HOPE AVENUE HOMES

2923/2929 Hope Avenue, South Bend, IN 46615

April 2, 2021

CONSTRUCTION DRAV

OWNER/DEVELOPER



803 LINCOLNWAY WEST SOUTH BEND, IN 46616 574-289-1066



PROJECT PARTNERS





IHCDA National Housing Trust Fund

Corporation for Supportive Housing Institute (CSH)

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ARCHITECT

929 Lincolnway East, Suite 200 | South Bend, Indiana 46601

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G1.1	Code Analysis and Life Safety		
01.1		P1.1	Building Plumbing Plans
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1011	Topographic Survey	P2.0	Plumbing Isometrics
C1.0	Site Plan		U U
C1.1	Site Utility Plan	M1.1	Building Mechanical Plans
C2.0	Site Grading Plan	M1.2	Apartment Unit Mechanical Plans
C2.1	Storm Drainage Details		
C3.0	SWPPP Plan	E1.1	Electrical Plans
C3.1	SWPPP Details	E1.2	Apartment Unit Electrical and Light
C4.0	Site Details		Plans, Electrical Legend
		E2.1	Lighting Plans
L1.0	Landscape Plan	E2.2	Site Lighting Plans
L2.0	Irrigation Plan	E3.0	Electrical Notes, Unit Panel, Sche
			Legends, and Diagrams
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St. Joseph County Housing Consortium

City of South Bend

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Oaklawn



VIEW LOOKING SOUTHWEST



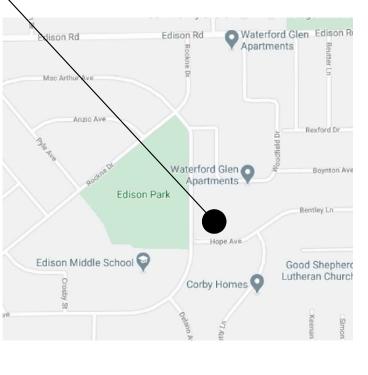
VIEW OF MAIN ENTRY



VIEW LOOKING NORTHWEST

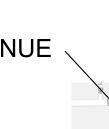
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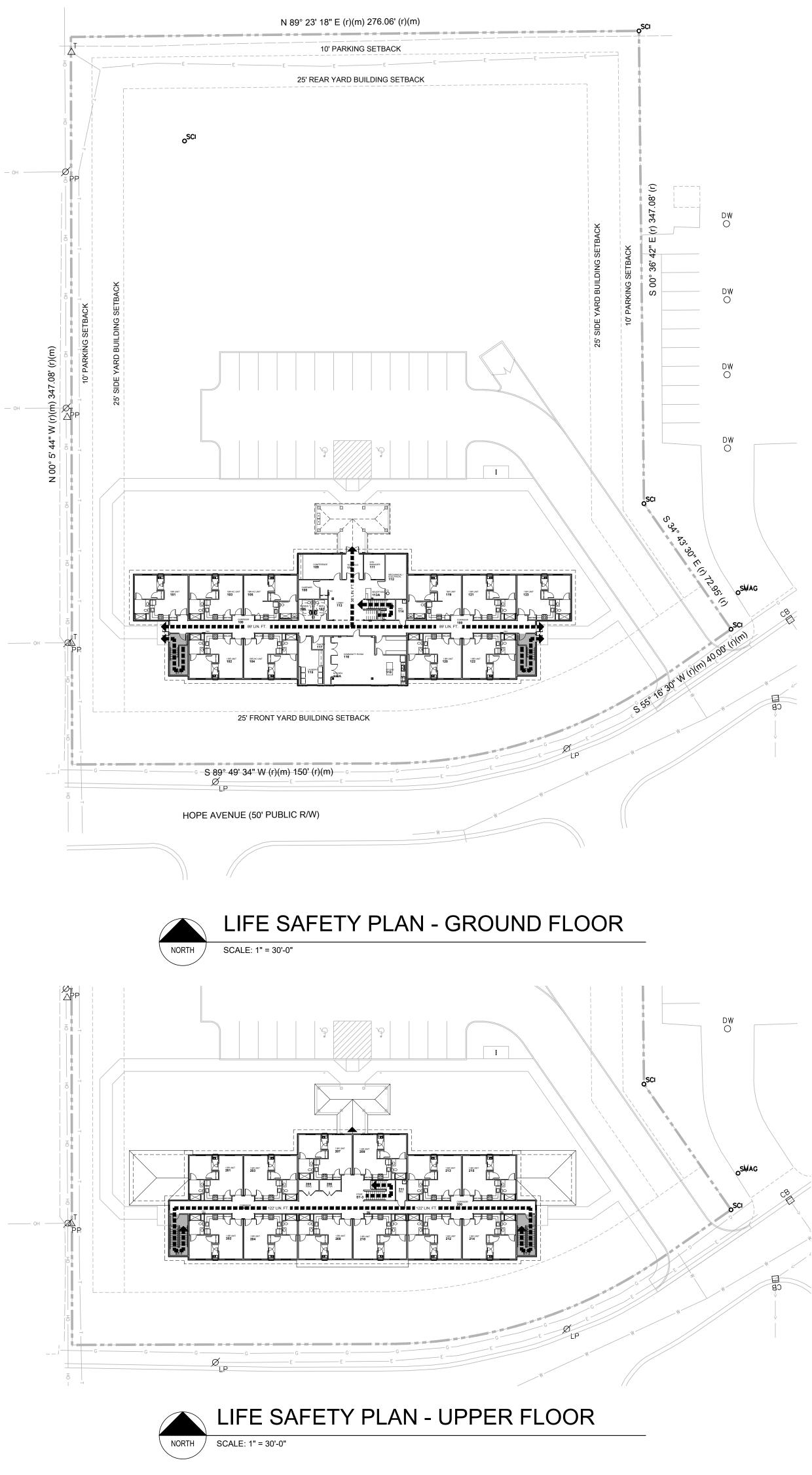


NORTH

VICINITY MAP

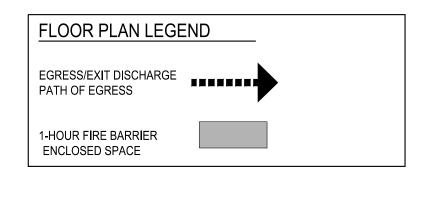


ALLLLA ARCHIT 929 Lincolnway East, Suite 200
AR00890043
South Bend Heritage
HOPE AVENUE HOMES 2923/2929 Hope Avenue South Bend, IN 46615
DATE: BID DATE: 4/2/21
SHEET NO.



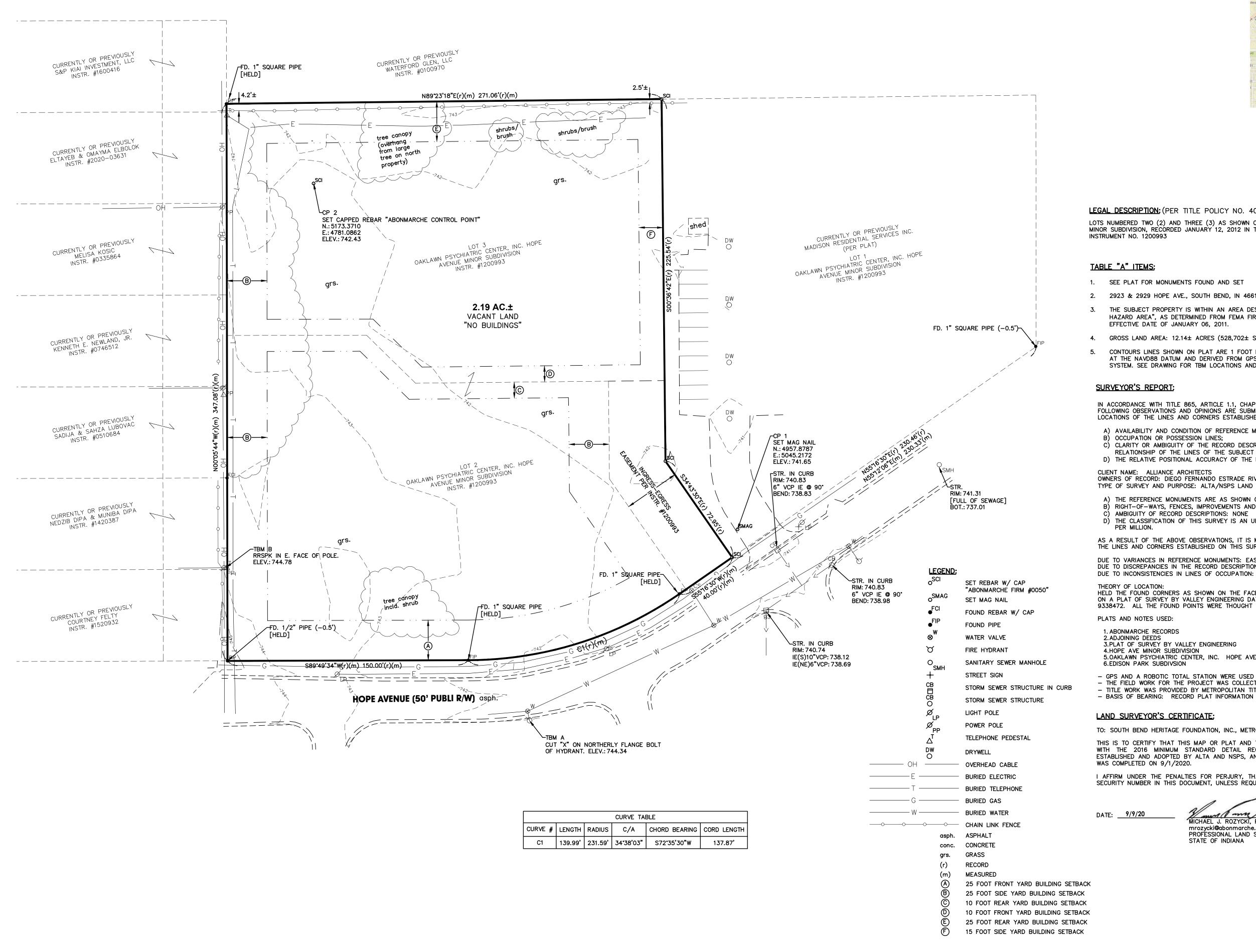
FIRE RATED ASSEMBLIES

- CORRIDOR 1 HOUR FIRE RATED
 UL ASSEMBLY NO. U311
- DEMISING WALL
 UL ASSEMBLY NO. U341
- FLOOR/CEILING 1 HOUR FIRE RATED
 UL ASSSEMBLY NO. L521
- STAIR ENCLOSURE 1 HOUR FIRE RATED FIRE BARRIER WALLS
 UL ASSEMBLY NO. U311



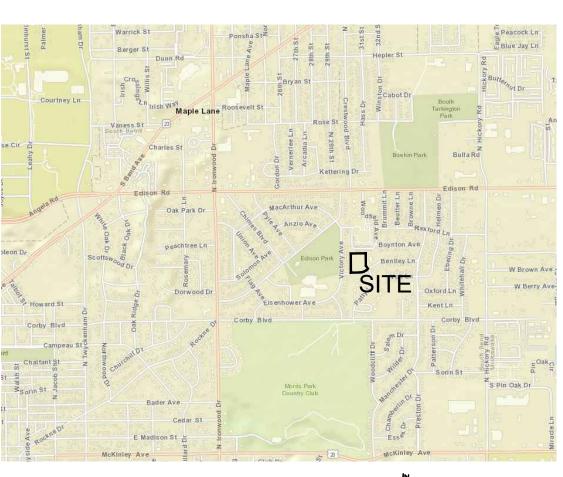
APPLICABLE C 2014 IND (2012 INT ACCESS 2012 IND (2006 INT 2009 IND (2008 NF 2014 IND (2012 INT 2014 IND (2012 INT 2010 NDI (ASHRAE 2014 IND (2012 INT	CODES MANA BUILDING CODE TERNATIONAL BUILDIN IBILITY- CHAPTER 11 II MANA PLUMBING CODE TERNATIONAL PLUMBIN MANA ELECTRICAL CO PA 70 WITH INDIANA A	G CODE WITH INDI NDIANA BUILDING (E NG CODE WITH INE DE MENDMENTS) DE NICAL CODE WITH IND AS CODE WITH IND RVATION CODE NA AMENDMENTS) DE WITH INDIANA	CODE ANSI A117.1 2009 DIANA AMENDMENTS) INDIANA AMENDMENTS) IANA AMENDMENTS)	AND SECOND F	LOORS.	ALLLANC
	UPANCY GROUP CLAS SIDENTIAL GROUP - R					
	DING HEIGHTS AND A	REAS (CHAPTER 5)	2			GISTER
	EIGHT (TABLE NO. 503	, IBC):	<u>2 STORIES, 40 F</u>	<u>EET</u>		No.
ALLOWABLE A AREA MO	ETUAL HEIGHT: REA PER STORY (TABI DDIFICATIONS: A=(A _t x ER STORY: A _a = {A _t + [A _t	l _f)	2-STORIES, 34 F 7,000 SQ. FT. 5,138 SQ. FT. <u>14,000 SQ. FT.</u> 26,138 SQ. FT.	EEI		STATE OF STATE OF STATE OF SCHITEC
AREA PER STO	<u>DRY</u> (SECTION 506.4):	1S		10,	TUAL: 427 SQ. FT.	
	OWABLE BUILDING AF		ID: <u>26,138 SQ. FT.</u> 52,276 SQ. FT.	_	<u>.917 SQ. FT.</u> 344 SQ. FT.	T
	ON TYPE (IBC CHAPTER		02,210 000.111.	10,		u u
FIRE RESISTAN	NT DESIGN (TABLE 601	<u>& 602, IBC):</u>				D D D D D
FIRE RESISTAI BELOW.	NT DESIGNS FOR BUIL	DING SHALL BE EG	UAL TO OR GREATER TH	AN THOSE USED	ON THE TABLE LISTED	
BUILDING ELEI	MENT FIRE RE	ESISTANCE RATING	G (HOURS)			
	AL FRAME ALLS - EXTERIOR ALLS - INTERIOR	0 0 0				le le le
4. NON-BEARIN	NG WALLS - INTERIOR NG WALLS - EXTERIOR NG WALLS - INTERIOR	-)' SEPARATION			Т N
6. FLOOR CON 7. ROOF CONS	STRUCTION	0 0				
REQUIRED FIR	E SEPARATION:					
CORRIDO UNLESS RATING HORIZON FIRE-RES	CORRIDOR WALLS AR OF 1 HOUR IS REQUIRI NTAL ASSEMBLIES BET SISTANCE RATING OF	NCY R HAVE A FIRI E CLASSIFIED AS I ED. WEEN DWELLING NOT LESS THAN 0.	E RESISTANCE RATING R NTERIOR BEARING WALL UNITS IN TYPE VB CONST 5 HOURS IN BUILDINGS E E WITH SECTION 903.3.1.	S IN WHICH CAS RUCTION SHALI QUIPPED THROU	_ BE HAVE A JGHOUT WITH AN	
	TION SYSTEMS (IBC CH	<u>.</u>				ဟု
	UILDING WILL BE SERV THE FIRST FLOOR AND			PRINKLER SYST	EM IN ACCORDANCE WITH	
			_			
OCCUPANT LC	AD PER STORY (PER	TABLE 1004.1.1) AN	D EXITS REQUIRED (PER EXITS REQ'D.	TABLE 1015.1) -	PERFLOOR	Ĭ
FIRST FLOOR			PER SPACE PR	OVIDED TO	TAL OCCUPANTS	Ш
COMMUN	ITIAL UNITS (3 PERSOI NITY ROOM / KITCHEN ENCE ROOM	NS PER UNIT)	1 1	1 1 1	33 33 16	EDU Avenue
OFFICE ACCESS LAUNDR	ORY / MECHANICAL / S	TORAGE	1	1 1 1	4 2 2	
LAUNDI	I		,	' TOTAL	90 PERSONS	Hope
SECOND FLOC)R			2 EXITS	REQ'D., 3 PROVIDED	
RESIDEN	ITIAL UNITS (3 PERSO) ORY / MECHANICAL / S		1 1	1	36 3	
				TOTAL 2 EXITS	39 REQ'D., 3 PROVIDED	HOF
AREAS OF REF 1007.3, EXCE		AT EXIT STAIRWAY	'S IN BUILDINGS EQUIPPE	D WITH AN AUT	OMATIC SPRINKLER SYSTEM	
			NG FACILITIES (TABLE 29	-		
RESIDENTIAL	WATER CLOSET:	LAVATORY	1 PER UNIT			DATE: BID DATE: 4/2/2
PROVIDED	1 WC	1 LAV	1 TUB OR SHOWER	1 SINK		DID DATE. 4/2/2
	WATER CLOSET: MEN / WOMEN	LAVATORY	DRINKING FOUNTAIN	SERVICE SINK		
OFFICE REQUIRED	<u>1/75 1/75</u> 1 1	<u>1/200</u> 1	<u>1/1000</u> 1	<u>1</u> 1		
PROVIDED	2 WC 2 WC Y (CHAPTER 11)	2 LAV'S.	1	2		
(1107.6.2 GROI	JP R-2) ALL DWELLING		PE B UNITS, DESIGNED T	O COMPLY WITH	I HANDICAPPED	
	Y REQUIREMENTS PER		-			
						© 2021 ALLIANCE ARCHIT
						ALL RIGHTS RESE
						SHEET NO.

ALLLIA ARCHITE 929 Lincolnway East, Suite 200 Sou	
No. AR00890043 STATE OF	
South Bend Heritage	
HOPE AVENUE HOMES 2923/2929 Hope Avenue South Bend, IN 46615	
DATE: BID DATE: 4/2/21	
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sheet no.	



ALTA/NSPS LAND TITLE SURVEY

TITLE INSURANCE COMMITMENT NO. 4041-163907 EFFECTIVE DATE: JULY 3, 2020 @ 8:00 AM NAME OF INSURER: METROPOLITAN TITLE OF INDIANA, LLC ADDRESS: 2923 & 2929 HOPE AVE., SOUTH BEND, IN 46615



LOCATION MAP ₩₩

NOT TO SCALE

LEGAL DESCRIPTION: (PER TITLE POLICY NO. 4041-163907)

LOTS NUMBERED TWO (2) AND THREE (3) AS SHOWN ON THE PLAT OF OAKLAWN PSYCHIATRIC CENTER, INC. HOPE AVENUE MINOR SUBDIVISION, RECORDED JANUARY 12, 2012 IN THE OFFICE OF THE RECORDER OF ST. JOSEPH COUNTY, INDIANA, AS

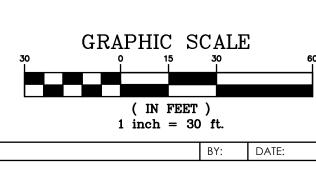
- 1. SEE PLAT FOR MONUMENTS FOUND AND SET
- 2923 & 2929 HOPE AVE., SOUTH BEND, IN 46615
- THE SUBJECT PROPERTY IS WITHIN AN AREA DESIGNATED AS "ZONE X, NO SPECIAL FLOOD HAZARD AREA", AS DETERMINED FROM FEMA FIRM PANEL NO. 18141C0204D WITH AN EFFECTIVE DATE OF JANUARY 06, 2011.
- GROSS LAND AREA: $12.14 \pm$ ACRES (528,702 \pm SQ. FT.)
- CONTOURS LINES SHOWN ON PLAT ARE 1 FOOT INTERVAL. THE CONTOUR ELEVATIONS ARE AT THE NAVD88 DATUM AND DERIVED FROM GPS OBSERVATION THROUGH THE INCORS SYSTEM. SEE DRAWING FOR TBM LOCATIONS AND ELEVATIONS.

- IN ACCORDANCE WITH TITLE 865, ARTICLE 1.1, CHAPTER 12, OF THE INDIANA ADMINISTRATIVE CODE, THE FOLLOWING OBSERVATIONS AND OPINIONS ARE SUBMITTED REGARDING THE VARIOUS UNCERTAINTIES IN THE LOCATIONS OF THE LINES AND CORNERS ESTABLISHED ON THIS SURVEY AS RESULT OF: A) AVAILABILITY AND CONDITION OF REFERENCE MONUMENTS;
- B) OCCUPATION OR POSSESSION LINES; C) CLARITY OR AMBIGUITY OF THE RECORD DESCRIPTION USED AND OF ADJOINERS' DESCRIPTIONS AND THE RELATIONSHIP OF THE LINES OF THE SUBJECT TRACT WITH ADJOINERS' LINES; D) THE RELATIVE POSITIONAL ACCURACY OF THE MEASUREMENTS.
- CLIENT NAME: ALLIANCE ARCHITECTS OWNERS OF RECORD: DIEGO FERNANDO ESTRADE RIVERA TYPE OF SURVEY AND PURPOSE: ALTA/NSPS LAND TITLE SURVEY FOR SITE DESIGN
- A) THE REFERENCE MONUMENTS ARE AS SHOWN ON THE FACE OF THE SURVEY. B) RIGHT-OF-WAYS, FENCES, IMPROVEMENTS AND UTILITIES AS SHOWN. C) AMBIGUITY OF RECORD DESCRIPTIONS: NONE D) THE CLASSIFICATION OF THIS SURVEY IS AN URBAN SURVEY: 0.07 FEET (21 MILLIMETERS) PLUS 50 PARTS
- AS A RESULT OF THE ABOVE OBSERVATIONS, IT IS MY OPINION THAT THE UNCERTAINTIES IN THE LOCATIONS OF
- THE LINES AND CORNERS ESTABLISHED ON THIS SURVEY ARE AS FOLLOWS: DUE TO VARIANCES IN REFERENCE MONUMENTS: EAST/WEST 0.3' NORTH/SOUTH 0.3' DUE TO DISCREPANCIES IN THE RECORD DESCRIPTION: NONE DUE TO INCONSISTENCIES IN LINES OF OCCUPATION: 5'+/-
- HELD THE FOUND CORNERS AS SHOWN ON THE FACE OF THE SURVEY. ALL THE HELD IRONS WERE REFERENCED ON A PLAT OF SURVEY BY VALLEY ENGINEERING DATED 1-18-93 AND RECORDED UNDER INSTRUMENT NUMBER 9338472. ALL THE FOUND POINTS WERE THOUGHT TO BE ORIGINAL TO SAID SURVEY.
- 3.PLAT OF SURVEY BY VALLEY ENGINEERING
- 4.HOPE AVE MINOR SUBDIVISION 5.0AKLAWN PSYCHIATRIC CENTER, INC. HOPE AVE MINOR SUBDIVSION 6.EDISON PARK SUBDIVSION
- GPS AND A ROBOTIC TOTAL STATION WERE USED TO COLLECT THE DATA FOR THE PROJECT. - THE FIELD WORK FOR THE PROJECT WAS COLLECTED IN AUGUST 2020 - TITLE WORK WAS PROVIDED BY METROPOLITAN TITLE (4041-163907)

LAND SURVEYOR'S CERTIFICATE:

- TO: SOUTH BEND HERITAGE FOUNDATION, INC., METROPOLITAN TITLE OF INDIANA, LLC:
- THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1 - 5 OF TABLE A THEREOF. THE FIELDWORK
- I AFFIRM UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW.





SURVEY TITLE TH BEND, II

CHE CHE

2

4

BONM

4

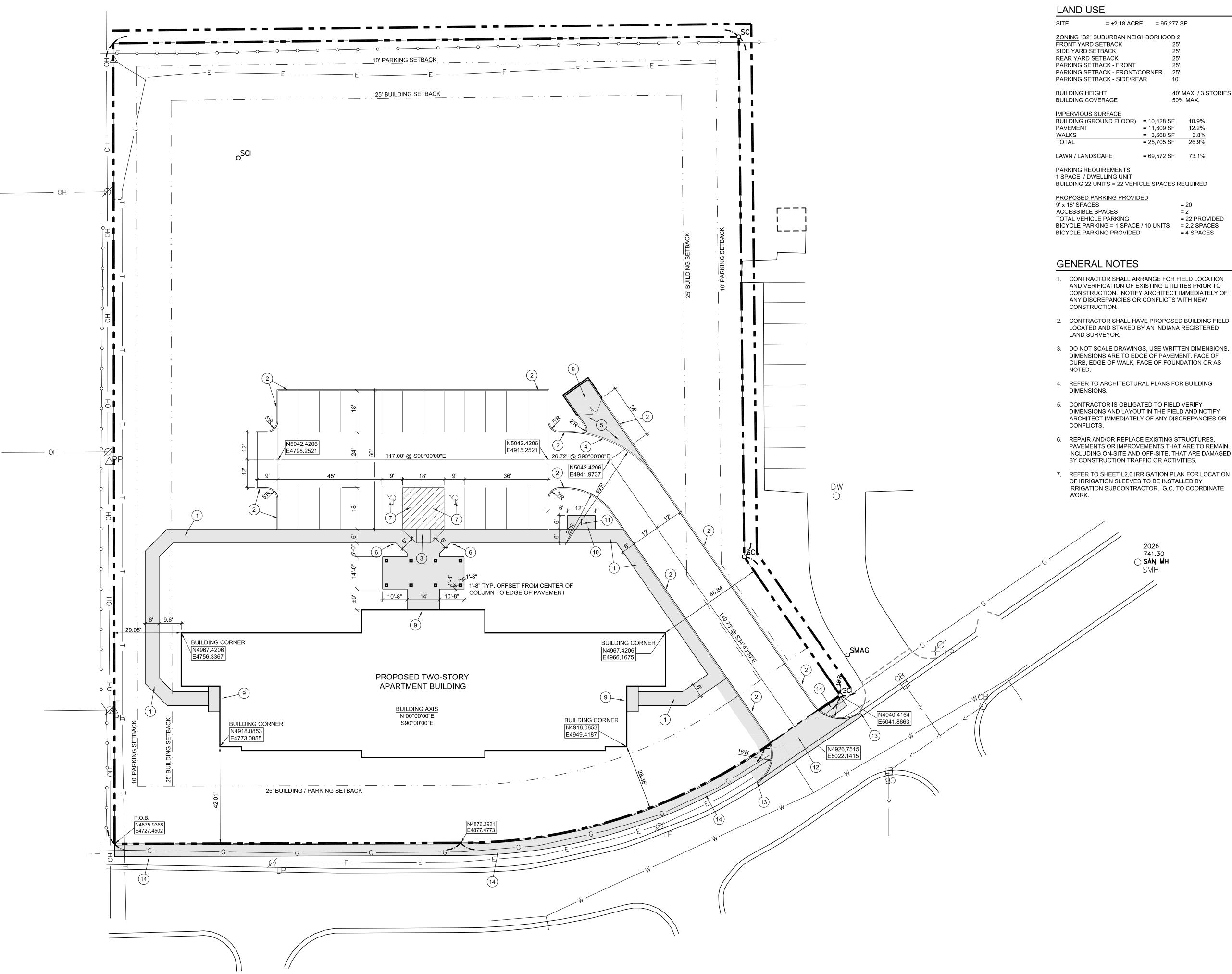
LAND *E AVE., SOUI /NSPS **ALT**



20-1359

of

NO. REVISION DESCRIPTION:



= ±2.18 ACRE	= 95,2	277 SF	
2" SUBURBAN NEIG RD SETBACK 9 SETBACK 5 SETBACK 5 ETBACK - FRONT 5 ETBACK - FRONT/C 5 ETBACK - SIDE/REA	ORNER	25' 25' 25' 25'	
HEIGHT COVERAGE		40' MA 50% N	AX. / 3 STORIES /IAX.
JS SURFACE GROUND FLOOR)	= 10,428 \$ = 11,609 \$ = 3,668 \$ = 25,705 \$	SF	12.2%
NDSCAPE	= 69,572 \$		
REQUIREMENTS DWELLING UNIT 22 UNITS = 22 VEHIC	CLE SPACE	ES REG	UIRED

= 20 = 2 = 22 PROVIDED = 4 SPACES

1. CONTRACTOR SHALL ARRANGE FOR FIELD LOCATION AND VERIFICATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS WITH NEW

2. CONTRACTOR SHALL HAVE PROPOSED BUILDING FIELD LOCATED AND STAKED BY AN INDIANA REGISTERED

DIMENSIONS ARE TO EDGE OF PAVEMENT, FACE OF CURB, EDGE OF WALK, FACE OF FOUNDATION OR AS

DIMENSIONS AND LAYOUT IN THE FIELD AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR

PAVEMENTS OR IMPROVEMENTS THAT ARE TO REMAIN, INCLUDING ON-SITE AND OFF-SITE, THAT ARE DAMAGED BY CONSTRUCTION TRAFFIC OR ACTIVITIES.

OF IRRIGATION SLEEVES TO BE INSTALLED BY IRRIGATION SUBCONTRACTOR. G.C. TO COORDINATE



SiteScapes INC.

Landscape Architecture & Planning P.O. Box 391 • Mishawaka, Indiana 46546 Telephone (574) 255-4677 www.SiteScapes-Inc.com

NOTE

THIS PROJECT SITE IS LOCATED WITH A "WELLHEAD
PROTECTION AREA". CONTRACTOR IS TO FOLLOW ALL
REQUIREMENTS, STANDARDS AND OBTAIN NECESSARY
PERMITS FROM ST. JOSEPH COUNTY HEALTH DEPT.

