AWWA C-905, DR 18, PVC FOR PIPES GREATER THAN 12" IN DIAMETER) OR DUCTILE IRON, PRESSURE CLASS 250 PIPE FOR A HORIZONTAL DISTANCE OF 10' ON EACH SIDE OF THE CROSSING. WATER MAIN CONCRETE ENCASEMENT SHALL ONLY BE MADE AFTER WRITTEN APPROVAL OF THE WATER DIRECTOR OR HIS DESIGNEE.
- 18" CLEAR DISTANCE SHALL NOT BE REDUCED IN CASES WHERE WATER CROSSES UNDER SEWER LINE.
- WATER MAINS, SANITARY SEWER, STORM SEWER, AND NON-POTABLE IRRIGATION MAINS SHALL BE IN SEPARATE TRENCHES.
- WATER MAINS CROSSING ANY TYPE OF SANITARY SEWER, INCLUDING FORCE MAIN, OR STORM SEWER SHALL HAVE THE ONE FULL LENGTH OF WATER MAIN CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT THE WATER JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 3' FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER.
- 10" STONE SHALL BE UTILIZED FOR SEPARATION BETWEEN GRAVITY SANITARY SEWER LINES AND STORMWATER LINES.

PIPE SEPARATION

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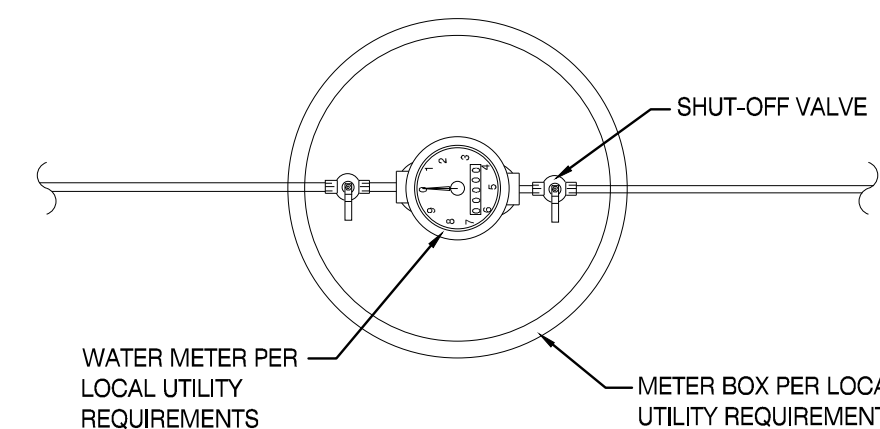
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STORM/SEWER CLEANOUT

SCALE: N.T.S.

5

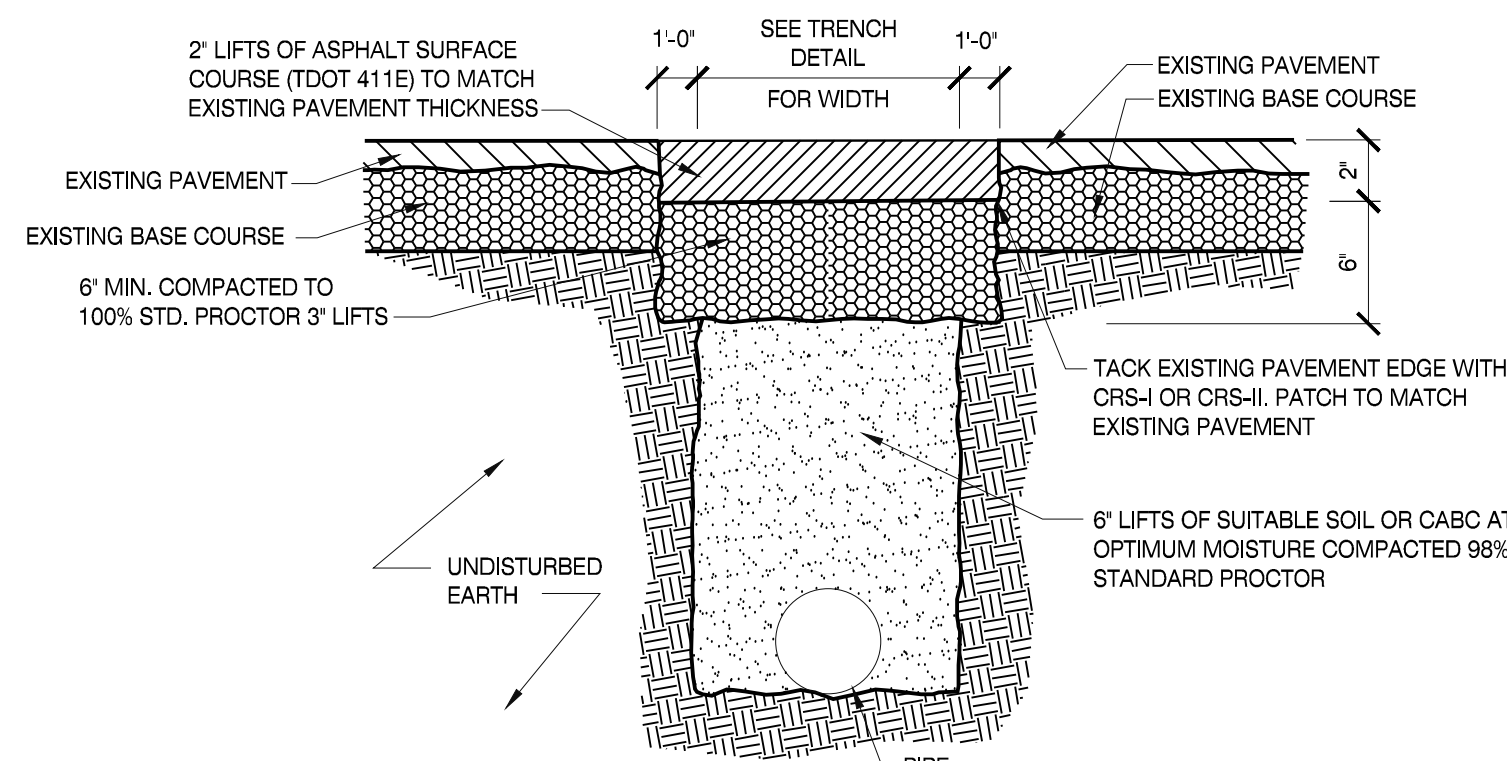


- NOTE:
- VALVE AND METER BOXES SHALL BE CAST IRON WHEN LOCATED IN TRAFFIC AREA.

WATER METER

SCALE: N.T.S.

6



- NOTES:
- EDGE TO BE SAWED TO A NEAT SQUARED EDGE. BROOMED CLEAN OF DUST BEFORE TACK COAT IS APPLIED.
 - EDGES TO BE TACKED WITH CRS-I OR CRS-II.
 - CONTRACTOR RESPONSIBLE FOR REPLACEMENT OF ANY PAVEMENT MARKINGS DISTURBED OR COVERED BY OVERLAY.

ASPHALT REPAIR

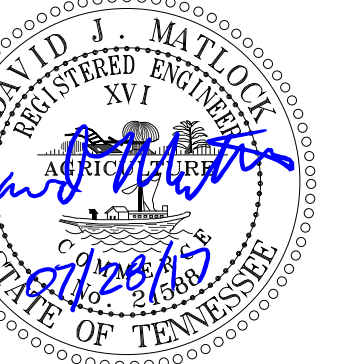
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7

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A NEW DEVELOPMENT FOR:
**ANDERSON COUNTY HIGH SCHOOL
NET ZERO BUILDING**
130 MAVERICK CIRCLE
CLINTON, TN 37716

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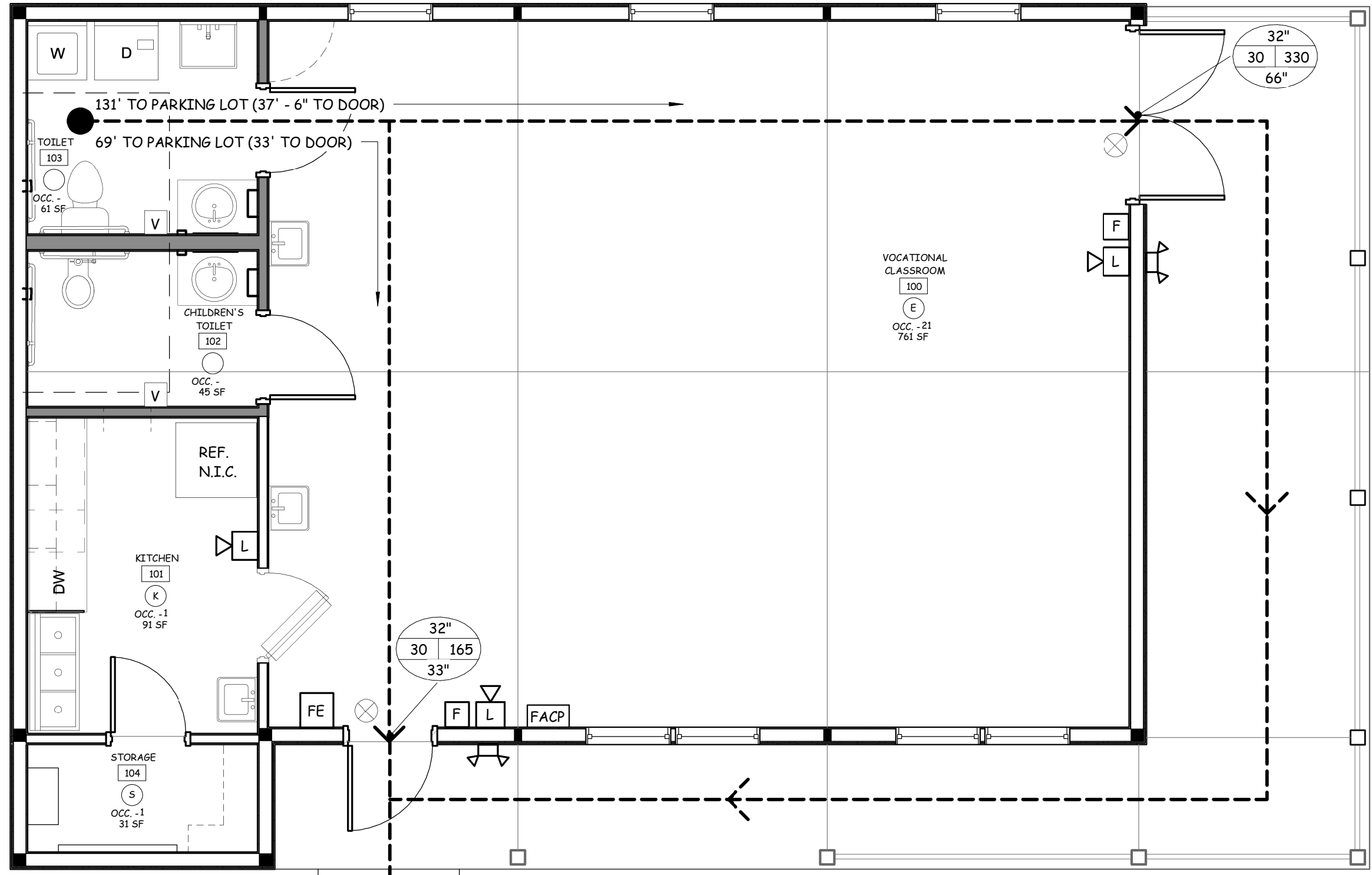
Date: 07/28/2017

Designed By: J.M.P.
Drawn By: G.A.O.
Reviewed By: D.J.M.

Comm. No. 170042.01

Revisions:

Sheet: Sheet
of No. 08.1



LIFE SAFETY PLAN LEGEND

Room Name	ROOM NAME	FL	FIRE ALARM HORN/FLASHING STROBE LIGHT COMBINATION UNIT
[301]	ROOM NUMBER	XL	COMBINATION EXIT LIGHT AND EMERGENCY LIGHT
(A)	ROOM OCCUPANT TYPE	X	EXIT LIGHT
OCC: Occupancy 150 SF	ROOM OCCUPANT COUNT	V	VISUAL STROBE ALARM
ROOM AREA			
(E)	EDUCATIONAL / DAY CARE (35 NET)	FE	FIRE EXTINGUISHER - MTD. W/ HIGHEST OPERABLE PART @ 48" AFF MAX
(K)	KITCHEN (200 GROSS)	F	FIRE ALARM PULL STATION
(S)	ACCESSORY STORAGE AREA / MECHANICAL (300 GROSS)		

DOOR EGRESS TAG

48" INDICATES DISTANCE TO EXIT

PATH OF TRAVEL

REQ. CLEAR WIDTH 32" MAX LOAD 150 180 36" ACTUAL CLEAR WIDTH

WALL LEGEND

(Line)	EXTERIOR WALL - LAP WOOD SIDING OVER INFILTRATION BARRIER OVER 5/8" PLYWOOD SHEATHING OVER 2X6 WOOD FRAMING @ 16" O.C. W/ SPRAY-APPLIED R-19 INSULATION
(Line)	WALL PARTITION - 2X4 STUDS @ 16" O.C. W/ 5/8" GYP. BD. ON EACH SIDE
(Line)	WALL PARTITION - SOUND BARRIER - 2X4 OR 2X6 WD. STUDS @ 16" O.C. W/ 5/8" GYP. BD. ON EACH SIDE W/ SOUND BATT INSULATION

LIFE SAFETY PLAN

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

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A NEW DEVELOPMENT FOR:

ANDERSON CO. HIGH SCHOOL NET ZERO ENERGY BUILDING

130 MAVERICK CIRCLE,
CLINTON, TN 37716

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LIFE SAFETY PLAN

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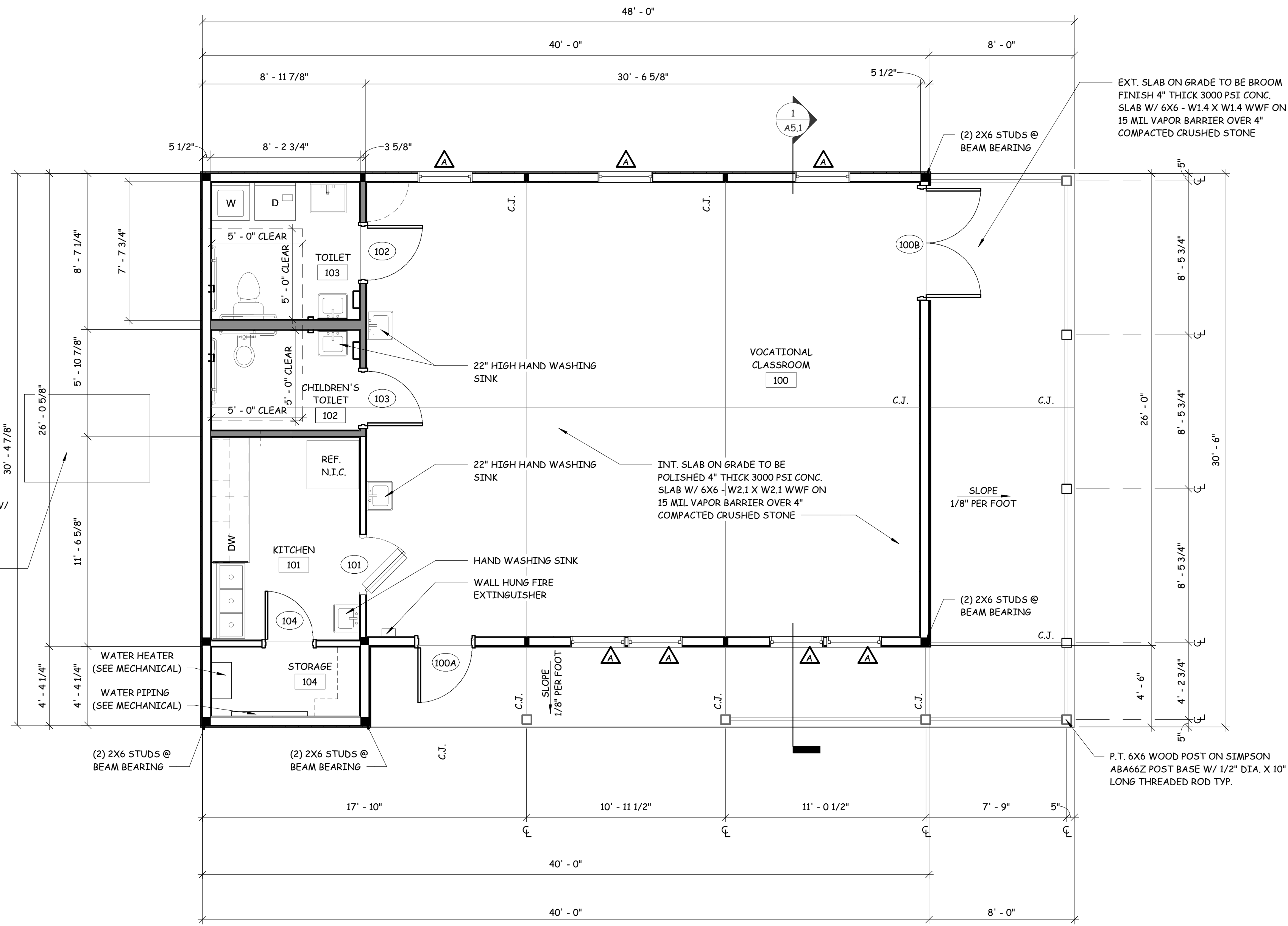
Designed By: Designer
Drawn By: Author
Reviewed By: Checker

Comm. No. 170042.01

Revisions:
REV #1 01/03/2017
REV #2 10/31/2017

Sheet: _____ of _____
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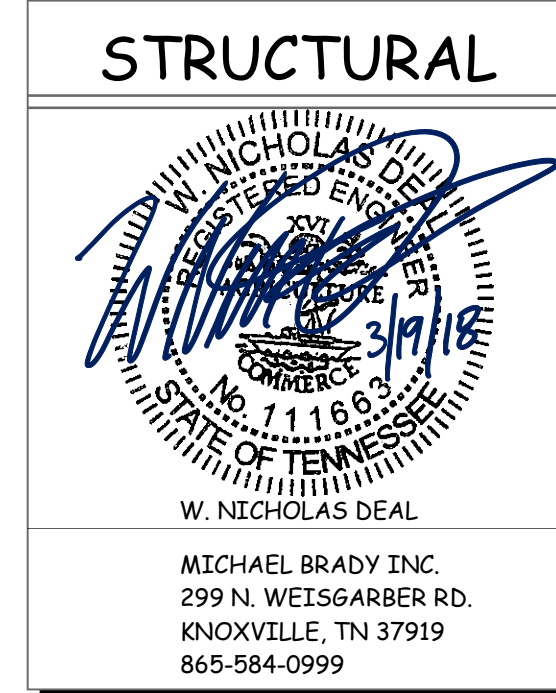


FLOOR PLAN

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

NOTE:
SLAB CONTRACTION JOINTS (CJ)
TO BE PLACED AS SHOWN, BUT NOT
MORE THAN 15' - 0" O.C.

1



GENERAL PLUMBING NOTES

- ALL PLUMBING MATERIAL AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- SEE PLUMBING DRAWINGS FOR LOCATIONS AND SIZE OF ACCESS PANELS.
- ALL FIXTURES AND ACCESSORIES SHALL COMPLY WITH THE CURRENT A.D.A. STATE OR LOCAL REGULATIONS FOR MOUNTING HEIGHTS AND CLEARANCES.
- ALL HOT WATER AND DRAIN PIPES SHALL BE INSULATED PER A.D.A. REQUIREMENTS. MINIMUM HOT WATER SUPPLY INSULATION SHALL BE PREMOLDED FIBERGLASS PIPE INSULATION WITH WHITE ALL SERVICE JACKET. INSULATION THICKNESS SHALL BE MIN. 1".
- ALL GRAB BARS IN NEW CONSTRUCTION SHALL BE INSTALLED WITH CONCEALED ANCHOR PLATES.
- LAVATORY FAUCET CONTROLS SHALL BE LEVER TYPE AND THE FORCE TO ACTIVATE SHALL NOT EXCEED 5 POUNDS.
- PROVIDE BLOCKING IN WALLS AS REQ'D FOR ALL FIXTURES AND EQUIPMENT.
- ALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF FURRING UNLESS OTHERWISE NOTED. "CLR" DENOTES FINISH TO FINISH.
- GYP. BD. IN ALL WET AREAS TO BE WATER-RESIST GYP. BD.
- CONCRETE BACKER BOARD SHALL BE PROVIDED BEHIND TILE AT WALLS.
- ADJUST SUPPLY LINE WALL PENETRATION HEIGHTS AS NEEDED TO AVOID CONFLICTS BETWEEN FLUSH VALVES AND GRAB BAR MOUNTING HEIGHTS. GRAB BAR HEIGHTS ARE TO TAKE PRIORITY.
- GRAB BARS MUST SUPPORT 250LB LOAD. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED.

WALL LEGEND

- EXTERIOR WALL - LAP WOOD SIDING OVER INFILTRATION BARRIER OVER 5/8" PLYWOOD SHEATHING OVER 2X6 WOOD FRAMING @ 16" O.C. W/ SPRAY-APPLIED R-19 INSULATION
- WALL PARTITION - 2X4 STUDS @ 16" O.C. W/ 5/8" GYP. BD. ON EACH SIDE
- WALL PARTITION - SOUND BARRIER - 2X4 OR 2X6 WD. STUDS @ 16" O.C. W/ 5/8" GYP. BD. ON EACH SIDE W/ SOUND BATT INSULATION

GRAB BAR REQUIREMENTS

- ALL GRAB BARS SHALL BE 1-1/4" TO 1-1/2" IN WIDTH OR OUTSIDE DIAMETER. [NCAC 11.5.1]
- THE CLEAR HAND SPACE MUST BE 1-1/2" BETWEEN THE INNER FACE OF THE GRAB BAR AND THE FINISHED FACE OF THE WALL OR PARTITION. [NCAC 11.5.2]
- GRAB BARS MUST BE ABLE TO SUPPORT A 250 POUND LOAD APPLIED IN ANY DIRECTION ALONG ITS LENGTH. [NCAC 11.5.3]
- GRAB BAR MUST BE MOUNTED ON EACH SIDEWALL NOT LESS THAN 33" NOR MORE THAN 36" ABOVE FINISHED FLOOR. [NCAC 11.4.3(4)]

RESTROOM ACCESSORIES

- 42" STAINLESS STEEL GRAB BAR, (SURFACE MOUNTED). 11/4" - 11/2" O MOUNTED 11/2" FROM WALL.
- 36" STAINLESS STEEL GRAB BAR, (SURFACE MOUNTED). 11/4" - 11/2" O MOUNTED 11/2" FROM WALL.
- 18" STAINLESS STEEL SURFACE MOUNTED VERTICAL GRAB BAR 39"-41" FROM WALL
- TOILET TISSUE DISPENSER (WALL MOUNTED). DISPENSER SHALL BE LOCATED WITHIN 12" OF THE FRONT EDGE OF THE TOILET SEAT. (1 PER RESTROOM)
- 24" x 36" MIRROR W/ 1/4" FLOAT PLATE SET IN SILICONE. MOUNT BOTTOM OF MIRROR AT 40" A.F.F. TOP OF MIRROR TO BE AT 76" A.F.F.
- PAPER TOWEL DISPENSER MOUNTING HEIGHT TO OPERABLE PARTS WITHIN 40" A.F.F.
- SOAP DISPENSOR
- COAT HOOK

MOUNTING HEIGHTS

WALL MOUNTED MIRROR	40" TO BOTTOM OF REFLECTIVE SURFACE.
PAPER TOWEL DISP.*	40" A.F.F.
TOILET PAPER DISP.*	19" TO CENTERLINE A.F.F.
GRAB BARS	36" A.F.F.
RIM OF LAVATORY	34" A.F.F.
TOILET SEAT	17" TO 19" A.F.F.
COAT HOOK	40" A.F.F.
ACCESSIBLE URINAL	17" TO RIM A.F.F.

*DENOTES BOTTOM OF HIGHEST OPERABLE PART.