PAVEMENT DESIGN

ASPHALT PA	VEMENT
SURFACE:	1-1/2" - #11 H.A.C. SURFACE COURSE
BINDER:	2-1/2" - #9 H.A.C. BINDER COURSE
SUBBASE:	6" - #53 AGGREGATE, COMPACT TO 98% MAXIMUM
	STANDARD PROCTOR DENSITY
SUBGRADE:	COMPACT TO 98% MAXIMUM STANDARD PROCTOR
	DENSITY

KEY NOTES

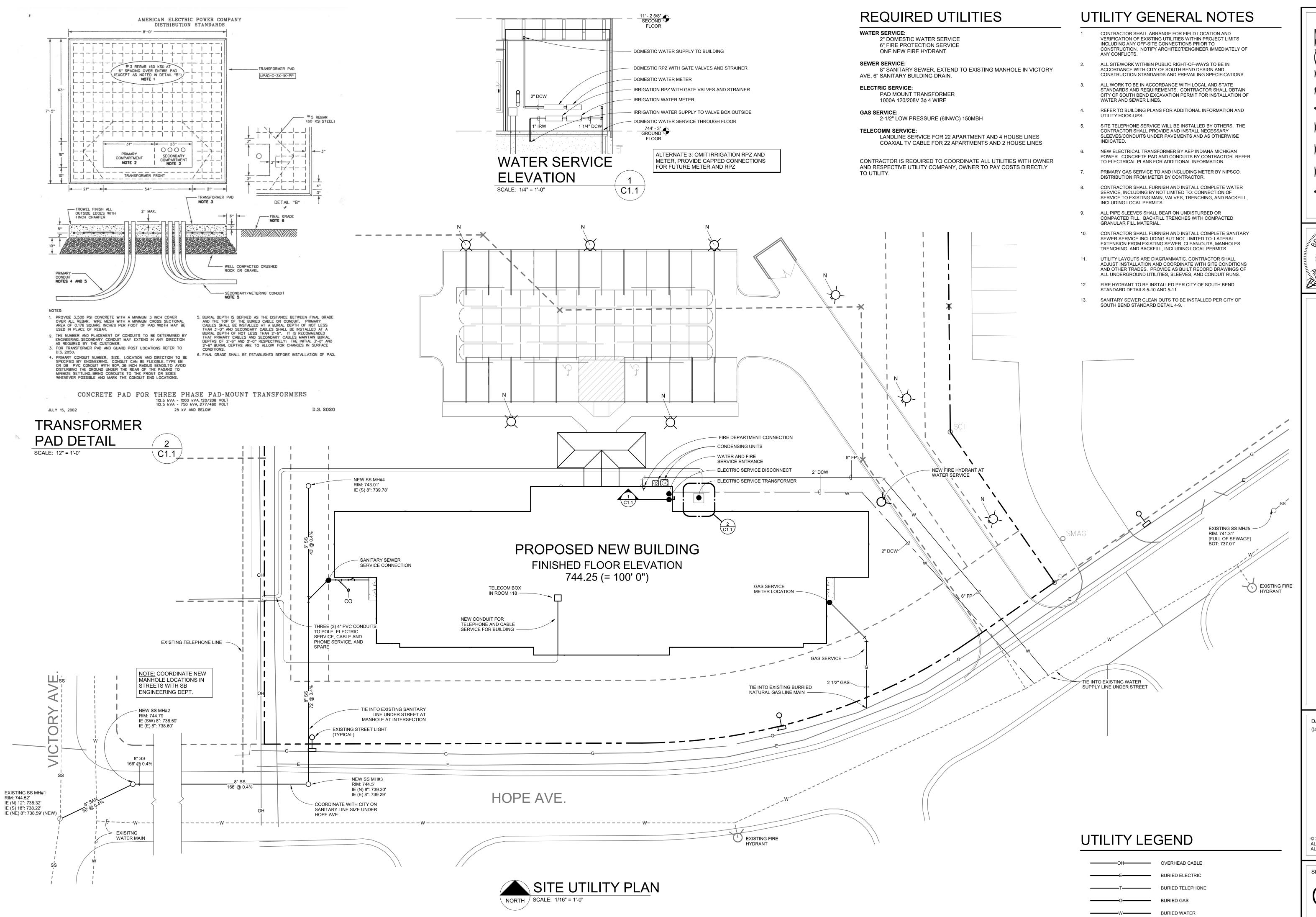
- (1.) NEW CONCRETE SIDEWALK, SEE DETAIL 1, SHEET C4.0
- (2.) NEW CONCRETE STRAIGHT CURB, SEE DETAIL 2, SHEET C4.0
- (3.) NEW ACCESSIBLE CURB RAMP, SEE DETAIL 3, SHEET C4.0
- (4.) NEW FLUSH 6" x 12" CONCRETE CURB BETWEEN DRIVE AND TRASH ENCLOSURE APPROACH.
- (5.) CONSTRUCT CONCRETE APPROACH FOR TRASH AREA. 5" THICK, FIBER REINFORCED 1.5 LB/CY, 4,000 PSI, LIMESTONE
- AGGREGATE ON 4" #53 CRUSHED STONE SUBBASE.
- (6.) STANDARD 12"X18" ALUMINUM ACCESSIBLE PARKING SIGN. SEE DETAIL 4, SHEET C4.0
- (7.) PAINT STANDARD ADA SYMBOL IN DESIGNATED PARKING SPACES AND PAINT STRIPES FOR NO PARKING AISLE, 4" WIDE AT 18" O.C. COLOR: WHITE. TYPICAL FOR ALL ADA SPACES.
- (8.) TRASH ENCLOSURE AND GATES, REFER TO DETAIL 5, SHEET C4.0
- (9.) CONCRETE STOOP, REFER TO ARCHITECTURAL PLANS.
- (10.) 6' x 12' x 4" THICK CONCRETE PAD FOR BIKE PARKING. REFER TO DETAIL 1, SHEET C4.0
- (11.) BIKE RACK SERPENTINE BIKE LOOP RACK, 13 GAGE x $2\frac{3}{8}$ " O.D. STEEL TUBING, POWDER COAT FINISH. 3 LOOPS FOR 5 BIKES. COLOR: BLACK. BIKE RACK MODEL #BRK538S BY WABASH VALLEY, OR APPROVED EQUAL.
- (12.) DRIVEWAY APPROACH, WITH CROSSING SIDEWALK, PER CITY OF SOUTH BEND STANDARDS FOR DESIGN AND CONSTRUCTION. 8" THICK, CLASS 'A' CONCRETE.
- (13.) CONSTRUCT SMOOTH TRANSITION BETWEEN NEW AND EXISTING CURB. MATCH CURB LINE ELEVATIONS.
- (14.) ALTERNATE #4: CONSTRUCT NEW 5' WIDE CONCRETE SIDEWALK ALONG HOPE AVENUE. SET EDGE OF WALK 6" SOUTH OF PROPERTY LINE. SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF SOUTH BEND STANDARD SPECIFICATIONS.





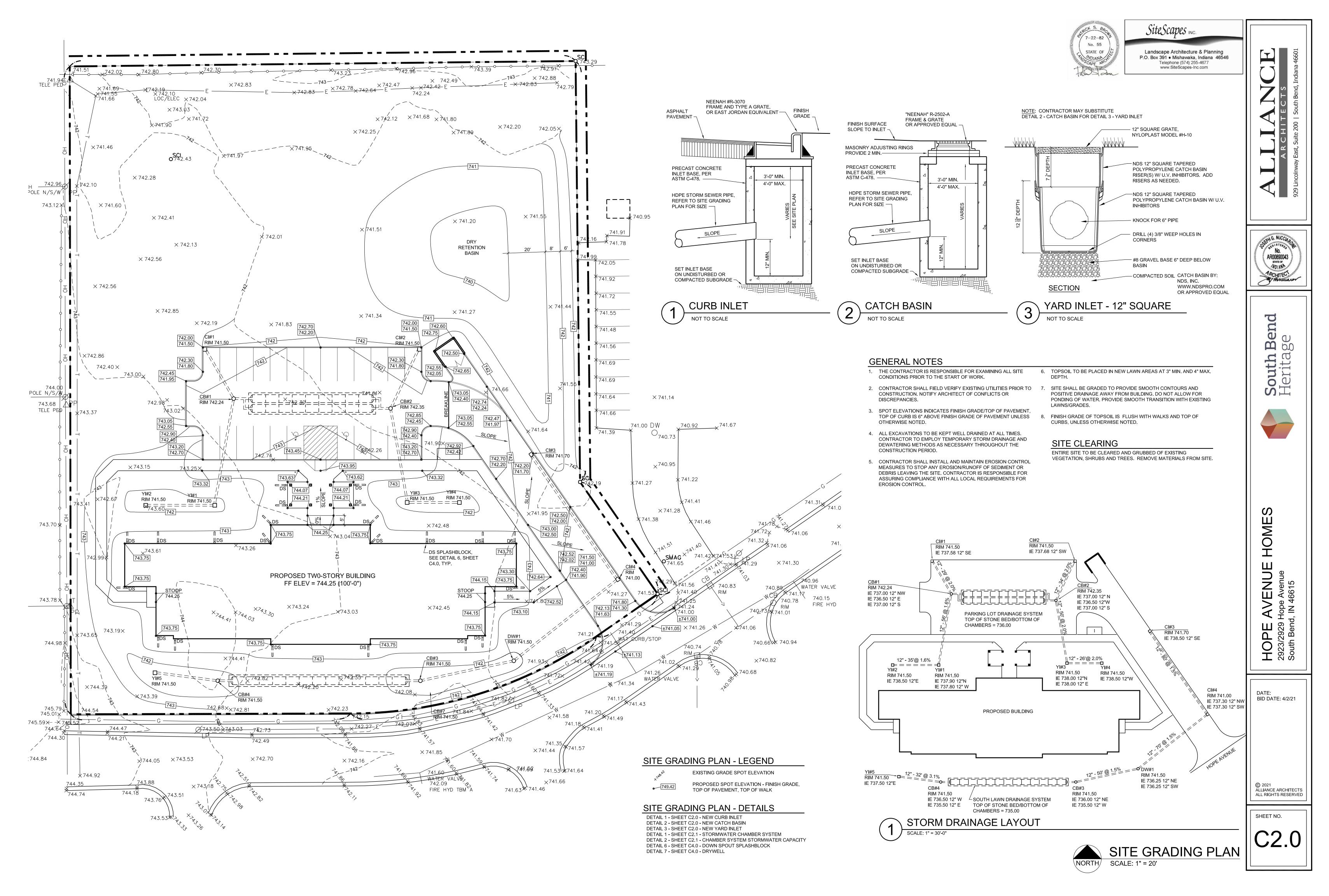


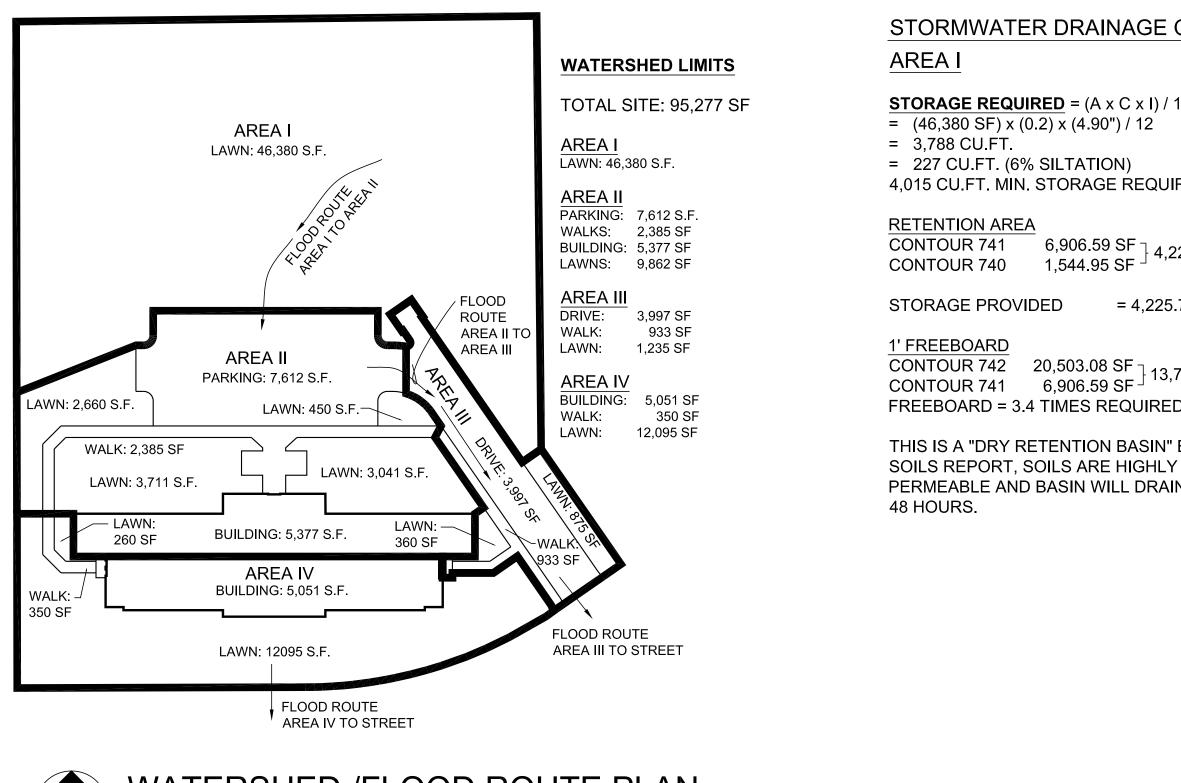




OH	OVERHEAD CABLE
Е	BURIED ELECTRIC
T	BURIED TELEPHONE
G	BURIED GAS
W	BURIED WATER
SS	BURIED SANITARY SEWER

ALLIANCE ARCHITECTS 929 Lincolnway East, Suite 200 South Bend, Indiana 46601
No. PE11100682
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DATE: 04/02/21
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WATERSHED /FLOOD ROUTE PLAN SCALE: 1" = 50' \NORTH/

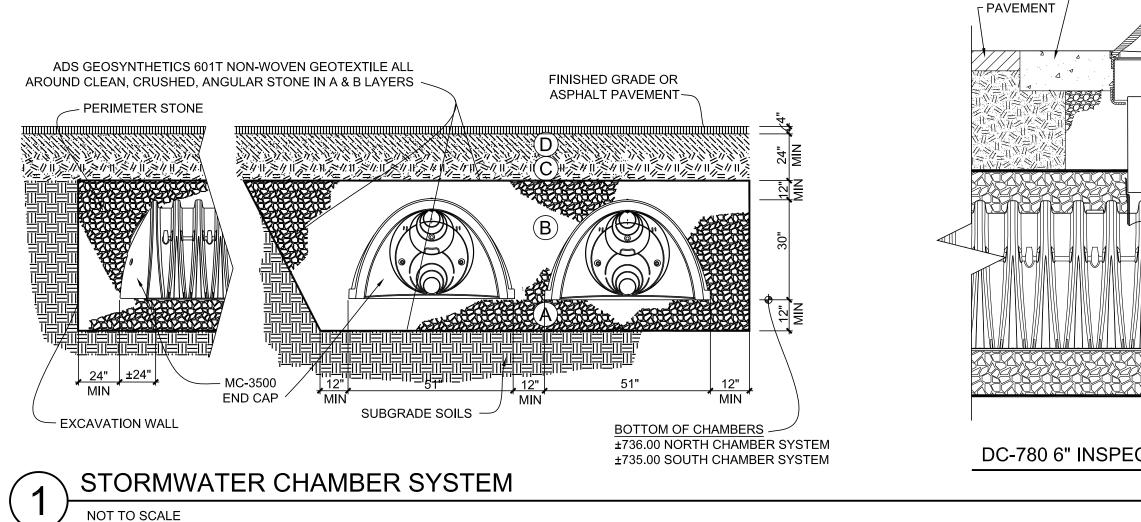
ACCEPTABLE FILL MATERIALS: STORMTECH DC-780 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT SUBBASE	PAVEMENT SUBBASE MATERIAL, 8" MIN. THICKNES, INDOT #53 DENSE GRADED, CRUSHED AGGREGATE - CRUSHED STONE, CRUSHED GRAVEL OF RECYCLED CONCRETE	COMPACT LAYERS IN 6" MAX LIFTS TO A MINIMUM 98% MAXIMUM DRY DENSITY PER STANDARD PROCTOR ASTM D698
Ċ	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	FILL MATERIAL, INDOT #53 DENSE GRADED, CRUSHED AGGREGATE - CRUSHED STONE, CRUSHED GRAVEL OF RECYCLED CONCRETE	COMPACT LAYERS IN 6" MAX LIFTS TO A MINIMUM 98% MAXIMUM DRY DENSITY PER STANDARD PROCTOR ASTM D698
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, INDOT #2 LIMESTONE	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, INDOT #2 LIMESTONE	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE

NOTES:

- 1. DC-780 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER
- COLLECTION CHAMBERS". 2. DC-780 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL

STORMWATER COLLECTION CHAMBERS". 3. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS. 4. INSTALL COMPLETE SYSTEM AS PER MANUFACTURER'S REQUIREMENTS. SUBMIT SHOP DRAWINGS ON LAYOUT, PRODUCTS, ETC.



STORMWATER DRAINAGE CALCULATIONS

STORAGE REQUIRED = $(A \times C \times I) / 12$ = (46,380 SF) x (0.2) x (4.90") / 12

4,015 CU.FT. MIN. STORAGE REQUIRED

 CONTOUR 741
 6,906.59 SF
 4,225.78 CF

 CONTOUR 740
 1,544.95 SF
 4,225.78 CF

= 4,225.78 CU.FT.

CONTOUR 742 20,503.08 SF 13,704.83 CF CONTOUR 741 6,906.59 SF [⊥] FREEBOARD = 3.4 TIMES REQUIRED STORAGE

THIS IS A "DRY RETENTION BASIN" BASED ON

PERMEABLE AND BASIN WILL DRAIN WITHIN

	ie Homes, Sou age Calculatio			3/29/21
Area II - Site	Information		SiteSca	apes, Inc.
Project Area	Information	0.579 acres		
Total Non-impe	rvious areas	9,862 sq.ft. = 0.226 ac	res	
Total Imperviou		15,374 sq.ft. = 0.353 a	cres	
Building	5,377 sq.ft.			
Parking	7,612 sq.ft.			
Walks	2,385 sq.ft.		-	
Weighted C =	(0.226) (0	0.30) + (0.353)(0.95) 0.579	<u>= 0.403</u> 0.579	= 0.696
City of South B	end requirements:	:25 yr, 24 hr storm		
Modified Ra	tional Method	with Infiltration		

Modified Rational Method with Infiltration Calculated Infiltration Rate (per Geotechnical report 104 in/hr) 3 Safety Factor = (104) / (3.0) = 34 in/hr

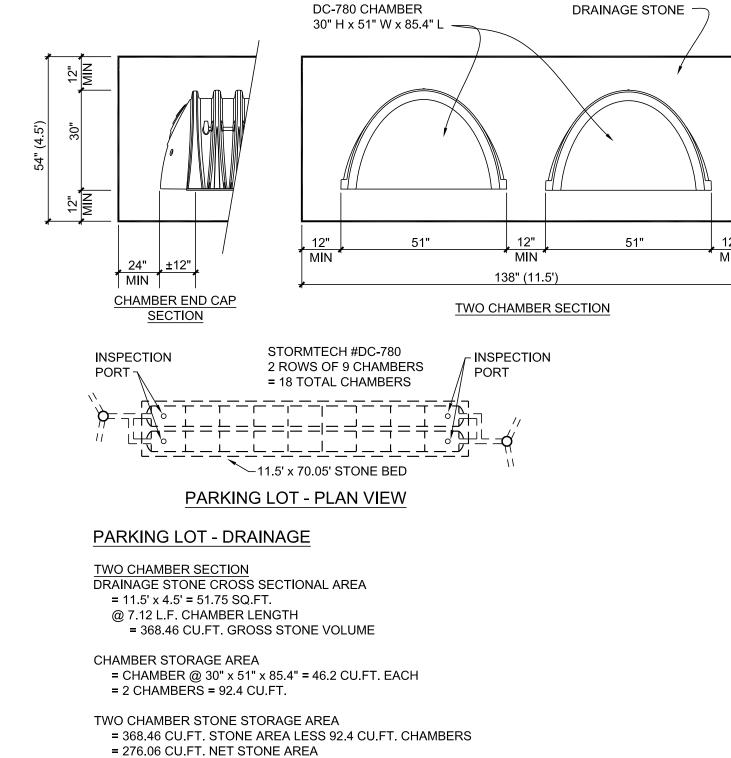
Drainage Bed = 11.5' x 70.05' = 805.57 SF Ground Infill Rate = 805 sf (34 in/hr) / 12 / 3600 = 0.63 cfs

		Rainfall		Ground]
St	orm	Intensity "I"	Inflow	Infilltration	Storage			
Dur	ration	25 year	Rate "Q"	Rate	Rate	Required	I Storage	
1) (1	nrs)	(in/hr)	(cfs)	(cfs)	(cfs)	(cfs)	(CuFt)	
0.	083	8.240	3.32	0.63	2.691	0.02	811]
0.	167	6.310	2.54	0.63	1.913	0.03	1,160]
0.	250	5.190	2.09	0.63	1.461	0.03	1,326	
0.	500	3.670	1.48	0.63	0.849	0.04	1,541	Peak
1	.00	2.380	0.96	0.63	0.329	0.03	1,195]
2	2.00	1.460	0.59	0.63	-0.042	-0.01	-302	
3	00.	1.050	0.42	0.63	-0.207	-0.05	-2,253	
6	00.	0.628	0.25	0.63	-0.377	-0.19	-8,209	
12	2.00	0.358	0.14	0.63	-0.486	-0.49	-21,158	
24	4.00	0.204	0.08	0.63	-0.548	-1.10	-47,724	

Storm Retention Storage Required

Peak Discharge	1,541 CuFt	
6% Siltation Factor	93 CuFt	
Total Storage Required	1,634 CuFt	
and a specific second second		

No. 55 STATE OF CAPE ARCUILING STATE OF STATE OF CAPE ARCUILING STATE OF STATE OF	
STATE OF STA	E C T S South Bend, Indiana 46601
Hope Avenue Homes, South Bend Storm Drainage Calculations 3/29/21	r S end, India
SiteScapes, Inc.Area III & IV - Site InformationProject Area23,661 sq.f.t = 0.543 acresTotal Non-impervious areas13,330 sq.ft. = 0.306 acresTotal Impervious areas10,331 sq.ft. = 0.237 acresBuilding5,051 sq.ft.Drive3,997 sq.ft.Walks1,283 sq.ft.	C H I T Suite 200
Weighted C = $(0.306)(0.30) + (0.237)(0.95)$ = 0.317 = 0.584 0.543 Min. C = 0.60	ALLI AR 929 Lincolnway East,
City of South Bend requirements: 25 yr, 24 hr storm Modified Rational Method with Infiltration Calculated Infiltration Rate (per Geotechnical report 104 in/hr) 3 Safety Factor = (104) / (3.0) = 34 in/hr Drainage Bed = 6.25' x 98.52' = 615.75 SF	
Ground Infill Rate = 615 sf (34 in/hr) / 12 / 3600 = 0.48 cfs Storm Intensity "I" Inflow Ground Infilltration Storage	AROOSOUA3 STATEOF MDIAN AROUSOUA3
Duration 25 year Rate "Q" Rate Rate Required Storage (hrs) (in/hr) (cfs) (cfs) (cfs) (CuFt) 0.083 8.240 2.68 0.48 2.205 0.02 664 0.167 6.310 2.06 0.48 1.576 0.02 955 0.250 5.190 1.69 0.48 1.211 0.03 1,099 0.500 3.670 1.20 0.48 0.716 0.03 1,299 Peak	
1.002.3800.780.480.2950.021,0722.001.4600.480.48-0.0040.00-313.001.0500.340.48-0.138-0.03-1,5026.000.6280.200.48-0.275-0.14-5,99812.000.3580.120.48-0.363-0.36-15,82824.000.2040.070.48-0.414-0.83-36,027	South Bend Heritage
Storm Retention Storage RequiredPeak Discharge1,299 CuFt6% Siltation Factor78 CuFtTotal Storage Required1,377 CuFt	Sou t Heri
DRAINAGE STONE	HOPE AVENUE HOMES 2923/2929 Hope Avenue South Bend, IN 46615
= 6.25' x 4.5' = 28.12 SQ.FT. @ 7.12 L.F. CHAMBER LENGTH = 200.21 CU.FT. GROSS STONE VOLUME CHAMBER STORAGE AREA = CHAMBER @ 30" x 51" x 85.4" = 46.2 CU.FT.	DATE: BID DATE: 4/2/21
CHAMBER STONE STORAGE AREA = 200.21 CU.FT. STONE AREA LESS 46.2 CU.FT. CHAMBER = 154.01 CU.FT. NET STONE AREA VOLUME	
= 154.01 CU.FT. STONE AT 35% = 53.90 CU.FT. STONE VOLUME PLUS CHAMBER @ 46.2 CU.FT. = 100.1 CU.FT. VOLUME PER CHAMBER <u>CHAMBER STORAGE</u>	© 2021 ALLIANCE ARCHITECTS
13 SECTIONS OF CHAMBER AT 100.1 CU.FT. EACH = 1301 CU.FT. STORAGE DRYWELL #1 - 1,800 GAL = 240 CU.FT. TOTAL STORAGE PROVIDED = 1,541 CU.FT.	ALL RIGHTS RESERVED
TOTAL STORAGE REQUIRED = 1,377 CU.FT.	C2.1



VOLUME

- = 276.06 CU.FT. STONE AT 35%
- = 96.62 CU.FT. STONE VOLUME PLUS 2 CHAMBERS @ 92.4 CU.FT.
- = 189.02 CU.FT. VOLUME PER 2 CHAMBERS
- CHAMBER STORAGE
- 9 SECTIONS OF 2 CHAMBERS AT 189.02 CU.FT. EACH = 1,701 CU.FT. STORAGE STORAGE REQUIRED = 1,634 CU.FT.

CONCRETE COLLAR

48"x48"x8" THICK

DC-780 6" INSPECTION PORT DETAIL

CHAMBER SYSTEM - STORMWATER CAPACITY

2 NOT TO SCALE

CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS

12" NYLOPLAST INLINE DRAIN BODY W/SOLID HINGED COVER PART# 2712AG6IP* SOLID COVER: 1299CGC*

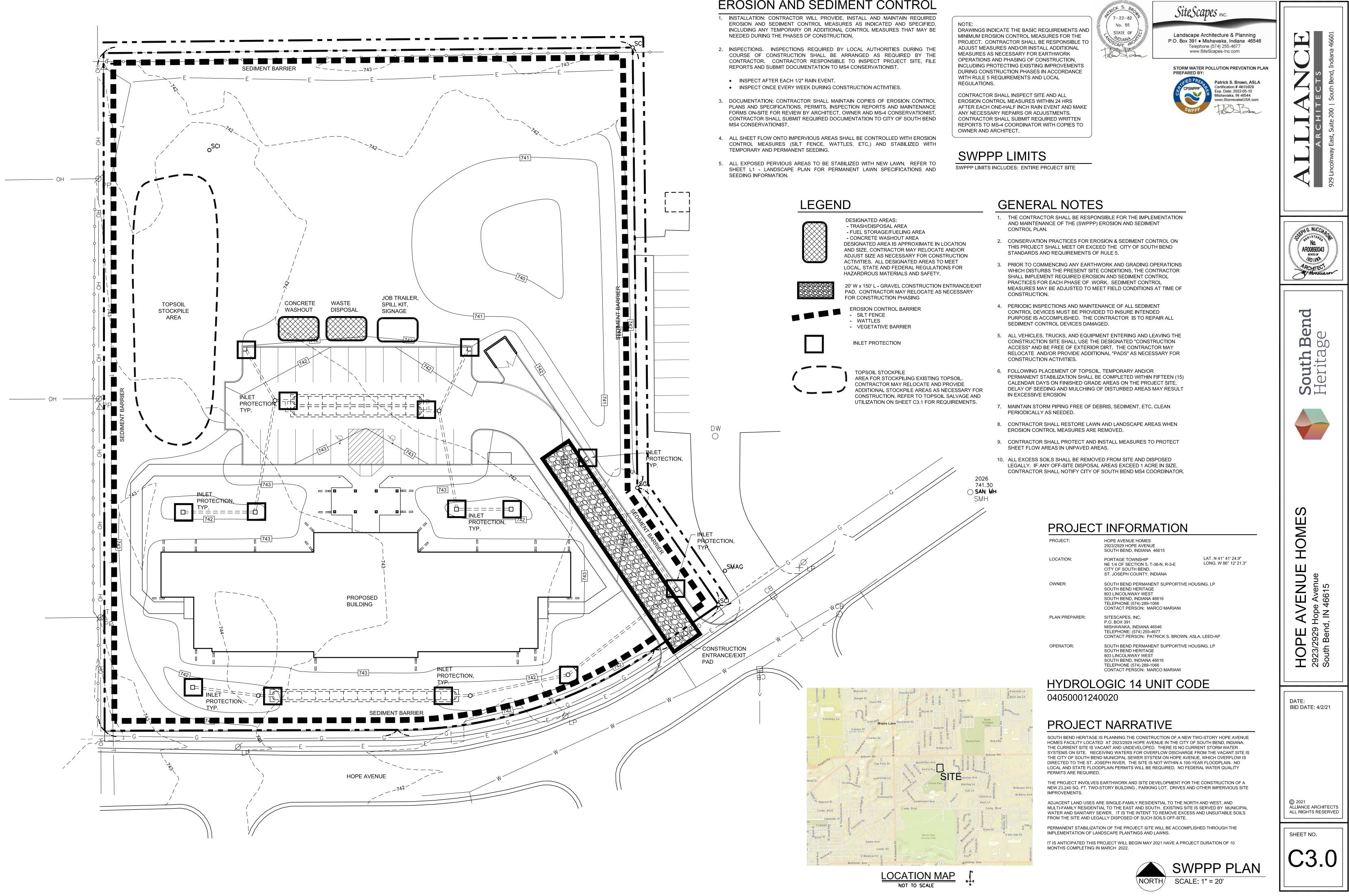
6" SDR35 PIPE

- 6" INSERTA TEE PART# 6P26FBSTIP* INSERTA TEE TO BE CENTERED ON CORRUGATION CREST

- DC-780 CHAMBER

* THE PART# **2712AG6IPKIT** CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION

STORM DRAINAGE DETAILS



EROSION AND SEDIMENT CONTROL

TOPSOIL (SALVAGE AND UTILIZATION)

Requirements

Material: Normally darker, friable and loamy surface soil taken from areas that have not been stripped or graded. Storage Area: To be kept free of stumps, roots, rocks and construction debris.

Application

- Salvaging and Storcking Topsoil 1. Prior to stripping topsoil, install any site specific downslope practices needed to
- control reunoff and sediment. 2. Stockpile the material in accessible locations that nither interfere with other
- construction activities or block natural drainage; install silt fences to trap sediment. 3. If topsoil is stockpiled for more than 15 days, it shall be temporarily seeded, covered with a tarp. or surrounded by a sediment barrier.

Spreading Topsoil

- 1. Prior to spreading topsoil, grade the subsoil and roughen the top 3-4 inches by diskina.
- 2. Do not spread topsoil when site is wer, muddy or frozen. Spread topsoil evenly to a depth of at least 4 inches, then compact lightly.
- 4. After spreading, grade and stabilize.

Maintenance

Inspect newly topsoil areas weekly and after each $\frac{1}{2}$ inch rain or greater storm event until vegetation is established.

Repair eroded or damaged areas and revegetate.

SILT FENCE

Requirements

- 1. Trench 8 inches minimum depth, flat bottom or V-shaped, filled with compacted soil or gravel to bury lower portion of support wire and/or fence fabric.
- 2. Support posts to be 2" x 2" hardwood posts set at least 18 inches below grade. 3. Spacing of posts 8 foot maximum if fence supported by wire, otherwise 6 ffet for
- maximum strength fabric without wire backing. 4. Fence height to be sufficient so depth of impounded water does not exceed 18
- inches at any point along fence line. 5. Support wire (optional) 14 guage, 6" mesh wire fence. (Required if using standard
- strength fabric). 6. Fence fabric is woven or non-woven geotextile fabric with specified filtering efficiency, tensile strength and containing UV inhibitors and stabilizers to ensure six month minimum life at temperatures 0 to 120 degrees F.

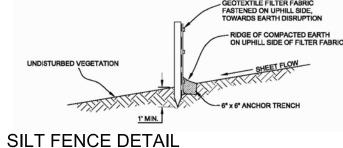
Installation

- 1. Along the entire intended fence line, maintain contour as much as possible, dig an 8 inch deep flat bottom or V-shaped trench.
- 2. On the downslope side of the trench, drive the post at least 18 inches into the
- 3. Fasten support wire fence to the upslope side of the posts, extending it 8 inches into trench (to be used only with standard strength fabrics). 4. Run a continuous length of geotextile fabric along upstream site of posts, avoiding
- joints in low points in the fence line. 5. If a joint is necessary, nail the overlap to the nearest post with wood lath.
- 6. Place the bottom 1-foot of fabric in the 8 inch deep trench, extending the remaining 4 inches of fabric toward the upslope side. 7. Backfill the trench with compacted earth.

Maintenance

- 1. Inspect silt fence after each $\frac{1}{2}$ inch rain or greater storm event. 2. If fence fabric tears, starts to decompose, or becomes ineffective, replace the
- affected portion. 3. Remove deposited sediment when it reaches half the height of the fence at its lowest
- point or is causing the fabric to bulge. 4. Take care to avoid undermining the fence during clean out.
- 5. After watershed has been stabilized, remove fence and sediment deposits, bring the disturbed area to grade and stabilize.

SILT FENCE SPACING 6'- 10' MAX. ROLL JOINT ROLL JOINTS



VEHICLE AND EQUIPMENT MAINTENANCE MANAGEMENT MEASURES

Description and Purpose

Prevent or reduce the contamination of storm water resulting from vehicle and equipment maintenance by running a "dry and clean site". Outdoor vehicle or equipment maintenance is a potentially significant source of storm water pollution. Activities that can contaminate storm water include engine repair and service, changing or replacement of fluids, and outdoor equipment storage and parking. The best option would be to perform maintenance activities at an off-site facility. If this option is not available then work should be performed in designated areas only, while providing cover for materials stored outside, checking for leaks and spills, and containing and cleaning up spills immediately.

Implementation

If maintenance must occur on-site, use designated areas only, located away from drainage courses and protected from storm water run-on and runoff.

- Establish a schedule to inspect all vehicles and equipment for leaks and excessive buildup of contaminants.
- Conduct vehicle and equipment maintenance at one location away from storm drains. - Cover maintenance areas with a permanent roof to help minimize storm water runoff.
- Use drip pans and drop cloths to catch drips and spills when draining or replacing fluids. - Avoid using water to clean work areas. Try to use dry methods to clean up materials.
- Clean small spills with rags, larger spills with absorbent material. - Use nontoxic substitutes for chemicals where possible.
- Do not use storm drains for disposal of materials.
- Store recyclable materials (oil, batteries, etc.) for proper disposal.
- When possible, connect processing areas to a sanitary sewer or wastewater treatment facility - Recycle greases, oil and filters, antifreeze, cleaning solutions, batteries, and transmission
- fluids through proper disposal agencies. - Buy recycled engine oil, engine coolant, tires, and other vehicle parts when possible.
- Train employees on reducing pollutant discharge, spill prevention, and cleanup. - Be sure that employees are aware of all illegal actions associated with pollutant disposal.

CONCRETE WASHOUT

Description and Purpose

The following steps will help reduce storm water pollution from concrete wastes. Discuss the concrete management techniques described in this BMP, such as handling of concrete waste and washout, with the redi-mix concrete supplier before any deliveries are made.

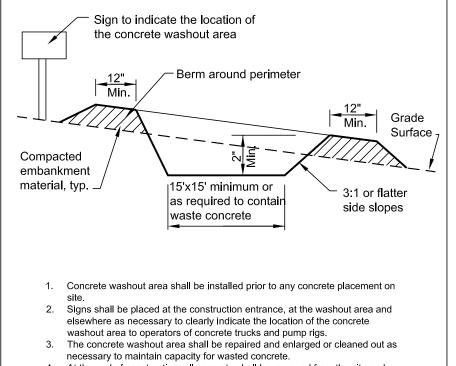
Implementation

Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.

- Store dry and wet materials under cover away from drainage areas.
- Avoid mixing excess amounts of fresh concrete. - Perform washout of concrete trucks off-site or in designated areas only.
- Do not wash out concrete trucks into storm drains, open ditches, streets or streams. - Do not allow excess concrete to be dumped on-site, except in designated areas.

For On-Site Washout

- Locate washout area at least 50 feet from storm drains, open ditches or water bodies. - Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
- Wash out wastes into the temporary pit where the concrete can set, be broken up and then disposed properly. - Avoid creating runoff by draining water to a bermed or level area when washing concrete to remove fine particles and expose the aggregate.
- Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile or dispose in the trash.



- At the end of construction, all concrete shall be removed from the site and
- disposed of at an approved waste site.
- When the concrete washout area is removed, the disturbed area shall be graded and grass seeded of otherwise stabilized in a manner approved.

CONCRETE WASHOUT AREA

TEMPORARY SEEDING

Requirements

- Site and seedbed preparation: Graded and fertilizer applied.
- Grass Seed: Annual rye grass selected on basis of optimum planting dates. Fertilize: Use 400 lbs. per acre, 12-12-12 analysis or equal.
- 4. Mulch: 1.5 to 2.0 tons per acre, straw must be dry, unchopped and free of undesirable seeds. Mulc must cover 75% of soil surface.

Application

Site Preparation 1. Install practices needed to control erosion, sheet flow areas, sedimentation and water runoff, such temporary diversions, sediment traps and silt fences. 2. Grade site as specified in the construction plan.

- Seedbed Preparation
- 1. Apply fertilizer as recommended by soil test. If testing is not done, apply 400 lbs. per acre of 12-12-12 analysis or equal. 2. Till the soil to obtain a uniform seedbed, working the fertilizer into the soil 2-4 inches deep with a d of rake operated across the slope.

Seeding

- . Use an annual rye grass seed mixture, apply at 40 lbs. per acre minimum.
- 2. Apply seed uniformly with a drill or cultipacker seeded or by broadcasting, and cover to required
- 3. If drilling or broadcasting, firm seedbed with a roller or cultipacker. 4. Mulch all seeded areas, anchor all mulch by crimping or tackifying. Use erosion control fabric on a slopes greater than 4:1. Curlex Erosion Blanket by American Excelsoir Co. or equal.

Maintenance

- Inspect weekly and after $rac{1}{2}$ inch rain or greater storm event until after stand is adequately establishe (80% density), reseed as necessary.
- 2. Check for erosion damage after storm events and repair; reseed and mulch as necessary.

INLET PROTECTION

Requirements

1. Work covered under this item consists of installing a Dandy Bag® inlet protection system. The purpose is to keep silt, sediment and construction debris out of the storm water system.

Materials

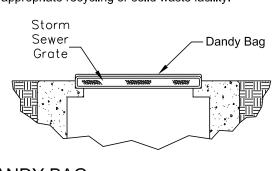
- 1. The Dandy Bag® inlet protection unit shall be a sewn in the U.S.A. geotextile fabric unit fitted to the individual grate(s) and completely enclosing the grate(s).
- 2. The Dandy Bag® shall have lifting devises to allow manual inspection of the storm water system
- 3. The Dandy Bag® unit shall utilize an orange monofilament fabric

Installatiion

- 1. Place the empty Dandy Bag® over the grate as the grate stands on end.
- 2. Tuck the enclosure flap inside to completely enclose the grate. 3. Holding the lifting devises, insert the grate into the inlet being careful not to damage the Dandy Bag® unit.

Maintenance

1. The contractor shall remove all accumulated sediment and debris from surface and vicinity of uni after each 1/2" rain event or as directed by engineer/inspector. Dispose of unit no longer in use a an appropriate recycling or solid waste facility.



ENTRANCE/EXIT PAD

Design Requirements

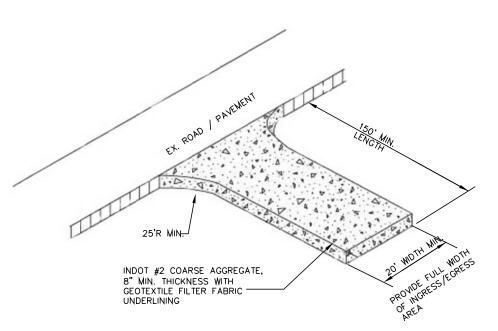
Width - 20 foot minimum Length - 150 foot minimum Material - INDOT #2 Coarse Aggregate Thickness - 8 inch minimum

Installation

- 1. Remove all vegetation and other objectionable material from the foundation area, foundation area to be undercut 4" below natural ground elevation.
- Install geotextile fabric on the graded foundation area prior to stone placement.
- 3. Place stone to dimensions and grade shown in the erosion sediment control plan, leaving the surface smooth and sloped for drainage.
- 4. Divert all surface runoff and drainage from the stone pad towards project site.

Maintenance

- 1. Inspect entrance pad for sediment deposits weekly and after $\frac{1}{2}$ inch rain or greater storm events or heavy use.
- Reshape pad as needed for drainage and runoff control. Topdress with clean stone as needed.
- Remove mud and sediment tracked or washed onto public road with brushing or sweeping. No flushing or sediment off the street.



TEMPORARY CONSTRUCTION ENTRANCE/EXIT PAD

VEHICLE & EQUIPMENT MAINTENANCE & WASHING AREAS

Vehicle and Equipment Fueling Management Measures Vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and reduce

or eliminate contamination or storm water. This can be accomplished by using off-site facilities, fueling in designated grass only, enclosing or sovering stored fuel, implementing shill control

	designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures.
ulch	 Cover fueling areas to help intercept precipitation and reduce storm water runoff. Design fueling areas to drain inward to a sump or an oil-water separator. Perimeter drains can be installed as an alternative to inward-draining areas. Discourage "topping off" fuel tanks and install vapor recovery nozzles to control drips. Where appropriate, use drip pans to catch spills. Clean up spills immediately to minimize safety hazards and prevent spreading.
	 Mop up small spills or use absorbent materials. Remove absorbent material promptly. Transport industrial equipment to a designated fueling area rather than using mobile fueling. Make sure that all employees are trained in proper fueling and cleanup procedures.
h as	Vehicle and Equipment Washing and Cleaning Management Measures When possible, use commercial washing and cleaning facilities that employ proper pollution control measures.
	 Use designated wash areas (preferably covered). Use bermed wash areas or other measures to contain wash water. Stabilize entrances and on-site roads to reduce off-site transportation of sediments.
disk	 Designate a paved washing site for vehicles where the water will drain down slope. Divert wash water to a vegetated area so it can percolate into the ground or use at-grade storm drains fitted with inserts. Inserts hang down into a drain's catch basin to filter out solids and other pollutants from rinse water runoff. Trapped materials can be removed or the inserts replaced.
-11	 Wash vehicles with biodegradable, phosphate-free detergent and use nontoxic cleaning products. If possible, use "dry" cleaning methods (such as wiping down) rather than hosing equipment. Avoid pressure washing on site if commercial washing facilities are available. If commercial facilities are not practical, design a pressure-washing area that can capture and properly dispose of or recycle all of the wash water. Use high-pressure, low-volume washers to reduce overspray.
all	 When multi-stage washing is practiced, wash and rinse waters can be recycled by reusing the water from the final stage for the first pre-wash and rinse stage. Properly contain, label, and dispose of cleanup materials (rags, towels, absorbent materials). Train employees on proper washing methods.
ned	
	Inspection and Maintenance Inspect and verify that BMP's are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly to verify continued BMP implementation.
	- Keep ample supplies of spill cleanup materials on-site.
_	 Maintain waste fluid containers in leak proof condition. Vehicles and equipment should be inspected on each day of use. Leaks should be repaired immediately or the problem vehicle(s) or equipment should be removed from the project site. Inspect equipment for damaged hoses and leaky gaskets routinely. Repair or replace as needed.
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- or the problem vehicle(s) or equipment should be removed from the project site. - Inspect equipment for damaged hoses and leaky gaskets routinely. Repair or replace as needed.

STORMWATER POLLUTANT PREVENTION

CONSTRUCTION POTENTIAL POLLUTANT SOURCES POLLUTANT SOURCES DURING CONSTRUCTION INCLUDE EQUIPMENT FUEL & OILS, CONSTRUCTION DEBRIS AND TRASH/DEBRIS DISPOSAL. CONTRACTOR SHALL PROTECT OPEN SHEET FLOW AREAS IN UNPAVED AREAS WITH TEMPORARY SEEDING, MULCH, ETC, REMOVE SEDIMENT FROM SHEET FLOW AREAS,

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE SITE AND IMPROVEMENTS FROM POTENTIAL POLLUTANTS THROUGH DESIGNATED FUEL STORAGE & FUELING AREAS AND DESIGNATED TRASH DISPOSAL AREAS. LOCATION OF DISPOSAL AREAS MAY BE ADJUSTED BY CONTRACTOR TO FIT SITE CONDITIONS AND CONTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN DISPOSAL AREAS IN CLEAN AND NEAT ORDER

IATERIAL HANDLING & SPILL PREVENTION PLAN

SUBSOILS.

CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN FUELING AREAS, CONSTRUCTION TRASH, CONSTRUCTION STAGING AND CONTRACTOR'S PARKING AREAS IN A SAFE AND CLEAN MANNER. DESIGNATED AREAS SHALL BE CONTAINED TO PROHIBIT SPILLAGE OF POLLUTANTS OUTSIDE THE AREAS.

EMERGENCY PROCEDURES WILL BE REVIEWED AT PRE-CONSTRUCTION MEETING WITH ALL PARTIES. EMERGENCY CONTACTS, HAZMAT AND PHONE NUMBERS WILL BE VERIFIED FOR PROJECT SITE IN CASE OF ACCIDENTAL POLLUTANT SPILLAGE, ETC. CONTRACTOR IS REQUIRED TO MAINTAIN WRITTEN EMERGENCY PROCEDURES AND CONTACT LIST ON-SITE DURING CONSTRUCTION PERIOD, EMERGENCY PHONE/HAZMAT **TELEPHONE: 911**

POST CONSTRUCTION POLLUTANT SOURCES POLLUTANT SOURCES AFTER CONSTRUCTION ARE MINIMAL. THERE WILL BE NO ON-SITE FUELING STATION OR OPERATIONS THAT ARE HIGH RISK. POTENTIAL POLLUTANT SOURCES WILL MAINLY BE LIMITED TO FUELS/OILS FOR SNOW REMOVAL / LAWN MOWING / LANDSCAPE MAINTENANCE EQUIPMENT. ALL NON-PAVEMENT AREAS WILL BE LAWN WHICH WILL REDUCE SURFACE RUNOFF OF STORM WATER AND ALLOW FILTRATION INTO

POST DEVELOPMENT MAINTENANCE

- POST DEVELOPMENT AND LONG TERM MAINTENANCE FUNCTIONS TO BE PERFORMED BY OWNER INCLUDE:
- 1. PERIODIC INSPECTIONS OF STORM STRUCTURES AND RETENTION AREAS TO REMOVE ANY BUILD UP OF SEDIMENTS AND TRASH. FUNCTION TO BE PERFORMED ON AN ANNUAL BASIS TO ENSURE THE STRUCTURES AND PIPING DOES NOT FILL UP WITH SEDIMENT AND POLLUTANTS. ALL SEDIMENT AND POLLUTANTS SHALL BE REMOVED AND STRUCTURES AND PIPING CLEANED AS NECESSARY TO ENSURE PROPER FUNCTION. . REPAIR AND RESTORE ANY LAWN EROSION ON AN AS NEEDED BASIS.
- SWEEP PARKING LOT AND DRIVES ON A REGULAR BASIS TO REMOVE SEDIMENT AND DEBRIS. FUNCTION TO BE PERFORMED TWICE A YEAR MINIMALLY - ONCE IN THE FALL BEFORE WINTER AND ONCE IN THE SPRING AFTER WINTER, OTHERS SWEEPINGS AS NEEDED,

POST-DEVELOPMENT AND LONG TERM MAINTENANCE FUNCTIONS TO BE INCLUDED IN OWNER'S STANDARD OPERATIONS MANUAL TO ESTABLISH BOTH SHORT AND LONG TERM CARE.

STORM DRAINAGE CALCULATIONS

SUMMARY	
PRE-DEVELOPMENT CONDITIONS	7,781 CU. FT.
POST-DEVELOPMENT CONDITIONS	15,474 CU. FT.
INCREASE	7,693 CU. FT.
REFER TO SHEET C2.0 FOR ADDITIONAL	STORM WATER CALCULATIONS

PROPOSED CONSTRUCTION SCHEDULE

	2021								2022		
	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
SITE PREP / EARTHWORK / UTILITY WORK	_										
SITE DEVELOPMENT / CONSTRUCTION											
BUILDING CONSTRUCTION											
LAWNS / LANDSCAPE WORK											
INSTALL EROSION CONTROL MEASURES PRIOR TO REPAIR AND PLACE ADDITIONAL EROSION CONTR								-			

SOIL STABILIZATION CHART

	2021								2022		
	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
TEMPORARY GRASS SEEDING											
LAWNS / LANDSCAPE WORK											

SOIL STABILIZATION IS REQUIRED ON ALL GRADED AREAS SCHEDULED TO BE INACTIVE FOR MORE THAN 15 DAYS. PERMANENT SEEDING MAY BE USED FOR SOIL STABILIZATION IF APPLIED WITHIN 15 DAYS OF GRADING.

SOIL CHARACTERISTICS



SOILS MAP THE SOILS ON THE SITE, AS IDENTIFIED IN THE "SOIL SURVEY OF ELKHART COUNTY, INDIANA"

STANDARDS AND SPECIFICATIONS

2 7-22-82

No. 55

STATE OF

NDIANA

RANITIKAN

ALL EROSION CONTROL PRACTICES TO BE ACCORDANCE WITH FEDERAL, STATE, LOCAL AND THE STATE OF INDIANA - RULE 5.

EROSION & SEDIMENT CONTROL PRACTICES THE MAJORITY OF THE GRADING AND DRAINAGE WORK WILL OCCUR DURING THE SPRING AND SUMMER. EROSION AND SEDIMENT CONTROL PRACTICES WILL CONSIST MAINLY OF MAINLY OF SEDIMENT TRAPPING AND RUNOFF DIVERTING PRACTICES. THESE INCLUDE TEMPORARY PRACTICES SUCH AS NATURAL VEGETATIVE BARRIERS, SILT FENCES, GRAVEL CONSTRUCTION ENTRANCE/EXIT PAD AND TEMPORARY SEEDING

PERMANENT STABILIZATION

AS THE CONSTRUCTION ACTIVITY PROGRESSES, TEMPORARY PRACTICES WILL BE REMOVED AS PERMANENT MEASURES ARE READY TO BE PLACED. FINISHED AREAS SHALL RECEIVE GRASS SEED AS PER LANDSCAPE PLAN. ALL REMAINING TEMPORARY MEASURES WILL BE REMOVED AT COMPLETION OF CONSTRUCTION AND STABILIZATION OF AREAS.

STORMWATER MANAGEMENT CONSIDERATION STORMWATER DRAINAGE WILL BE DIRECTED TO ON-SITE STORM DRAIN SYSTEM. OVERFLOW DISCHARGE IS TO THE ST. JOSEPH RIVER WATERSHED.

NORTH

UgvAUrban Land-Tyner Complex	Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)	Ν
0 to 1 percent slopes	Depth to water table: More than 80 inches	
	Frequency of flooding: None	
Map Unit Setting	Frequency of ponding: None	
National map unit symbol: 5k72	Available water storage in profile: Low (about 4.7 inches)	
Elevation: 570 to 1,540 feet		Ш
	Interpretive groups	
Mean annual air temperature: 47 to 50 degrees F	Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3s	ENU Avenue 3615
Frost-free period: 140 to 170 days	Hydrologic Soil Group: A	15 C
Farmland classification: Not prime farmland	Other vegetative classification: Trees/Timber (Woody	AVENI Hope Avenu , IN 46615
	Vegetation)	
Map Unit Composition	Hydric soil rating: No	
<i>Urban land:</i> 50 percent <i>Tyner and similar soils:</i> 40 percent		AVI Hope I, IN 4
Minor components: 10 percent	Minor Components	
	On ele	
transects of the mapunit.	Osolo	PE 2929 F
	Percent of map unit: 5 percent	
Description of Urban Land	Landform: Outwash plains, outwash terraces	HOF 2923/2 South
	Landform position (two-dimensional): Backslope, shoulder, summit	
Setting	Landform position (three-dimensional): Side slope	
Landform: Outwash plains	Down-slope shape: Convex	
Interpretive groups	Across-slope shape: Convex	
Land capability classification (irrigated): None specified	Other vegetative classification: Trees/Timber (Woody	
Land capability classification (nonirrigated): 8	Vegetation)	
Other vegetative classification: Trees/Timber (Woody	Hydric soil rating: No	DATE:
Vegetation)		BID DATE: 4/2/21
Hydric soil rating: Unranked	Bristol	
	Percent of map unit: 3 percent	
	Landform: Outwash plains, outwash terraces Landform position (two-dimensional): Backslope, shoulder,	
Description of Tyner	summit	
Setting	Landform position (three-dimensional): Side slope Down-slope shape: Convex	
Landform: Outwash plains	Across-slope shape: Convex	
Landform position (two-dimensional): Backslope, shoulder,	Other vegetative classification: Trees/Timber (Woody	
summit Landform position (three-dimensional): Side slope	Vegetation)	
Down-slope shape: Convex Across-slope shape: Convex	Hydric soil rating: No	
Parent material: Sandy outwash		
	Coloma	
Typical profile	Percent of map unit: 2 percent	© 2021
Ap - 0 to 12 inches: loamy sand	Landform: Outwash plains, moraines	ALLIANCE ARCHITEC
Bw1 - 12 to 20 inches: loamy sand	Landform position (two-dimensional): Backslope, shoulder, summit	ALL RIGHTS RESERV
Bw2 - 20 to 41 inches: sand	Landform position (three-dimensional): Side slope	
Bw3 - 41 to 80 inches: sand	Down-slope shape: Convex	
Properties and qualities	Across-slope shape: Convex	SHEET NO.
Slope: 0 to 1 percent	Other vegetative classification: Trees/Timber (Woody	
Depth to restrictive feature: More than 80 inches Natural	Vegetation)	
drainage class: Excessively drained Runoff class:	Hydric soil rating: No	(``∠ ′
Negligible	· · ·	
		i 1
	SWPPP DETAILS	

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STORM WATER POLLUTION PREVENTION PLAN PREPARED BY

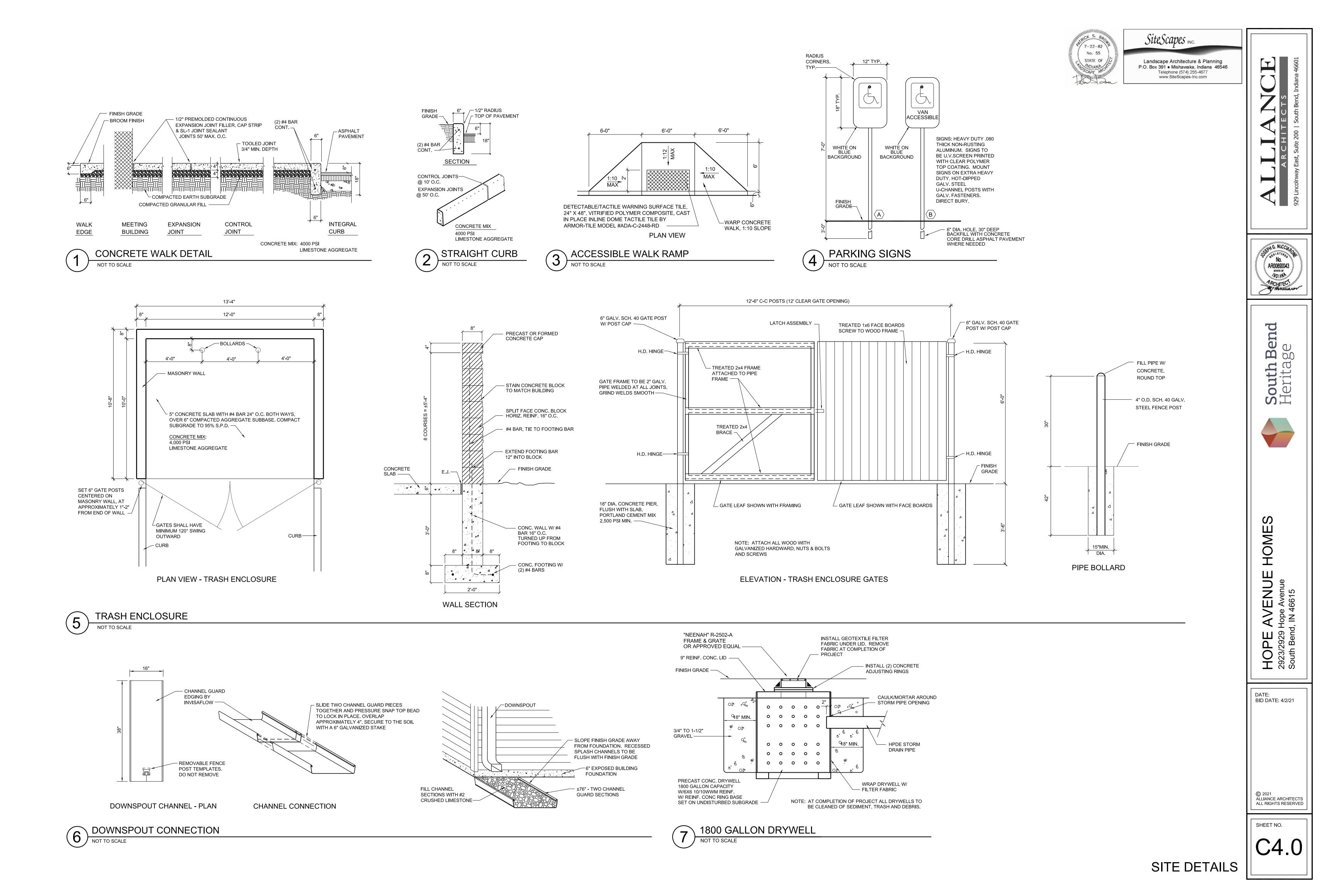


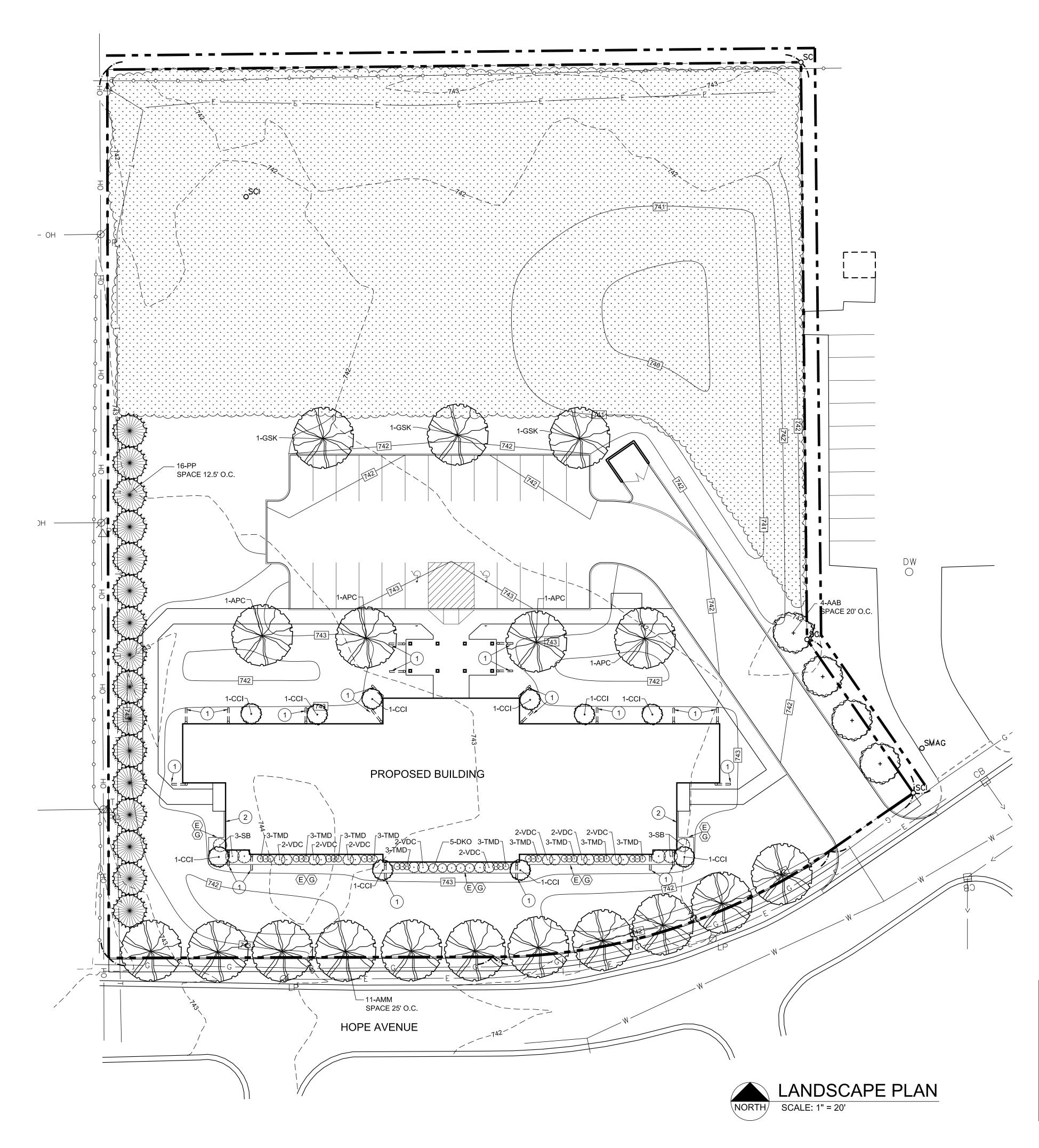


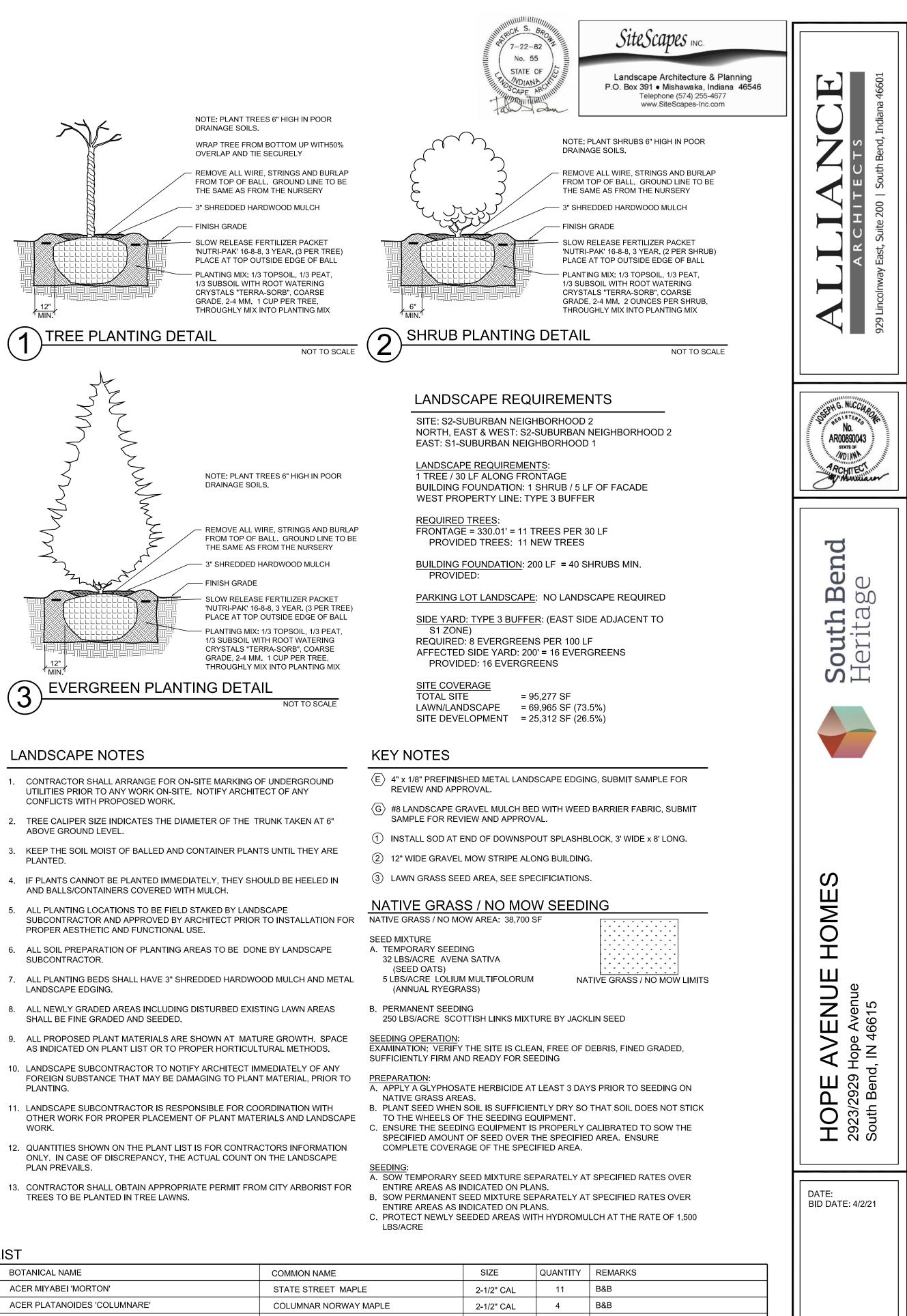












LANDSCAPE NOTES

PLANT LIST

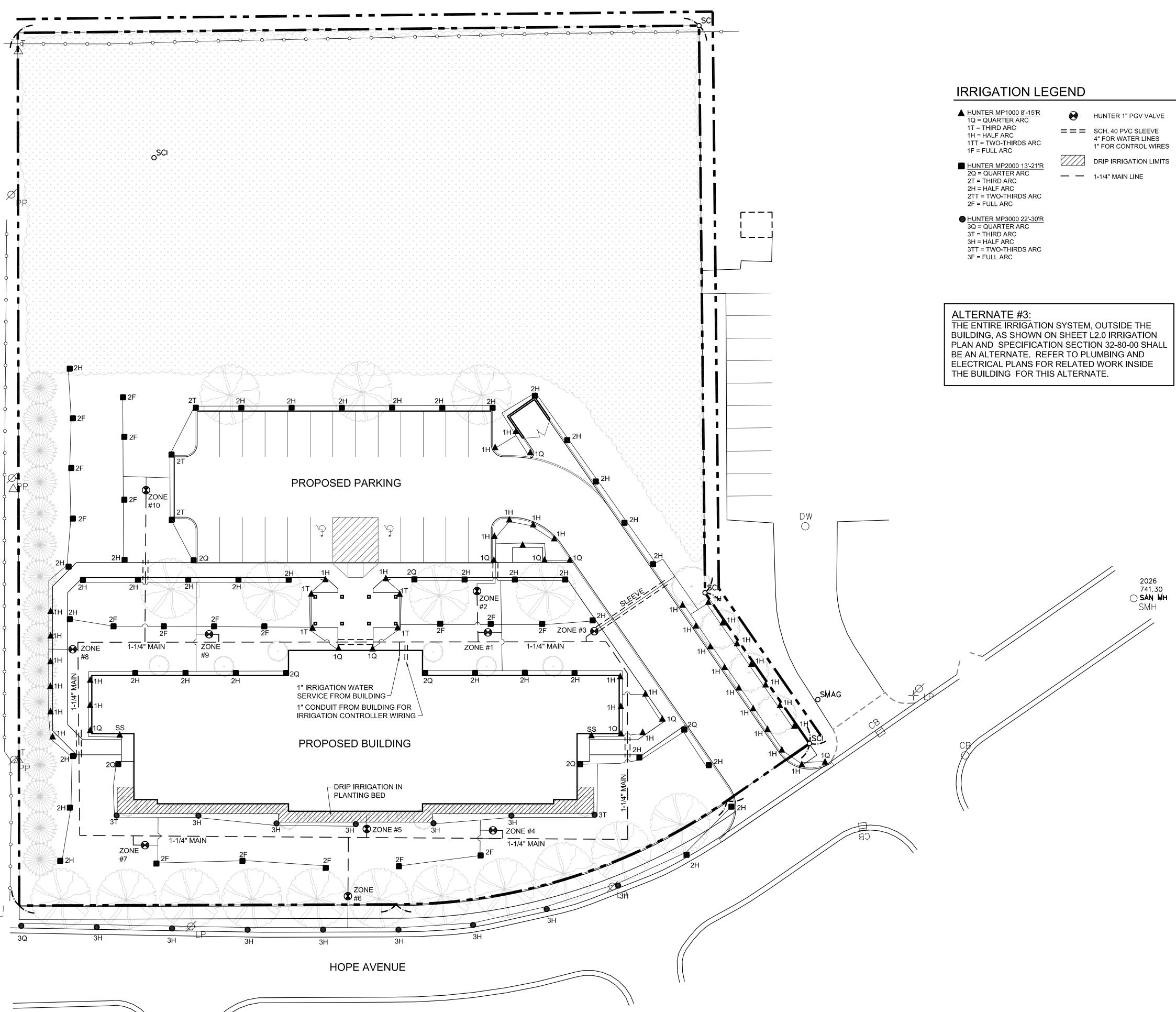
CODE	BOTANICAL NAME
AMM	ACER MIYABEI 'MORTON'
APC	ACER PLATANOIDES 'COLUMNARE'
AAB	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIA
CCI	CRATAEGUS CRUSGALLI 'INERMIS'
DKO	DIERVILLA 'KODIAK ORANGE'
GSK	GLEDITSIA TRIACANTHOS var. INERMIS 'DRAVES'
PP	PICEA PUNGENS var. GLAUCA
SB	SYRINGA x 'BLOOMERANG'
TMD	TAXUS X MEDIA 'DENSIFORMIS'
VDC	VIBURNUM DENTATUM 'CHRISTOM'