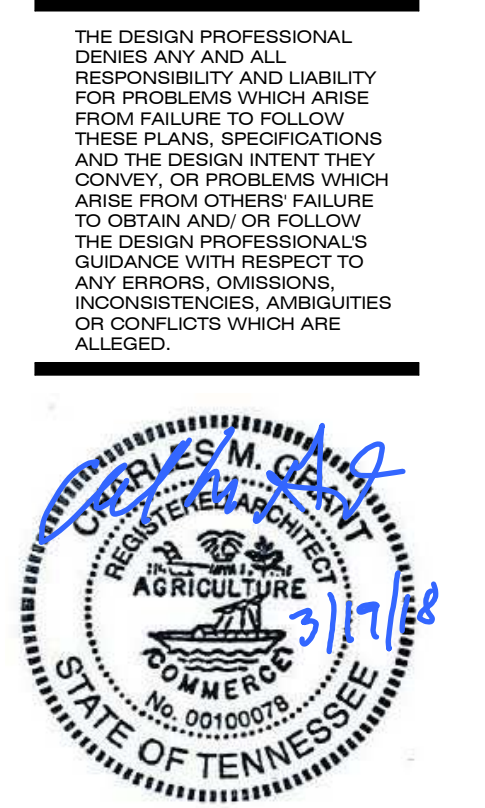
GENERAL NOTES

- ALL DIMENSIONS ARE TO FACE OF CONC. BLOCK, CONC. PANEL, FACE OF EXISTING FINISH, OR FACE OF NEW STUD, UNLESS OTHERWISE NOTED. "CLEAR" DENOTES FINISH TO FINISH DIMENSIONS.
- MOUNT FIRE EXTINGUISHERS LISTED IN SPECIFICATIONS AT LOCATIONS SHOWN AND/OR DIRECTED BY FIRE DEPARTMENT CODE OFFICIALS.
- GLAZING IN DOORS AND ADJACENT PANELS MUST BE TEMPERED. RESPONSIBILITY OF GLAZING SUBCONTRACTOR TO VERIFY & PLACE TEMPERED GLASS AS REQ'D BY THE LOCAL BUILDING CODE & INSPECTOR.
- ALL WOOD BLOCKING, NAILERS, ETC. MUST BE FIRE RETARDANT TREATED. THE CONTRACTOR IS TO CUT OFF ALL VERTICAL AND HORIZONTAL CONCEALED DRAFT OPENINGS BETWEEN EACH FLOOR AND BETWEEN THE TOP STORY AND THE ROOF / ATTIC.
- PROVIDE WATER RESISTANT & MOLD RESISTANT GYP. BD. AT ALL WET LOCATIONS
- FILL ALL C.M.U. CELLS BELOW GRADE WITH CONCRETE.
- PROVIDE SOUND BATT INSULATION IN ALL EXTERIOR WALLS, FROM TOP OF SLAB TO TOP OF WALL.
- ALL DETAILS OF CONSTRUCTION SHALL CONFORM WITH THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE.
- FURNISH AND INSTALL ALL REQUIRED BACKING FOR ALL FIXTURES AND EQUIPMENT
- CONTRACTOR IS TO FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR POSSIBLE CONFLICTS.
- GENERAL CONTRACTOR IS TO FIELD VERIFY LOCATIONS AND RUNS OF ALL NEW AND EXISTING STORM SEWER PIPING, SEWER & WATER LINES AND ROOF TIE-INS.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO AFFECT ALL INSTALLATIONS INDICATED ON THE DRAWINGS. THE WORK SHALL ALSO INCLUDE ALL MATERIALS, DETAIL AND LABOR NECESSARY FOR THE SUCCESSFUL INSTALLATION OF THE WORK DESCRIBED HEREIN.
- DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK. THE DRAWINGS, GENERAL NOTES AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS CALLED FOR BY ANY WILL BINDING AS IF CALLED FOR BY ALL. WORK SHOWN OR REFERRED TO ON ANY DRAWING SHALL BE PROVIDED AS THOUGH SHOWN ON ALL RELATED DRAWINGS. IF THERE IS ANY CONFLICT OR DISCREPANCY WITHIN OR BETWEEN ANY OF THE CONTRACT DOCUMENTS INVOLVING THE QUALITY OR QUANTITY OF WORK REQUIRED, THE WORK OF HIGHEST QUALITY AND/OR GREATEST QUANTITY SHOWN OR SPECIFIED SHALL BE FURNISHED.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT. THE CONTRACTOR SHALL PROVIDE AT THE PROJECT SITE A FULL SET OF CONSTRUCTION DOCUMENTS ANNOTATED WITH THE LATEST REVISIONS AND CLARIFICATIONS FOR THE USE BY ALL.
- CONDUCT OPERATIONS IN SUCH A MANNER AS TO MINIMIZE INTERFERENCE WITH USE OF PUBLIC WAYS AND ADJACENT USED FACILITIES. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT USE OF PUBLIC WAYS OR FACILITIES WITHOUT WRITTEN CONSENT OF AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES TO CLOSED OR OBSTRUCTED FACILITIES AS REQUIRED BY LOCAL REGULATIONS.
- THE CONTRACTOR SHALL LIMIT THE INGRESS AND EGRESS OF WORKERS AND EQUIPMENT TO THE CONSTRUCTION SITE TO AUTHORIZED PERSONS ONLY. DAMAGE TO ANY EXISTING INTERIOR OR EXTERIOR CONSTRUCTION SHALL BE REPAIRED TO "LIKE NEW" CONDITION UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES ADEQUATE SAFETY BARRICADES FOR PROTECTION OF JOB PERSONNEL AND THE PUBLIC, AND CLEAR ACCESS IN AND OUT OF THE WORK SITE SO AS TO FACILITATE DAILY TRAFFIC MOVEMENT, DELIVERIES, AND SAFETY. REMOVE BARRICADES WHEN NO LONGER REQUIRED.
- THE CONTRACTOR SHALL PERFORM HIGH QUALITY PROFESSIONAL WORK. JOIN MATERIALS TO UNIFORM ACCURATE FITS SO THEY MEET WITH NEAT, STRAIGHT LINES, FREE OF SMEARS OR OVERLAPS. INSTALL EXPOSED MATERIALS APPROPRIATELY LEVEL, PLUMB AND AT THE ACCURATE RIGHT ANGLES, OR FLUSH WITH ADJOINING MATERIALS. WORK OF EACH TRADE SHALL MEET ALL NATIONAL STANDARDS PUBLISHED BY THAT TRADE.
- THE ARCHITECT HAS MADE EVERY EFFORT TO SET FORTH IN THE CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS AND DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS SHALL NOT EXCUSE HIM FROM PROVIDING A COMPLETED FACILITY AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. IN THE EVENT OF DISCREPANCIES, CONTRACTOR SHALL PRICE THE MORE EXPENSIVE AND EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.
- EXISTING UTILITIES INDICATED TO REMAIN SHALL BE KEPT IN SERVICE AND PROTECTED FROM DAMAGE DURING DEMOLITION OPERATIONS
- BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS. ANY DIFFERENCES BETWEEN DIMENSIONS INDICATED ON THE DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR INSTRUCTIONS AND CONSIDERATIONS BEFORE PROCEEDING WITH THE WORK.
- INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED SPECIFICATIONS, UNLESS OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE, AS A MINIMUM STANDARD, WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.
- COOPERATE WITH THE APPLICABLE CITY OR OTHER GOVERNMENT OFFICIALS AND INSPECTORS AT ALL TIMES. IF SUCH OFFICIAL OR INSPECTOR DEEMS SPECIAL INSPECTION NECESSARY, PROVIDE ALL ASSISTANCE AND FACILITIES THAT WILL EXPEDITE HIS INSPECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL CONTRACT DOCUMENTS AND FIELD CONDITIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION.
- REMOVE DEBRIS, RUBBISH, AND OTHER SUBSTANCES FROM SITE. LEGALLY TRANSPORT AND DISPOSE OF SUCH MATERIALS OFF-SITE. BURNING OR BURNING OF "TO BE REMOVED" MATERIALS ON THE PROJECT SITE IS FORBIDDEN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS OWN TELEPHONE (W/FAX) AND TOILET FOR ALL SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TAPS, EXTENSIONS, VALVES, OR OTHER DEVICES NECESSARY TO RUN POWER TOOLS AND EQUIPMENT. SUCH MODIFICATIONS TO EXISTING UTILITIES MUST BE REMOVED AT COMPLETION OF THE PROJECT. ELECTRICITY & WATER TO BE FURNISHED BY OWNER
- DO NOT INTERRUPT EXISTING UTILITIES IN OCCUPIED FACILITIES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. IF INTERRUPTION IS ALLOWED, PROVIDE ALTERNATE TEMPORARY SERVICES ACCEPTABLE TO GOVERNING AUTHORITIES. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES 48 HOURS PRIOR TO ANY DEMOLITION WORK.
- EXCEPT WHERE OTHERWISE SPECIFIED, THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION AGAINST WEATHER TO MAINTAIN ALL WORK, MATERIALS, APPARATUS, AND FIXTURES FROM INJURY OR DAMAGES. AT THE END OF THE DAY'S WORK, ALL NEW WORK LIKELY TO BE DAMAGED SHALL BE COVERED OR OTHERWISE PROTECTED AS REQUIRED.

GENERAL FINISH NOTES

- ALL DOOR FRAMES AND DOORS PAINT TO BE SEMI GLOSS FINISH.
- PROVIDE APPROPRIATE SEALANT FOR ALL FLOOR APPLICATIONS.
- BASE IN TOILET ROOMS MUST BE COVERED.
- RUBBER BASE TO BE PROVIDED IN ALL ROOMS.
- APPROPRIATELY IDENTIFY "MEN" AND "WOMEN" W/ ADA COMPLIANT SIGNAGE
- ALL FINISHES AND COLORS SHALL BE SELECTED BY OWNER

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 FOR PERMITTING ONLY
 SCHEMATIC DESIGN
 DESIGN DEVELOPMENT
 CONSTRUCTION DOCUMENTS

Drawing Title:
FLOOR PLANS,
ARCHITECTURAL &
STRUCTURAL NOTES
Date: 07/28/2017
Designed By: C.M.B.
Drawn By: C.M.B.
Reviewed By: C.M.G.
Comm. No. 170042.01
Revisions:
REV #1 0103/2017

Sheet: Sheet
of No. **A1.1**

A - DOOR SCHEDULE															
NUMBER	D-TYPE	D-MATL	DOORS				FRAMES			DETAILS			H-WARE	REMARKS	
			D-WIDTH	HEIGHT	THICK	FINISH	F-TYPE	F-MATL	F-FINISH	HEAD	JAMB	T-HOLD			
100A	N	HM	3' - 0"	7' - 0"	1 3/4"	PAINT	---	2	HM	PAINT	4/A2.1	5/A2.1	6/A2.1		
100B	N	HM	6' - 0"	7' - 0"	1 3/4"	PAINT	---	2	HM	PAINT	4/A2.1	5/A2.1	6/A2.1		
101	DD	HM	3' - 0"	7' - 0"	1 3/4"	PAINT	---	1	HM	PAINT	7/A2.1	7/A2.1	8/A2.1		
102	F	HM	3' - 0"	7' - 0"	1 3/4"	PAINT	---	1	HM	PAINT	7/A2.1	7/A2.1	8/A2.1		
103	F	HM	3' - 0"	7' - 0"	1 3/4"	PAINT	---	1	HM	PAINT	7/A2.1	7/A2.1	8/A2.1		
104	F	HM	2' - 8"	7' - 0"	1 3/4"	PAINT	---	1	HM	PAINT	7/A2.1	7/A2.1	8/A2.1		

DOOR HARDWARE

SET 1: DOOR 100A (ENTRANCE SINGLE)				
3	EA. BUTTS	BB1191 - 4.5 X 4.5 NRP	US26D	HAG
1	EXIT DEVICE	99NL	US26D	VON
1	CYLINDER	CORBIN / RUSSWIN AS REQ.	US26D	CR
1	DOOR CLOSER	DC6210 X A4 X M54	ALUM. PT.	CR
1	KICK PLATE	193S - 8' X 2' LWD	US32D	HAG
1	THRESHOLD	896V	MULL ALUM.	NGP
1	DOOR SWEEP	98V	US28	NGP
1	SET WEATHERSTRIP	127NA - HEAD & JAMBS	US28	NGP

SET 2: DOOR 105B (ENTRANCE PAIR)				
6	EA. BUTTS	BB1191 - 4.5 X 4.5 NRP	US26D	HAG
1	MULLION	KR4954	SP29	VON
1	EXIT DEVICE	99L - NL X 996L	US26D	VON
1	EXIT DEVICE	99L - DT X 996L	US26D	VON
2	CYLINDERS	CORBIN / RUSSWIN AS REQ.	US26D	CR
2	DOOR CLOSERS	DC6210 X A4 X M54	ALUM. PT.	CR
2	KICK PLATES	193S - 8' X 1' LWD	US32D	HAG
1	THRESHOLD	896V	MULL ALUM.	NGP
2	DOOR SWEEPS	98V	US28	NGP
1	SET WEATHERSTRIP	127NA - HEAD & JAMBS	US28	NGP

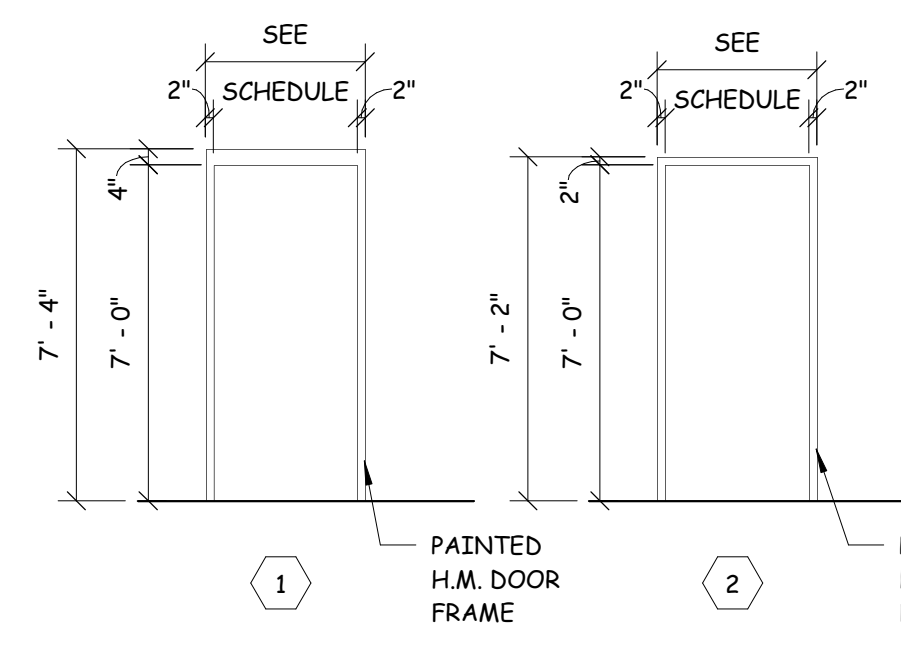
SET 3: DOOR 101 (KITCHEN)				
4	EA. BUTTS	BB1279 - 4.5 X 4.5	US26D	HAG
1	LEVER CLASSROOM	CL3355 NZD	US26D	CR
2	KICK PLATES	193S - 8' X 2' LWD	US32D	HAG
3	DUTCH DOOR BOLT	054	US26D	IVE
3	SILENCERS	SR64	-----	IVE

SET 4: DOORS 102 & 103 (CHILDREN'S TOILET & REGULAR TOILET)				
3	EA. BUTTS	BB1279 - 4.5 X 4.5	US26D	HAG
1	LEVER PRIVACY	CL3320 NZD	US26D	CR
2	KICK PLATES	193S - 8' X 2' LWD	US32D	HAG
3	SILENCERS	SR64	-----	IVE

SET 5: DOOR 104 (STORAGE)				
3	EA. BUTTS	BB 1279 - 4.5 X 4.5	US26D	HAG
1	LEVER STOREROOM	CL 3357 NZD	US26D	CR
1	DOOR CLOSER	DC6210 X M54	ALUM. PT.	CR
1	KICK PLATE	193S - 8' X 2' LWD	US32D	HAG
3	SILENCERS	SR64	-----	IVE

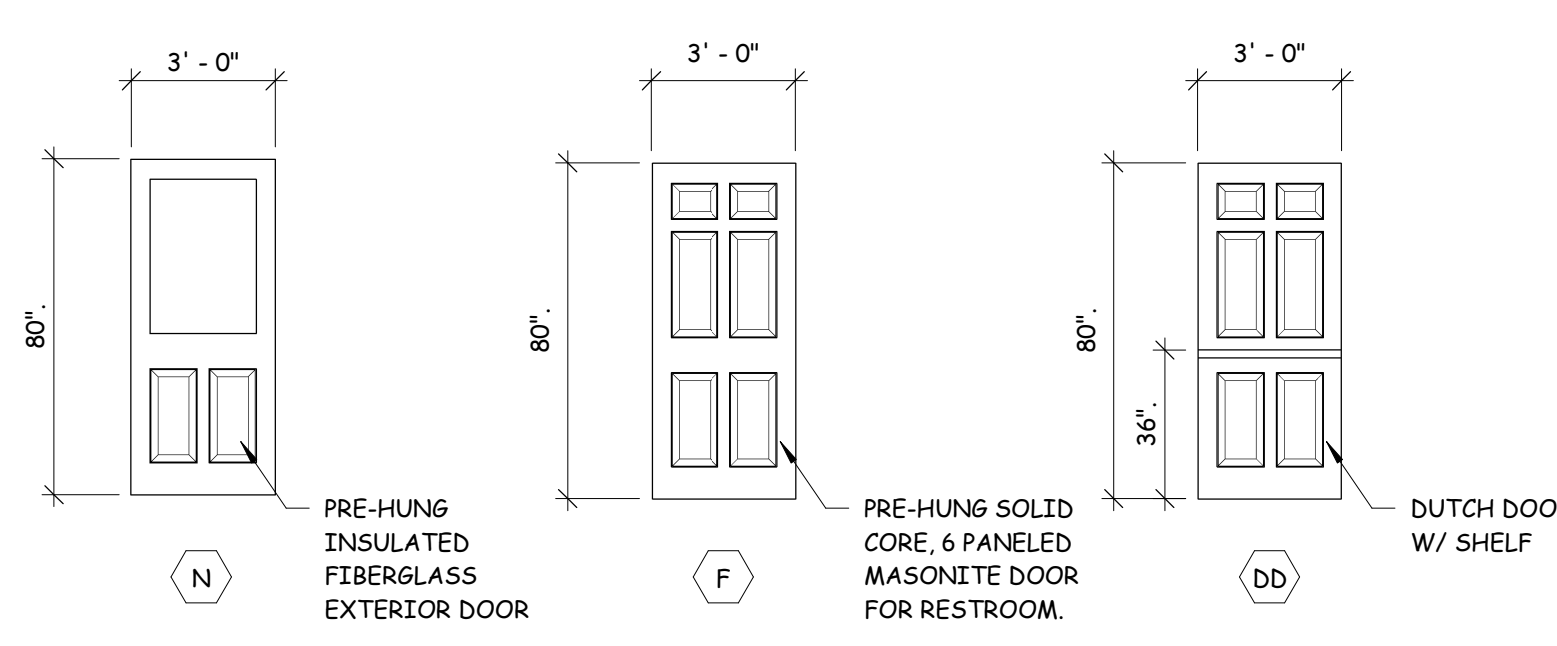
DOOR HARDWARE NOTES

1. MANUFACTURES LISTED IN THE HARDWARE SPECIFICATION ARE AS FOLLOWS
2. ALL LOCKSETS SHALL BE MASTER KEYED INTO EXISTING CORBIN / RUSSWIN KEY SYSTEM. SUPPLY 3 KEYS PER LOCKSET AND 6 MASTER KEYS. PROVIDE A CONSTRUCTION MASTER KEY SYSTEM FOR USE DURING BUILDING CONSTRUCTION. AT COMPLETION OF THE PROJECT, REMOVE THE CONSTRUCTION MASTER KEY SYSTEM AND DELIVER PERMANENT KEYS TO OWNER.
3. FINISH OF HINGES, LOCKSETS, AND EXIT DEVICES SHALL BE SATIN CHROME (US26D) FINISH. DOOR CLOSERS SHALL HAVE A SPRAYED ALUMINUM FINISH. THRESHOLD SHALL HAVE A MILL FINISH. DOOR SWEEPS AND WEATHERSTRIP SHALL HAVE A CLEAR ANODIZED FINISH.
4. ADJUST DOOR CLOSERS TO COMPLY WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.



DOOR FRAME LEGEND

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



DOOR ELEVATION LEGEND

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

GENERAL DOOR NOTES

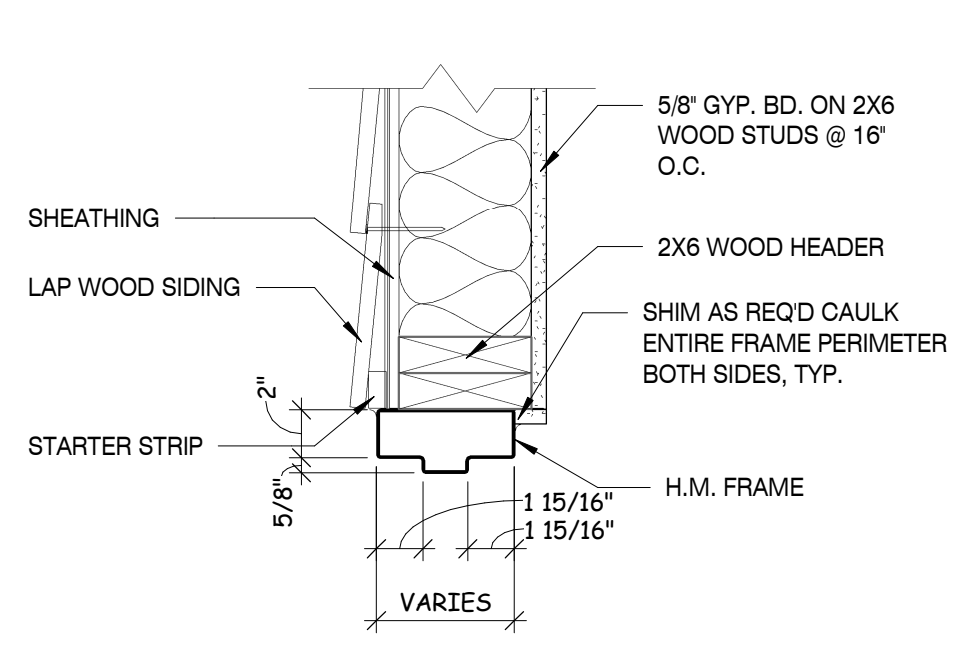
1. RATED DOORS MUST HAVE RATED FRAMES, HARDWARE, CLOSERS AND OTHER RATED ACCESSORIES.
2. CLOSERS AND POSITIVE LATCHING ARE REQUIRED ON FIRE RATED DOORS AND DOORS IN SMOKE TIGHT PARTITIONS.
3. EXTERIOR HOLLOW METAL DOORS ARE TO BE INSULATED.
4. EXTERIOR HOLLOW METAL DOORS AND FRAMES ARE TO BE FACTORY PRIMED AND FIELD PAINTED.
5. EVERY DOOR LATCH TO CLOSETS, STORAGE AREAS, KITCHENS AND OTHER SIMILAR SPACES OR AREAS SHALL BE SUCH THAT CLIENTS CAN OPEN THE DOOR FROM INSIDE THE SPACE OR AREA.
6. EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO ALLOW OPENING OF THE LOCKED DOOR FROM THE OUTSIDE BY OPENING DEVICE THAT SHALL BE READILY ACCESSIBLE TO THE STAFF.
7. PROVIDE WIRE GLASS WHERE REQUIRED.

GENERAL WINDOW NOTES

1. ALL GRADES SHOWN HERE ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY ALL GRADES PRIOR TO BIDDING AND BE RESPONSIBLE FOR ANY ADDITIONAL WORK THAT THE VARYING GRADES MAY REQUIRE TO COMPLETE THE SCOPE OF WORK.
2. CONTRACTOR TO FIELD VERIFY EXACT NUMBER OF WINDOWS EXISTING PRIOR TO BIDDING AND IS RESPONSIBLE FOR REPLACING ALL WINDOWS IN ALL BUILDINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
3. ALL NEW WINDOWS IN EXISTING BATHROOMS ARE TO HAVE FROSTED TRANSLUCENT GLASS.
4. VERIFY EXACT SIZE OF EXISTING OPENINGS IN FIELD, PROVIDE SHIMS AND OR BLOCKING AS REQ'D TO ALLOW FOR NEW WINDOW INSTALLATION.
5. ALL WINDOWS IN DOORS AND NEXT TO DOORS TO HAVE TEMPERED GLASS.