B&B, CLUMP FORM ANCE' AUTUMN BRILLIANCE SERVICEBERRY 6' 4 THORNLESS COCKSPUR HAWTHORN 2" CAL 10 KODIAK ORANGE BUSH HONEYSUCKLE 24" 5 STREETKEEPER HONEYLOCUST B&B 2-1/2" CAL 3 B&B COLORADO BLUE SPRUCE 16 8' BLOOMERANG LILAC 24" 6 DENSE SPREADING YEW 30 24" BLUE MUFFIN ARROWWOOD VIBURNUM 36" 16

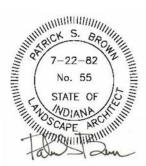
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IRRIGATION NOTES

- 1. SITE PLAN ONLY FOR CONTRACTOR'S INFORMATION. IRRIGATION SUBCONTRACTOR SHALL FIELD VERIFY LAYOUT AND ADJUST FOR SITE CONDITIONS TO PROVIDE FULL COVERAGE.
- 2. ALL IRRIGATION WORK SHALL CONFORM TO LOCAL AND STATE STANDARDS, CODES AND REGULATIONS. IRRIGATION SUBCONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN NECESSARY PERMITS AND INSPECTIONS.
- 3. VERIFY LOCATIONS OF ON-SITE UTILITIES AND WATER SERVICE PRIOR TO INSTALLATION. NOTIFY ARCHITECT OF ANY CONFLICTS.
- 4. REPAIR AND/OR REPLACE ANY EXISTING IMPROVEMENTS TO THEIR ORIGINAL CONDITION IF DAMAGED DURING IRRIGATION WORK.
- 5. IRRIGATION SUBCONTRACTOR WILL ADJUST LOCATION OF ANY SPRINKLER HEAD OR RISER, UP TO 18" IN ANY DIRECTION AT NO ADDITIONAL COST, AFTER REVIEW OF SYSTEM BY ARCHITECT FOR PROPER COVERAGE AND DISTRIBUTION.
- 6. MINIMUM LATERAL PIPE SIZE IS 3/4 INCH.
- 7. IRRIGATION SUBCONTRACTOR WILL INTERCHANGE NOZZLES ON ANY SPRINKLER HEAD REQUIRED FOR PROPER COVERAGE WITHOUT ADDITIONAL COST.
- 8. NO PART OF THE IRRIGATION SYSTEM SHALL BE INSTALLED PRIOR TO FIELD STAKING OF LANDSCAPE PLANTINGS AND BED OUTLINES. IRRIGATION WORK TO BE COORDINATED WITH LANDSCAPE WORK.
- 9. IRRIGATION SUBCONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT KNOWN OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE AREA DIMENSIONS DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION SUBCONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

NOTE IRRIGATION SUBCONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES UNDER PAVEMENTS AND WALKS FOR IRRIGATION SYSTEM. COORDINATE WITH OTHER TRADES. INSTALL SLEEVES AT 18" BELOW FINISH GRADE, EXTEND 12" BEYOND EDGE OF WALK AND BACK OF CURB. INCLUDE SLEEVE LOCATIONS ON AS-BUILT DRAWING.

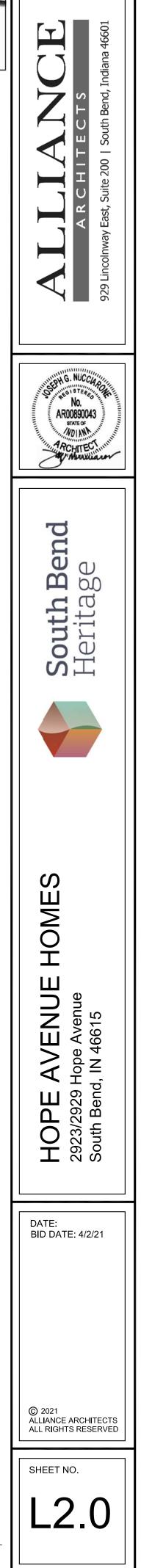
WATER/ELECTRIC SERVICE

WATER SERVICE:

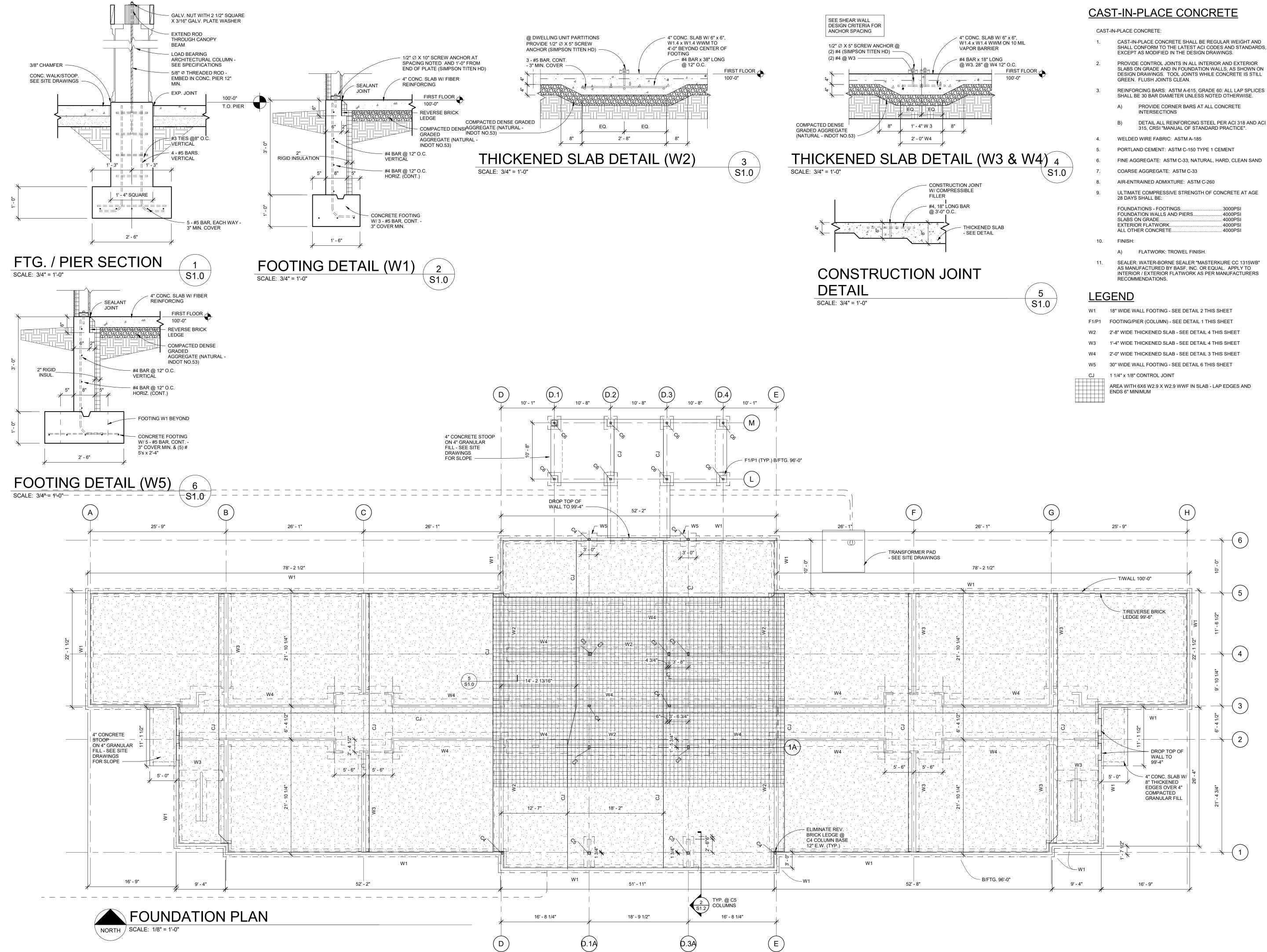
1-1/2" WATER SERVICE FOR IRRIGATION SYSTEM IS LOCATED ON NORTH SIDE OF BUILDING EXTENDED FROM MECHANICAL ROOM FOR SITE IRRIGATION AREAS. REFER TO PLUMBING PLANS. IRRIGATION CONTRACTOR SHALL FIELD VERIFY SERVICES, CONNECT AND EXTEND FOR NEW IRRIGATION SYSTEM. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

ELECTRICAL SERVICE:

1" CONDUIT FOR IRRIGATION SYSTEM IS LOCATED NORTH SIDE OF BUILDING NEAR WATER SERVICE FOR SITE IRRIGATION AREAS. REFER TO ELECTRICAL PLANS. IRRIGATION CONTRACTOR SHALL FIELD VERIFY CONDUIT, CONNECT AND EXTEND FOR CONTROL WIRING FOR NEW IRRIGATION SYSTEM. CONTROLLER TO BE MOUNTED INSIDE MECHANICAL ROOM. ELECTRICAL CONTRACTOR SHALL PROVIDE 20 AMP OUTLET RECEPTACLE FOR CONTROLLER HOOKUP. FIELD VERIFY MOUNTING LOCATION. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.







CAST-IN-PLACE CONCRETE SHALL BE REGULAR WEIGHT AND
SHALL CONFORM TO THE LATEST ACI CODES AND STANDARDS,
EXCEPT AS MODIFIED IN THE DESIGN DRAWINGS.

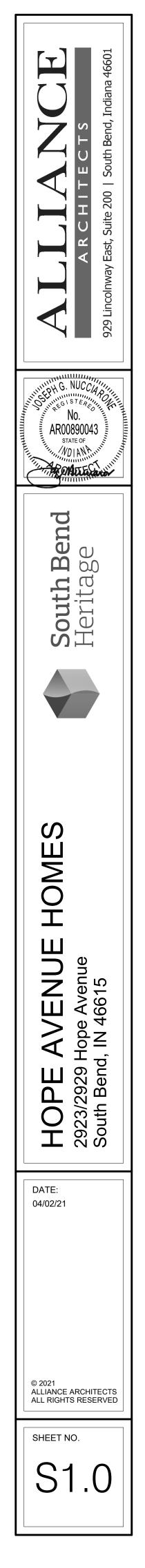
- SLABS ON GRADE AND IN FOUNDATION WALLS, AS SHOWN ON DESIGN DRAWINGS. TOOL JOINTS WHILE CONCRETE IS STILL
- SHALL BE 30 BAR DIAMETER UNLESS NOTED OTHERWISE.
- DETAIL ALL REINFORCING STEEL PER ACI 318 AND ACI

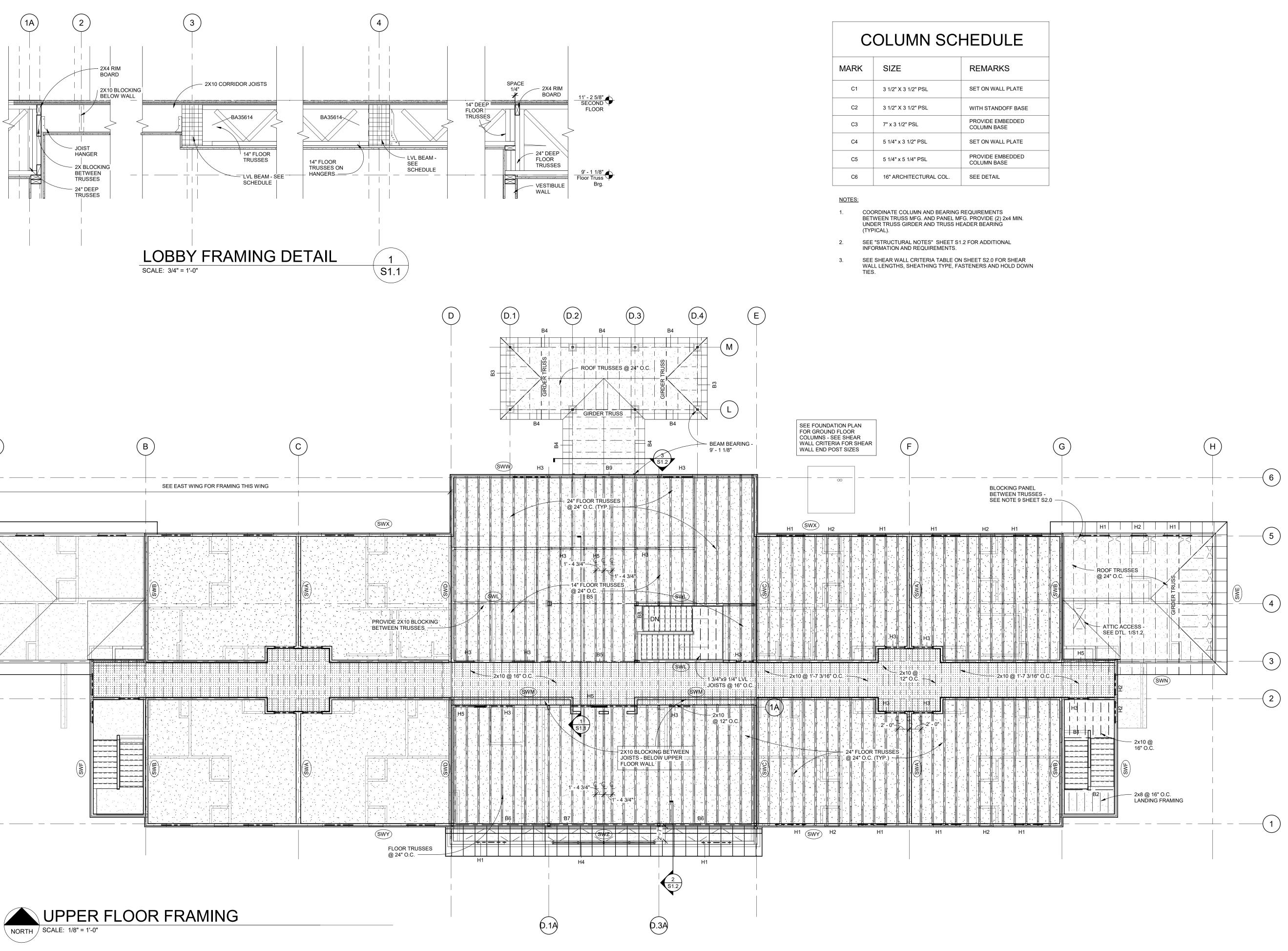
- FINE AGGREGATE: ASTM C-33, NATURAL, HARD, CLEAN SAND
- ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT AGE

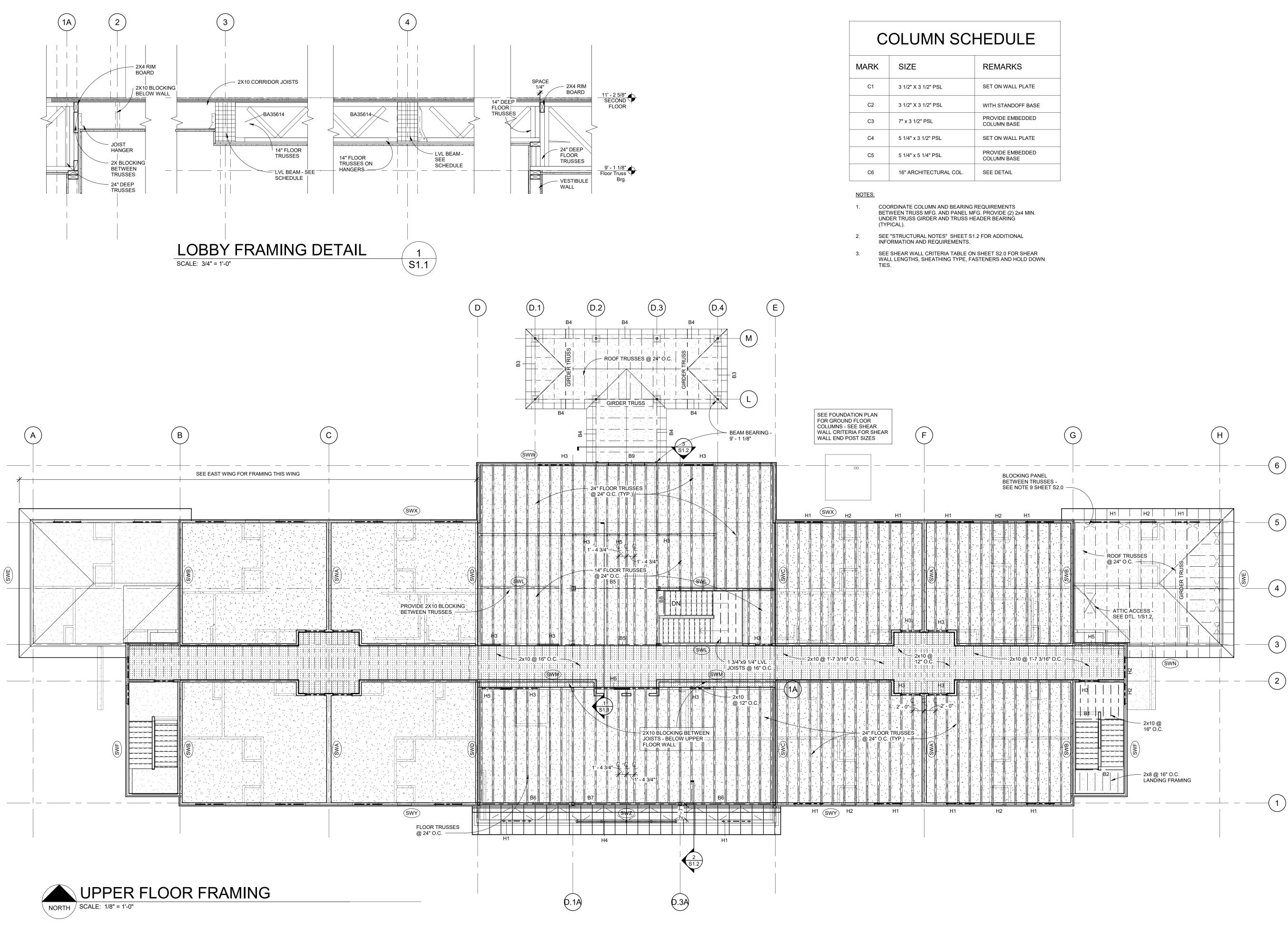
FOUNDATIONS - FOOTINGS	3000PSI
FOUNDATION WALLS AND PIERS	4000PSI
SLABS ON GRADE	4000PSI
EXTERIOR FLATWORK	4000PSI
ALL OTHER CONCRETE	4000PSI

- SEALER: WATER-BORNE SEALER "MASTERKURE CC 1315WB" AS MANUFACTURED BY BASF, INC. OR EQUAL. APPLY TO INTERIOR / EXTERIOR FLATWORK AS PER MANUFACTURERS

AREA WITH 6X6 W2.9 X W2.9 WWF IN SLAB - LAP EDGES AND



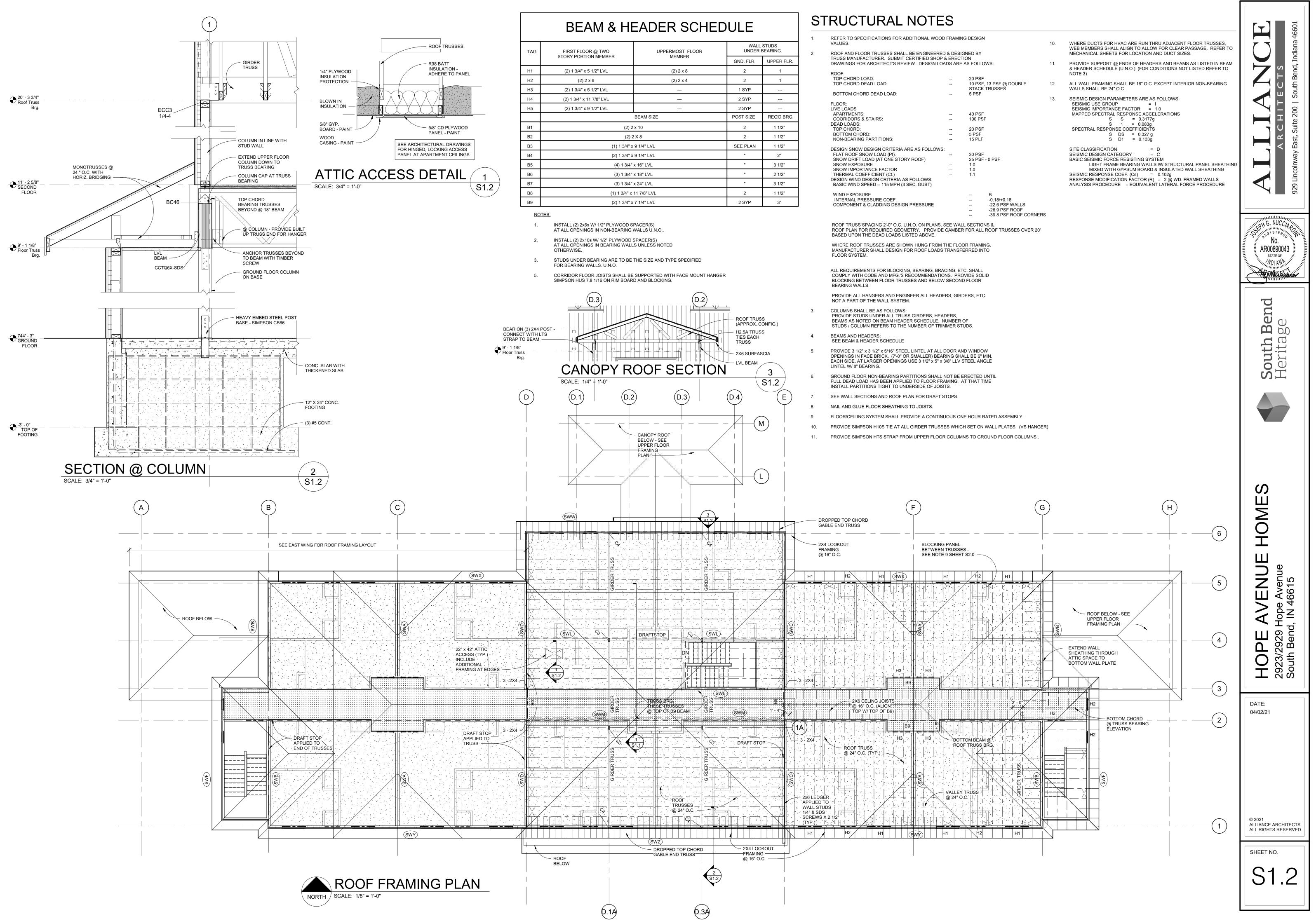






	REMARKS
PSL	SET ON WALL PLATE
PSL	WITH STANDOFF BASE
	PROVIDE EMBEDDED COLUMN BASE
PSL	SET ON WALL PLATE
PSL	PROVIDE EMBEDDED COLUMN BASE
TURAL COL.	SEE DETAIL

8 SEL MULTING "EGISTER No. AR00890043 STATE OF NDIANA Mutuan С South Bend Heritage S OME AVENUE Hope Avenue d, IN 46615 à, HOPE 2923/2929 | South Bend DATE: 04/02/21 © 2021 ALLIANCE ARCHITECTS ALL RIGHTS RESERVED SHEET NO. S1.1



SHEAR WALL MARK	WALL SHEATHING	REQUIREMENTS	FASTENER SPACING			MULTI-STORY	MSHD UPPER FLOOR PLATE OR	MSHD HOLD DOWN ANCHOR	STUDS @ HOLDOWN & PANEL ENDS		
	UPPER FLOOR	UPPER FLOOR	FND. (1/2"Ø ANCHORS U.N.O.)		UPPER FLR. WALL PLATE TO TRUSS	ROOF DECK TO TRUSS	HOLD DOWN SYSTEM (MSHD)	FLOOR PLATE OR END CONDITIONS PER 1/S2.0	BOLT OR HOLD DOWN @ SILL PL	GND. FLR.	UPPER FLR.
	COL. 1	COL. 2	3	4	5	6	7	8	9	10	11
SWA	A1	A1	1/2"Ø X 5" @ 7'-0" O.C.	1/2"Ø THRU BOLTS @ 3'-6" O.C., LTP4 @ 4'-0" O.C.	A34 @	8d NAILS @ 12" O.C.		B & C	DTT2Z-SDS2.5 W 8-1/4"Ø X 1 1/2" SDS & 1/2"Ø X 8" LONG TITEN HD	3 - 2x4	2 - 2x4
SWB			1/2"Ø X 5" @ 8'-0" O.C.	1/2"Ø THRU BOLTS @ 4'-0" O.C., LTP4 @ 4'-8" O.C.	SIMPSON A34 @ 2'-6" O.C.	8d NAILS @ 12" O.C. @ INT. (4) 8D NAILS EA. PANEL @ EXT.		A - B - C & D	DTT2Z-SDS2.5 W 8-1/4"Ø X 1 1/2" SDS & 1/2"Ø X 8" LONG TITEN HD	3 - 2x4	1 - 2x4
SWC	A1/ B1	A1/ B1	1/2"Ø X (5" @ 8'-0" O.C. INT.) 10" @ 6' O.C. EXT.	1/2"Ø THRU BOLTS @ 4'-0" O.C., LTP4 @ 4'-0" O.C.	SIMPSON A34 @ 2'-6" O.C.	(4) 8d NAILS EA. PANEL		A - B - C & D	DTT2Z-SDS2.5 W 8-1/4"Ø X 1 1/2" SDS & 1/2"Ø X 8" LONG TITEN HD	1 - C1	2 - 2x4
SWD			1/2"Ø X (5" @ 8'-0" O.C. INT.) 10" @ 6' O.C. EXT.	BOLTS @	SIMPSON A34 @ 2'-6" O.C.	(4) 8d NAILS EA. PANEL		A - B - C & D	DTT2Z-SDS2.5 W 8-1/4"Ø X 1 1/2" SDS & 1/2"Ø X 8" LONG TITEN HD	1 - C1	2 - 2x4
SWE	B1		1/2"Ø X 10" 6'-0" O.C.	H10A @ EA. TRUSS	H2.5A @ TRUSS	(4) 8d NAILS EA. PANEL		A	DTT2Z-SDS2.5 W 8-1/4"Ø X 1 1/2" SDS & 1/2"Ø X 8" LONG TITEN HD	1 - 2x4	
SWF	~	B1	1/2"Ø X 10" 5'-0" O.C.	1/2"Ø THRU BOLTS @ 2'-6" O.C., LTP4 @ 3'-6" O.C.	SIMPSON A34 @ 2'-6 O.C. LTP4 @ 5'-0" O.C.	(4) 8d NAILS EA. PANEL. H2.5A @ EA. TRUSS TO STAIR WALL	CLP SYSTEMS 3/8" Ø THD. ROD	2-1/2"x2-1/2" STL PLATE - CLP SYSTEMS	1/2"Ø TH. ROD W/ EPOXY ADHESIVE	2 - 2x4	1 - 2x4
SWL	C1	C1	1/2"Ø X 5" @ ENDS W/O HOLD DOWNS	16d NAILS @ 16" O.C.			CLP SYSTEMS 3/8" Ø THD. ROD	2-1/2"x2-1/2" STL PLATE - CLP SYSTEMS	1/2"Ø TH. ROD W/ EPOXY ADHESIVE	2 - 2x4	1 - 2x4
SWM			1/2"Ø X 5" @ ENDS W/O HOLD DOWNS	16d NAILS @ 16" O.C.	H2.5A @ TRUSS		LTT19 @ EACH END BY OPENING @ GND. FLOOR	CS20 W/ (7) 10d NAILS @ EA. END OF STRAP	TITEN HD THD50 400HMG (2 3/4" EMBED)	1 - 2x4	1 - 2x4
SWN	B1	B1	1/2"Ø X 10" 2'-4" O.C.	1/2"Ø THRU BOLTS @ 2'-0"	H2.5A @ EA TRUSS			A & D	HOLD DOWN IS IN ADJOINING WALL	2 - 2x4	
SWW	B2	B2	1/2"Ø X 10" 4'-0" O.C.	16d NAILS @ 10" O.C.	H10A @ EA. TRUSS	(4) 8d NAILS EA. PANEL	CLP SYSTEMS 3/8" Ø THD. ROD PER DETAIL 2/S2.0	2-1/2"x2-1/2" STL PLATE - CLP SYSTEMS	1/2"Ø TH. ROD W/ EPOXY ADHESIVE	2 - 2x4	1 - 2x4
SWX	B1	B1	1/2"Ø X 10" 6'-0" O.C.	16d NAILS @ 1'-4" O.C.	H10A @ EA. TRUSS	(4) 8d NAILS EA. PANEL	CLP SYSTEMS 3/8" Ø THD. ROD PER DETAIL 2/S2.0	2-1/2"x2-1/2" STL PLATE - CLP SYSTEMS	1/2"Ø TH. ROD W/ EPOXY ADHESIVE	2 - 2x4	1 - 2x4
SWY			1/2"Ø X 10" 6'-0" O.C.	16d NAILS @ 1'-4" O.C.	H10A @ EA. TRUSS	(4) 8d NAILS EA. PANEL	CLP SYSTEMS 3/8" Ø THD. ROD PER DETAIL 2/S2.0	2-1/2"x2-1/2" STL PLATE - CLP SYSTEMS	1/2"Ø TH. ROD W/ EPOXY ADHESIVE	2 - 2x4	1 - 2x4
SWZ	B2	B2	1/2"Ø X 10" 6'-0" O.C.	16d NAILS @ 1'-4" O.C.	H10A @ EA. TRUSS	(4) 8d NAILS EA. PANEL	CLP SYSTEMS 3/8" Ø THK ROD PER DETAIL 3/S2.0	2-1/2"x2-1/2" STL PLATE		3-2x4	1 - 2x4