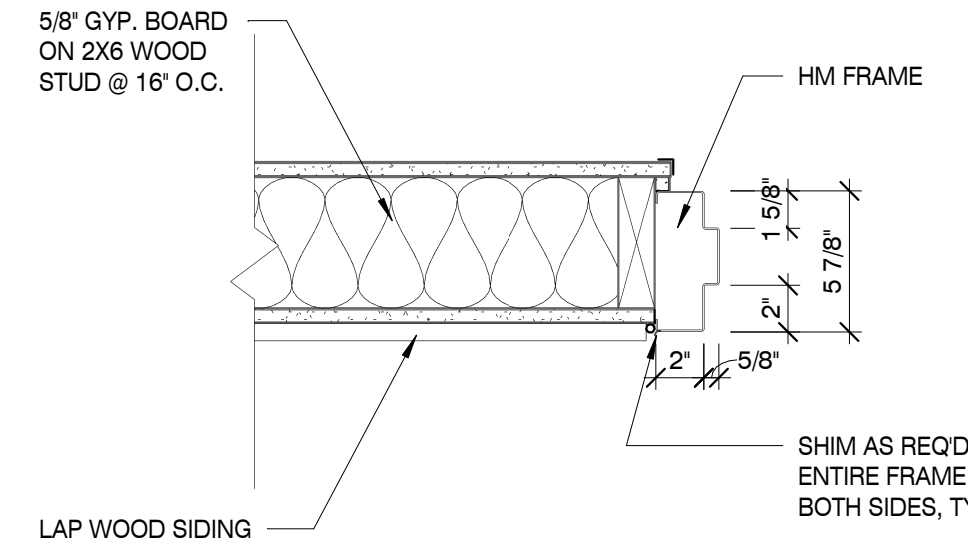
WINDOW ELEVATION

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



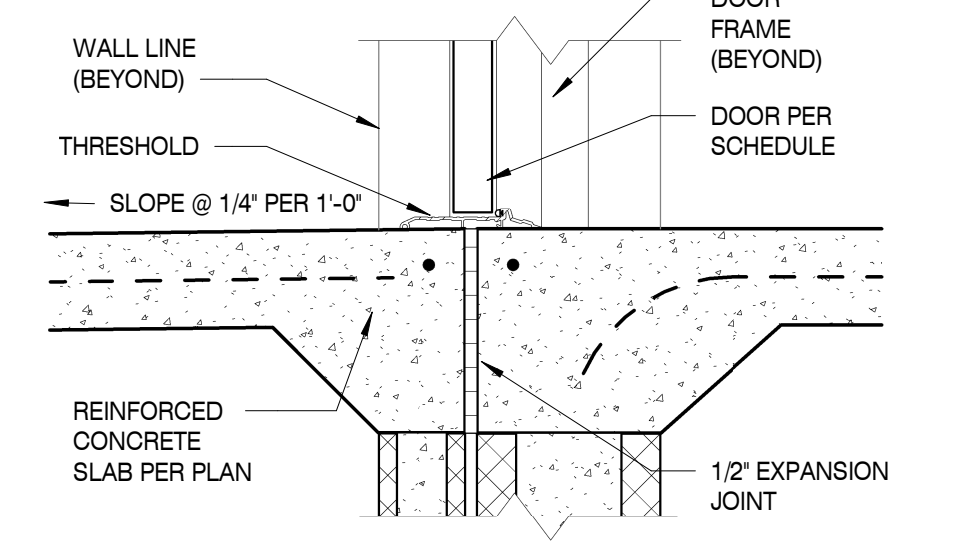
HEAD DETAIL

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



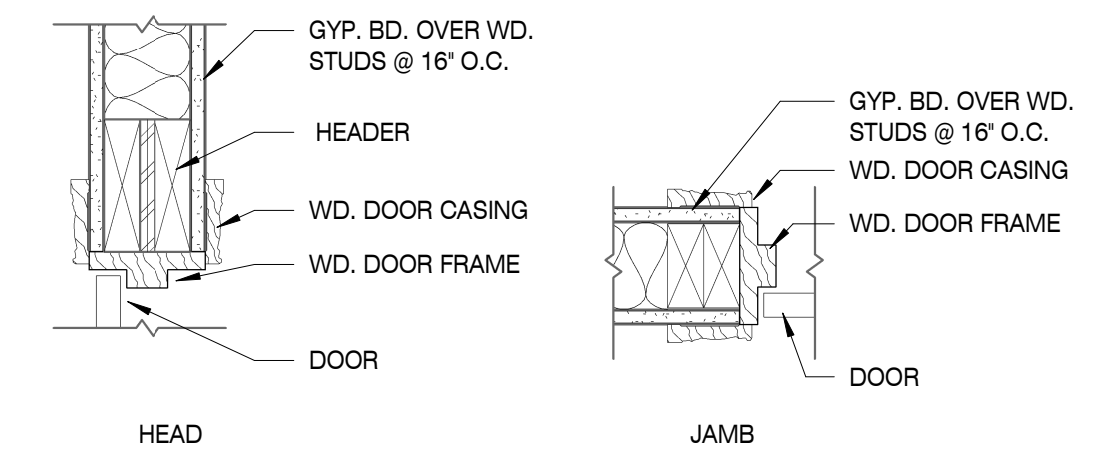
JAMB DETAIL

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



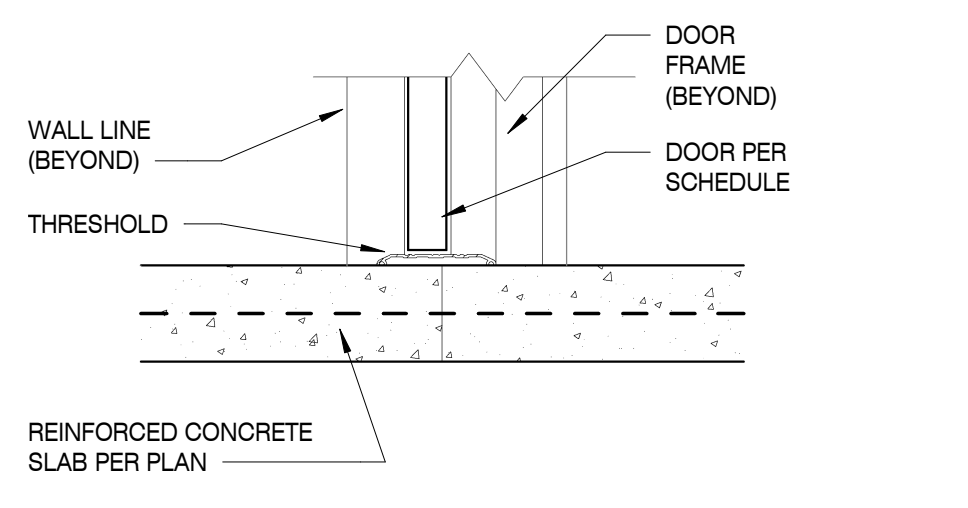
THRESHOLD DETAIL

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



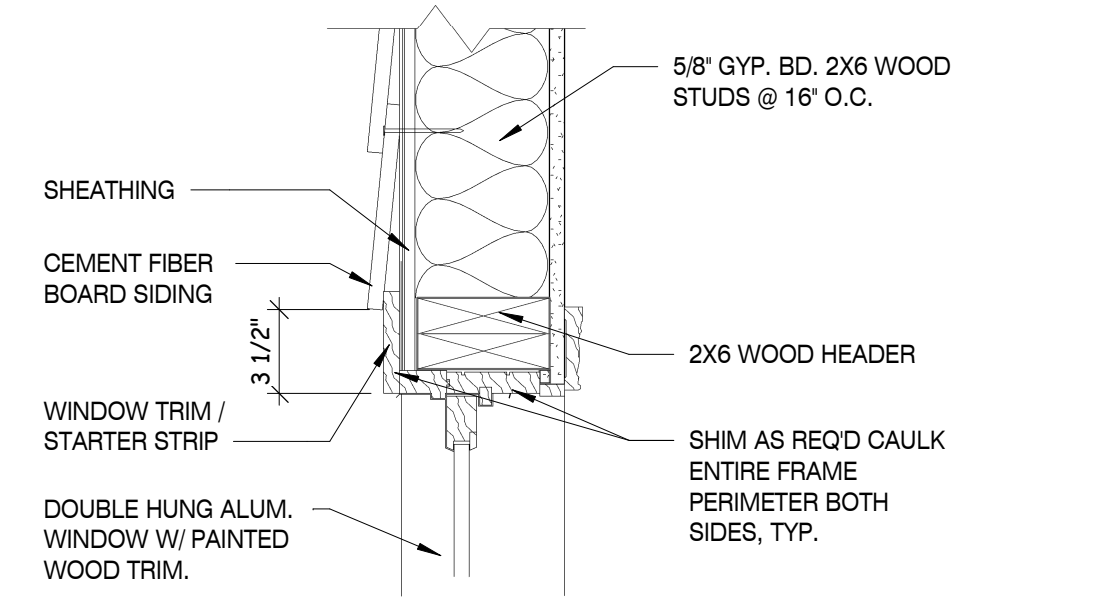
HEAD/JAMB DETAIL

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



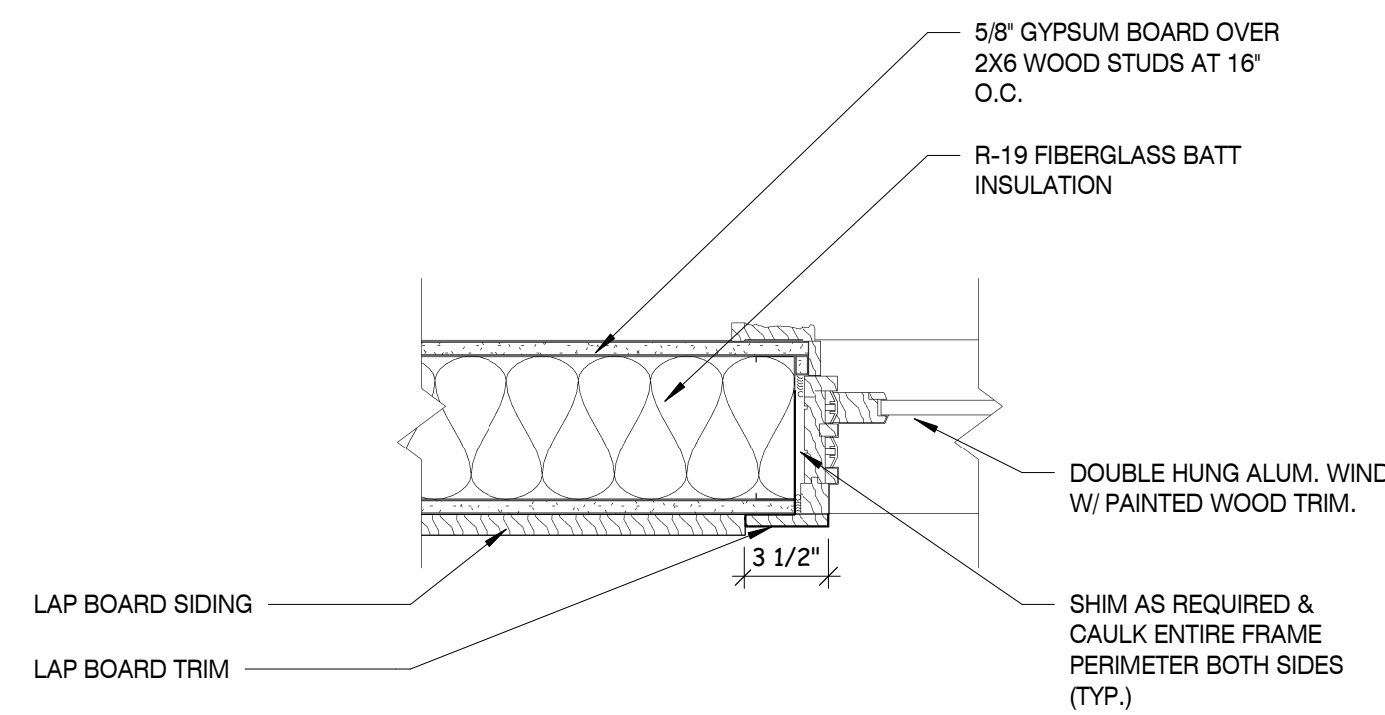
THRESHOLD DETAIL

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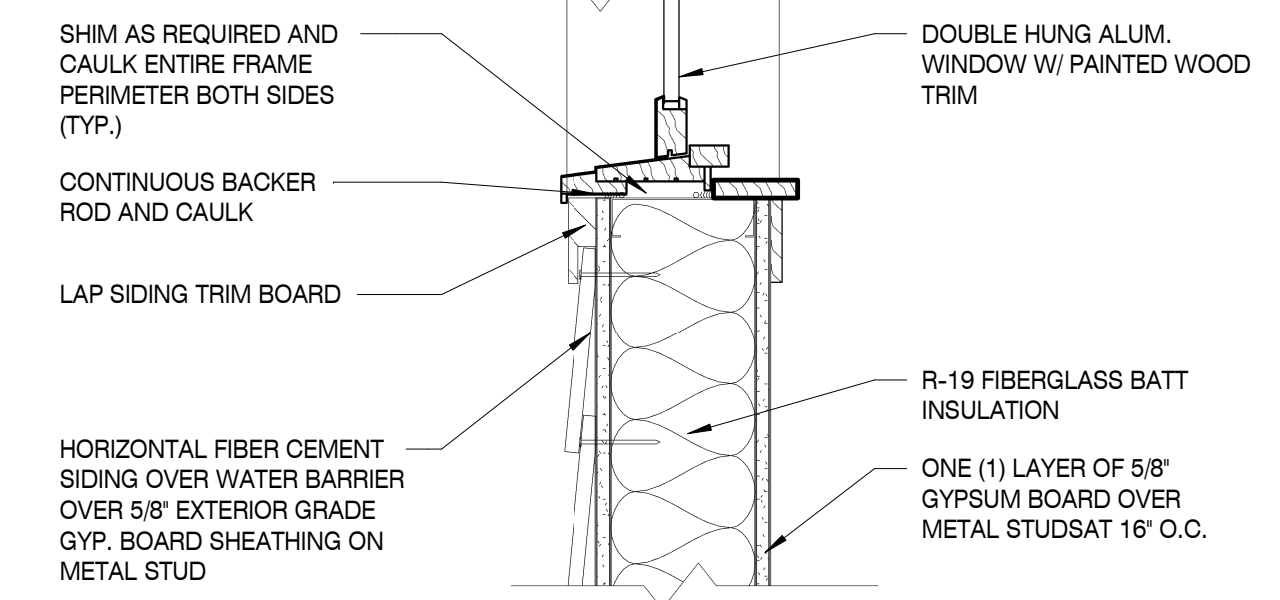
WINDOW HEAD DETAIL

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



WINDOW JAMB DETAIL

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



WINDOW SILL DETAIL

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

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A NEW DEVELOPMENT FOR:

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- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION DOCUMENTS

Drawing Title:
DOOR SCHEDULE, DOOR /
FRAME ELEVATIONS AND
DETAILS

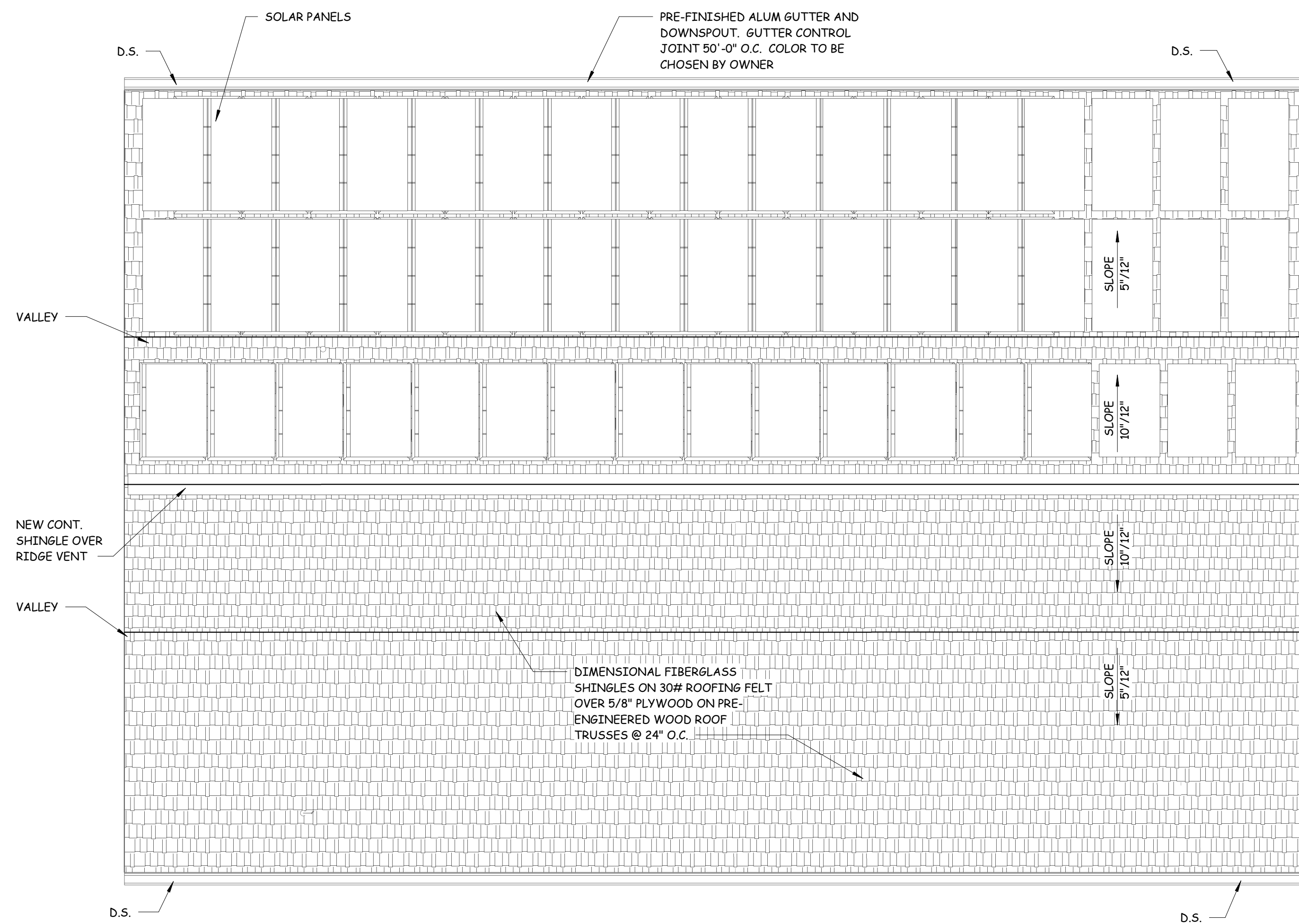
Date: 07/28/2017

Designed By: Designer
Drawn By: Author
Reviewed By: Checker

Comm. No. 170042.01

Revisions:
REV #1 010/18/2017

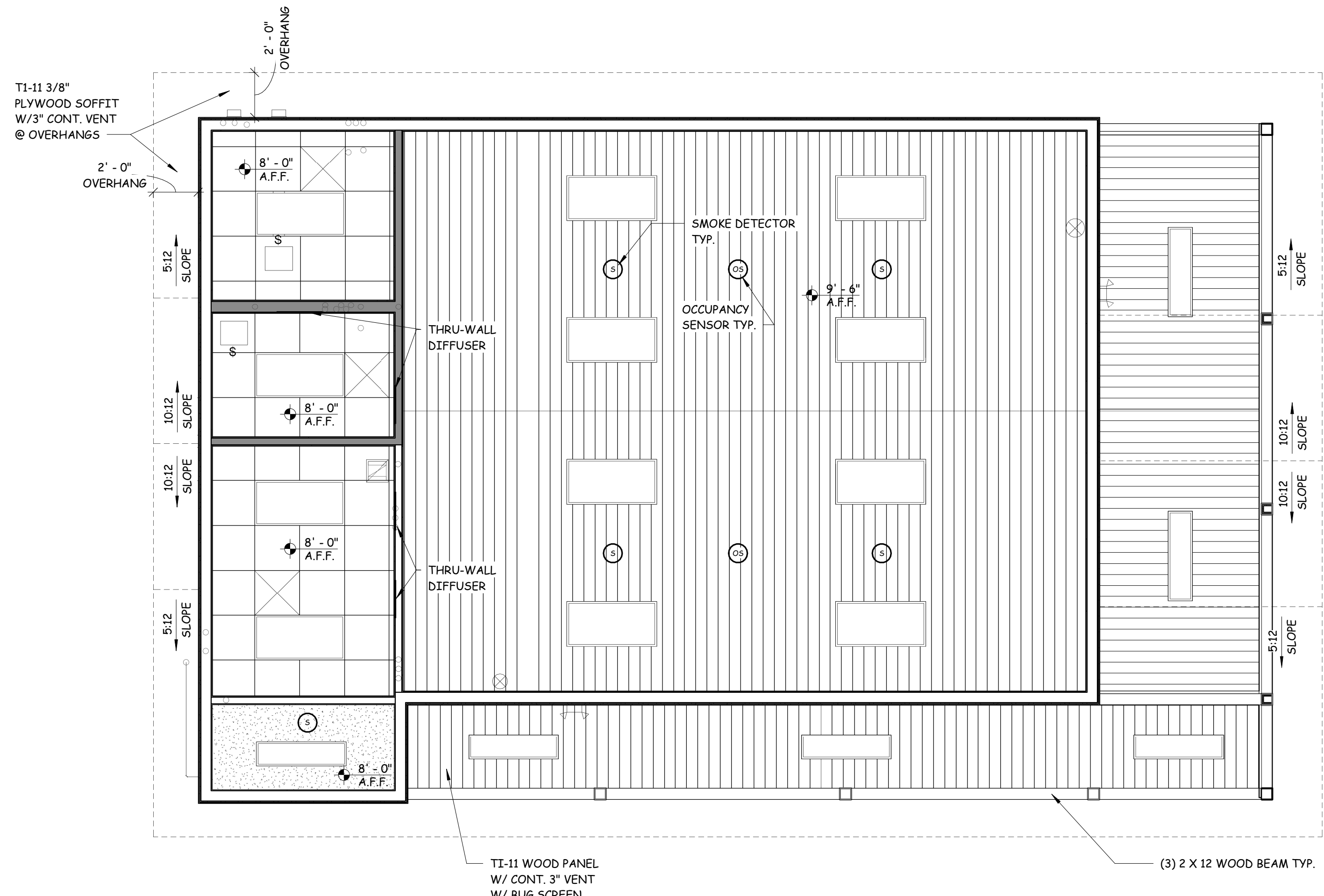
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ROOF PLAN

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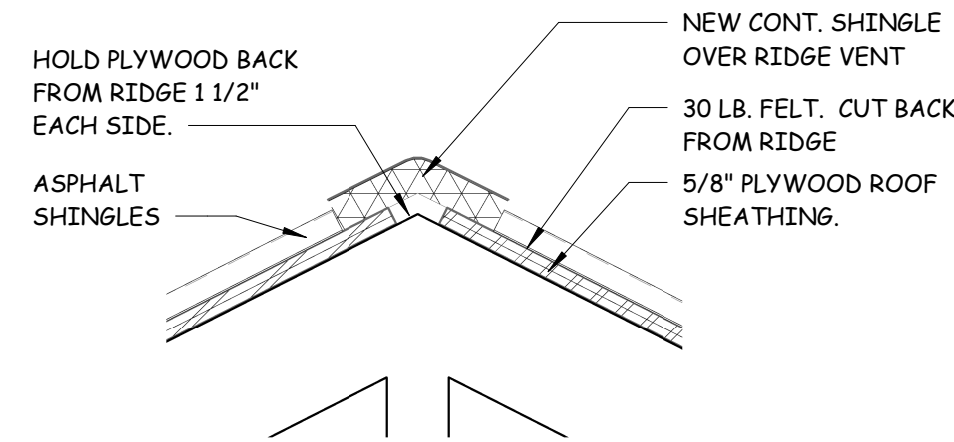
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REFLECTED CEILING PLAN