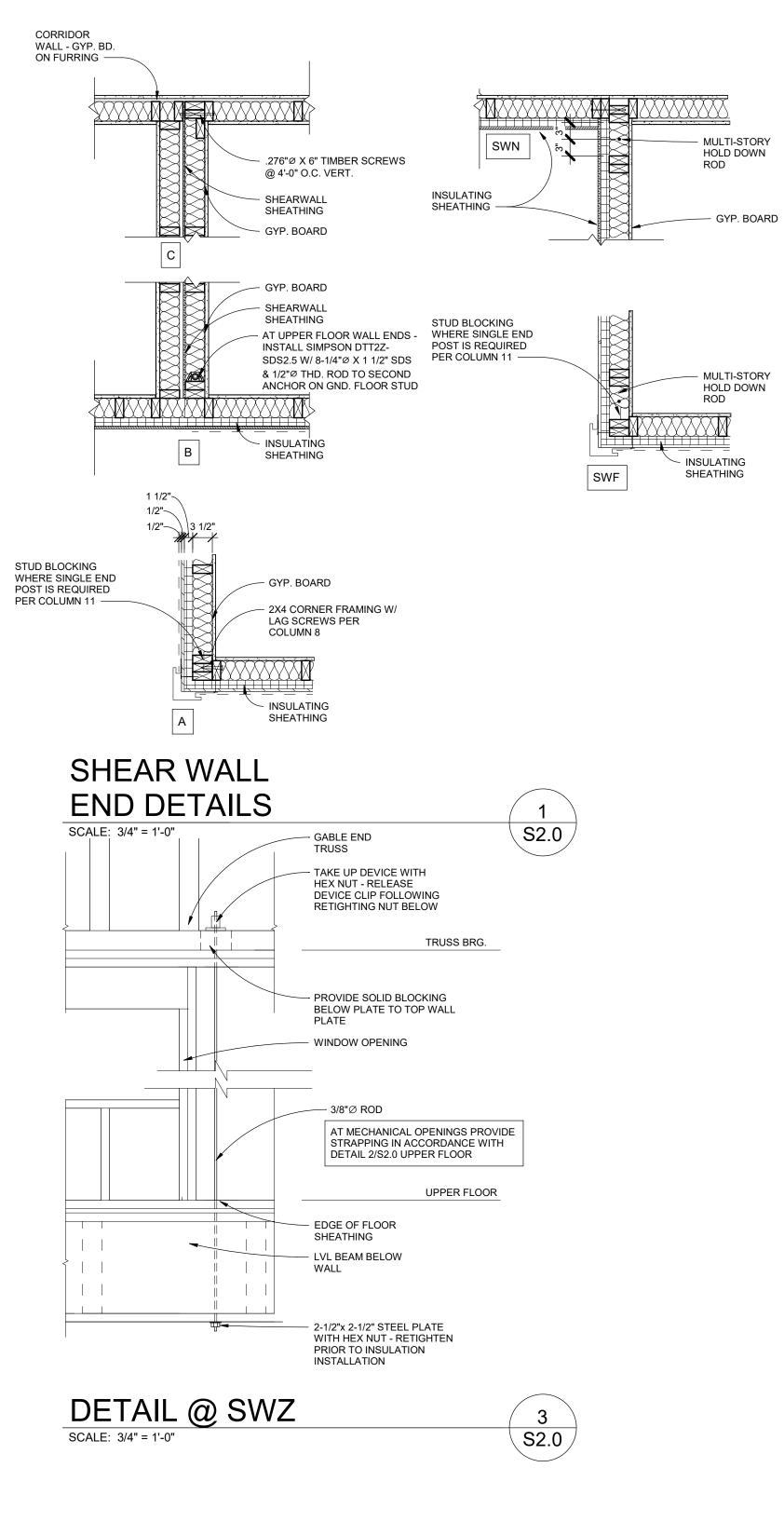
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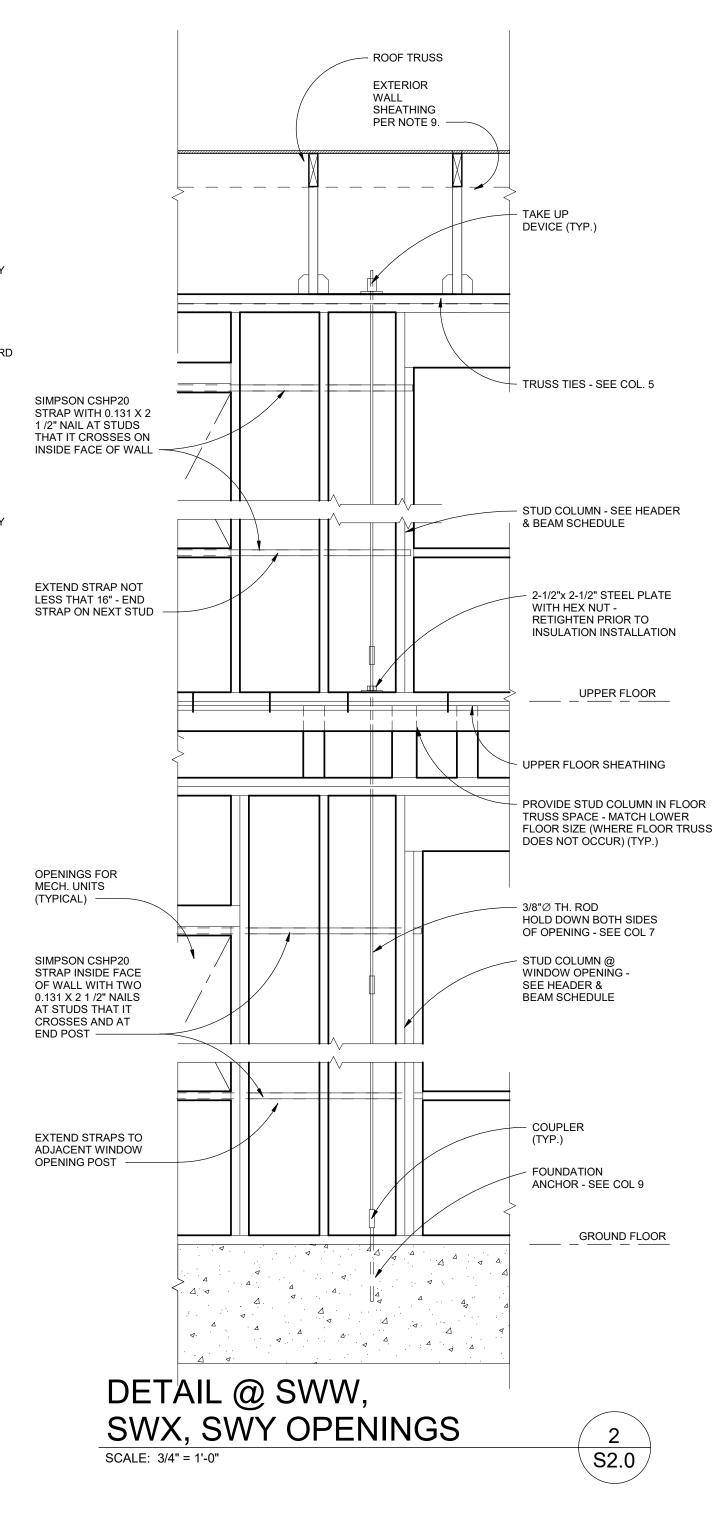
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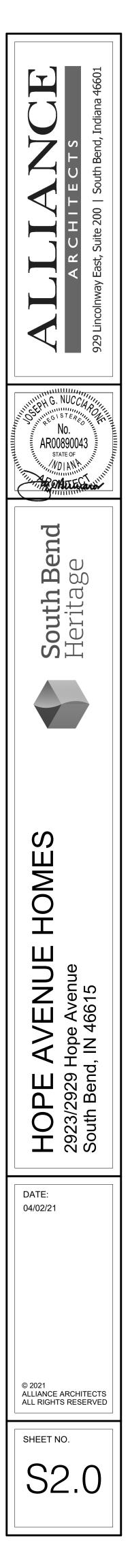
SHEATHING SHALL BE INSTALLED ON THE SAME SIDE AT THE SHEAR WALL CALL OUT AT SINGLE STUD WALLS. AT DOUBLE STUD WALLS INSTALL SHEATHING ON THE SAME SIDE AS THE SHEAR WALL CALL OUT (CAVITY SIDE OF STUD)

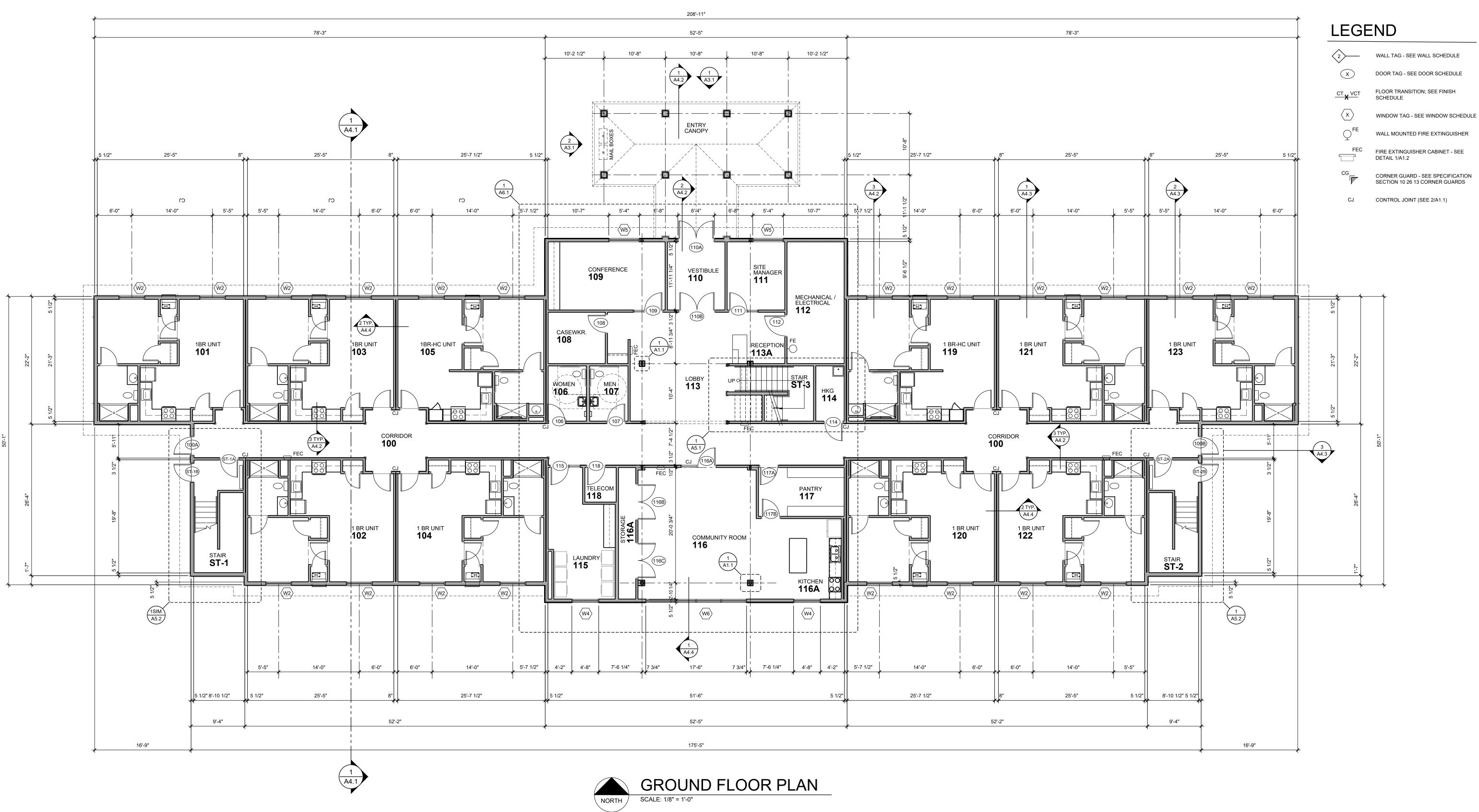
- NAILING IN FIELD OF SHEAR WALL SHEATHING TO BE 12" O.C. MAX. NAILS SHALL BE AT LEAST 3/8" FROM EDGES AT INSULATED SHEATHING, NAILING IN FIELD SHALL BE 6" O.C. MAX. UNLESS NOTED OTHERWISE.
- PROVIDE STUD COLUMN(S) AT EACH END OF SHEAR WALL AS NOTED IN COLUMNS 10 & 11 ABOVE. 3.
- SHEAR WALL SHEATHING PANELS SHALL CONFORM TO DEPT. OF COMMERCE PRODUCT STANDARDS PS 1 OR PS 2. SEE 4. SPECIFICATIONS FOR REQUIRED MATERIAL THICKNESS UNLESS NOTED ON THE SHEATHING SCHEDULE.
- WALLBOARD NAILS SHALL BE 6d COATED NAILS, 1-7/8" LONG, 1/4" HEAD OR WALLBOARD NAIL 1-7/8" LONG, 19/64" HEAD OR 0.12 NAIL W/ 3/8"Ø HEAD.
- TOP PLATE OF SHEAR WALLS TO LAP 4'-0" MINIMUM AND EXTEND OVER INTERSECTING WALLS. 6.
- 7. WHERE NOTED TO INSTALL A SIMPSON H10A TIE @ TRUSS BEARING POINT, INSTALL ON INTERIOR FACE OF WALL. 8. WHERE SHOWN ON THE ROOF PLAN, INSTALL DRAFTSTOP MATERIAL ON SIDE OF TRUSS ABOVE THE SHEAR WALL. NAIL ROOF SHEATHING TO TRUSS PER COL. 6.
- AT TRUSS ENERGY HEEL, INSTALL TRUSS BLOCKING PANELS BETWEEN TRUSSES WHERE INDICATED ON PLAN. FASTEN TO 9. TOP PLATE WITH SIMPSON A23 TIE W/ (4) 0.148" X 1 1/2" NAILS EACH MEMBER. NAIL ROOF SHEATHING TO TOP PLATE OF PANEL PER NAILING NOTED IN COL. 6. SEE WALL SECTIONS.
- 10. AT SWZ, PROVIDE DIAGONAL TRANSFER BLOCKING ABOVE GROUND FLOOR WALL ON TOP OF ROOF TRUSS BOTTOM CHORD. FASTEN TO CROSSING TRUSSES WITH 1/4"Ø X 2 1/2" SDS SCREWS.
- 11. AT SHEAR WALL SWW, SWX, & SWY PROVIDE HOLD DOWN ANCHORS AS NOTED IN COLUMN 7 AND SHOWN IN DETAIL 5/S2.0 AT EITHER SIDE OF WINDOW OR DOOR OPENINGS. PROVIDE SHEAR WALL STRAPPING AS SHOWN ON THE DETAIL AT MECHANICAL
- UNIT OPENINGS. 12. AT STAIR DOUBLE WALL, PROVIDE THRU BOLTS LISTED ABOVE AT UNIT WALL SIDE. EXTEND FLOOR
- LANDING SHEATHING THRU WALL TO UNIT SIDE. IN COLUMN #6, '---' INDICATES THAT NO MULTI-STORY HOLD DOWN IS REQUIRED. PROVIDE WALL INTERSECTION FASTENING AS 13.
- NOTED IN COLUMN #7.
- EXTEND SHEATING FROM BOTTOM PLATE OF WALL TO LOWER PLATE AT THE TOP OF THE WALL, TYPICAL EACH FLOOR. INFILL AT FLOOR 14. LINE WITH INSULATING SHEATHING FASTENED TO TRUSS ENDS AND PLATES WITH NAILING NOTED FOR WALL AREAS.

S	SHEATHING SCHEDULE					
MARK	SHEATHING	NAILS -SPACING EDGE/FIELD	REMARKS			
A1	EXT. WALL SHTH. OR SHEAR WALL SHTH.	8d NAILS @ 6"/12" OR 6d NAILS @ 6"/12"	SPF STUDS @ 24" O.C.			
A2	EXT. WALL SHTH.	8d NAILS @ 4"/12"	R=9.6 SPF STUDS @ 24" O.C. UNO			
B1	INSULATED EXT. WALL SHTH.	0.131" SHANK NAILS @ 3"/6"	INSTALL IN ACCORDANCE W/ MFG. INSTRUCTION			
B2	5/8" GYP. BD. (INTERIOR) / INSULATED EXTERIOR WALL SHEATHING	WALLBOARD NAILS 7" O.C. @ EDGES / 0.131" SHANK NAILS 3"/6"	EDGES BLOCKED			
C1	5/8" GYP. BD. ONE SIDE	WALLBOARD NAILS 7" O.C. @ EDGES	EDGES UNBLOCKED			





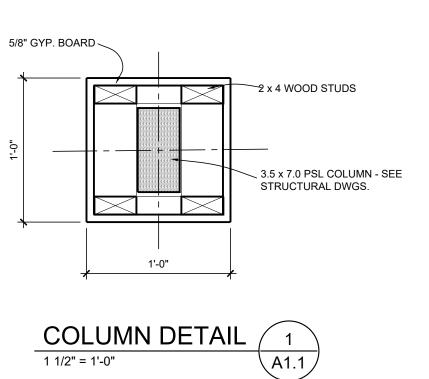




GENERAL NOTES

- 1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE INDIANA BUILDING CODE (AMENDS 2012 INTERNATIONAL BUILDING CODE), AS WELL AS OTHER CODES AND REGULATIONS.
- 2. MAINTAIN SAFE AND CLEAR PASSAGE IN ALL REQUIRED EGRESS AREAS. DO NOT STORE DEMOLITION OR CONSTRUCTION MATERIALS IN EGRESS PASSAGES OR PUBLIC WAYS. CONDUCT OPERATIONS TO PREVENT TO INJURY TO ALL PERSONS AND PROPERTY.
- 3. PROTECT PUBLIC AREAS FROM CONSTRUCTION AREAS USING SUITABLE BARRIERS AND WALLS CONFORMING TO APPLICABLE CODES.
- 4. VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS . REPORT DISCREPANCIES TO THE ARCHITECT UPON DISCOVERY.
- 5. DIMENSIONS ON DRAWINGS ARE TAKEN FROM FACE OF EXISTING CONSTRUCTION TO FACE OF STUD, TO FACE OF MASONRY, TO CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
- 6. ALL CHANGES TO PLANS AND FIELD MODIFICATIONS SHALL BE APPROVED BY THE ARCHITECT.
- 7. IN INTERIOR OR EXTERIOR BEARING WALLS OF WOOD CONSTRUCTION, PLACE WOOD STUD DIRECTLY UNDER EACH FLOOR/CEILING AND ROOF TRUSSES - SEE STRUCTURAL FRAMING PLANS S3 AND S4 FOR LINTEL BEARING REQUIREMENTS.
- 8. FIREBLOCK AND DRAFTSTOP CONCEALED SPACES IN ACCORDANCE WITH IBC SECTION 717 CONCEALED SPACES, AS FOLLOWS:
- A. REFERENCE IBC SECTION 717.2 FIREBOCKING...FIREBLOCKING SHALL BE INSTALLED TO CUT OFF CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AN EFFECTIVE BARRIER BETWEEN FLOORS, BETWEEN A TOP STORY AND A ROOF OR ATTIC SPACE. FIREBLOCKING SHALL BE INSTALLED IN THE LOCATIONS SPECIFIED IN IBC SECTIONS 717.2.2 THROUGH 717.2.7.

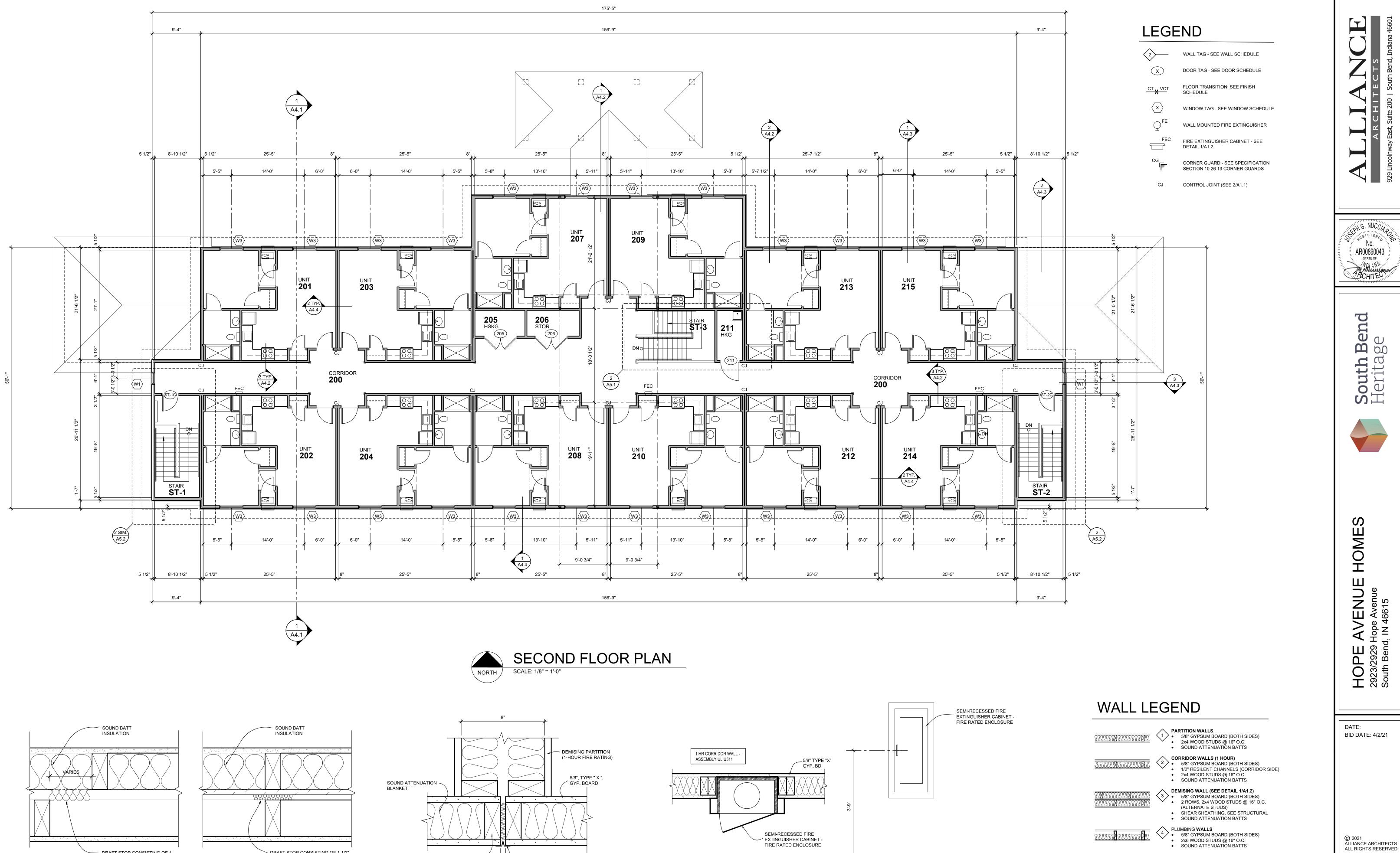
- B. REFERENCE IBC SECTION 717.3 DRAFTSTOPPING IN FLOORS...IN COMBUSTIBLE CONSTRUCTION, DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE FLOOR/CEILING ASSEMBLIES IN THE LOCATIONS SPECIFIED IN IBC SECTIONS 717.3.2 THROUGH 717.3.3.
- 1. REFERENCE IBC SECTION 717.3.2 GROUPS R-2... DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CEILING SPACES IN GROUP R-2 BUILDINGS WITH WITH THREE OR MORE DWELLING UNITS ... SHALL BE LOCATED ABOVE AND IN LINE WITH THE DWELLING UNIT SEPARATIONS...
- REFERENCE IBC SECTION 717.4 DRAFTSTOPPING IN ATTICS IN COMBUSTIBLE CONSTRUCTION, DRAFTSTOPPING SHALL BE INSTALLED TO SUBDIVIDE ATTIC SPACES AND CONCEALED ROOF SPACES IN THE LOCATIONS SPECIFIED IN IBC SECTIONS 717.4.2 AND 717.4.3
- 1. REFERENCE IBC SECTION 717.4.2 GROUPS R-2... DRAFTSTOPPING SHALL BE PROVIDED IN ATTICS, MANSARDS, OVERHANGS, OR OTHER CONCEALED ROOF SPACES SPACES IN GROUP R-2 BUILDINGS WITH WITH THREE OR MORE DWELLING UNITS...SHALL BE LOCATED ABOVE AND IN LINE WITH THE DWELLING UNIT SEPARATION WALLS THAT DO NOT EXTEND TO THE UNDERSIDE OF THE ROOF SHEATHING ABOVE ...
- a. EXCEPTIONS:...IN GROUP R-2 THAT DO NOT EXCEED FOUR STORIES IN HEIGHT, THE ATTIC SPACE SHALL BE SUBDIVIDED BY DRAFTSTOPS ... ABOVE EVERY TWO DWELLING UNITS...
- 9. VENTILATE CONCEALED ROOF SPACES IN ACCORDANCE WITH IBC SECTION 1203.2
- 10. FURNISH AND INSTALL TREATED WOOD BLOCKING IN FRAME WALLS AS REQUIRED FOR ALL TOILET ACCESSORIES, SHELVES, RAILINGS, CHAIR RAILS, ETC.
- 11. DIFFERING FLOOR MATERIALS SHALL MEET UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.

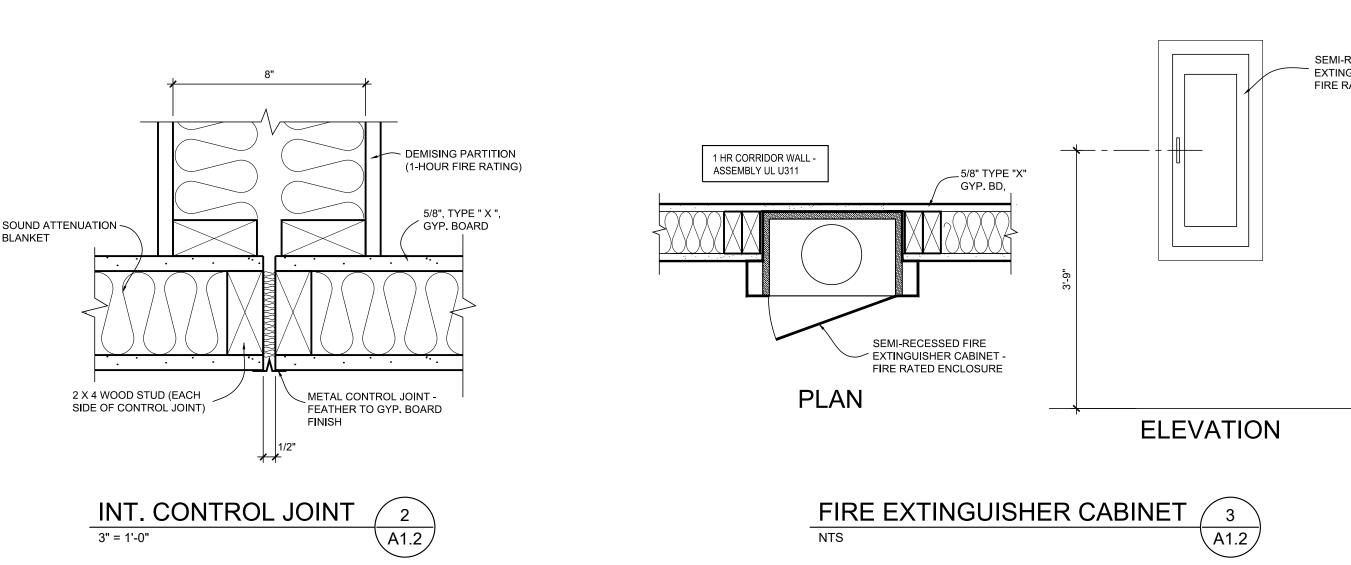


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No. AR00890043 STATE OF MDIAN
South Bend Heritage
HOPE AVENUE HOMES 2923/2929 Hope Avenue South Bend, IN 46615
DATE: BID DATE: 4/2/21
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WALL LEGEND

<u> 19</u> 4411111111111111144111111111	 PARTITION WALLS 5/8" GYPSUM BOARD (BOTH SIDES) 2x4 WOOD STUDS @ 16" O.C. SOUND ATTENUATION BATTS
<u>1000000000000000000000000000000000000</u>	 CORRIDOR WALLS (1 HOUR) 5/8" GYPSUM BOARD (BOTH SIDES) 1/2" RESILENT CHANNELS (CORRIDOR SIDE) 2x4 WOOD STUDS @ 16" O.C. SOUND ATTENUATION BATTS
<u>0000000000000000000000000000000000000</u>	 DEMISING WALL (SEE DETAIL 1/A1.2) 5/8" GYPSUM BOARD (BOTH SIDES) 2 ROWS, 2x4 WOOD STUDS @ 16" O.C. (ALTERNATE STUDS) SHEAR SHEATHING, SEE STRUCTURAL SOUND ATTENUATION BATTS
	 PLUMBING WALLS 5/8" GYPSUM BOARD (BOTH SIDES) 2x6 WOOD STUDS @ 16" O.C. SOUND ATTENUATION BATTS





SHEET NO.

 $\mathbf{\mu}$



SHEAR WALL

CONDITION

- DRAFT STOP CONSISTING OF 1 1/2" MINERAL WOOL BATT

BETWEEN STUDS - LOCATE AT

INSULATION FIT TIGHTLY

10'-0" INTERVALS (MAX.)

NON- SHEAR <u>WALL</u> <u>CONDITION</u>



DRAFT STOP CONSISTING OF 1 1/2"

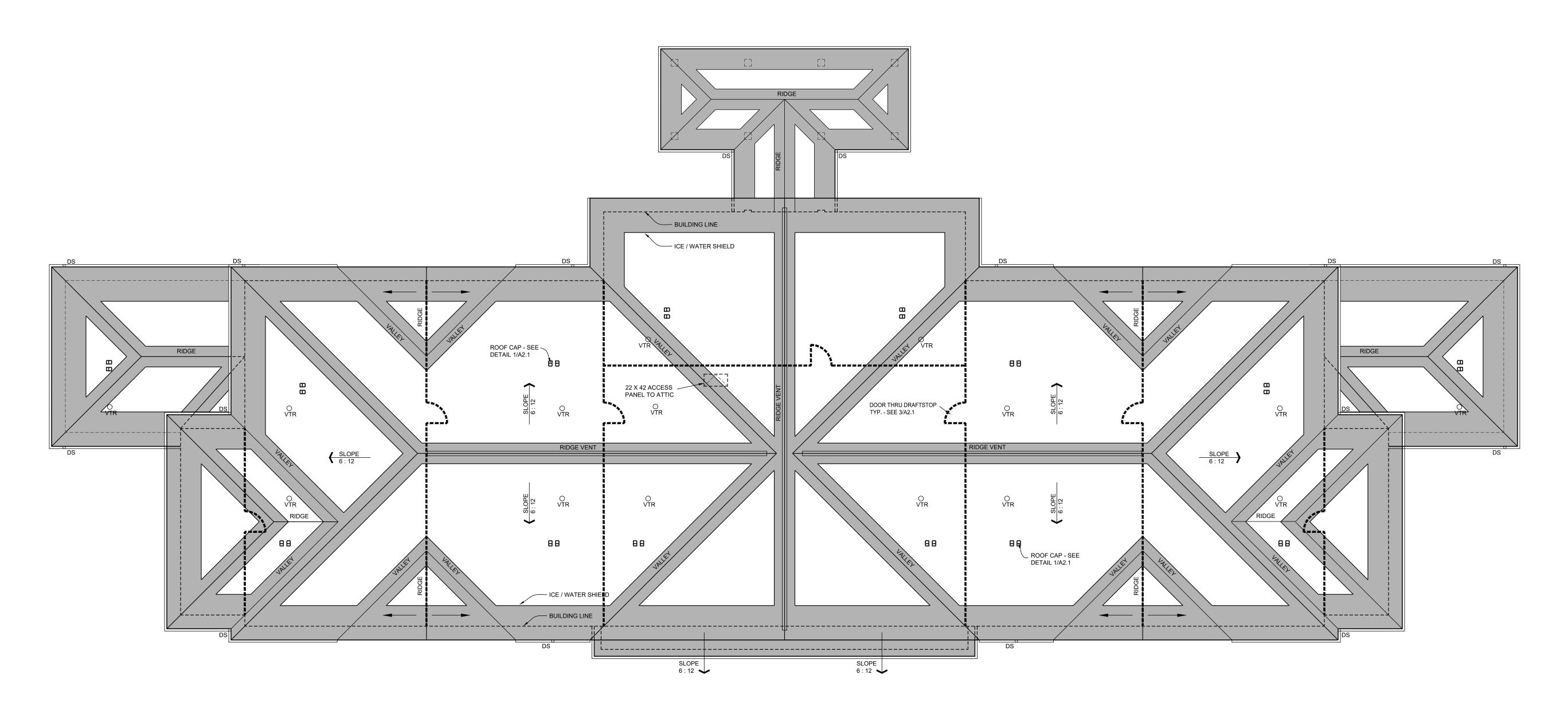
MINERAL WOOL BATT INSULATION

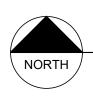
LOCATE AT 10'-0" INTERVALS (MAX.)

FIT TIGHTLY BETWEEN STUDS -

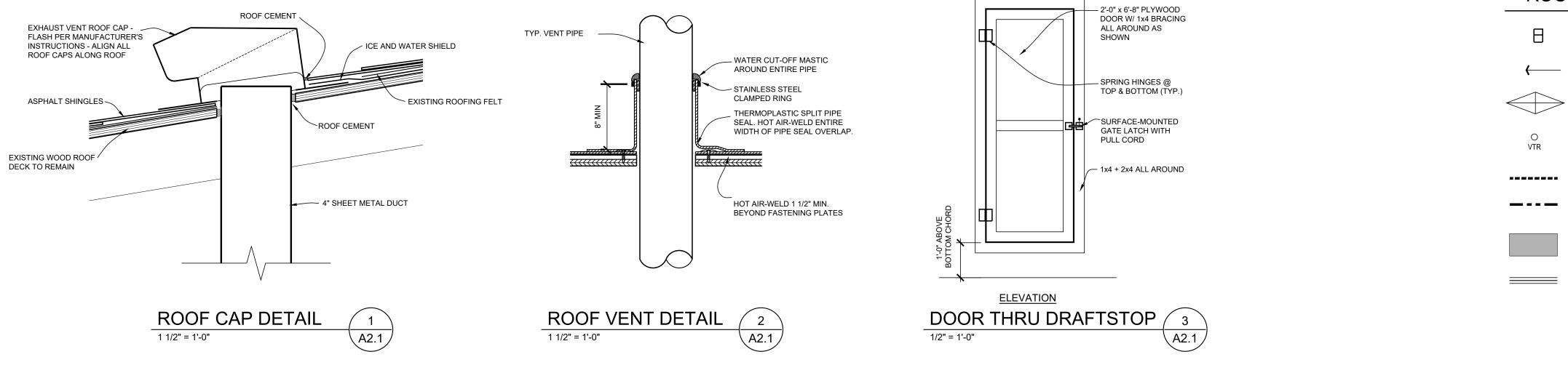








ROOF PLAN SCALE: 3/32" = 1'-0"



ROOF PLAN LEGEND

EXHAUST VENT ROOF CAP - SEE DETAIL 1/A2.1 - COORDINATE W/ MECHANICAL PLANS

SLOPE TO DRAIN

VENT THRU ROOF - SEE

ROOF SADDLE/CRICKET

DETAIL 2/A5 - COORDINATE W/ MECHANICAL PLANS

DRAFTSTOP (IN ATTIC SPACE BELOW)

FIRE BARRIER WALL (THRU ATTIC SPACE BELOW)

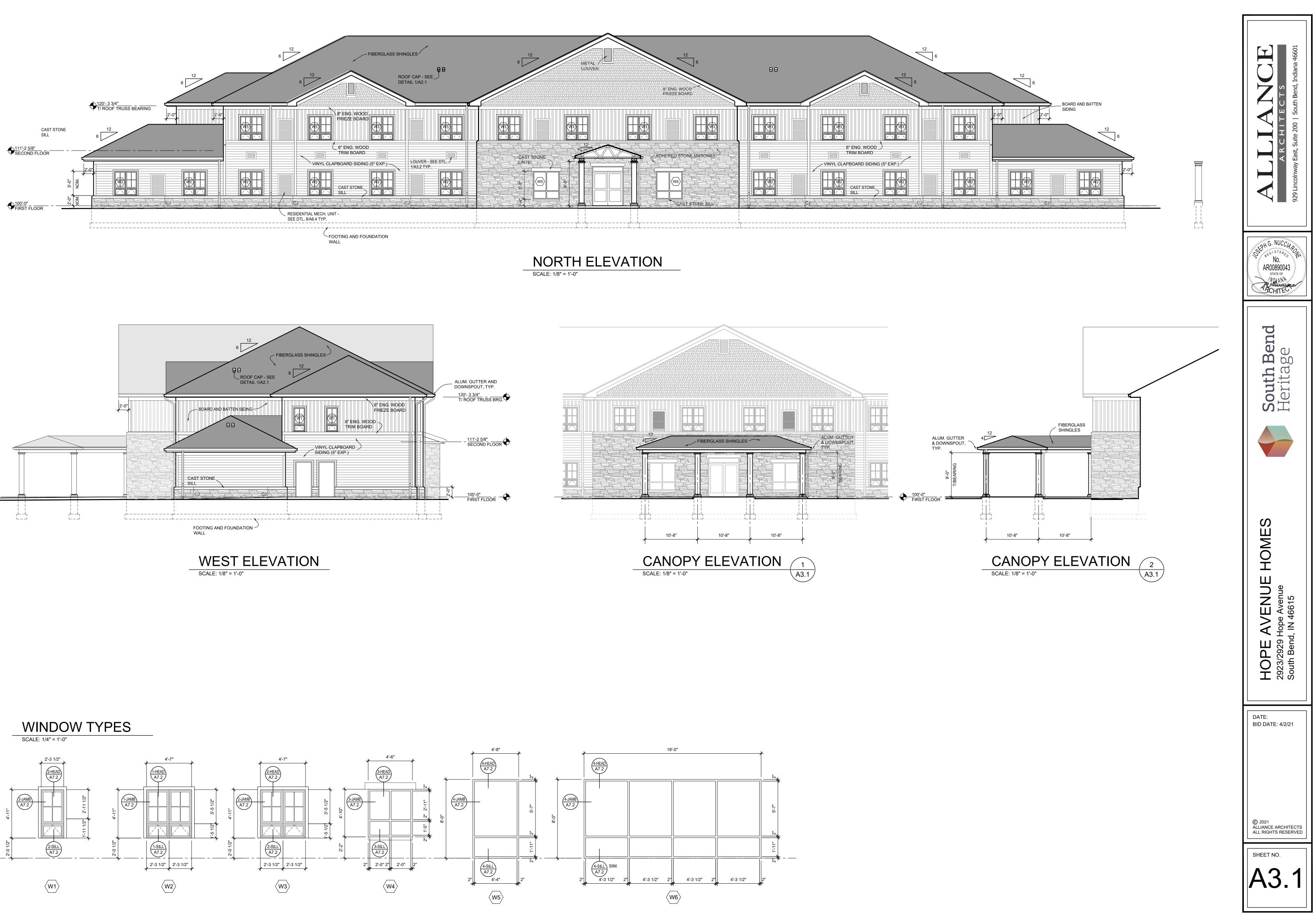
ICE AND WATER SHIELD (PLACE FROM EDGE TO 3'-0" BEYOND EAVE BELOW; PLACE IN VALLEY AND OVER RIDGE)

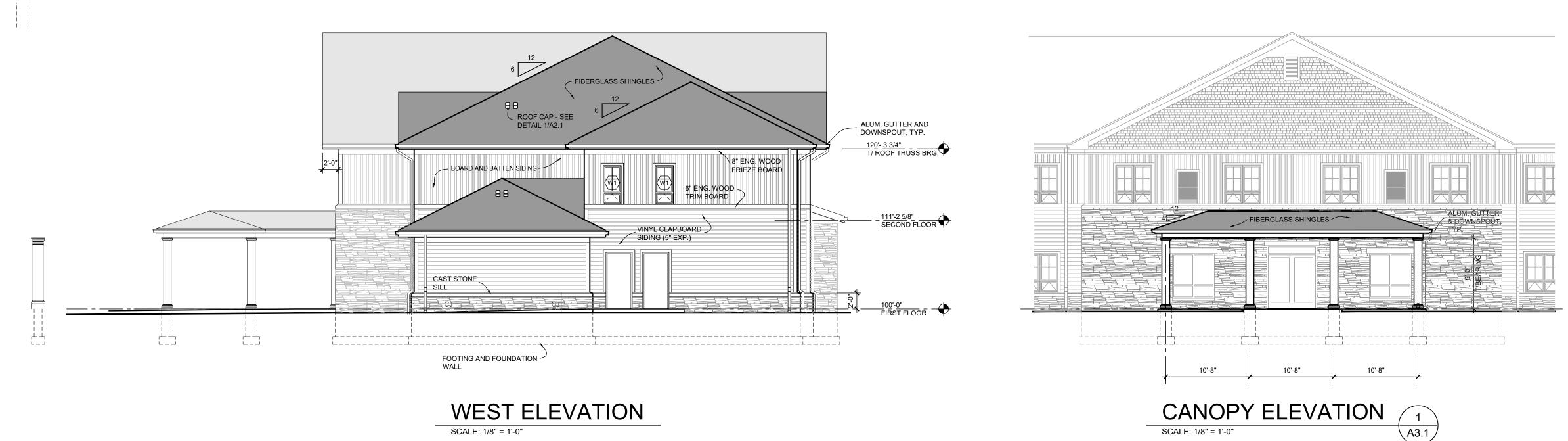
RIDGE VENT

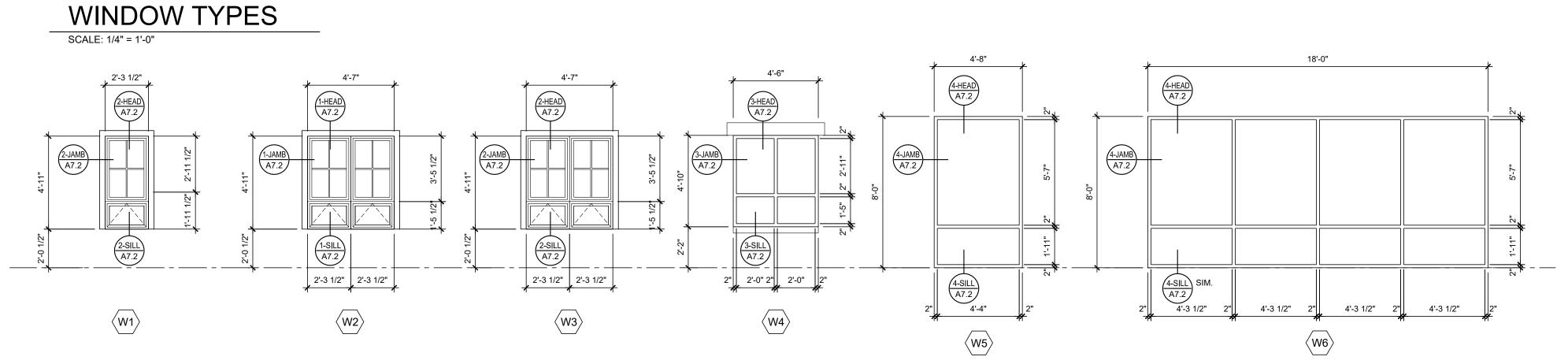
GENERAL NOTES:

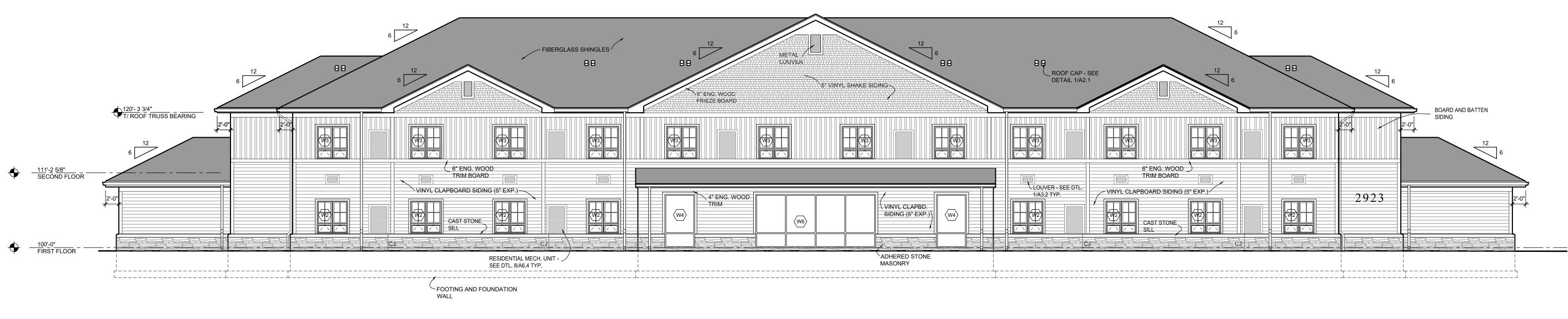
- 1. ALL CHANGES TO PLANS AND FIELD MODIFICATIONS SHALL BE APPROVED BY THE ARCHITECT.
- 2. OPENINGS IN ROOF SHALL BE CUT BY CONTRACTOR WARRANTING ROOF. COORDINATE LOCATION OF ALL OPENINGS WITH THE WORK OF OTHER CONTRACTORS.
- 3. WOOD BLOCKING AND NAILERS SHALL BE PRESSURE TREATED.
- 4. PROTECT ALL ROOF DRAINS FROM CONSTRUCTION DEBRIS. INSPECT AND CLEAR ALL ROOF DRAINS PRIOR TO COMPLETION OF WORK TO ENSURE THAT ALL ROOF DRAINS ARE FREE OF DEBRIS AND FUNCTIONING PROPERLY.
- 5. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ALL ROOF PENETRATIONS.

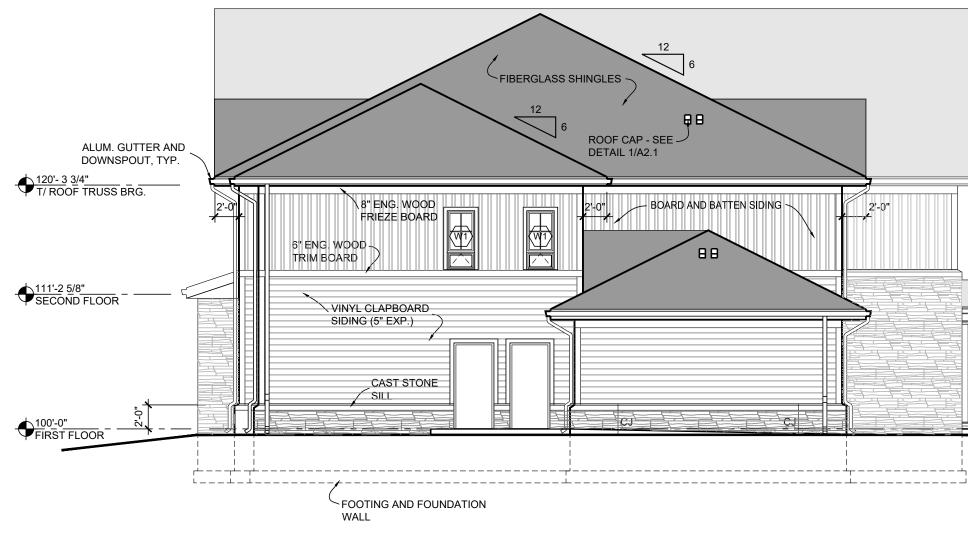
BHG. NUCCIAD No. AR00890043 STATE OF ACHITEC **South Bend** Heritage S HOME E AVENUE 9 Hope Avenue nd, IN 46615 HOPE 2923/2929 I South Bend DATE: BID DATE: 4/2/21 © 2021 ALLIANCE ARCHITECTS ALL RIGHTS RESERVED SHEET NO. A2



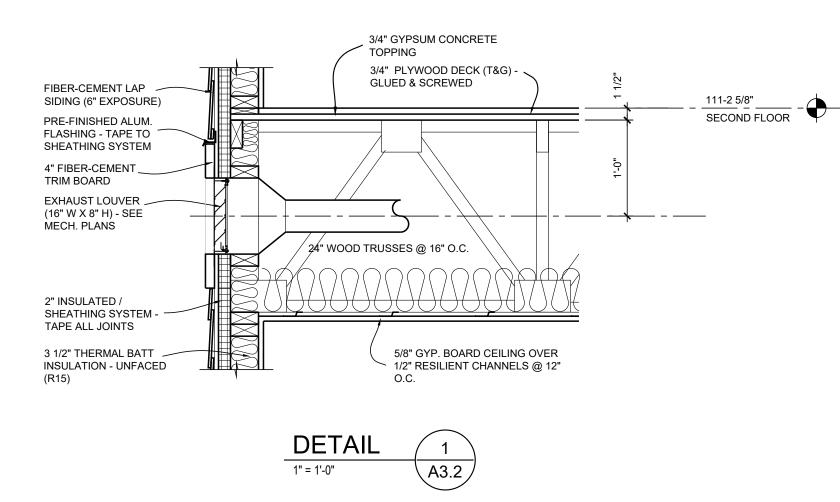




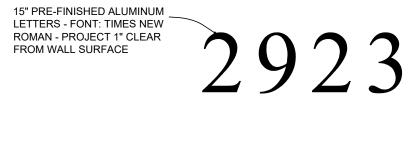






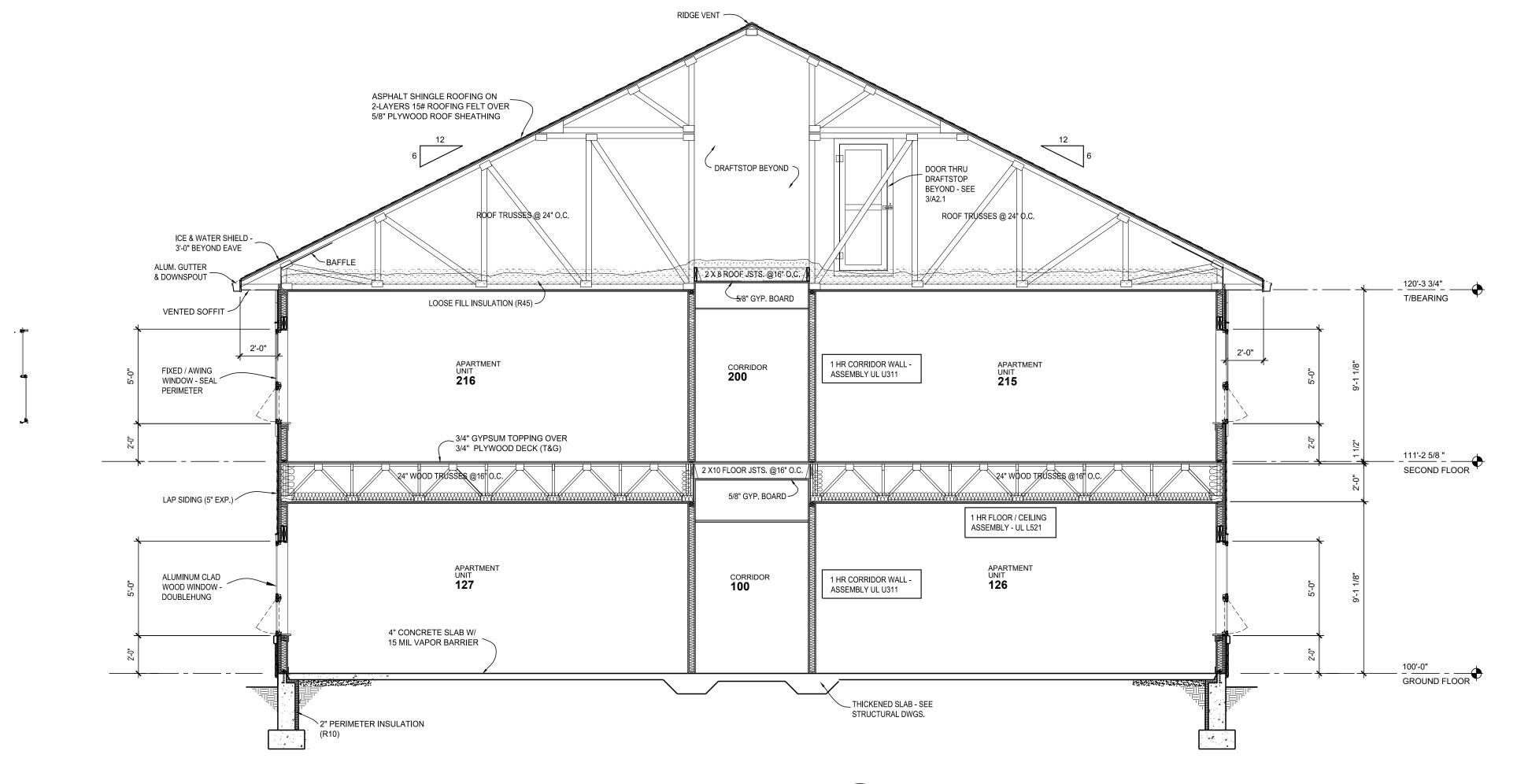


SOUTH ELEVATION SCALE: 1/8" = 1'-0"





ALLLANGE ARCHITECTS 929 Lincolnway East, Suite 200 South Bend, Indiana 46601	
AR00890043	
South Bend Heritage	
HOPE AVENUE HOMES 2923/2929 Hope Avenue South Bend, IN 46615	
DATE: BID DATE: 4/2/21	
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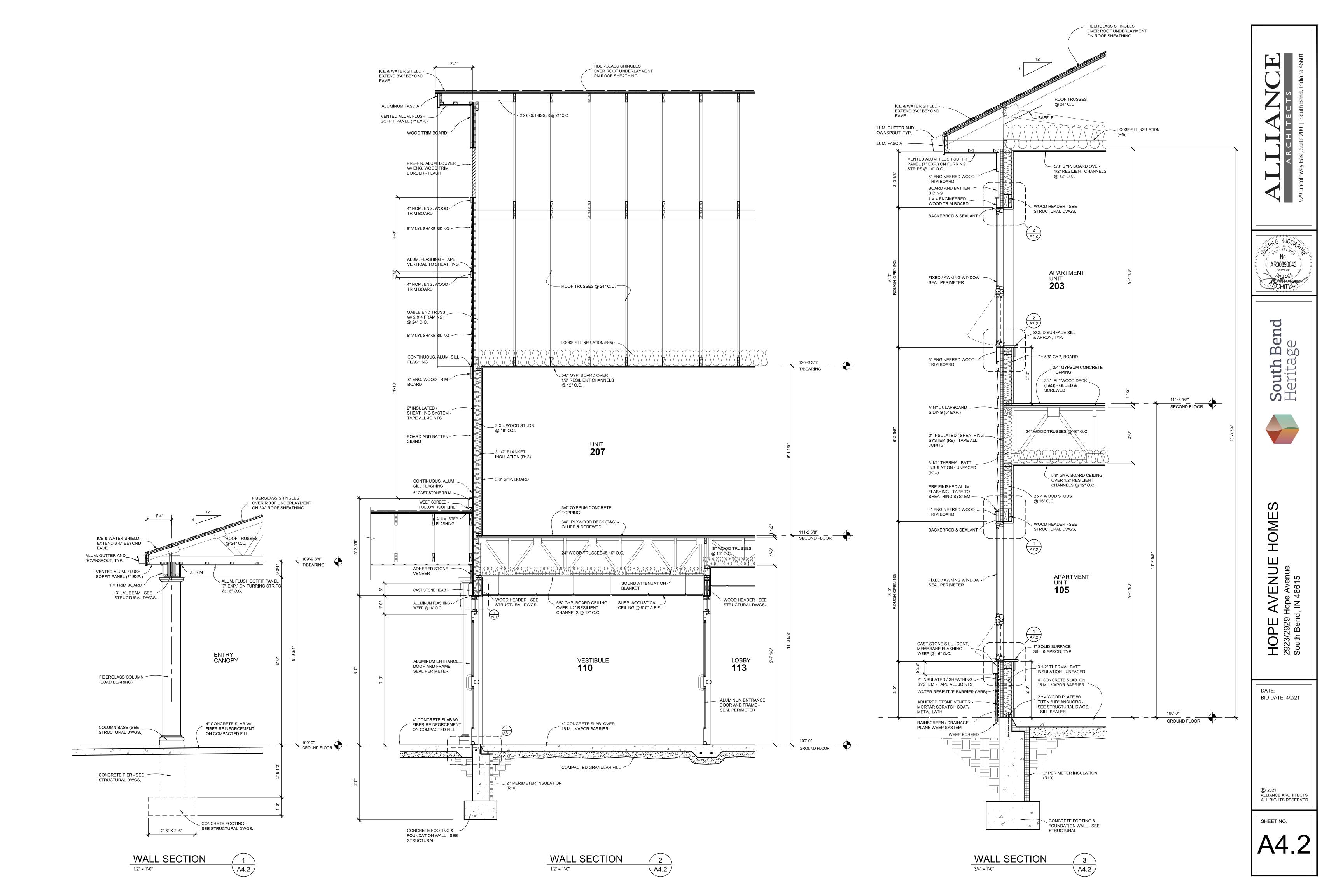


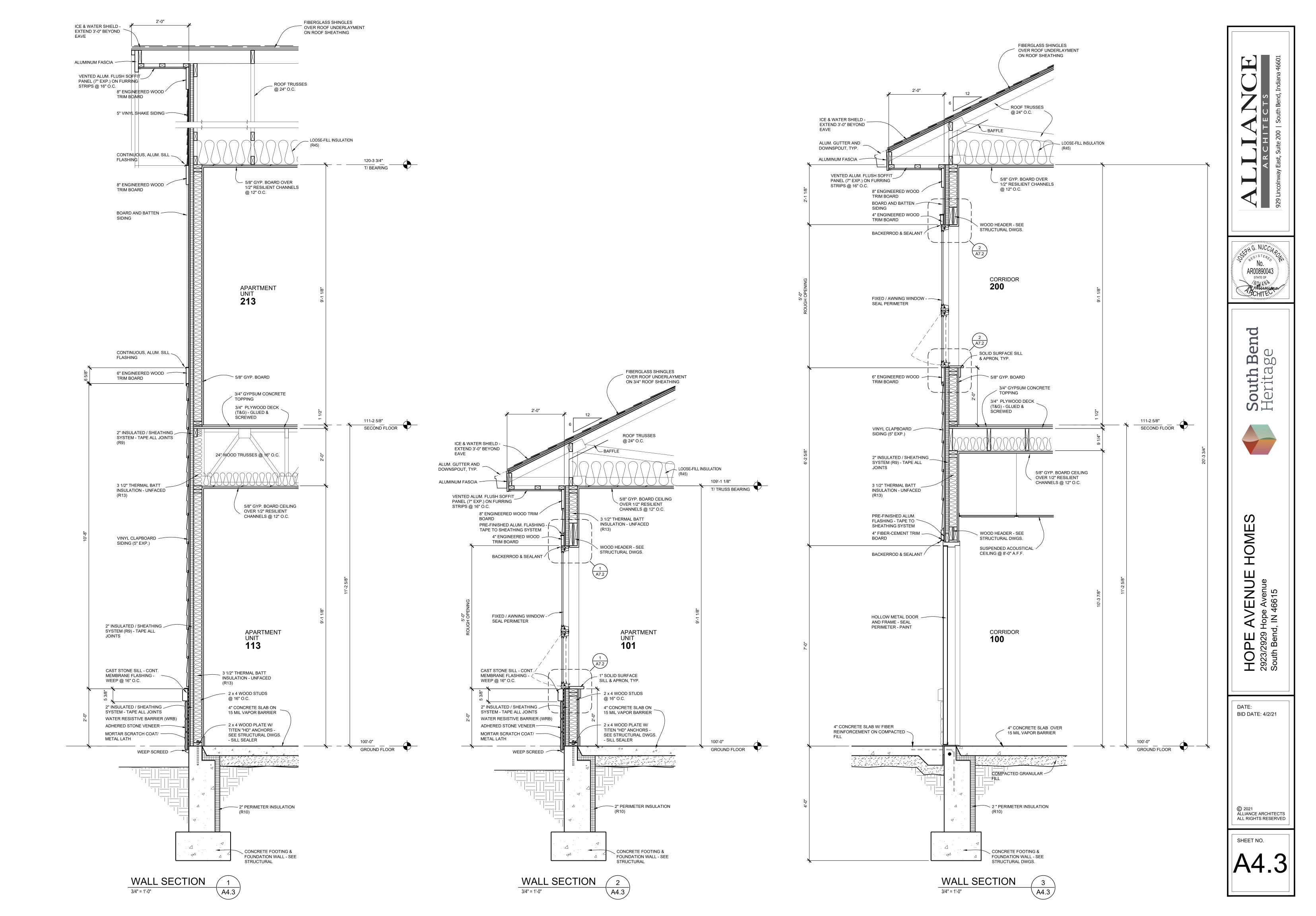
1/4" = 1'-0"