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

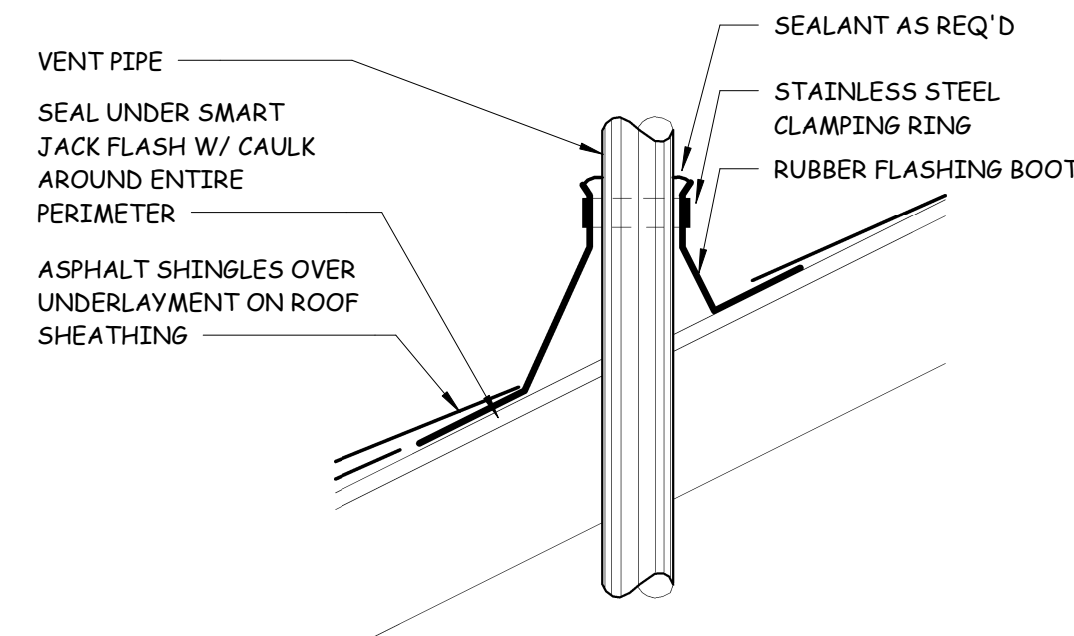
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RIDGE VENT DETAIL

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

3



VENT PENETRATION DETAIL

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

4

REFLECTED CEILING LEGEND

	2X4 FLUORESCENT FIXTURE W/ PRISMATIC DIFFUSER
	COMBINATION EMERGENCY LIGHT AND EXIT LIGHT
	EXIT LIGHT
	EMERGENCY LIGHT
	HVAC SUPPLY DIFFUSER
	HVAC RETURN GRILL
	TI-II WOOD PANEL
	24"X24" ACOUSTICAL CEILING TILE
	5/8" GYP. BD. CEILING
	9'-0" A.F.F. CEILING HEIGHT UNLESS OTHERWISE NOTED

WALL LEGEND

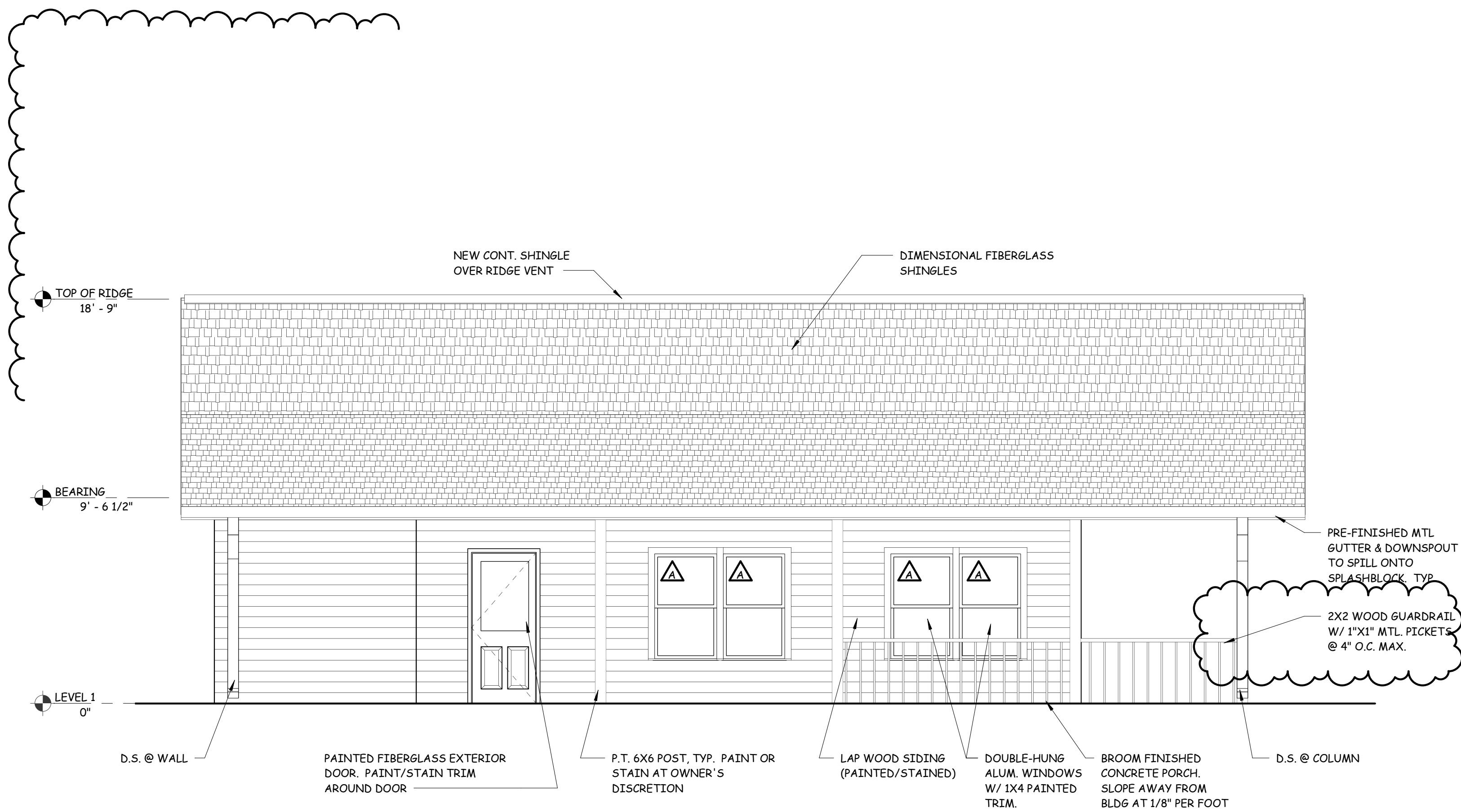
	EXTERIOR WALL - LAP WOOD SIDING OVER INFILTRATION BARRIER OVER 5/8" PLYWOOD SHEATHING OVER 2X6 WOOD FRAMING @ 16" O.C. W/ SPRAY-APPLIED R-19 INSULATION
	WALL PARTITION - 2X4 STUDS @ 16" O.C. W/ 5/8" GYP. BD. ON EACH SIDE
	WALL PARTITION - SOUND BARRIER - 2X4 OR 2X6 WD. STUDS @ 16" O.C. W/ 5/8" GYP. BD. ON EACH SIDE W/ SOUND BATT INSULATION

STRUCTURAL

W. NICHOLAS DEAL

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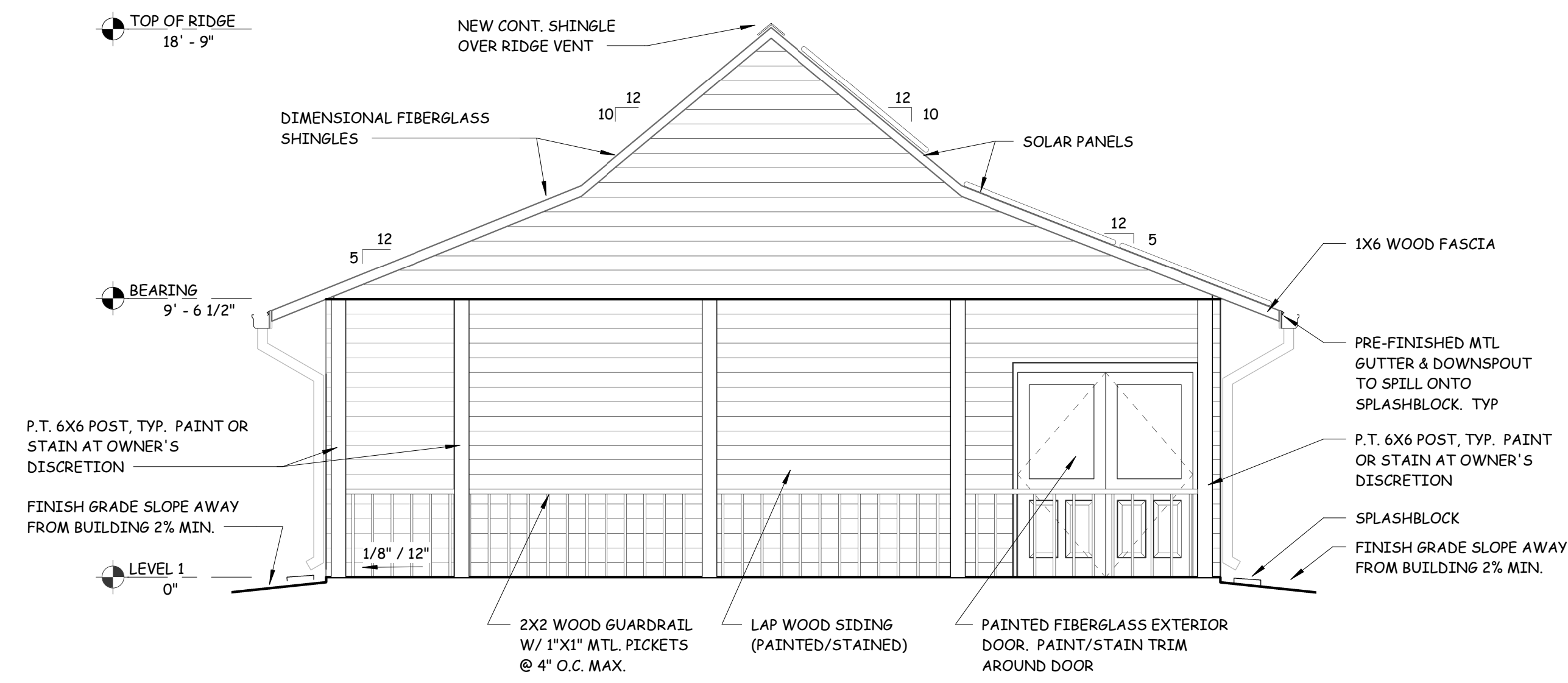




SOUTH ELEVATION

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

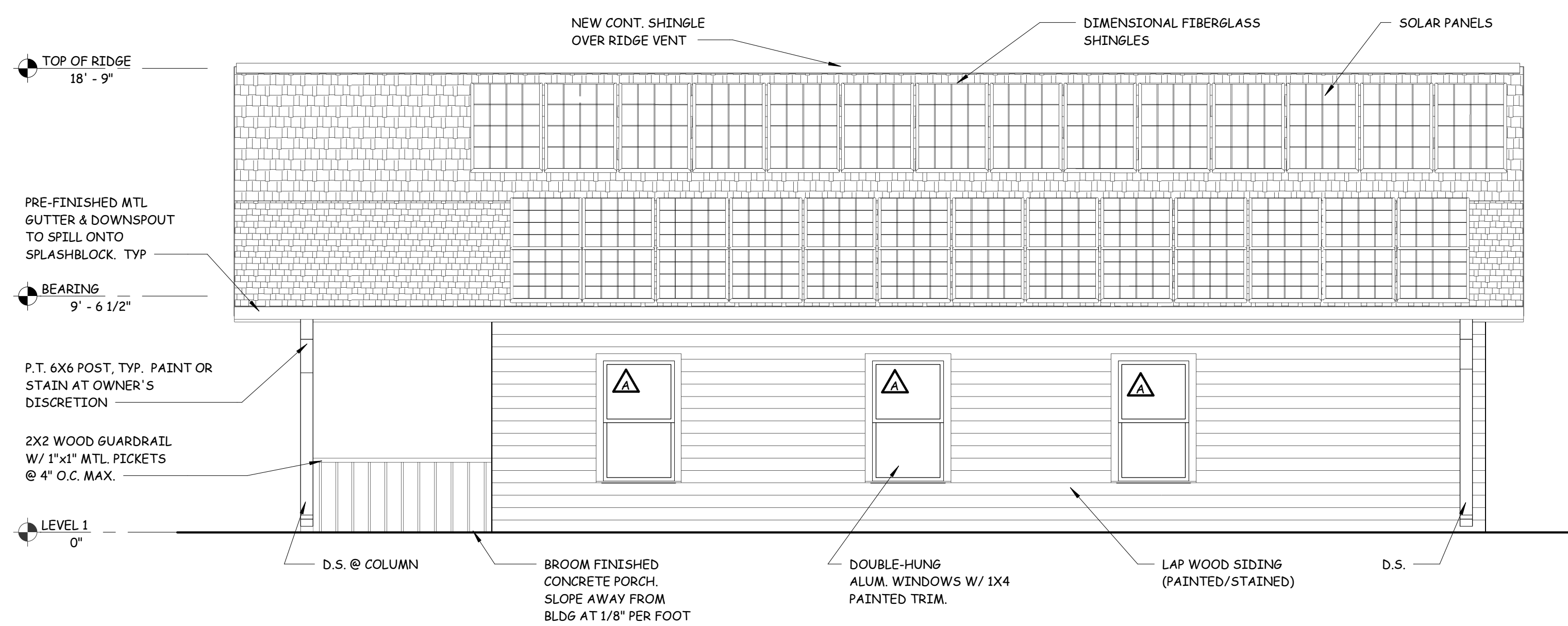
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EAST ELEVATION

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

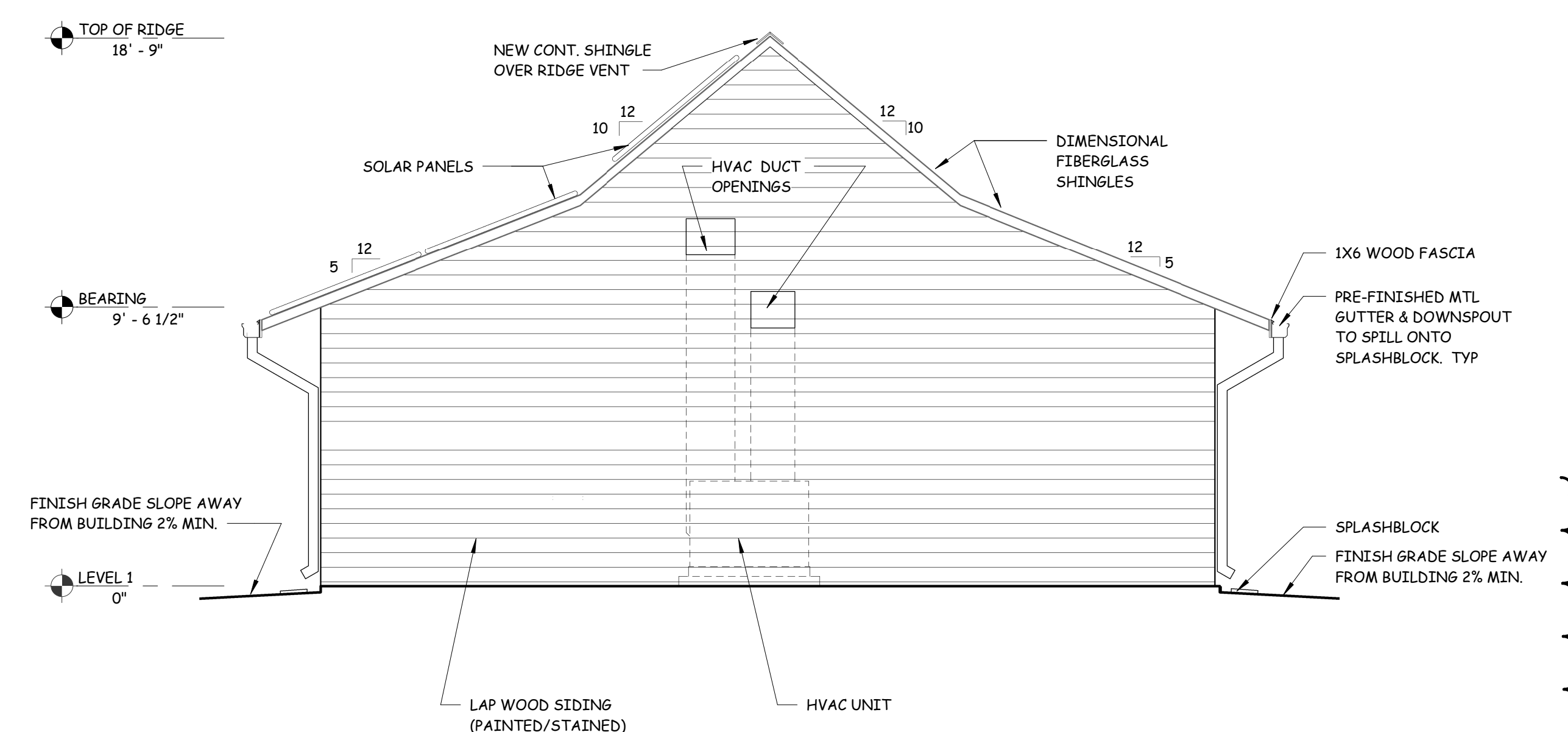
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NORTH ELEVATION

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

3



WEST ELEVATION

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

4

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Drawing Title:
 EXTERIOR ELEVATIONS & NOTES

Date: 07/28/2017

Designed By: C.M.B.
 Drawn By: C.M.B.
 Reviewed By: C.M.G.

Comm. No. 170042.01

Revisions:
 REV #1 010/18/2017

Sheet: of Sheet No. **A4.1**

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BUILDING SECTION

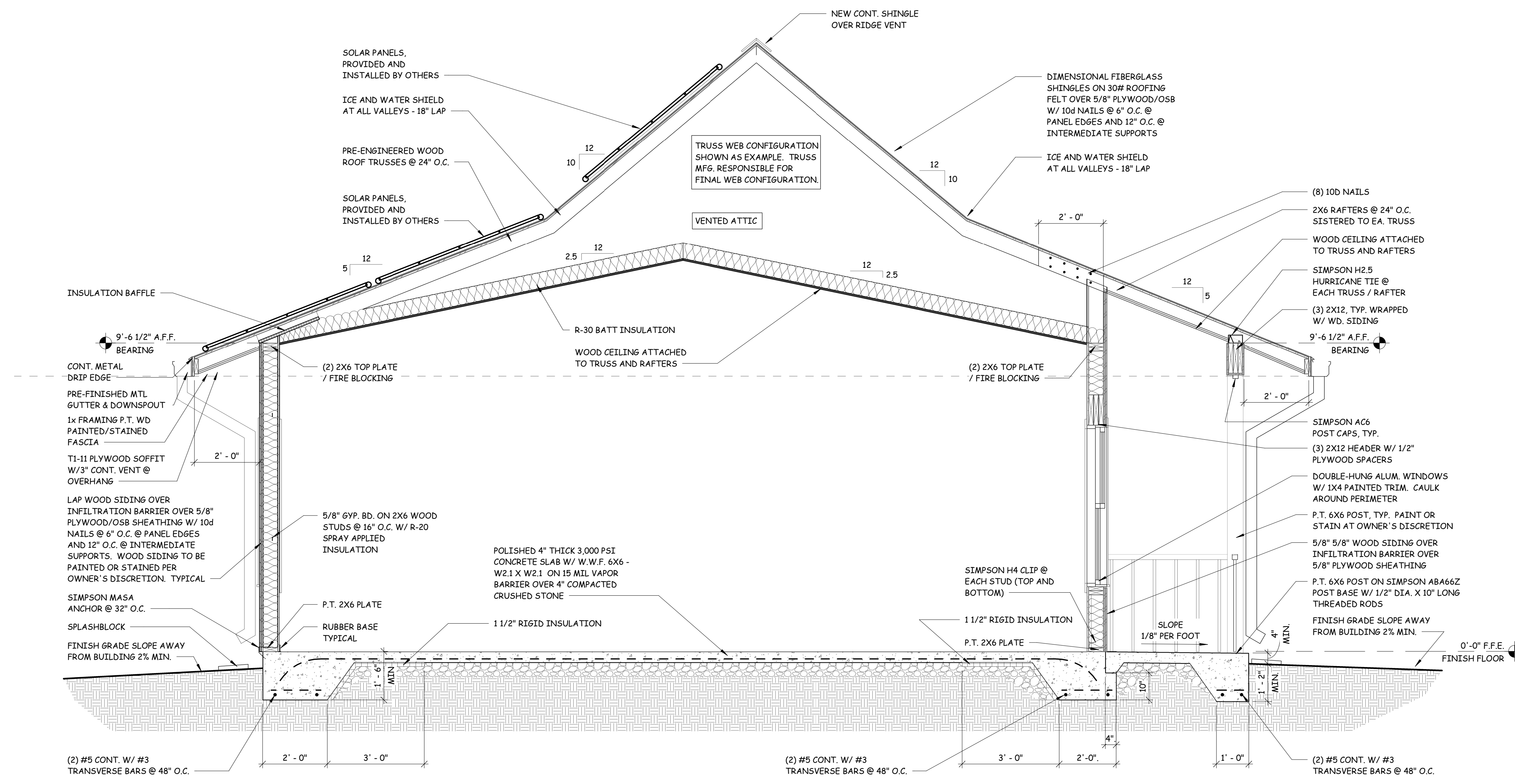
Date: 07/28/2017

Designed By: C.M.B.
Drawn By: C.M.B.
Reviewed By: C.M.G.

Comm. No. 170042.01

Revisions:
REV #1 010/18/2017

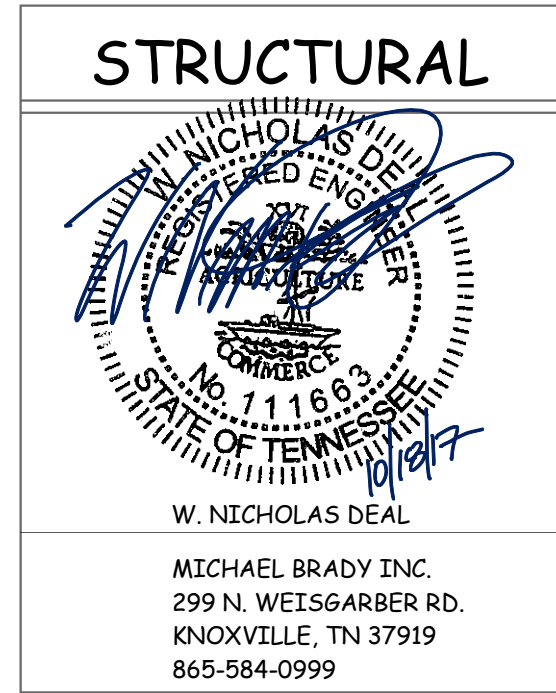
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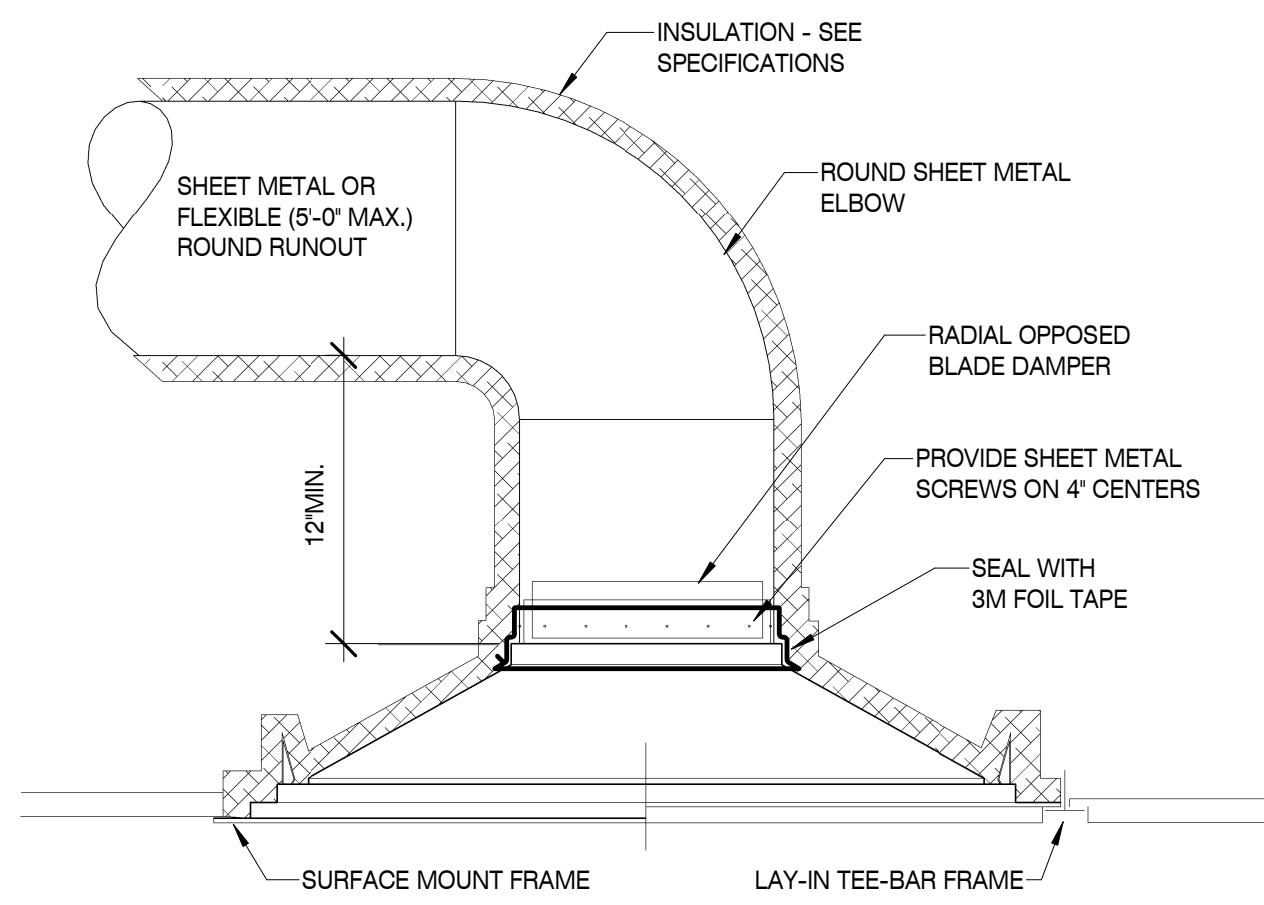


BUILDING SECTION

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

1



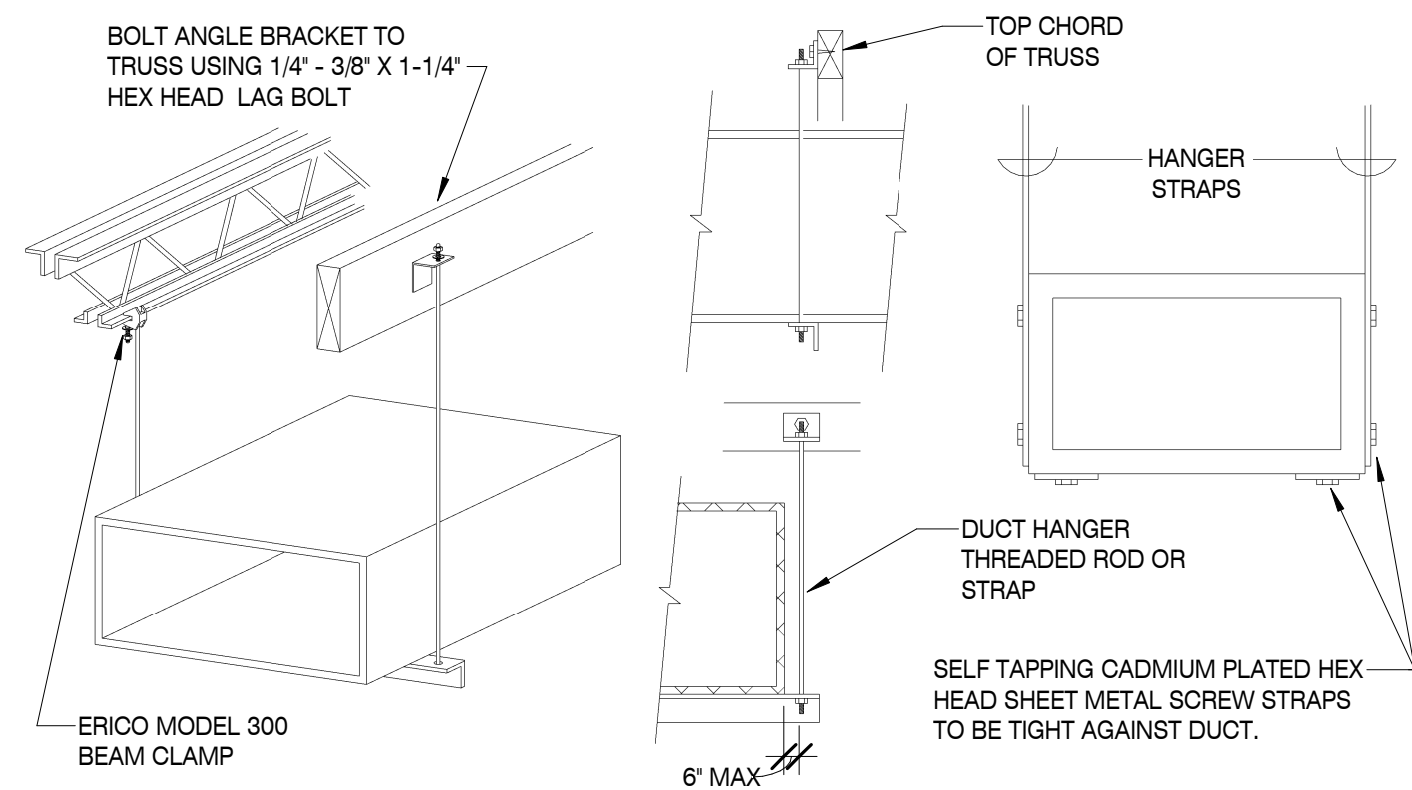


TYPICAL CEILING DIFFUSER DETAIL

SCALE: N.T.S.

HANGER SIZES FOR ROUND DUCT			
MAX SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1" 18-GAGE STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1-1/2"x1/2"x1/8"	8'-0"
48"	1/4" ROUND ROD	1-1/2"x1/2"x1/8"	8'-0"
60"	5/16" ROUND ROD	2"x2"x1/8"	8'-0"

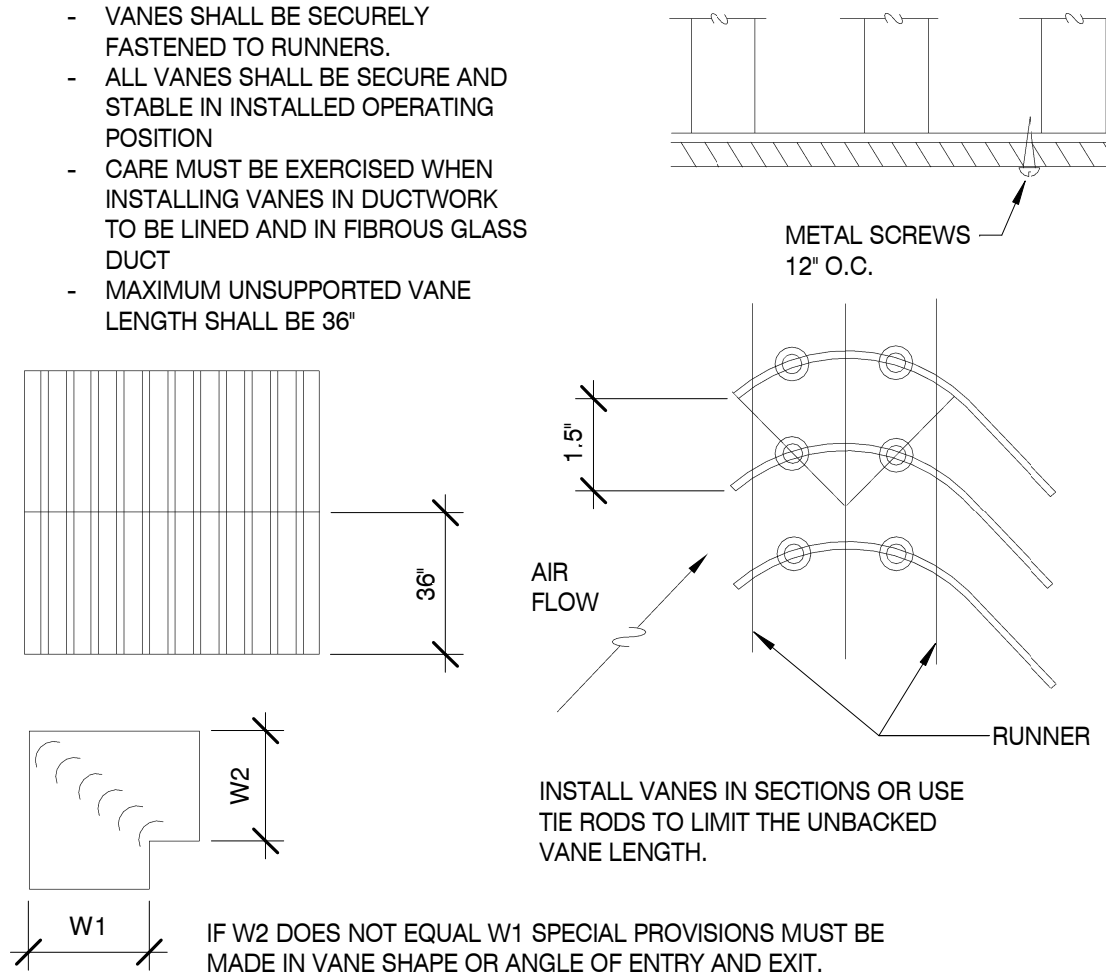
NOTE:
ALL SUPPLY AIR DUCTS SHALL BE WRAPPED EXTERNALLY AS PER SPECIFICATIONS.
NO POP RIVETS ALLOWED



RECTANGULAR DUCT HANGER DETAIL

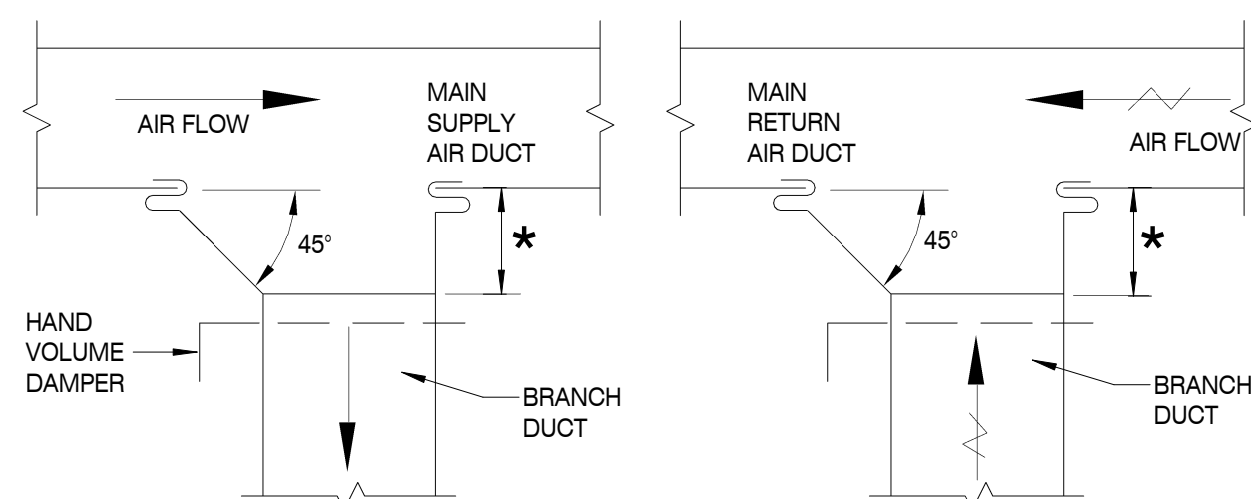
SCALE: N.T.S.

- NOTES:
- VANES SHALL BE SECURELY FASTENED TO RUNNERS.
 - ALL VANES SHALL BE SECURE AND STABLE IN INSTALLED OPERATING POSITION.
 - CARE MUST BE EXERCISED WHEN INSTALLING VANES IN DUCTWORK TO BE LINED AND IN FIBROUS GLASS DUCT.
 - MAXIMUM UNSUPPORTED VANE LENGTH SHALL BE 36"



TURNING VANES DETAIL

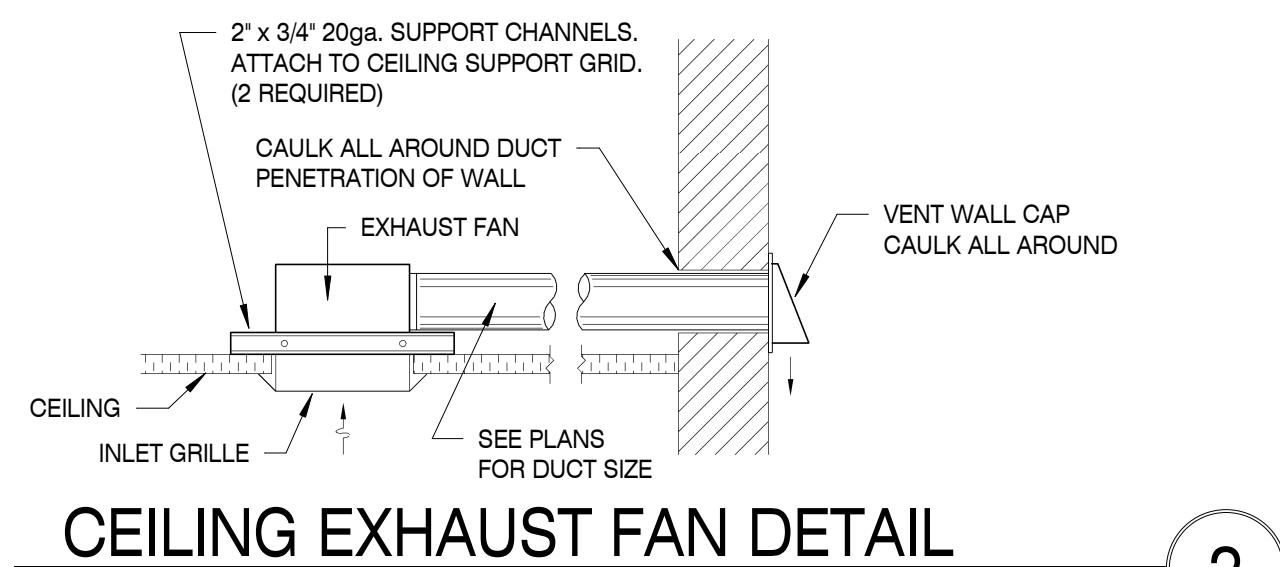
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BRANCH DUCT DETAIL

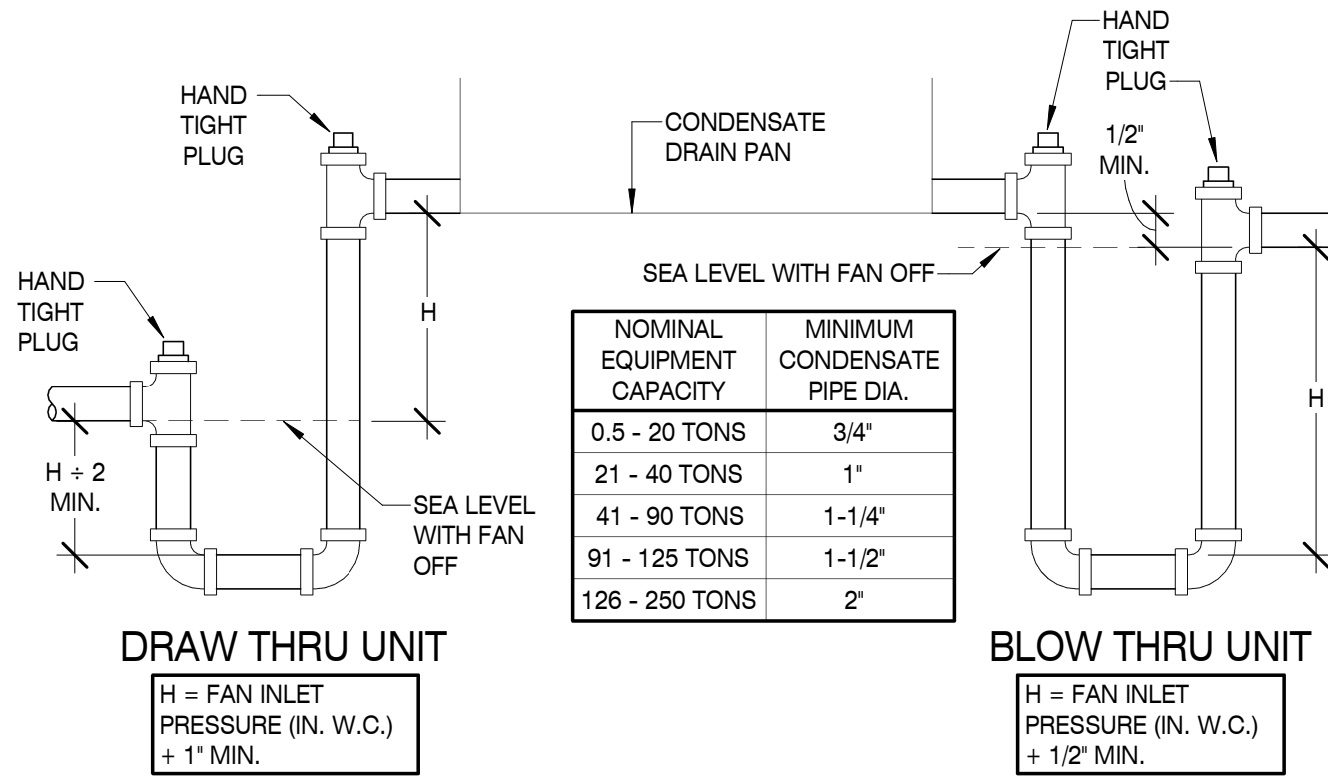
SCALE: N.T.S.

* EQUALS WIDTH OF BRANCH DUCT UP TO 12" 12" FOR ALL BRANCH DUCTS LARGER THAN 12".



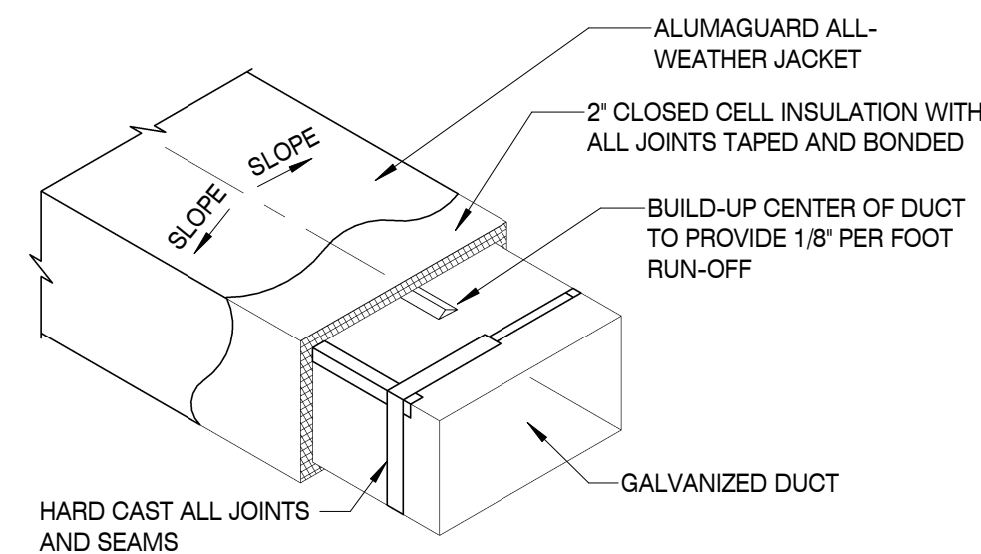
CEILING EXHAUST FAN DETAIL

SCALE: N.T.S.



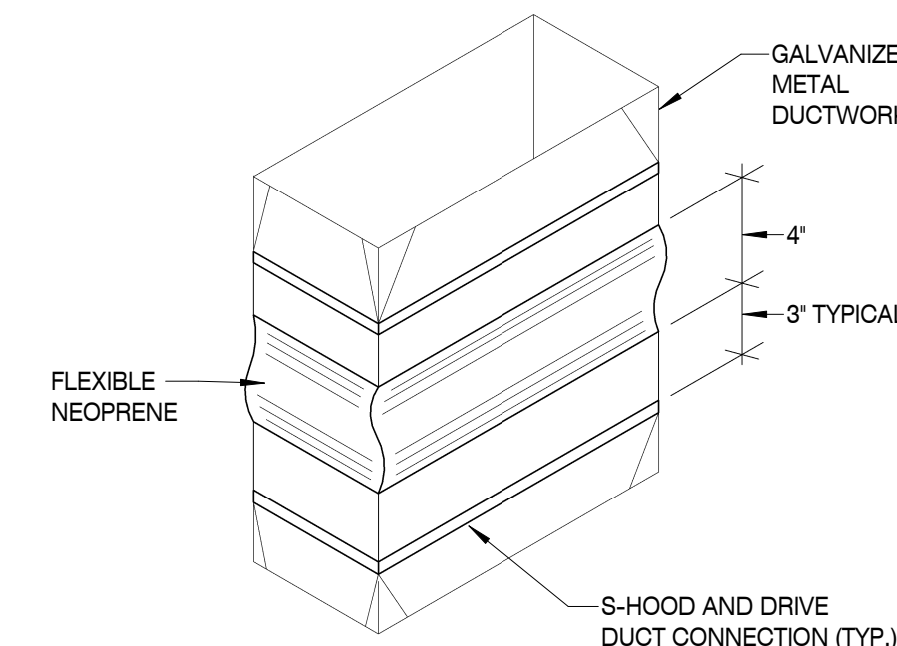
CONDENSATE TRAP DETAIL

SCALE: 1/8" = 1'-0"



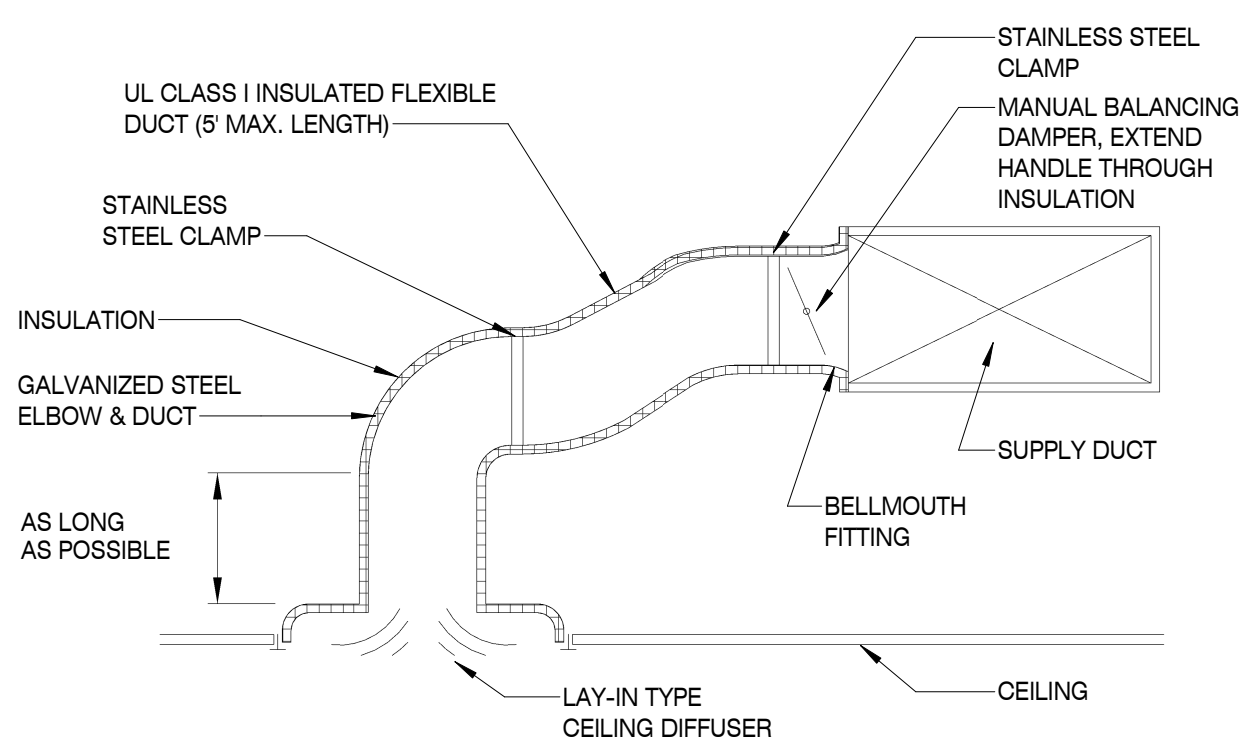
DUCT EXPOSED TO WEATHER DETAIL

SCALE: N.T.S.