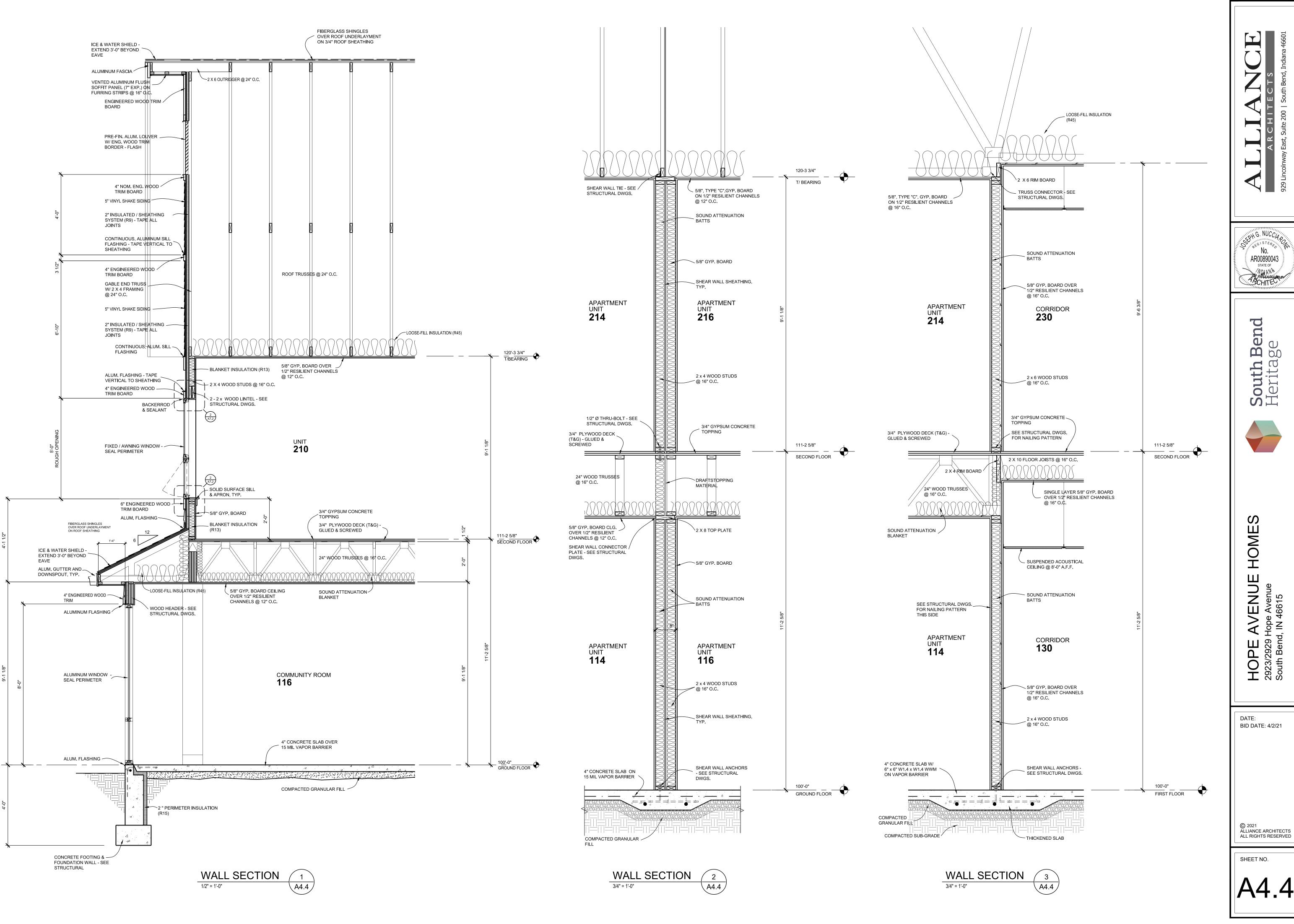
BUILDING SECTION 1

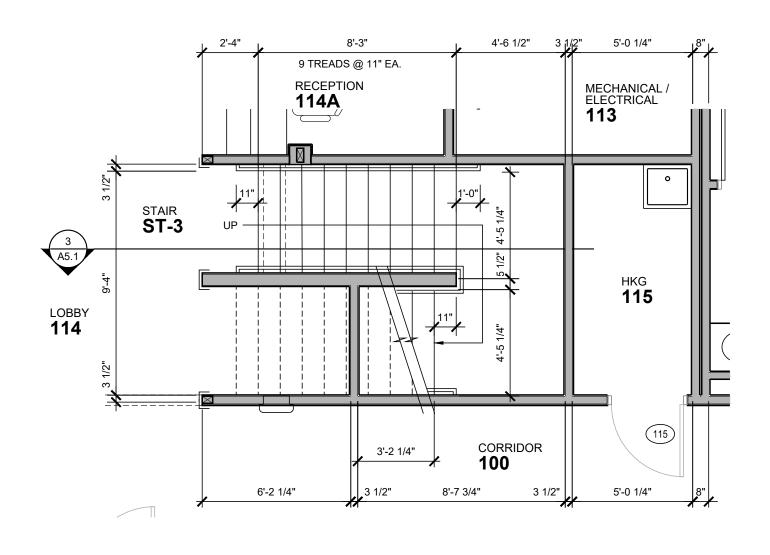
A4.1

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DATE: BID DATE: 4/2/21 © 2021 ALLIANCE ARCHITECTS ALL RIGHTS RESERVED
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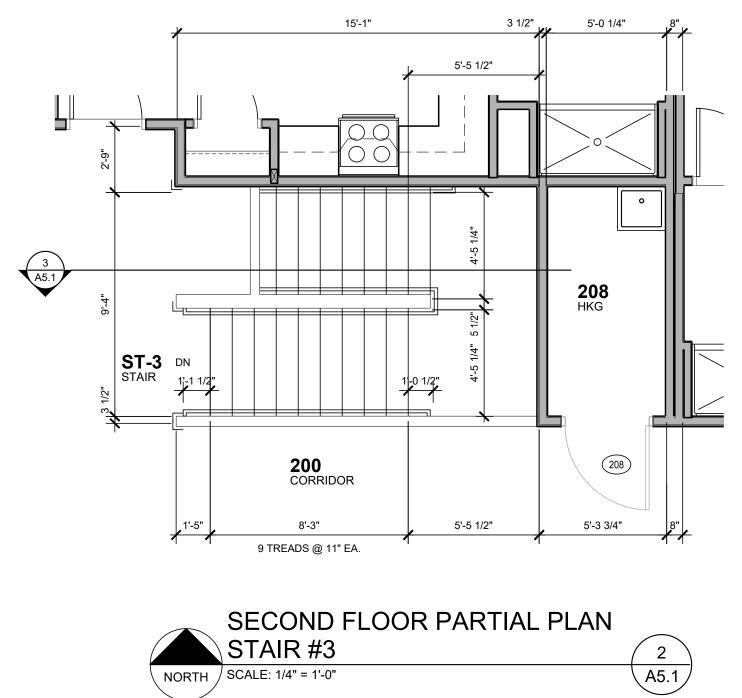


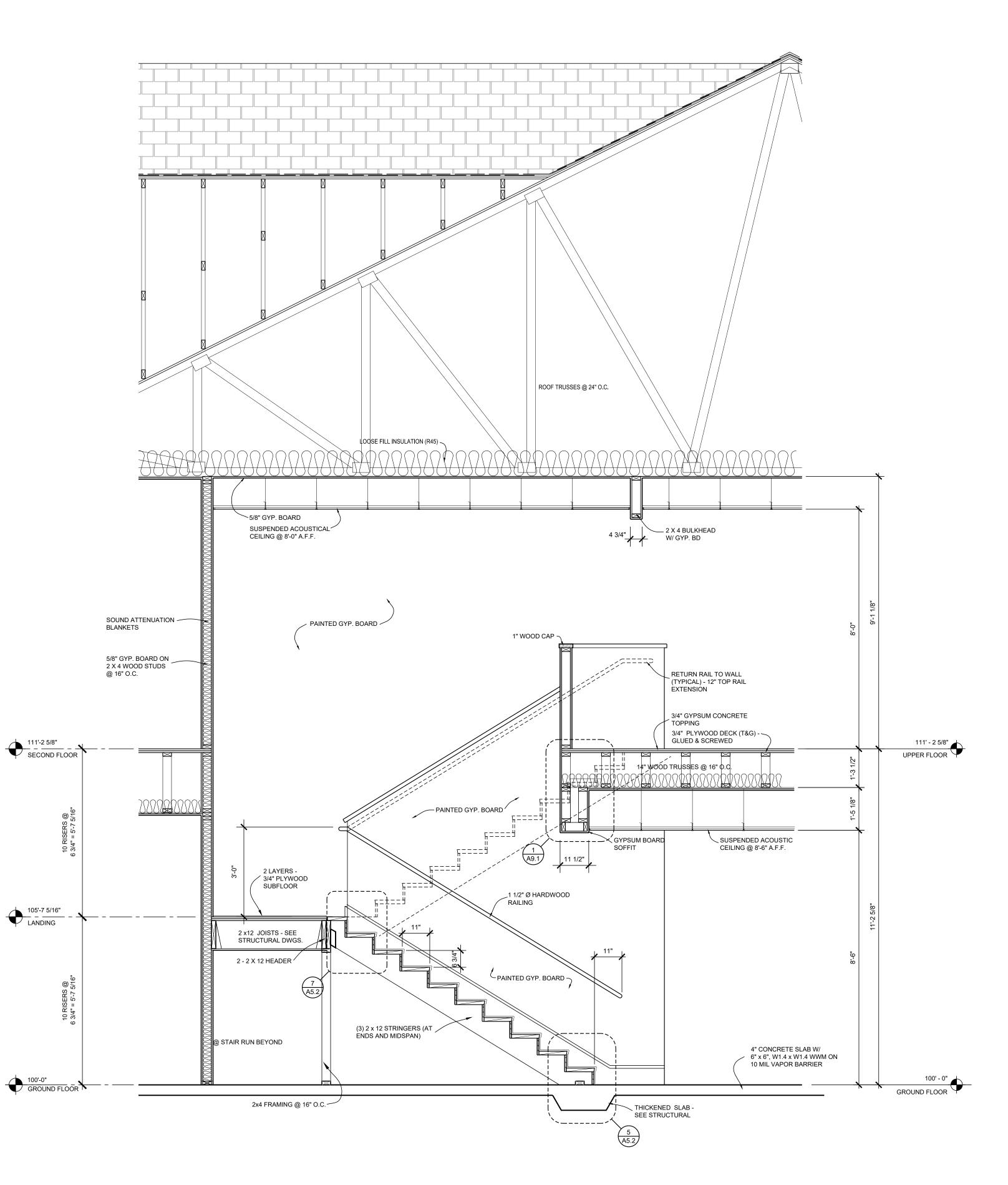






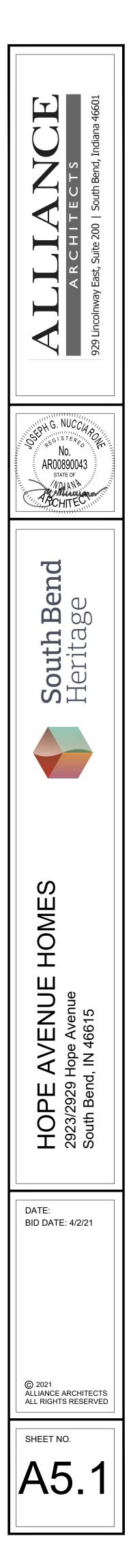


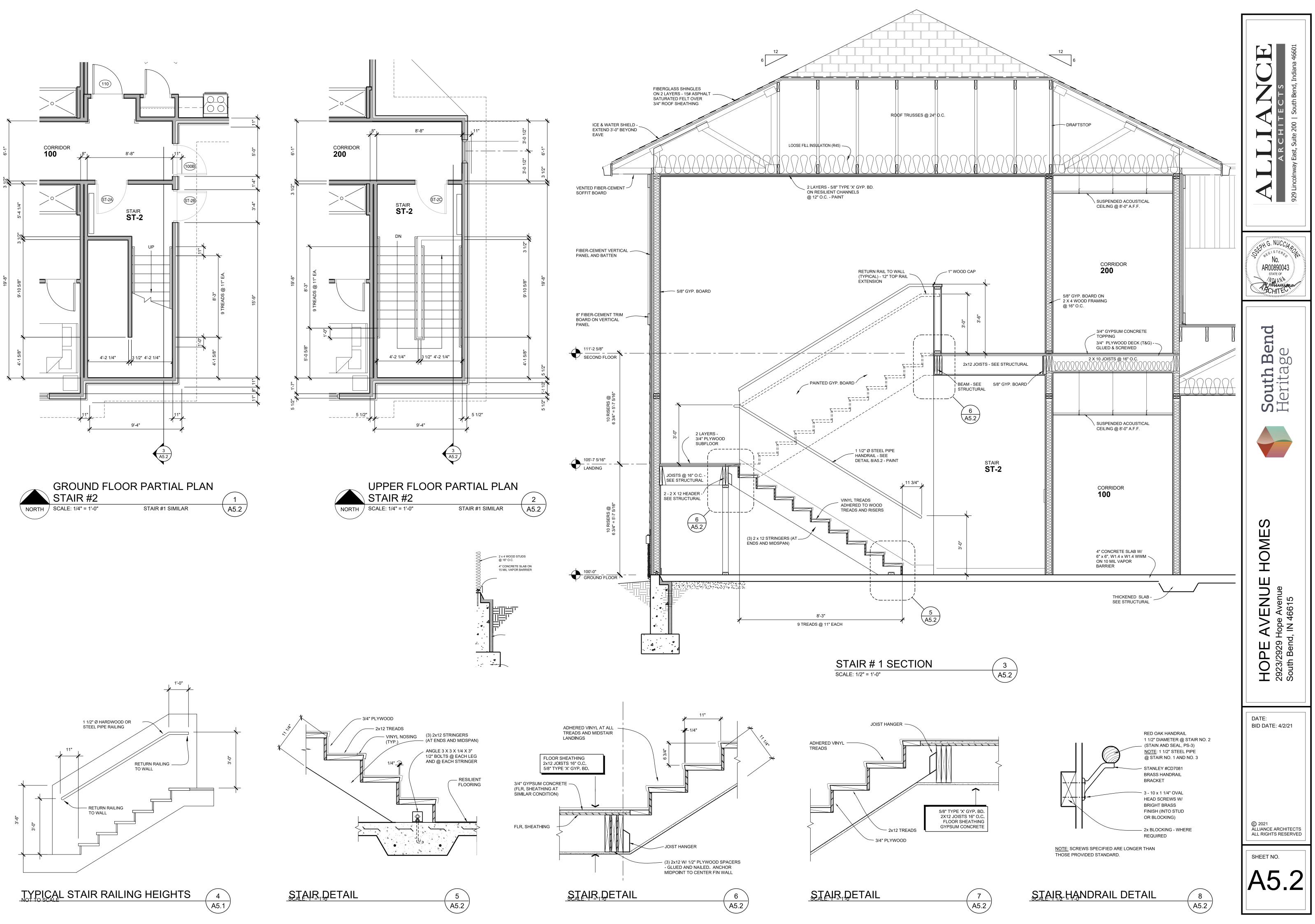


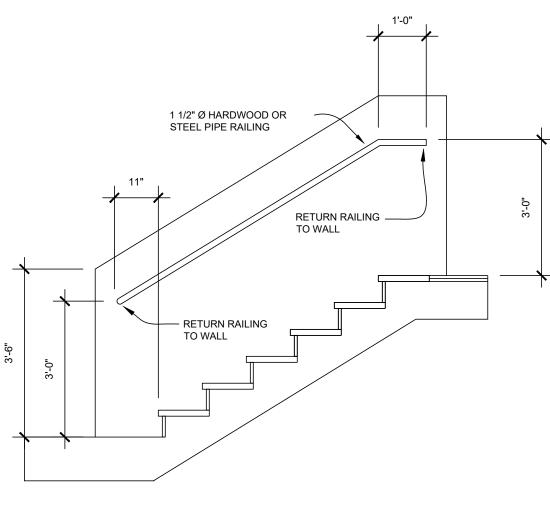


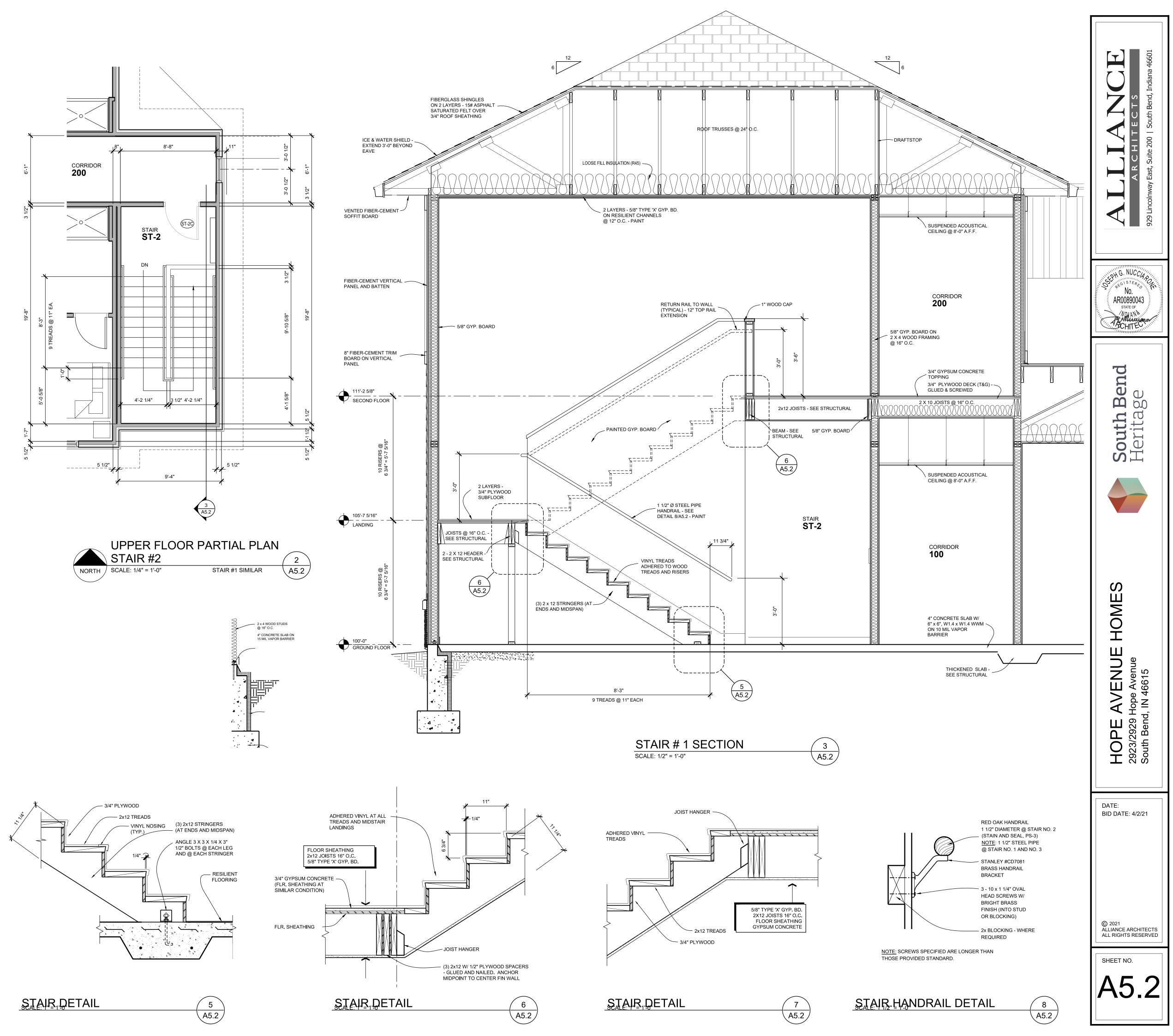
STAIR #3 SECTION SCALE: 1/2" = 1'-0"



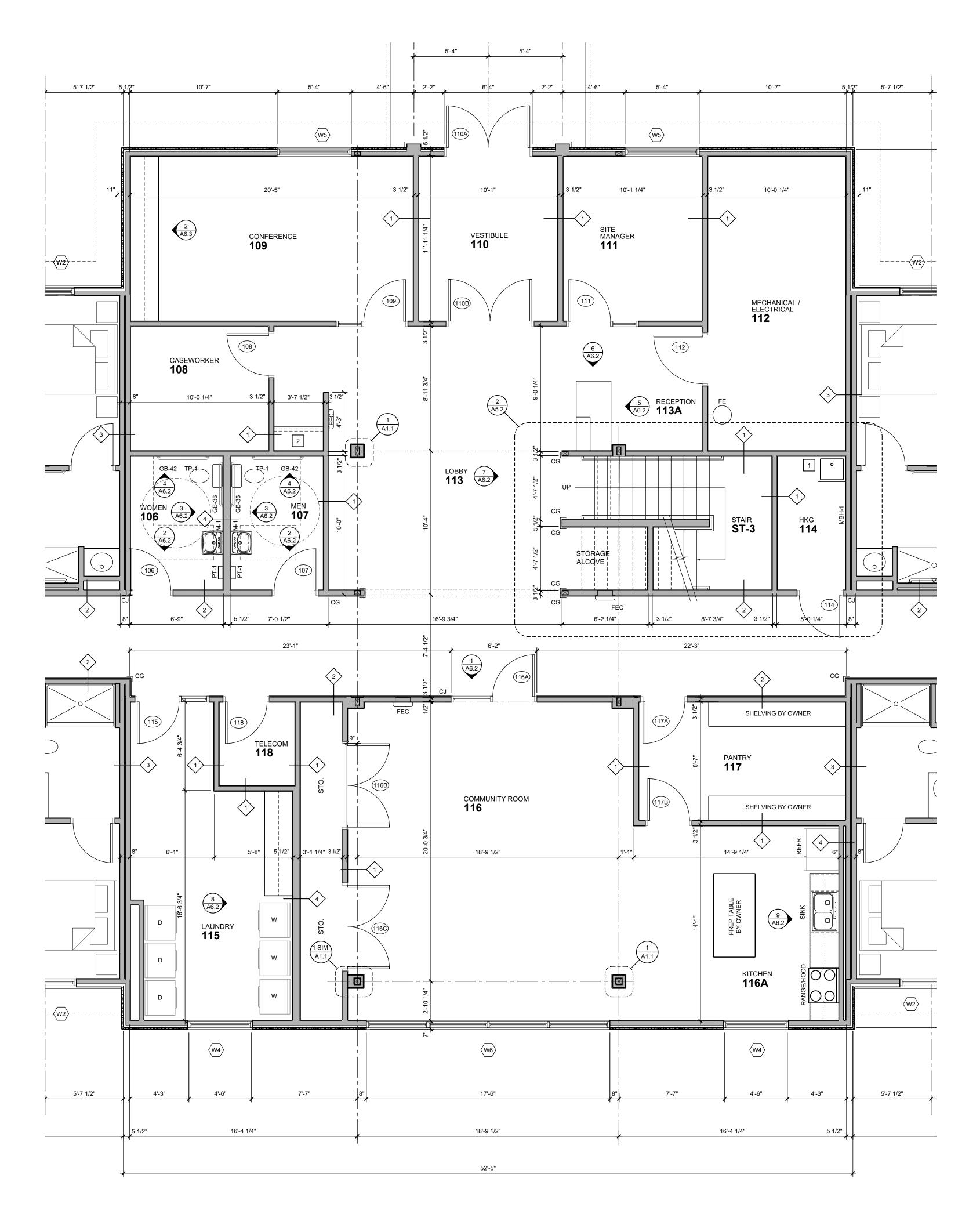




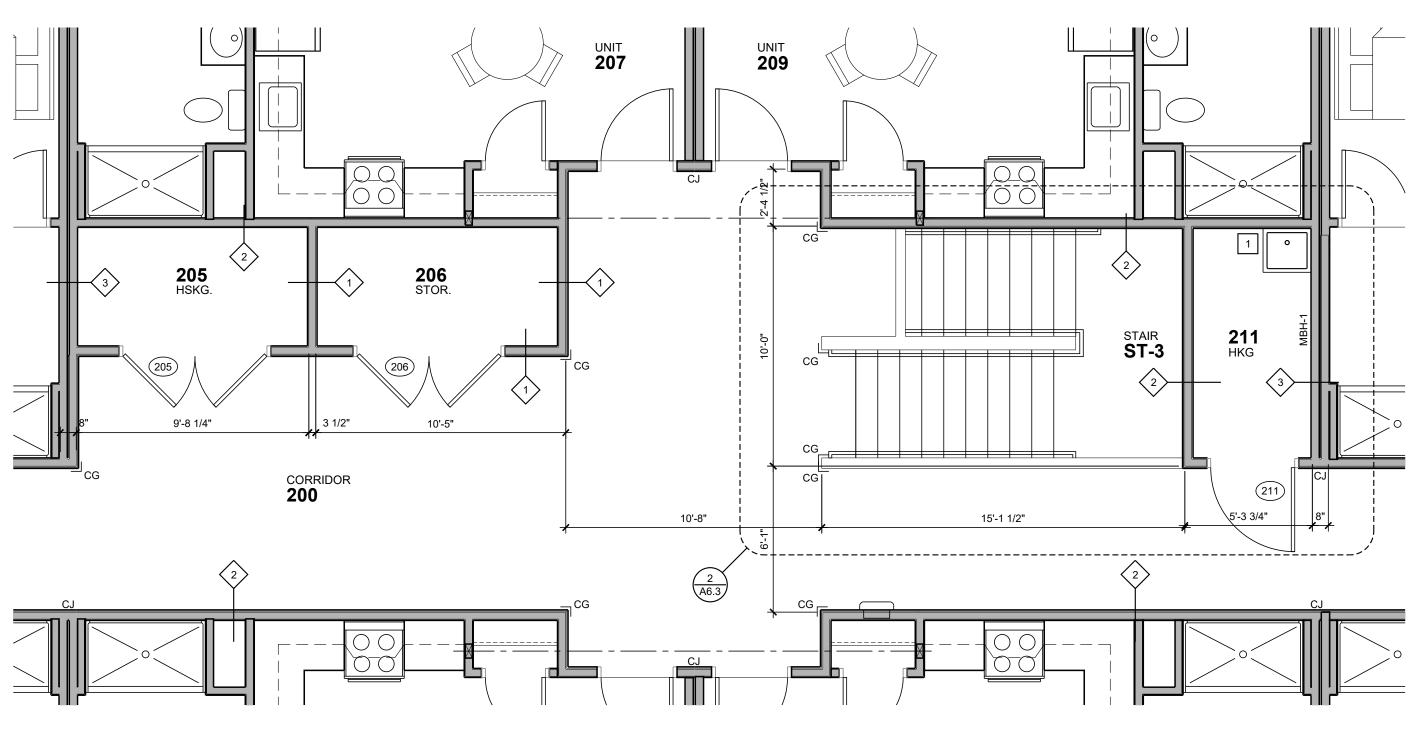


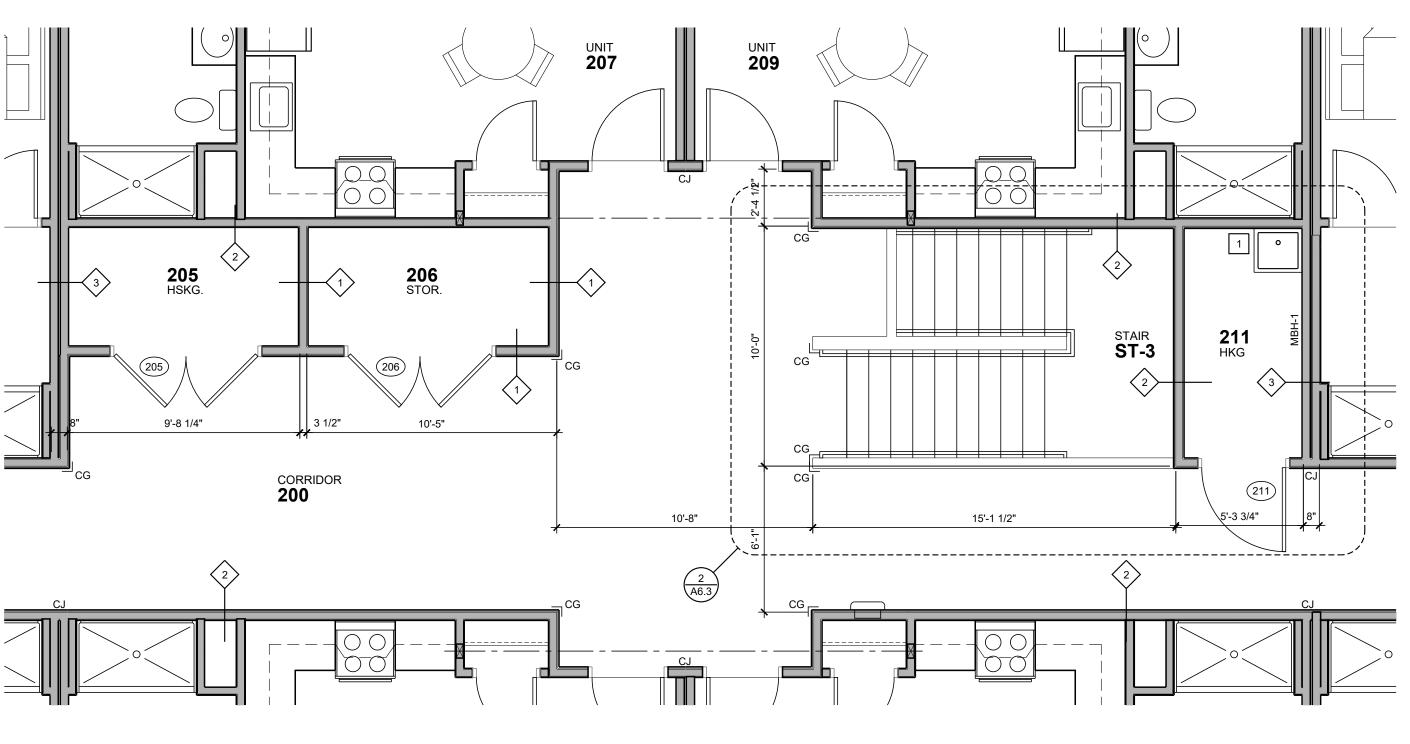












LEGEND

2	WALL TAG - SEE WALL LEGEND
X	DOOR TAG - SEE DOOR SCHEDULE
	FLOOR TRANSITION; SEE FINISH SCHEDULE
$\langle x \rangle$	WINDOW TAG - SEE WINDOW SCHEDULE
${\bf Q}^{\rm FE}$	WALL MOUNTED FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET - SEE DETAIL 1/A1.2
CG	CORNER GUARD - SEE SPECIFICATION SECTION 10 26 13 CORNER GUARDS
CJ	CONTROL JOINT (SEE 2/A1.1)

KEYNOTES

1STAINLESS STEEL PANEL, 3'-0W x 4AT MOP SINK ON (2) SIDES

WALL LEGEND

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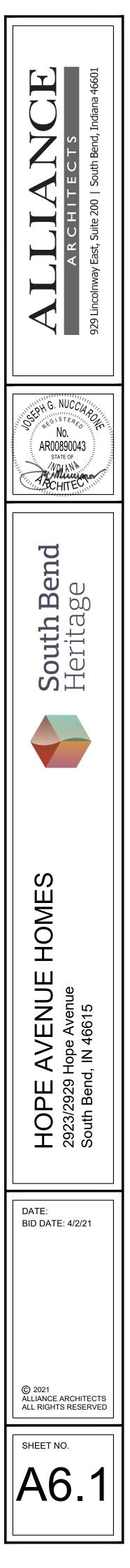
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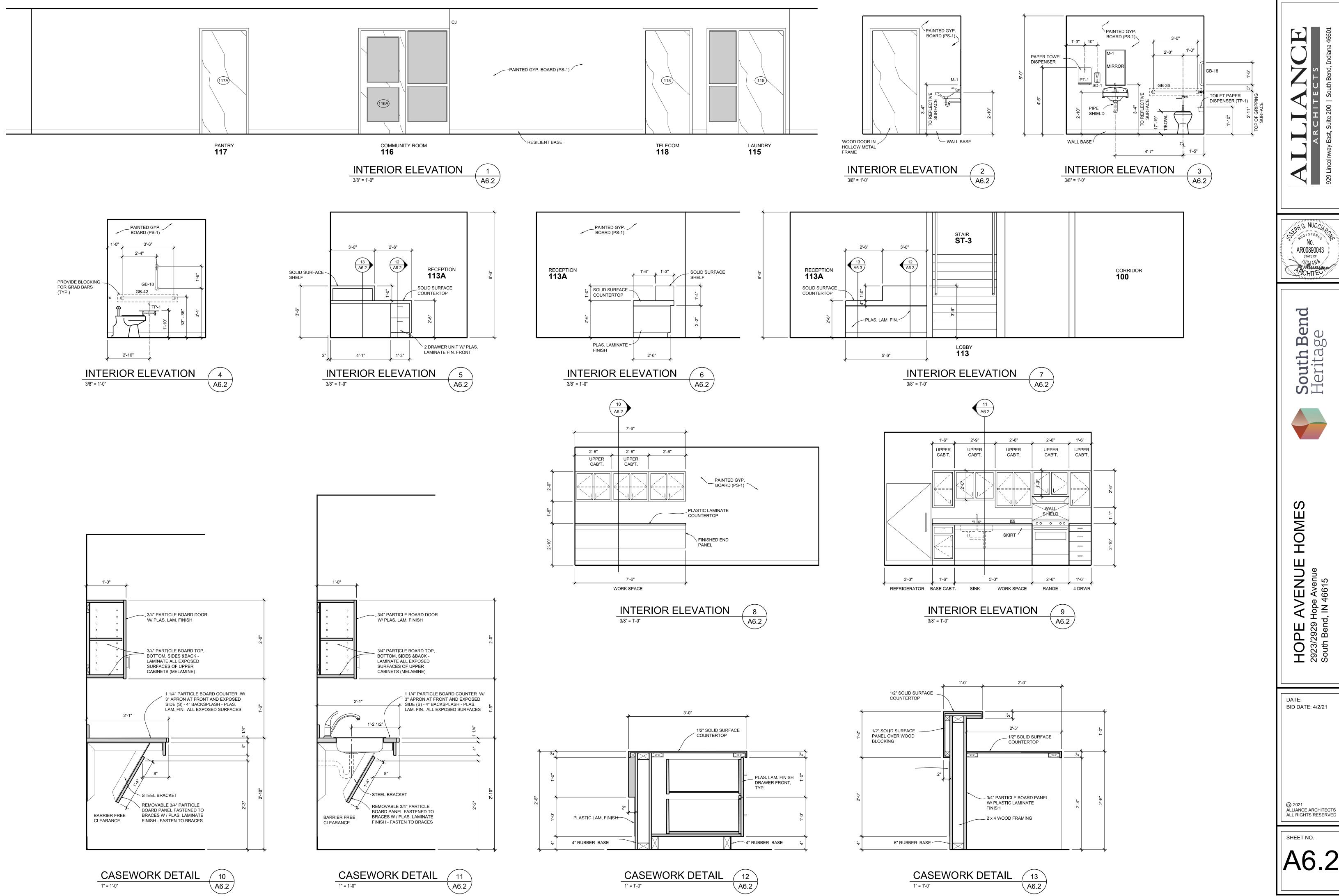
Ω	 PARTITION WALLS 5/8" GYPSUM BOARD (BOTH SIDES) 2x4 WOOD STUDS @ 16" O.C. SOUND ATTENUATION BATTS
<u>N</u>	 CORRIDOR WALLS (1 HOUR) 5/8" GYPSUM BOARD (BOTH SIDES) 1/2" RESILENT CHANNELS (CORRIDOR SIDE) 2x4 WOOD STUDS @ 16" O.C. SOUND ATTENUATION BATTS
	OEMISING WALL S/8" GYPSUM BOARD (BOTH SIDES)
<u>\</u>	 2 ROWS, 2x4 WOOD STUDS @ 16" O.C. (ALTERNATE STUDS) SHEAR SHEATHING, SEE STRUCTURAL SOUND ATTENUATION BATTS