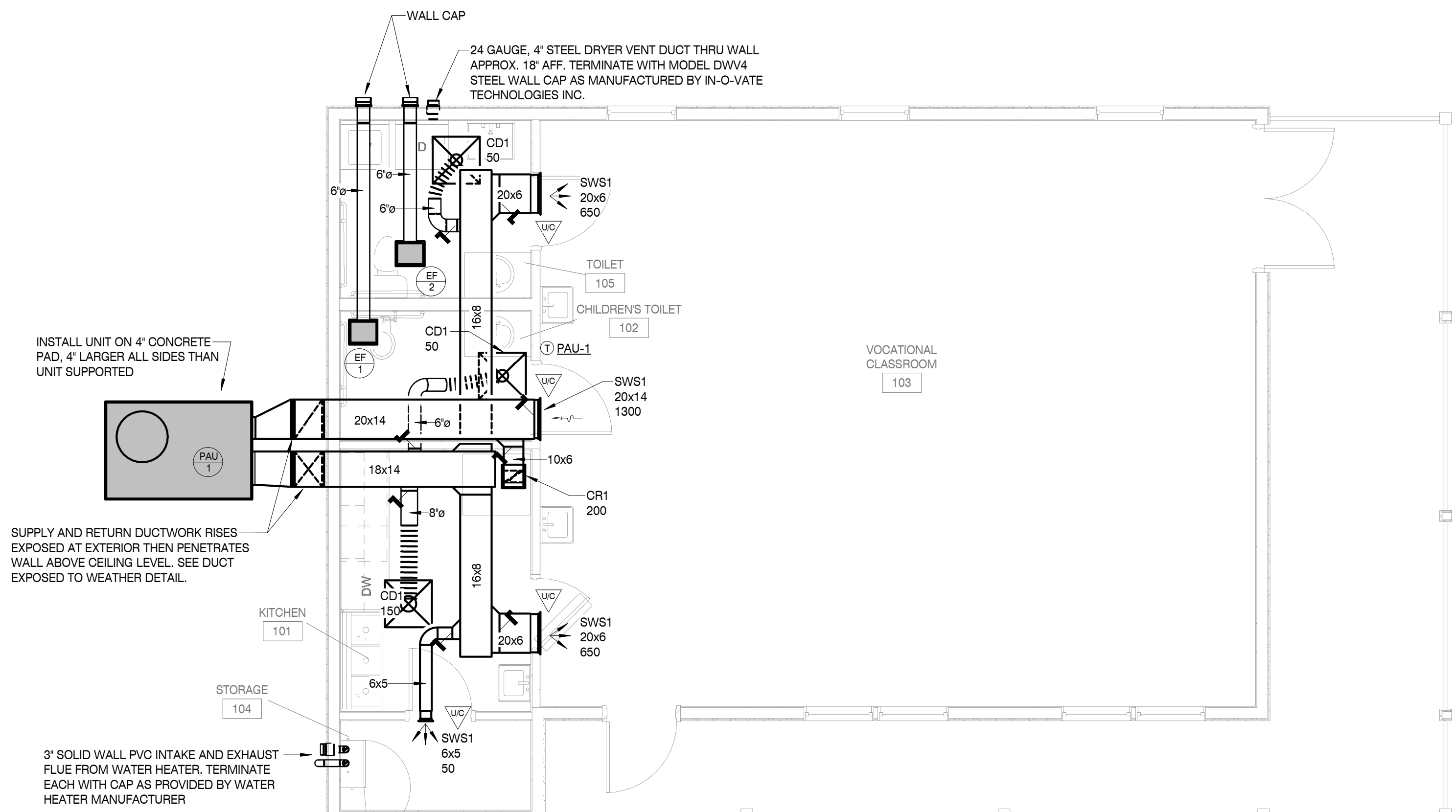
FLEXIBLE CONNECTOR DETAIL

SCALE: N.T.S.



SUPPLY BRANCH TAKE-OFF DETAIL

SCALE: N.T.S.



FIRST FLOOR PLAN - HVAC

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

PACKAGED HEAT PUMP SCHEDULE

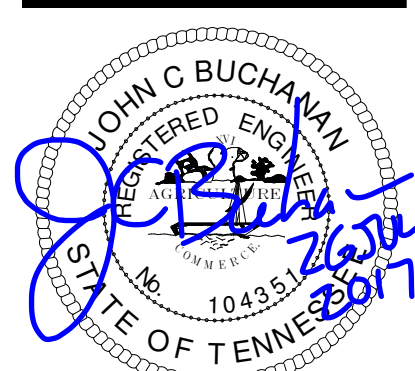
DRAWING SYMBOL	TOTAL CFM	CFM OA	S.P. EXT. TO UNIT	TEMPS (°F) @ 95°F AMBIENT		COOLING (MBH)		HEATING (MBH) @ 17°		EER	HSPF	AUX. HEAT (KW)	ELECTRICAL			FAN HP		SMOKE DETECTOR		WEIGHT (LBS.)	MANUFACTURER & MODEL NUMBER
				UNIT ENT AIR (DB / WB)	COIL LVG AIR (DB / WB)	TOTAL	SENS	MCA	MOCP				VOLTAGE	SUP	RET	SUP	RET				
PAU-1	1600	370	0.5	80 / 67	60 / 58	46.0	34.5	24.8	11.3	7.7	13.7	65	70	208/3Ø	1.0	N/A	NO	NO	600	DAIKIN DCH048	

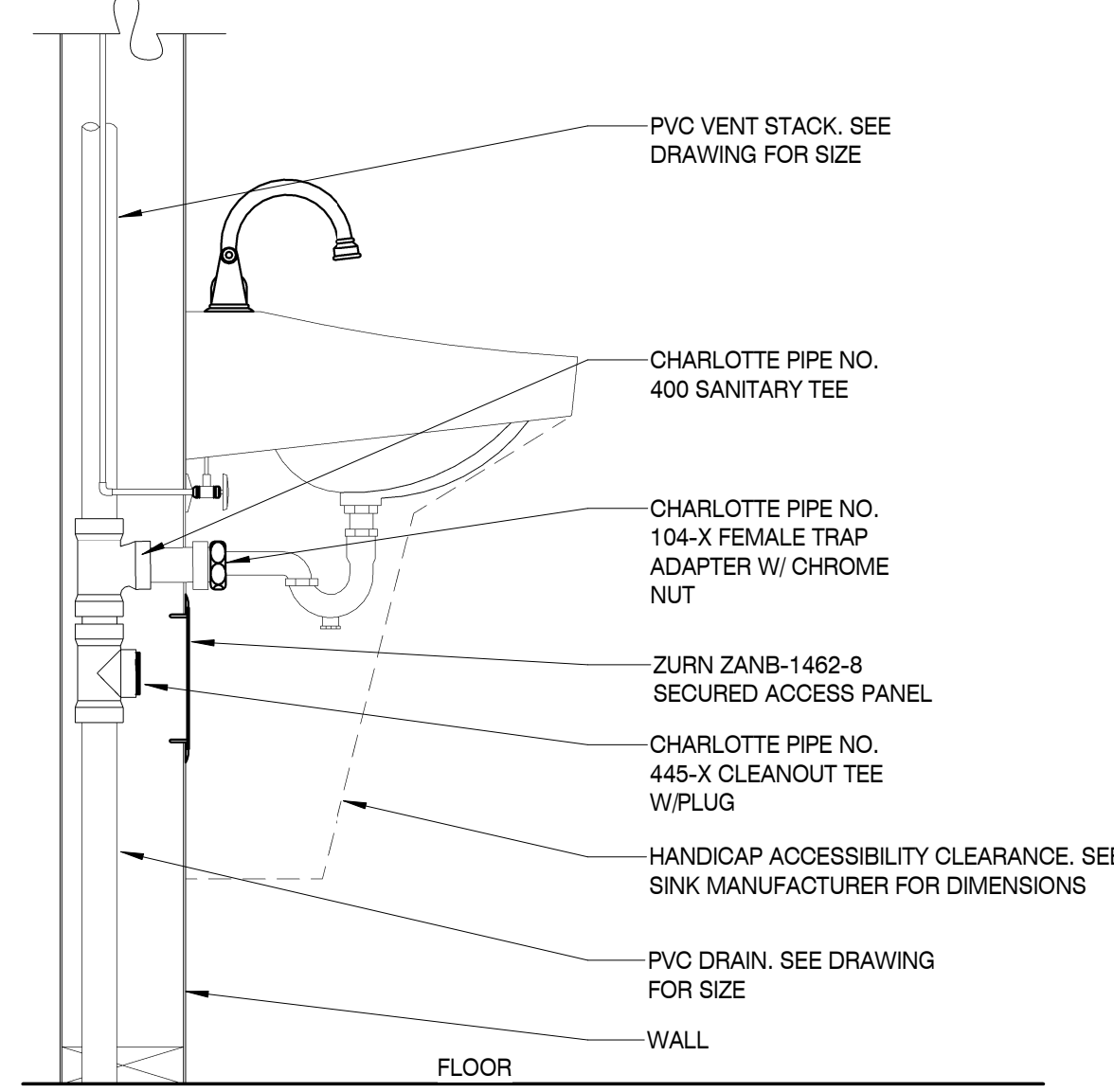
- ACCESS AND FEATURES: (BY EQUIPMENT SUPPLIER)
- 5 YEAR COMPRESSOR WARRANTY & STANDARD THROW-AWAY FILTERS FURNISHED W/ UNIT.
 - FEATURES SHALL INCLUDE HIGH AND LOW PRESSURE CUTOUTS, ANTI-CYCLE TIMER, SUCTION LINE ACCUMULATOR, DEMAND INITIATION AND POSITIVE TERMINATION DEFROST CONTROL.
 - EQUIPMENT SHALL BE DAIKIN OR EQUAL, APPROVED SUBSTITUTE.
 - EQUIPMENT TO BE ARI CERTIFIED AND ETL LISTED
 - AUTOMATIC CHANGEOVER THERMOSTAT WITH EMERGENCY HEAT SUBBASE AND LOCKING PLASTIC THERMOSTAT COVER.
 - PROVIDE 0-100% COMPARATIVE ENTHALPHY CONTROLLED ECONOMIZER WITH POWERED EXHAUST.

EXHAUST FAN SCHEDULE

DRAWING SYMBOL	USE	AMCA CFM	S.P. IN WATER	RPM	TIP SPEED	HP	TYPE	VOLTAGE	SONES	WEIGHT LBS.	MANUFACTURER & MODEL NO.
EF-1	RESTROOM EXHAUST	70	0.25	788	1574	1/10	CEILING	120/1Ø	1.1	15	LOREN COOK GC-146
EF-2	RESTROOM EXHAUST	70	0.25	788	1574	1/10	CEILING	120/1Ø	1.1	15	LOREN COOK GC-146

- ACCESSORIES AND FEATURES:
- CEILING FANS: ALUMINUM INLET GRILLE; LINED HOUSING; CENTRIFUGAL FAN; BACKDRAFT DAMPER; UNIT MOUNTED SOLID STATE SPEED CONTROLLER FOR BALANCING AND WALL SWITCH FOR ON/OFF CONTROL.

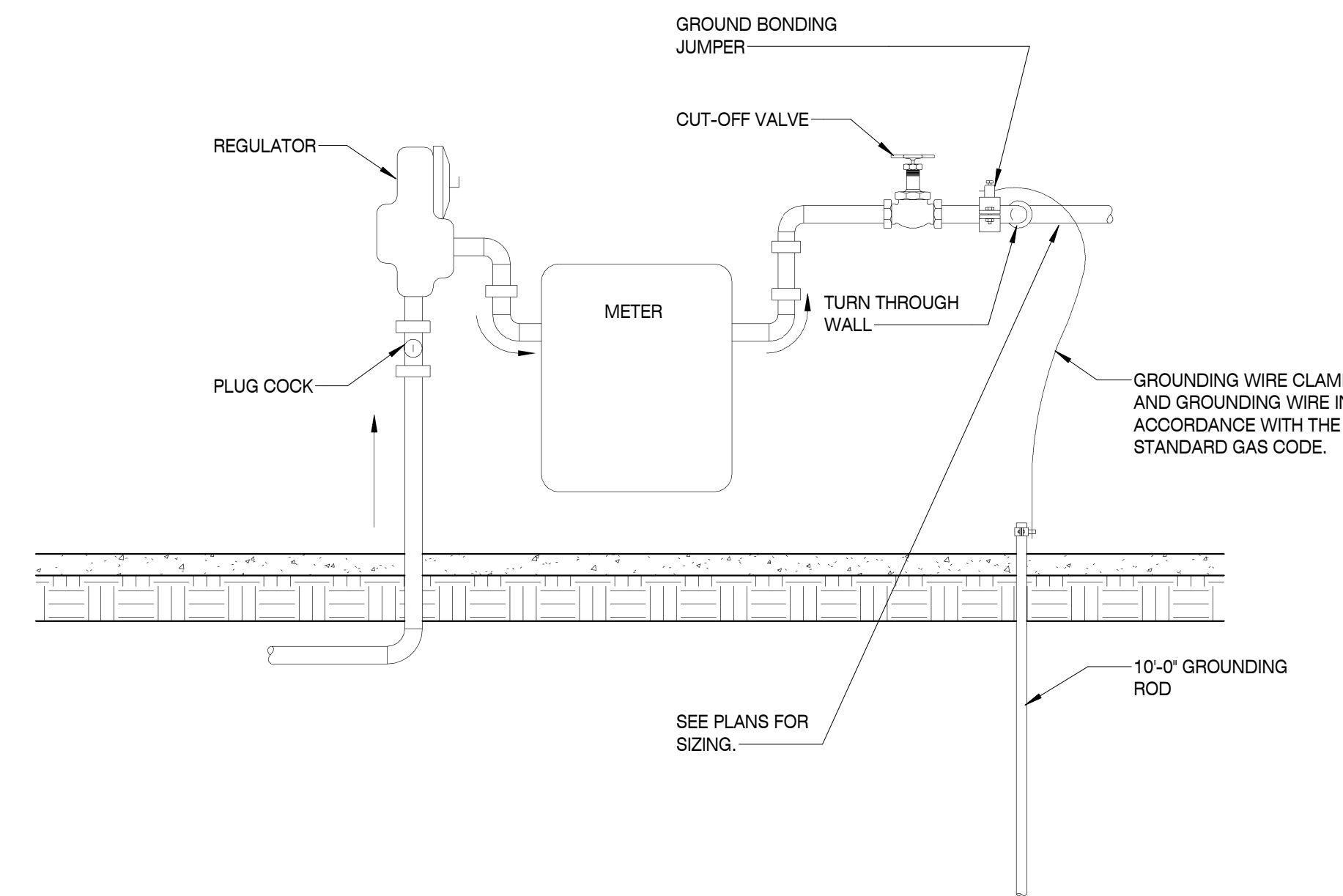




STACK CLEANOUT DETAIL

SCALE: 1/8" = 1'-0"

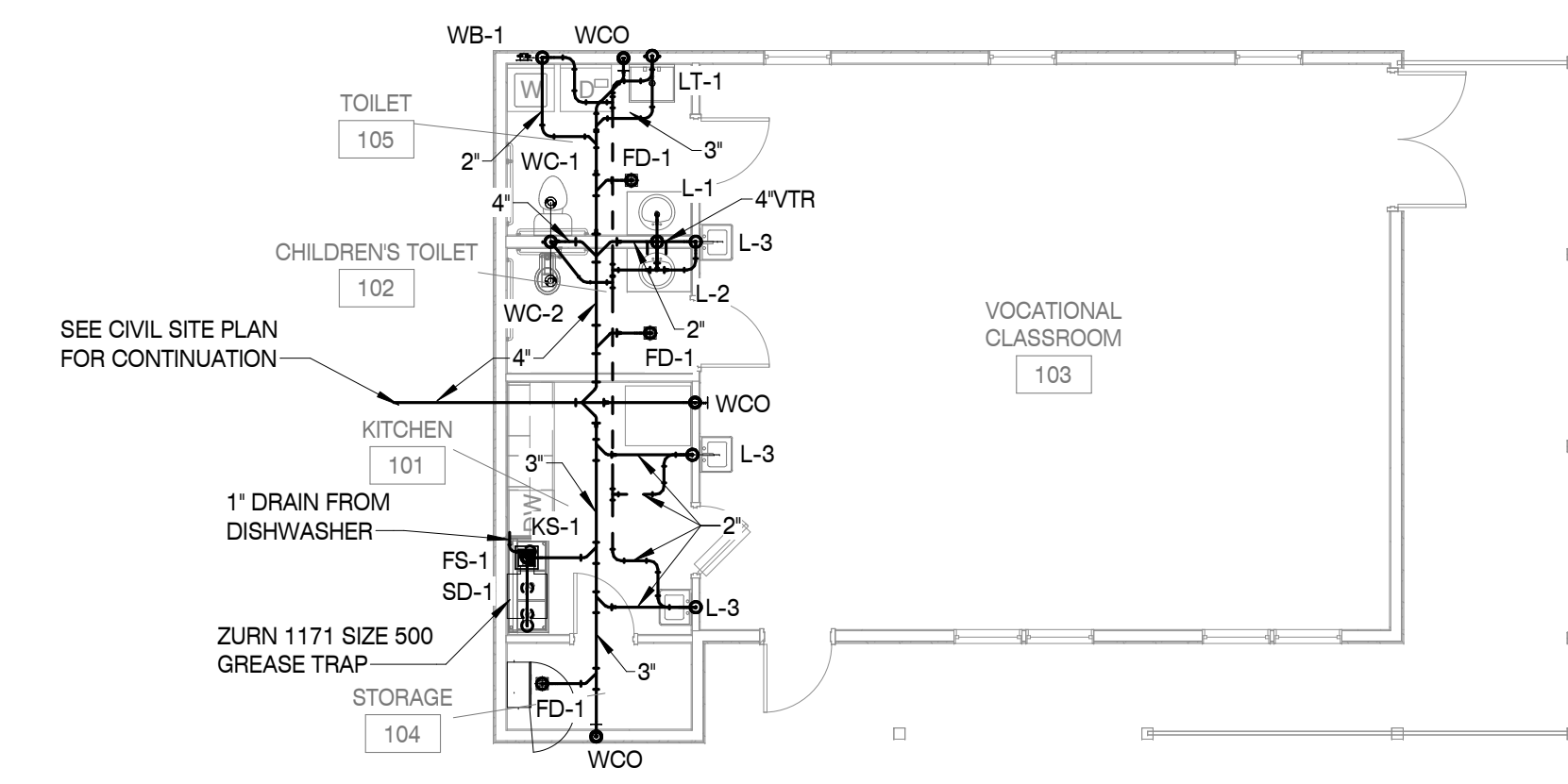
3



GAS METER DETAIL

SCALE: N.T.S.

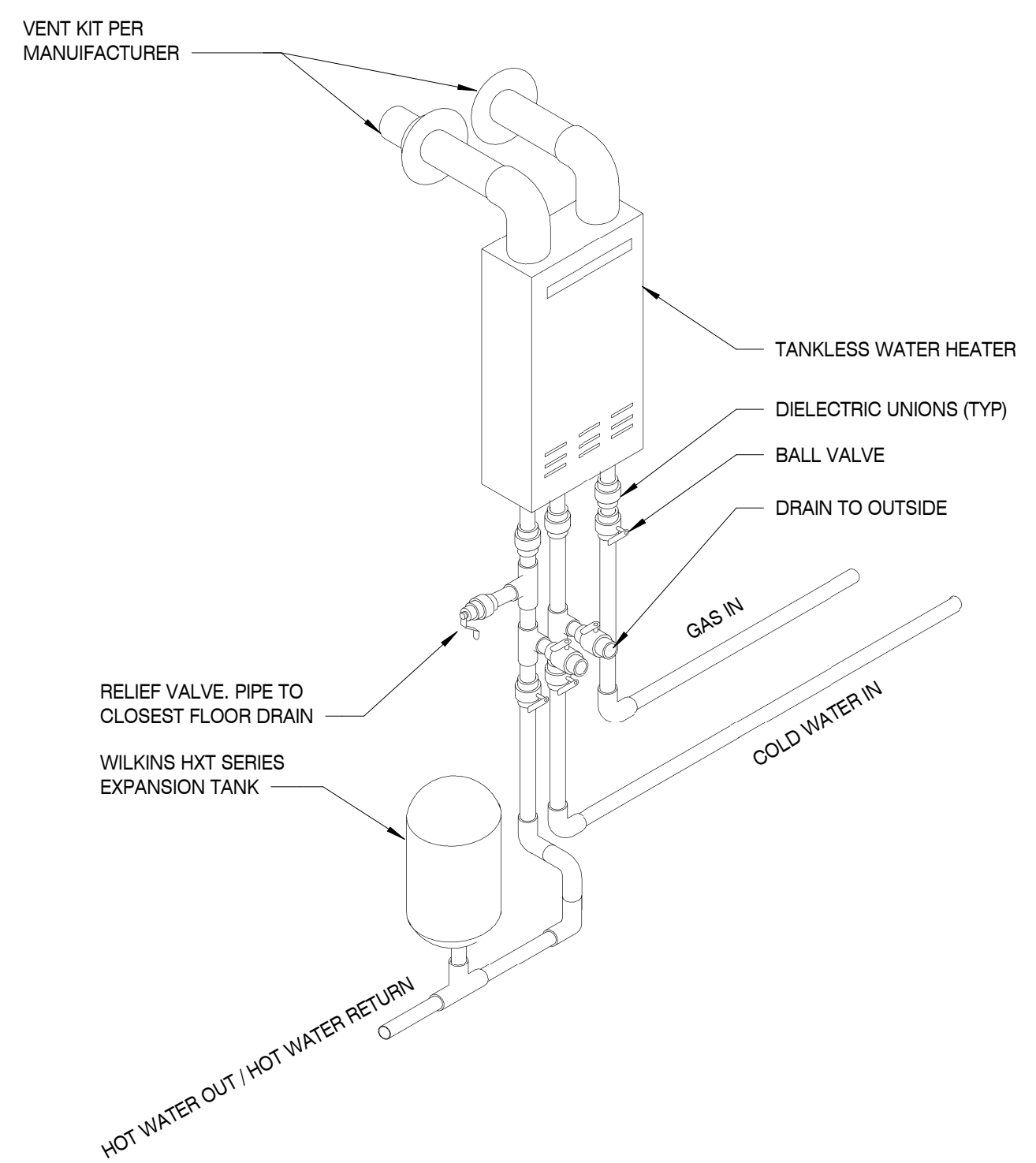
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FIRST FLOOR PLAN - SANITARY

SCALE: 1/8" = 1'-0"

1

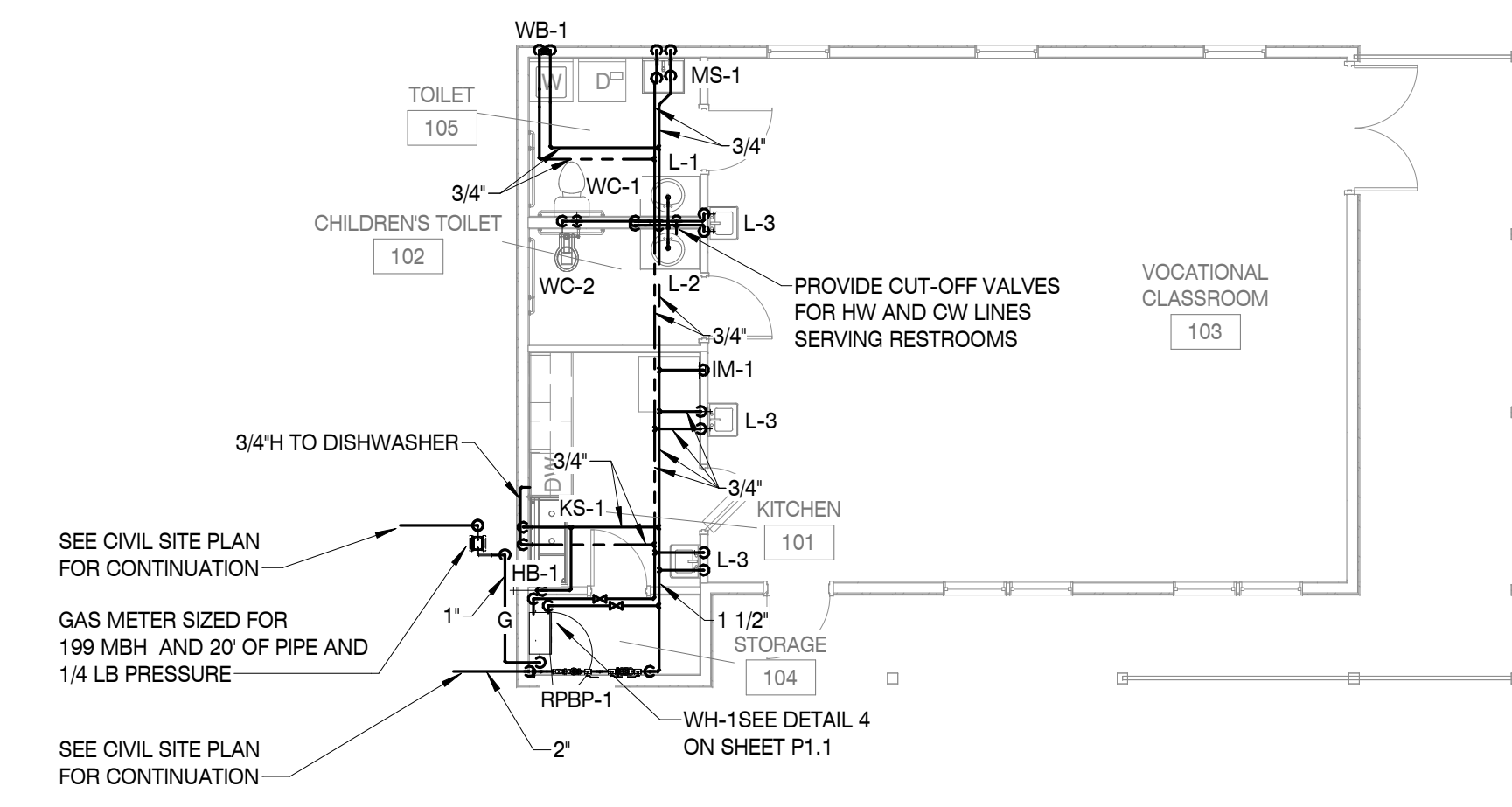


CONTRACTOR SHALL VERIFY THE PIPING ARRANGEMENT FOR THE WATER HEATERS WITH THE RESPECTIVE PLAN. THIS DETAIL SHOWS THE MIN. REQUIRED EQUIPMENT FOR THE INSTALLATION. INSTALLATION WILL VARY WITH EACH INSTALLATION. SEE LOCAL CODE CLEARANCES AND REQUIREMENTS.

TANKLESS WATER HEATER DETAIL

SCALE: N.T.S.

4



FIRST FLOOR PLAN - WATER & GAS

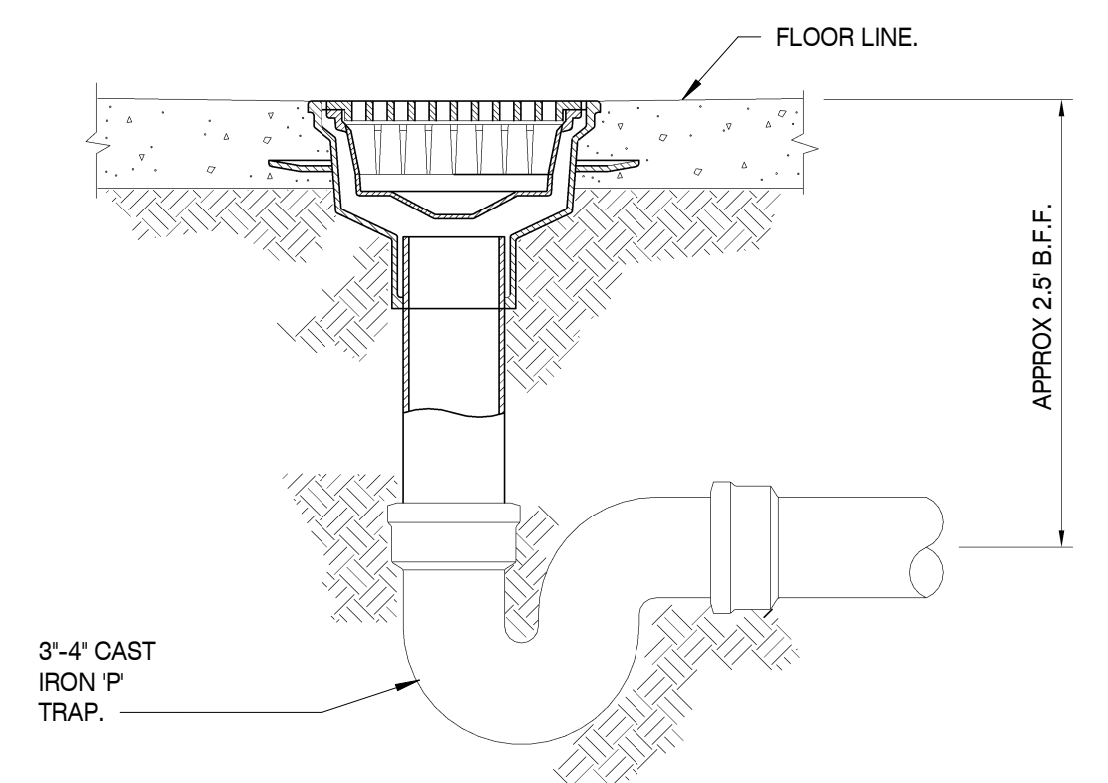
SCALE: 1/8" = 1'-0"

2

WATER HEATER SCHEDULE (GAS)							
DRAWING SYMBOL	STORAGE CAPACITY	GAS INPUT (EACH)	WATER TEMP. (°F)	VENT SIZE	RECOVERY GPH @ 100' RISE	MANUFACTURER & MODEL #	DIMENSIONS
WH-1	N/A	199,000	140	4	--	AO SMITH ATI-540	17Wx11H

ACCESSORIES AND FEATURES:

- ALTERNATE MANUFACTURERS: PVI, AO SMITH, LOCHINVAR, STATE IND.
- PROVIDE AUTOMATIC SPARK IGNITION, AUTO RESET
- UNIT SHALL BE ASME LISTED
- UNIT SHALL BE CSA LISTED
- 5-YEAR HEAT EXCHANGER WARRANTY, 5-YEAR PARTS
- PROVIDE ASSE 10161017 DEVICE SET AT MAX 110° F
- NON-SIMULTANEOUS OPERATION
- PROVIDE MANUFACTURERS VENT KIT



NOTE:
SLOPE FLOOR 1/8" PER FOOT MINIMUM WHERE INDICATED ON CONCRETE PLACEMENT PLAN (SEE CONCRETE WORK SECTION OF SPECS.)

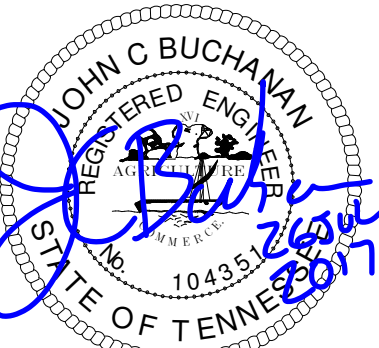
FLOOR SINK

SCALE: N.T.S.

5

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ANDERSON CO. HIGH SCHOOL NET ZERO ENERGY PROJECT
130 MAVERICK CIRCLE
CLINTON TENNESSEE

A NEW DEVELOPMENT FOR:

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 SCHEMATIC DESIGN
 DESIGN DEVELOPMENT
 CONSTRUCTION DOCUMENTS

Drawing Title:
FLOOR PLAN, DETAILS, SCHEDULES - PLUMBING

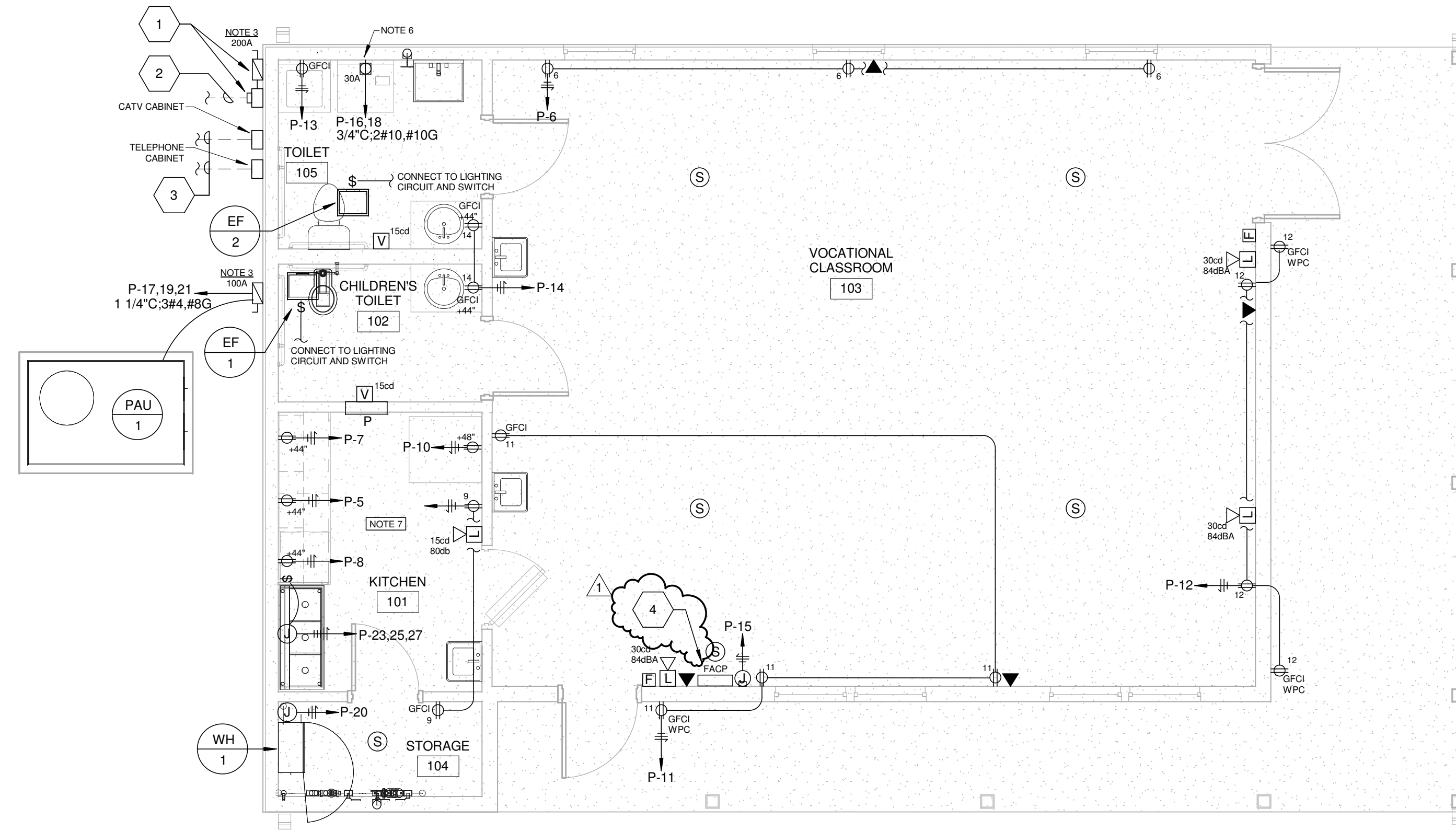
Date: 07/26/2017

Designed By: RTB
 Drawn By: RTB
 Reviewed By: JCB

Comm. No. 170042.01

Revisions:

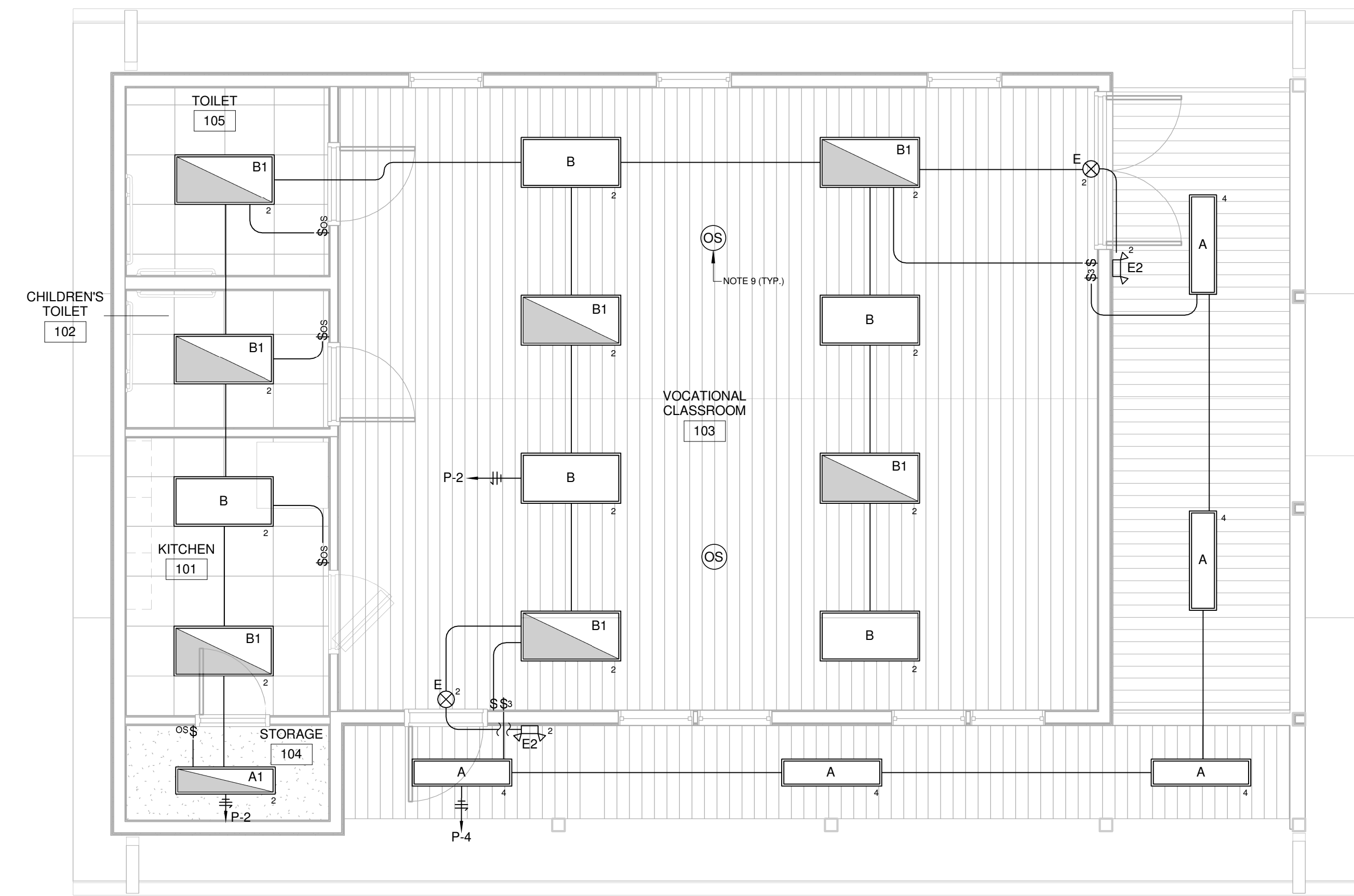
Sheet No. of **P1.1**



FLOOR PLAN - POWER, COMMUNICATIONS, AND FIRE ALARM

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

1



FLOOR PLAN - LIGHTING

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

2

GENERAL SHEET NOTES

- SEE SHEET E0.1 FOR ELECTRICAL LEGEND AND GENERAL NOTES.
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC EQUIPMENT AND CONTROLS.
- FUSE PER MANUFACTURER'S NAMEPLATE DATA.
- ALL 15A AND 20A, 120V BRANCH CIRCUITS (OTHER THAN GFCI TYPE) SHALL BE PROTECTED BY A LISTED AFCI DEVICE COMBINATION TYPE PER NEC 210.12.
- ALL 15A AND 20A, 120V RECEPTACLES SHALL BE LISTED AS TAMPER RESISTANT PER NEC 406.11.
- PROVIDE NEMA 14-30R PER LOCAL INSPECTOR REQUIREMENTS. COORDINATE DRYER MANUFACTURER CORD PENDANT WITH REQUIRED OUTLET CONFIGURATION.
- ALL RECEPTACLES LOCATED IN THE KITCHEN AREA TO BE GFCI TYPE.
- REFER TO ARCHITECTURAL SELECTED CEILING PLAN FOR EXACT LOCATIONS OF FIXTURES (TYPICAL).
- REFER TO DETAIL 3 THIS SHEET FOR MORE INFORMATION.

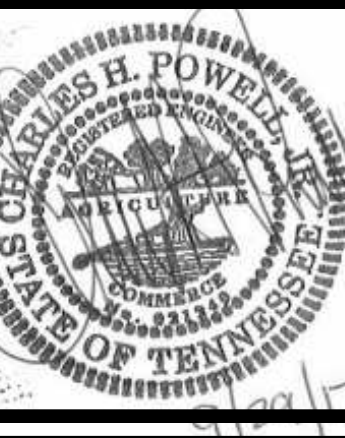
KEYED SHEET NOTES

- DISCONNECT, METER, AND METER BASE. SEE POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- SEE RISER DIAGRAM FOR PRIMARY CONDUIT AND CONDUCTORS.
- (2) 2" EMPTY CONDUITS WITH PULL STRING FROM CABINET TO EXISTING HIGH SCHOOL TELEPHONE AND CATV SERVICE POINT.
- REFER TO FIRE ALARM SYSTEM NOTE 6C ON SHEET E0.1 FOR MORE INFORMATION.

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A NEW DEVELOPMENT FOR
**ANDERSON CO. HIGH SCHOOL
NET ZERO ENERGY BUILDING**
130 MAVERICK CIRCLE,
CLINTON, TN 37716

A NEW DEVELOPMENT FOR

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Drawing Title:
FLOOR PLAN - ELECTRICAL

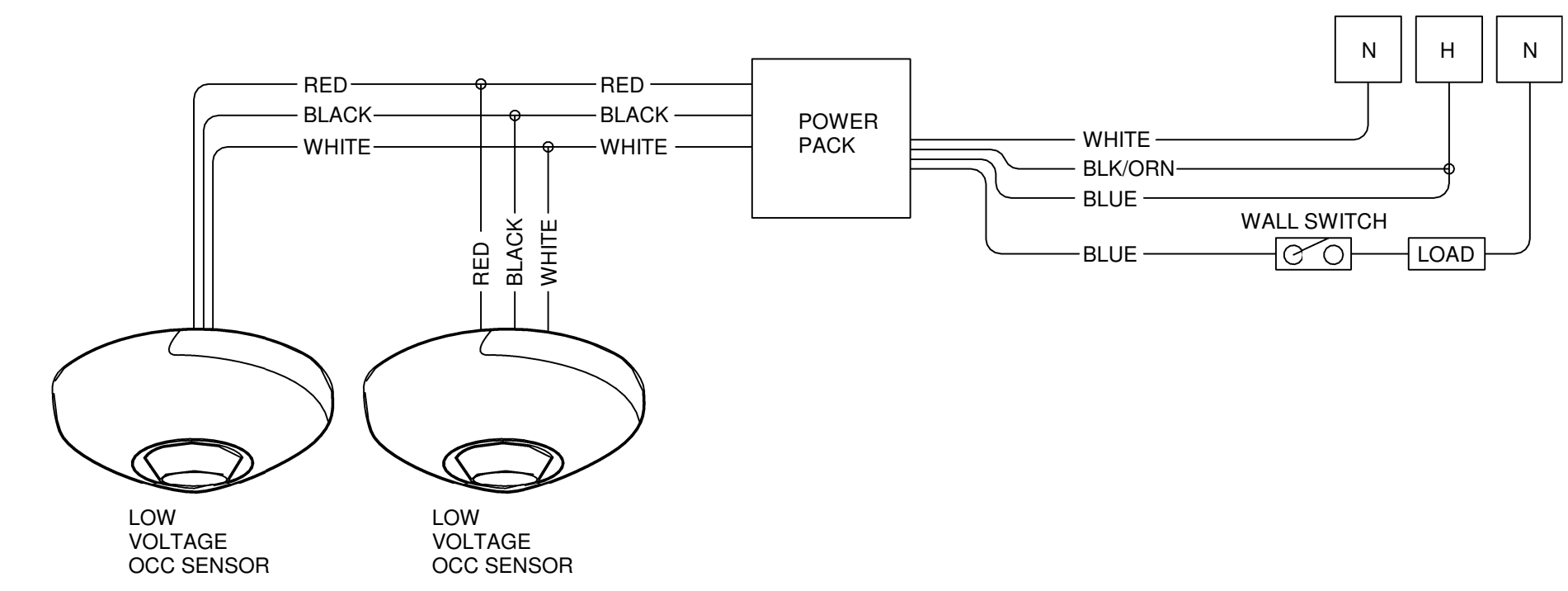
Date: 07/28/2017

Designed By: CHP
Drawn By: JWD
Reviewed By: CHP

Comm. No. 170042.01

Revisions:
Rev. 1 09/29/2017

Sheet: Sheet No.
of **E1.1**

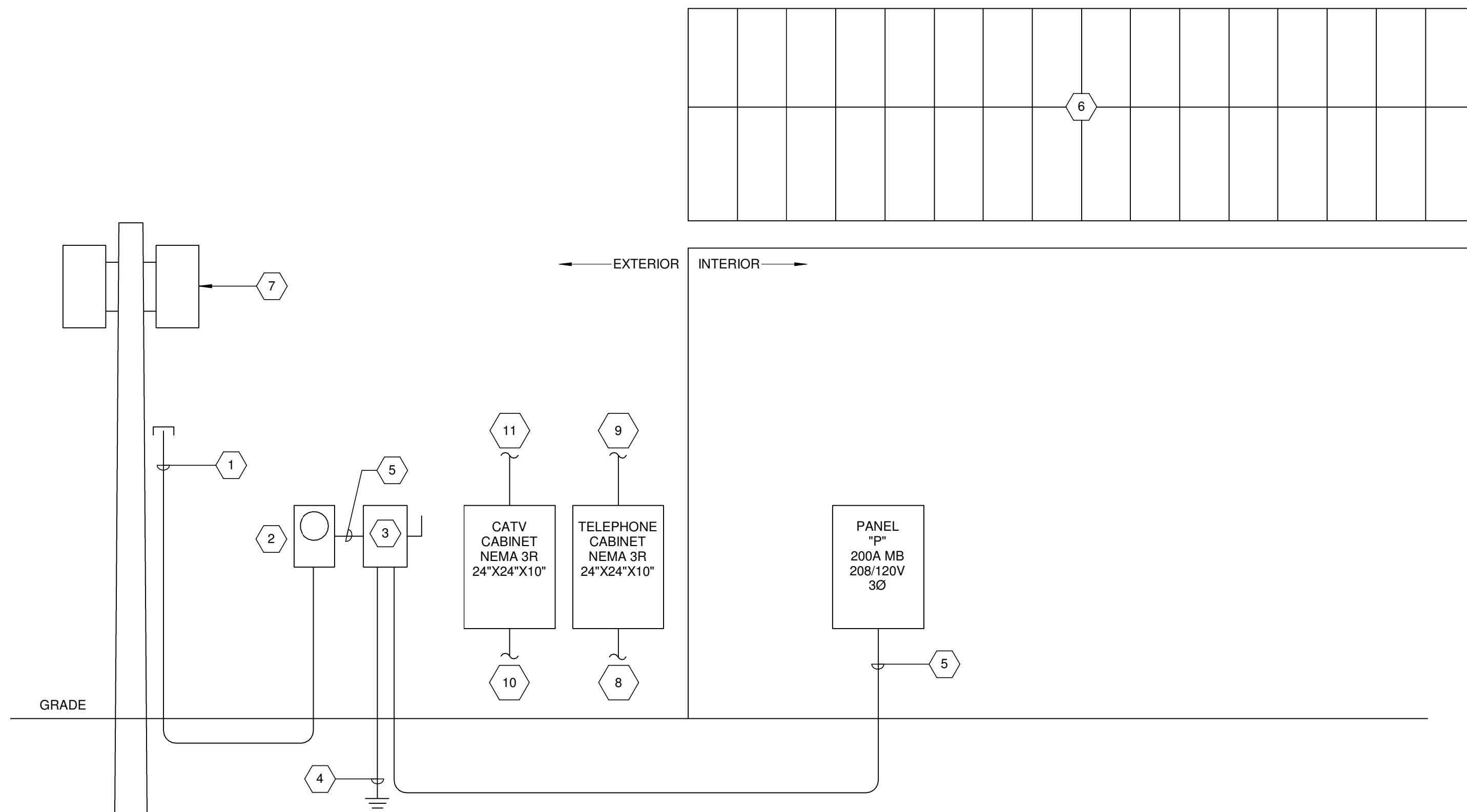


OCCUPANCY SENSOR DETAIL

SCALE: N.T.S.

3

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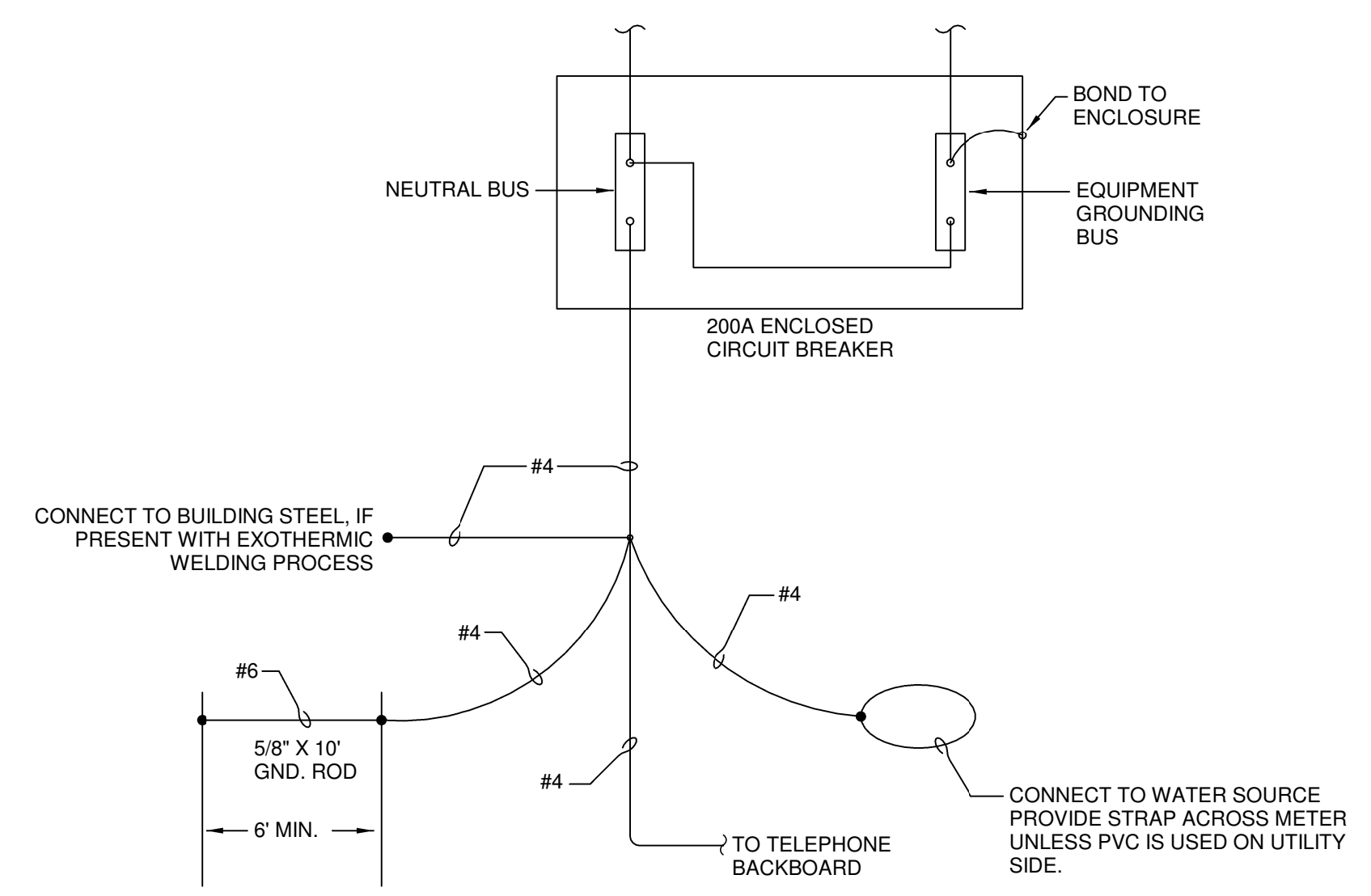


- 1 PULL NEW 4 #3/0 CONDUCTORS IN NEW 2 1/2" CONDUIT FROM EXISTING POWER POLE TRANSFORMER.
- 2 METER AND METER BASE. COORDINATE METERING REQUIREMENTS WITH LOCAL UTILITY COMPANY.
- 3 200A, 22,000 AIC CIRCUIT BREAKER IN NEMA 3R ENCLOSURE SERVICE ENTRANCE DISCONNECT.
- 4 SERVICE ENTRANCE GROUNDING. SEE DETAIL 2/E4.1 FOR ADDITIONAL INFORMATION.
- 5 2 1/2" CONDUIT WITH 4#3/0 AND #6 GROUND.
- 6 40 SOLAREX "MILLENNIA" 50W PHOTO-VOLTAGE CELLS. CONTACT (301)-698-4200 TO COORDINATE INSTALLATION.
- 7 EXISTING LOCAL UTILITY COMPANY TRANSFORMER.
- 8 EXTEND 1-2" CONDUIT TO SERVICE POINT AS DIRECTED BY LOCAL TELEPHONE COMPANY. 1-2" SPARE CONDUIT.
- 9 PROVIDE 1 - 3/4" CONDUIT TO NEW BUILDING FROM TELEPHONE CABINET. TERMINATE CONDUIT AT TELEPHONE BOX WITHIN NEW BUILDING. SEE SHEET E1.1 FOR TELEPHONE BOX LOCATION. COORDINATE WITH OWNER FOR EXACT LOCATION OF TELEPHONE BOX WITHIN NEW BUILDING.
- 10 EXTEND 1-2" CONDUIT TO SERVICE POINT AS DIRECTED BY LOCAL CATV COMPANY. 1-2" SPARE CONDUIT.
- 11 PROVIDE 1 - 3/4" CONDUIT TO NEW BUILDING FROM CATV CABINET. TERMINATE CONDUIT AT CATV BOX WITHIN NEW BUILDING. SEE SHEET E1.1 FOR CATV BOX LOCATION. COORDINATE WITH OWNER FOR EXACT LOCATION OF CATV BOX WITHIN NEW BUILDING.

POWER RISER DIAGRAM

SCALE: N.T.S.

1



- GROUNDING NOTES:**
- GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH ARTICLE 250 OF THE LATEST EDITION OF THE NEC.
 - ENCLOSE GROUNDING WIRE IN CONDUIT WHERE EXPOSED TO PHYSICAL DAMAGE.
 - SPLICES IN THE GROUNDING ELECTRODE ARE PERMITTED ONLY BY MEANS OF IRREVERSIBLE COMPRESSION - TYPE CONNECTORS LISTED FOR THE PURPOSE, OR THE EXOTHERMIC WELDING PROCESS. CONNECTION TO GROUND RODS, BLDG STEEL OR FOOTING STEEL (REBAR) SHALL BE BY EXOTHERMIC WELDING PROCESS.
 - GROUND BUS RESISTANCE TO EARTH TO BE 10 OHM OR LESS. ADD GROUND RODS AS REQUIRED.
 - BOND TO SPRINKLER SYSTEM PIPING, IF PRESENT.

GROUNDING - SERVICE ENTRANCE

SCALE: N.T.S.

2

TYPE	LAMP TYPE	LAMP NO.	WATTS	VOLTAGE	MOUNTING	HEIGHT	MANUFACTURER	MODEL	COMMENTS
A	FLUORESCENT	2	32	120	SURFACE	VARIABLES	LITHONIA	CB-2-32-120-CW	SURFACE WRAPAROUND WITH COLD WEATHER BALLAST
A1	FLUORESCENT	2	32	120	SURFACE	VARIABLES	LITHONIA	CB-2-32-120-CW-EL	SAME AS FIXTURE TYPE 'A' WITH EMERGENCY BATTERY BACK-UP
B	FLUORESCENT	3	32	120	SURFACE	VARIABLES	LITHONIA	2M-3-32-A12-120-GEB	SURFACE 2X4
B1	FLUORESCENT	3	32	120	SURFACE	VARIABLES	LITHONIA	2M-3-32-A12-120-GEB-EL14	SAME AS FIXTURE TYPE 'B' WITH EMERGENCY BATTERY BACK-UP
E	LED	1	6	120	WALL MOUNT	7'-0"	LITHONIA	LQM-S-W-1-G-120/277-ELN	EXIT SIGN W/BATTERY BACK-UP
E2	LED	1	6	120	WALL MOUNT	7'-0"	LITHONIA	AFN-BN-PREM-EXT	EXTERIOR EMERGENCY EGRESS FIXTURE

- NOTES:**
- FURNISH AND INSTALL LAMPS FOR ALL FIXTURES.
 - VERIFY ALL CEILING TYPES BEFORE STARTING ANY WORK. SEE ARCHITECT'S REFLECTED CEILING PLAN FOR CEILING TYPES.
 - PROVIDE ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR A COMPLETE INSTALLATION OF ALL LIGHTING FIXTURES.
 - PROVIDE ALL NECESSARY EQUIPMENT FOR LOW VOLTAGE LIGHTING AND CONTROLS, SUCH ITEMS WOULD INCLUDE TRANSFORMERS, POWER PACKS, AND CABLING.

Branch Panel: P

Location: KITCHEN 101
 Supply From: Service Entrance
 Mounting: Surface
 Enclosure: Type 1

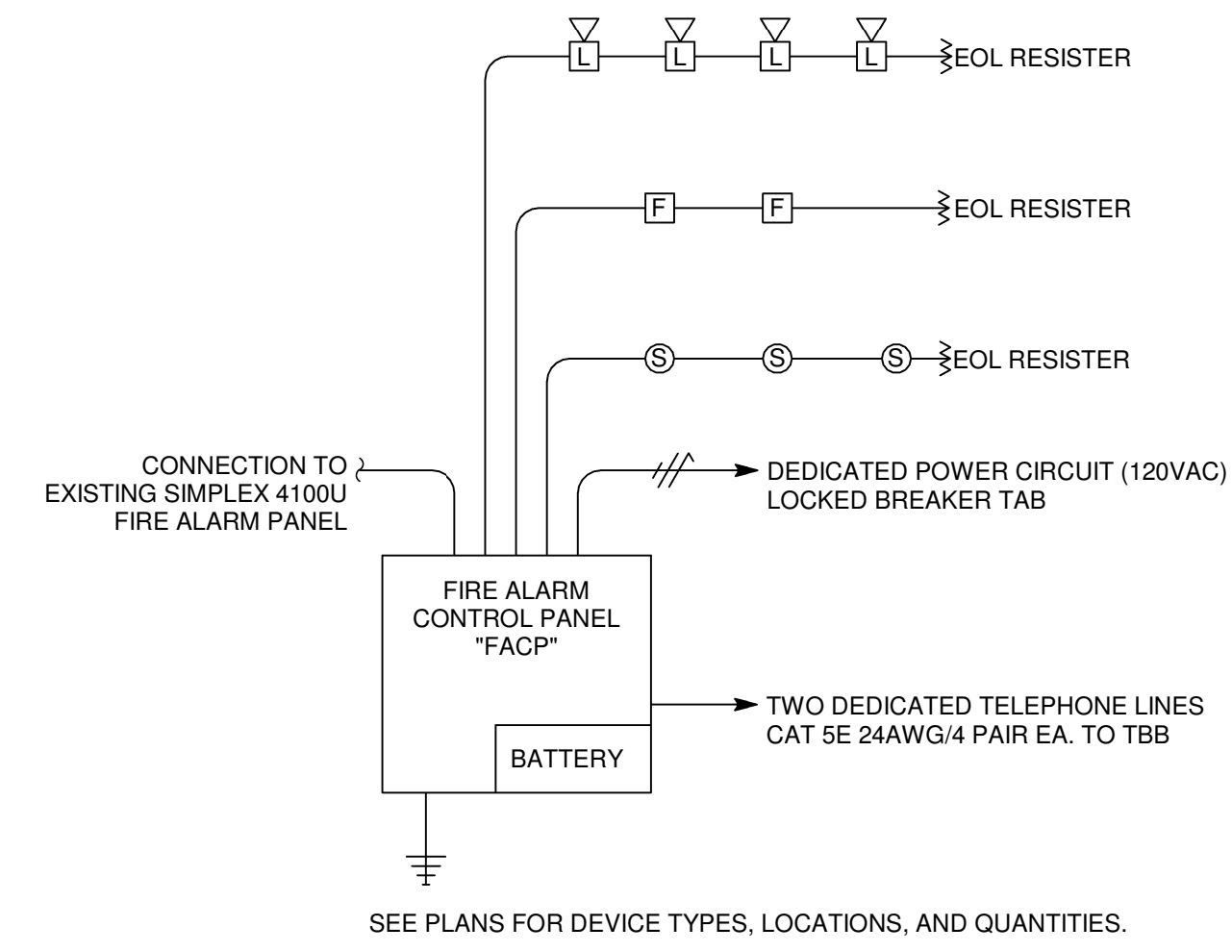
Volts: 120/208 3P
 Phases: 3
 Wires: 4

A.I.C. Rating: 22,000
 Mains Type: M.B.
 Mains Rating: 200 A
 MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	TVSS	30 A	2	0 VA	808 VA			1	20 A	L - LIGHTING (INTERIOR)
3	--	--	--		0 VA	320 VA		1	20 A	L - LIGHTING (EXTERIOR)
5	R - RECEPTACLE (RM. 101)	20 A	1	1500...	1200...	1500...	540 VA	1	20 A	R - RECEPTACLE (RM. 103)
7	R - RECEPTACLE (RM. 101)	20 A	1	1500...	1200...			1	20 A	R - RECEPTACLE (RM. 101, DISHWASHER)
9	R - RECEPTACLE (RM. 101 AND 104)	20 A	1		360 VA	1000...		1	20 A	R - RECEPTACLE (RM. 101, REFRIGERATOR)
11	R - RECEPTACLE (RM. 103 AND EXTERIOR)	20 A	1			720 VA	720 VA	1	20 A	R - RECEPTACLE (RM. 103 AND EXTERIOR)
13	R - RECEPTACLE (RM. 102 AND 105)	20 A	1	1500...	360 VA			1	20 A	R - RECEPTACLE (RM. 102 AND 105)
15	E - EQUIPMENT (FIRE ALARM CIRCUIT) NOTE 1	20 A	1		1000...	2880...		2	30 A	E - EQUIPMENT (RM. 105, DRYER)
17	R - HVAC (FAC)	70 A	3			7806...	2880...	--	--	--
19	--	--	--	7806...	1200...			1	20 A	E - EQUIPMENT (WAT. HEAT. "WH-1", RM. 104)
21	--	--	--		7806...	0 VA		3	50 A	SPARE
23	E - EQUIPMENT (RM. 101, GARB. DISPOSAL)	20 A	3		720 VA	0 VA				
25	--	--	--	720 VA	0 VA					
27	--	--	--		720 VA	0 VA		3	20 A	SPARE
29	SPARE	30 A	3			0 VA	0 VA	--	--	
31	--	--	--	0 VA	0 VA			--	--	
33	--	--	--		0 VA	0 VA		1	20 A	SPARE
35	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE
37	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE
39	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE
41	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE
Total Load:				15094 VA	14086 VA	14886 VA				
Total Amps:				127 A	117 A	125 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
H - HVAC	23418 VA	100.00%	23418 VA	Total Conn. Load: 44066 VA Total Est. Demand: 41818 VA Total Conn. Current: 122 A Total Est. Demand Current: 116 A
L - LIGHTING	1128 VA	125.00%	1410 VA	
R - RECEPTACLE	9400 VA	100.00%	9400 VA	
E - EQUIPMENT	10120 VA	75.00%	7590 VA	

- NOTES:**
- PROVIDE LOCK ON TAB FOR FIRE ALARM CONTROL PANEL "FACP". BREAKER TO BE MARKED IN RED.



FIRE ALARM - RISER

SCALE: N.T.S.

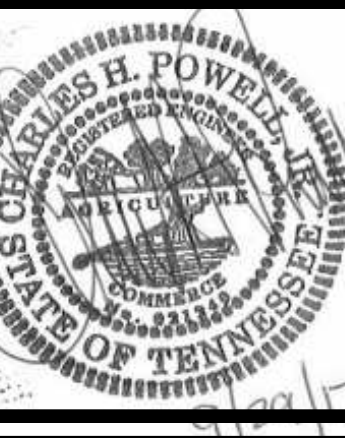
3

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Drawing Title:
 RISER DIAGRAM,
 PANELBOARD
 SCHEDULE, AND
 LIGHTING FIXTURE
 SCHEDULE

Date: 07/28/2017

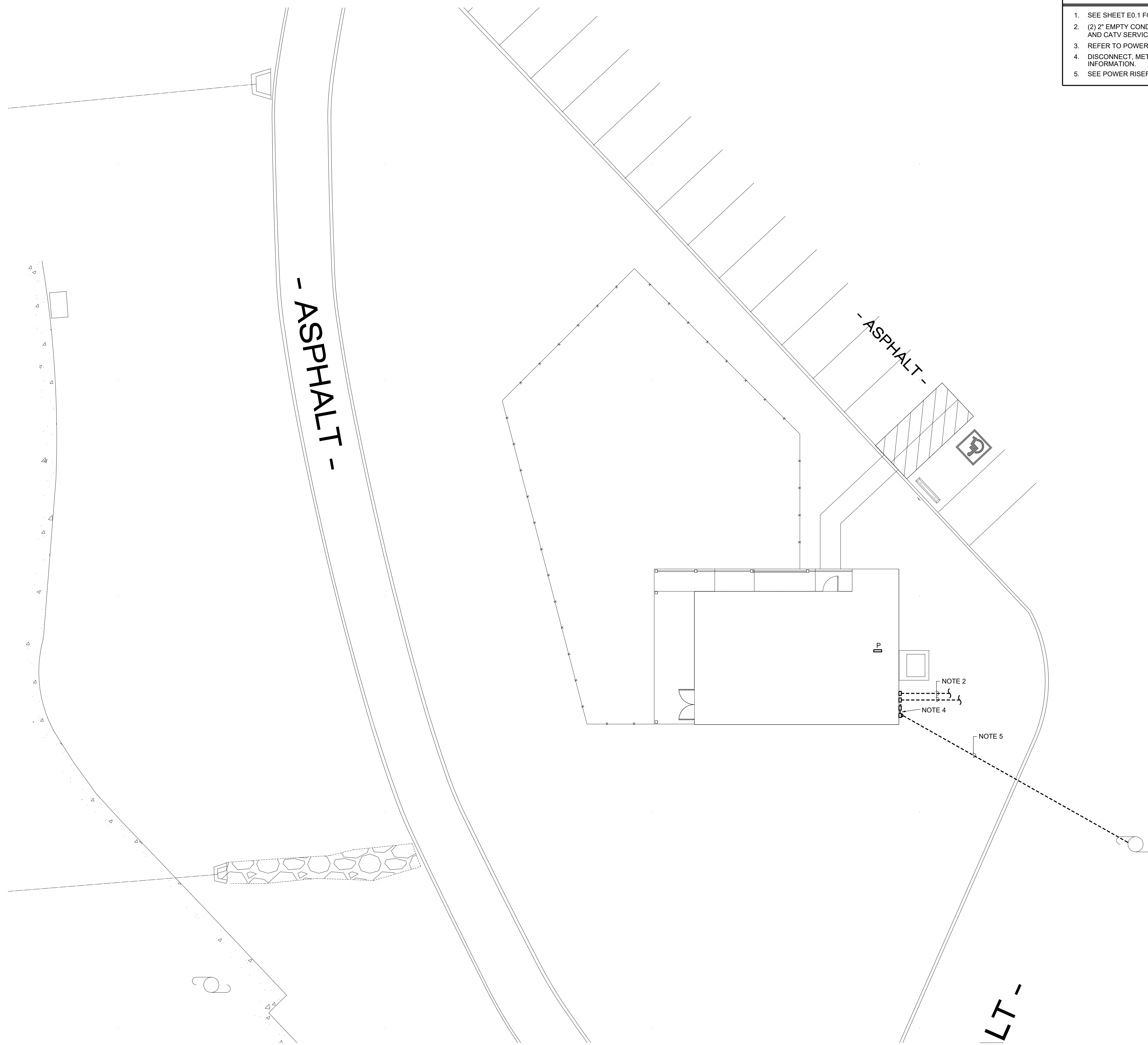
Designed By: CHP
 Drawn By: JWD
 Reviewed By: CHP

Comm. No. 170042.01

Revisions:
 Rev. 1 09/29/2017

Sheet: Sheet No.
 of **E4.1**

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- NOTES:**
1. SEE SHEET E0.1 FOR ELECTRICAL LEGEND AND GENERAL NOTES.
 2. (2) 2" EMPTY CONDUITS WITH PULL STRING FROM CABINET TO EXISTING HIGH SCHOOL TELEPHONE AND CATV SERVICE POINT.
 3. REFER TO POWER RISER DIAGRAM ON SHEET E4.1 FOR MORE INFORMATION.
 4. DISCONNECT, METER, AND METER BASE. REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 5. SEE POWER RISER DIAGRAM FOR SECONDARY CONDUIT AND CONDUCTORS.

SITE PLAN - ELECTRICAL

SCALE: 1" = 10'-0"

1

811
 Know what's below.
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A NEW DEVELOPMENT FOR:
**ANDERSON CO. HIGH SCHOOL
 NET ZERO ENERGY PROJECT**

130 MAVERICK CIRCLE
 CLINTON, TN 37716

THIS DRAWING HAS BEEN ISSUED:
 FOR REVIEW ONLY
 FOR PERMITTING ONLY
 SCHEMATIC DESIGN
 DESIGN DEVELOPMENT
 CONSTRUCTION DOCUMENTS

Drawing Title:
 SITE PLAN - ELECTRICAL

Date: 07/28/2017
 Designed By: C.H.P.
 Drawn By: J.W.D.
 Reviewed By: C.H.P.
 Comm. No. 170042.01
 Revisions:

Sheet: Sheet No. ES1.1
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