2 SHELF & ROD

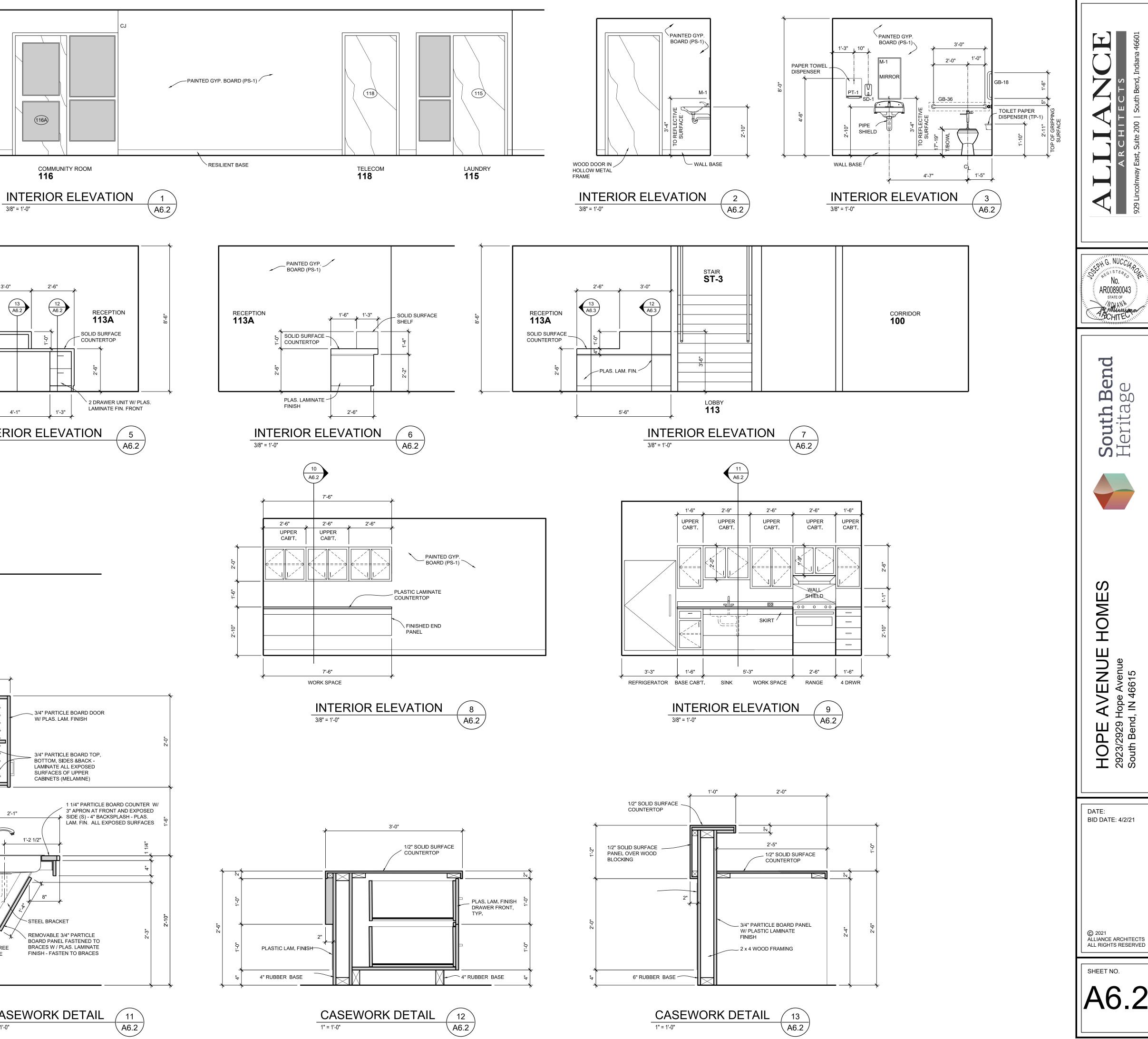
UPPER FLOOR COMMON AREA PLAN 2 A6.1

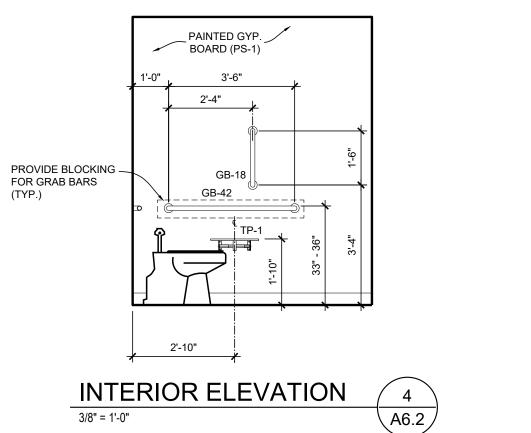
	TOILET	ACCES	SORY S	CHEDULE
MARK	DESCRIPTION	MANUFACTURER	MODEL #	REMARKS
GB-36 GB-42	GRAB BAR	BOBRICK	B-6806	42", 36", 24" HORIZONTAL 18" VERTICAL
-	HAT AND COAT HOOK	BOBRICK	B-6827	SATIN STAINLESS STEEL
M-1	MIRROR	BOBRICK	B-165	18" x30" WITH STAINLESS STEEL CHANNEL FRAME
PT-1	PAPER TOWEL DISPENSER	BOBRICK	B-262	SURFACE MOUNTED, STAINLESS STEEL
TP-1	TOILET TISSUE DISPENSER	BOBRICK	B-2840	WITH UTILITY SHELF
MBH-1	MOP AND BROOM HOLDER	BOBRICK	B-239	
-	TRASH RECEPTACLE			BY OWNER

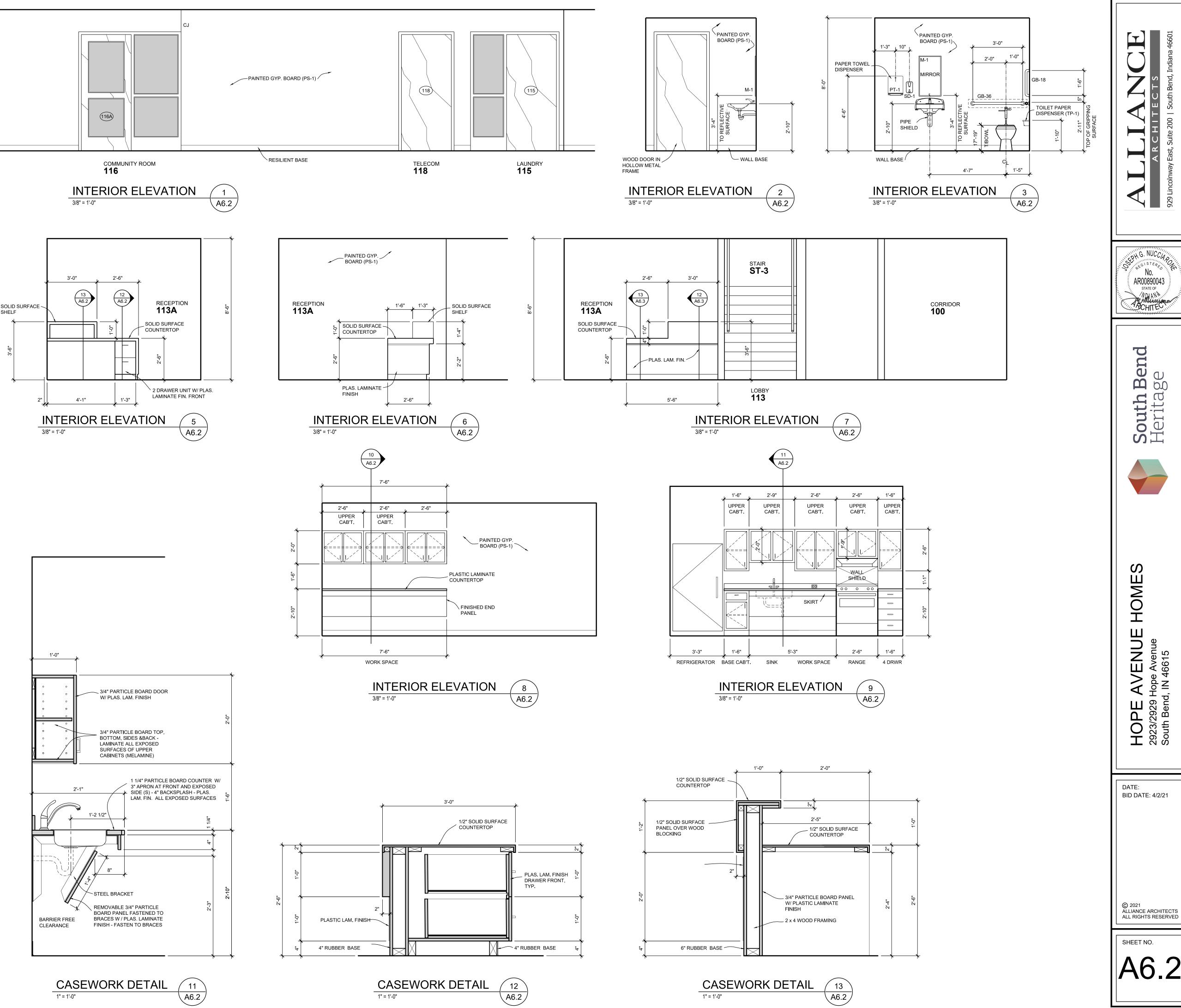


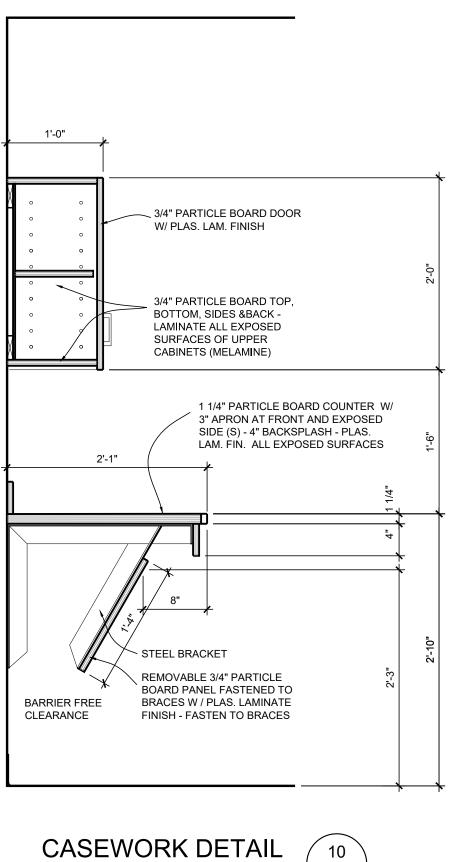


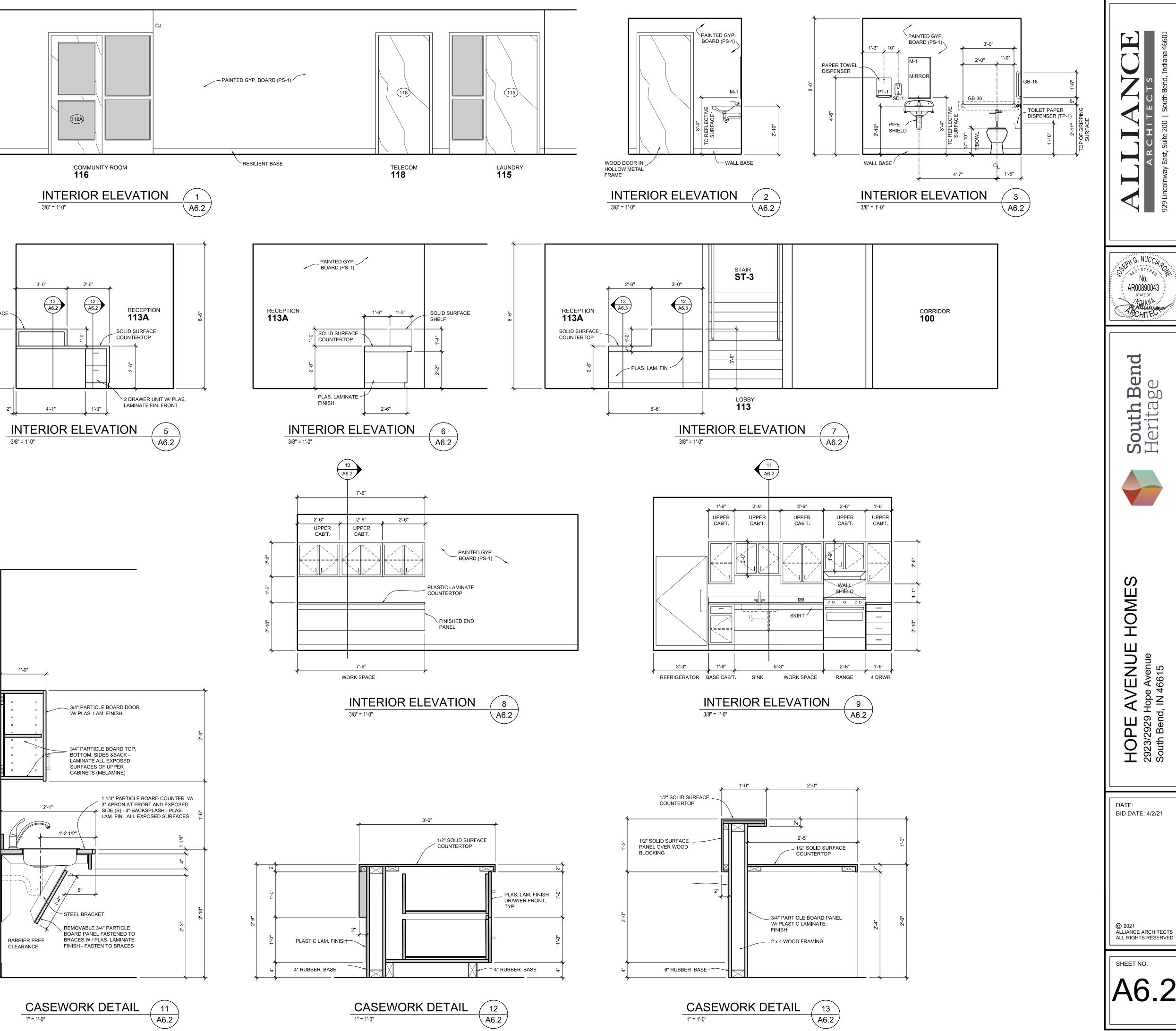


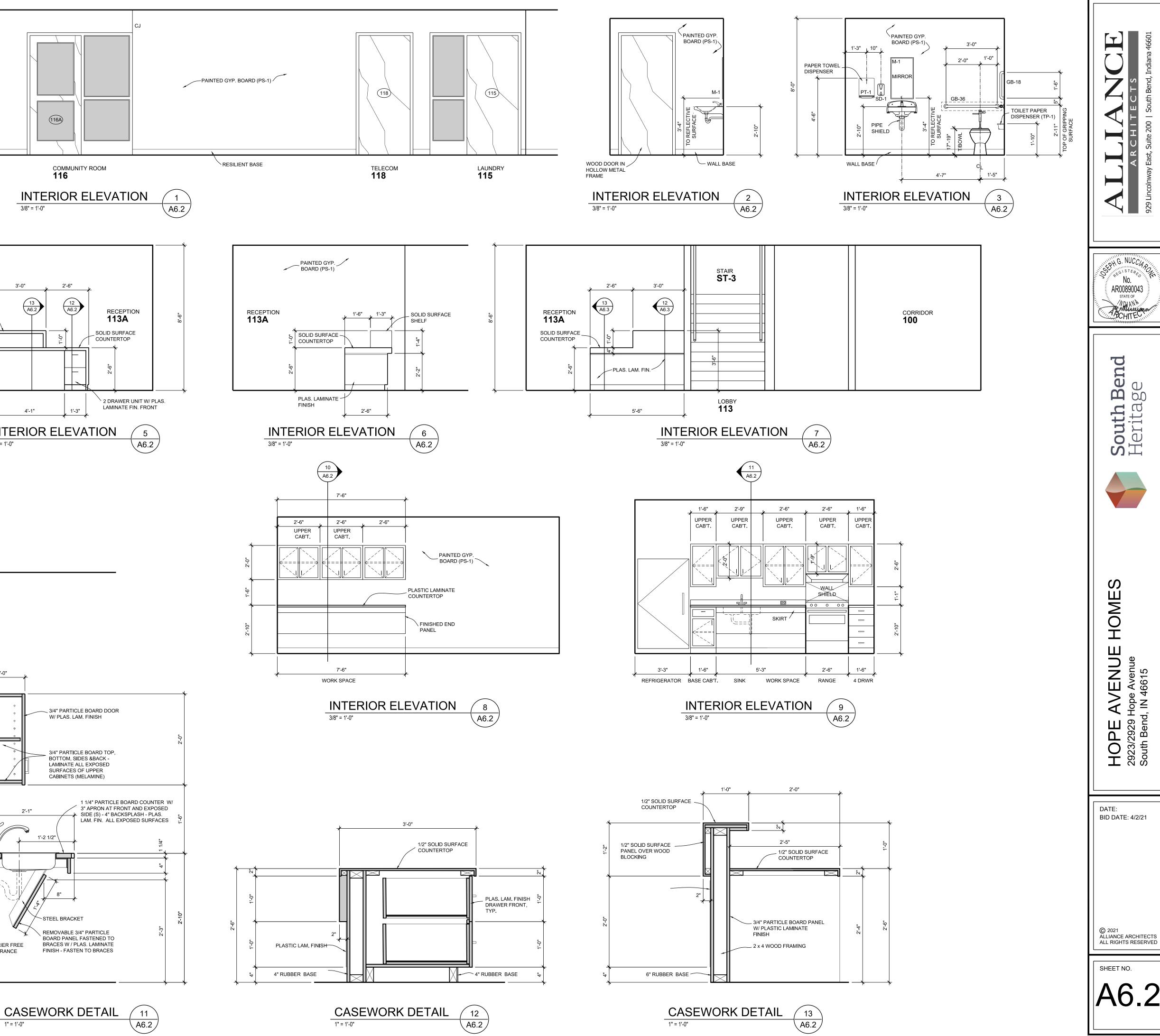


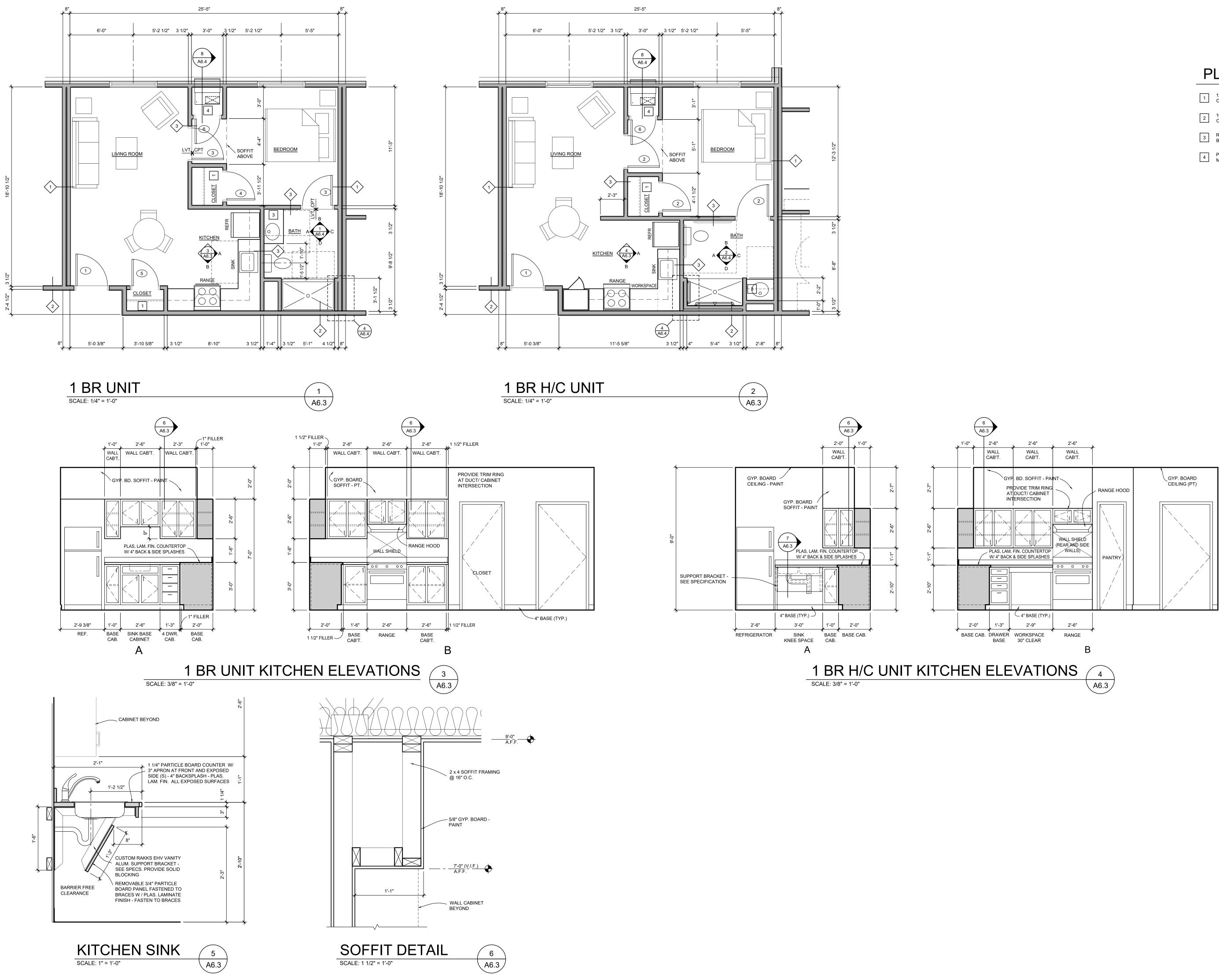








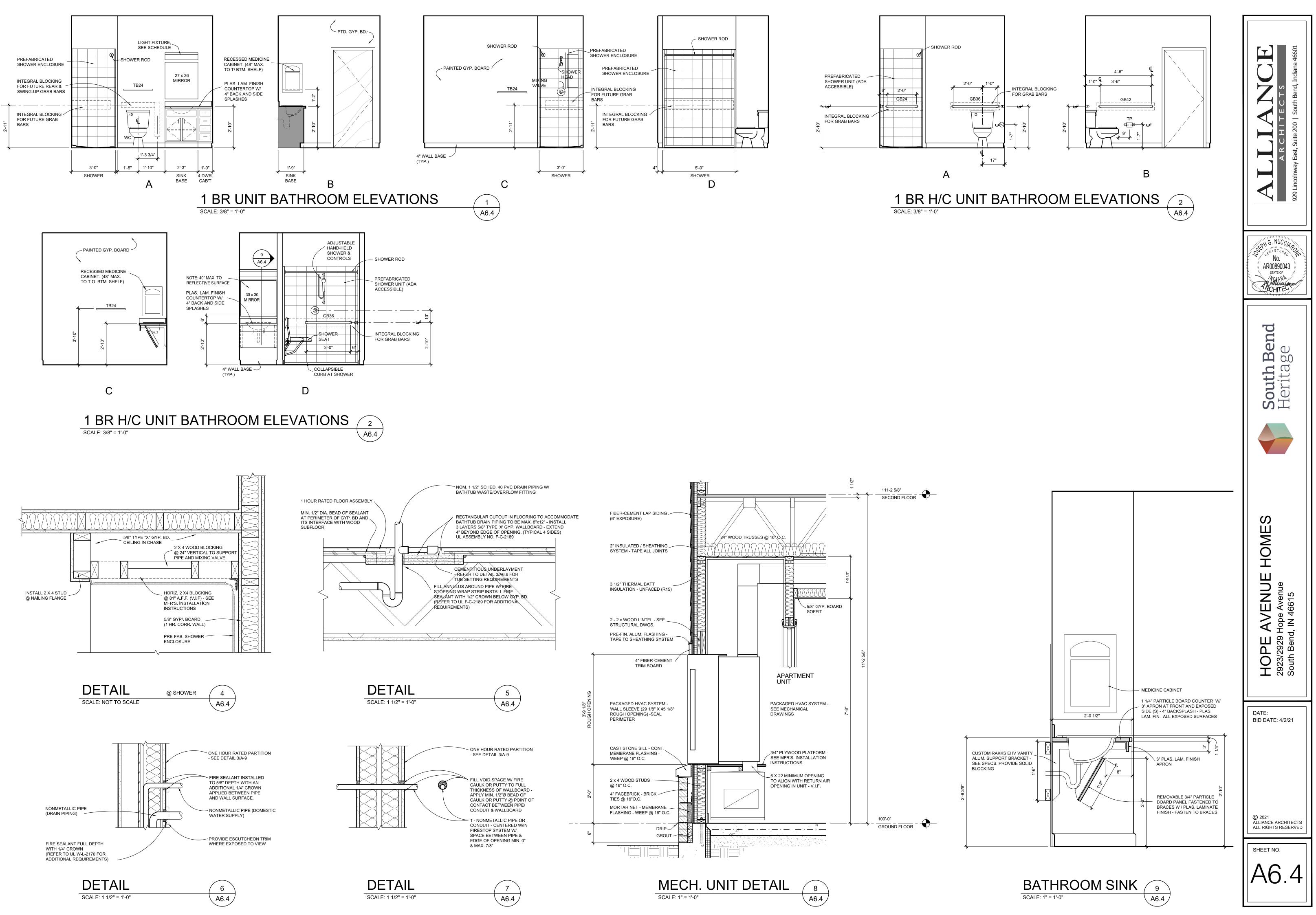


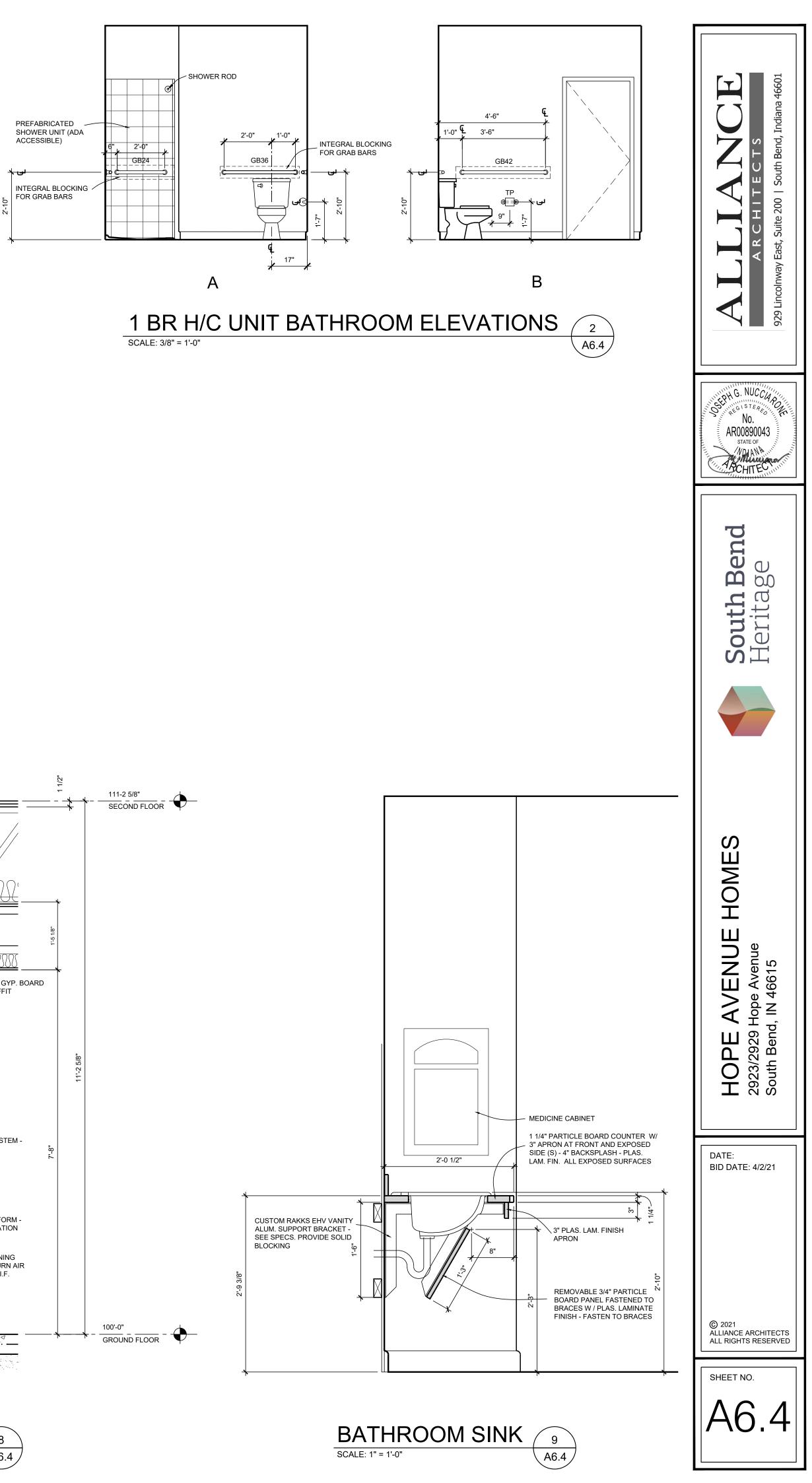


PLAN NOTES

- 12" DEEP SHELF AND ROD, CLOSET MADE PRODUCT NO. 7300
- 2 16" DEEP LINEN SHELF, (4) PER CLOSET, CLOSET MADE PRODUCT NO. 7320
- 3 RECESSED MEDICINE CABINET BOBRICK 397
- 4 PACKAGED HVAC UNIT SEE MECHANICAL PLAN

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NO				HARDWARE	RAME	F]		DOOR	
2	REMARKS	FIRE RATING	TYPE	SET ID	GLASS	MAT.	THICK- NESS	MAT.	SIZE	TAG
			С	10	-	НМ	1 3/4"	HM	3 ⁰ 7 ⁰	100A
г			С	10	-	НМ	1 3/4"	НМ	3 ⁰ 7 ⁰	100B
		20 MIN	D	04	-	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	106
		20 MIN	D	04	-	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	107
		20 MIN	D	06	-	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	108
		20 MIN	G	06	1/4" FIRE RATED SIDELITE	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	109
6-10"	ENTRY DOOR W/ INSULATED TEMPERED GLASS. PROVIDE PUSH BUTTON ACCESS.		A	02	1" INSULATED/ TEMPERED	AL	1 3/4"	AL	6 ⁰ 7 ⁰	(110A)
	ENTRY DOOR W/ 1/4" TEMPERED GLASS. PROVIDE PUSH BUTTON ACCESS.		В	01	1/4" TEMPERED	AL	1 3/4"	AL	6 ⁰ 7 ⁰	(110B)
		20 MIN	G	06	1/4" FIRE RATED SIDELITE	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	(111)
(TYPICAL)		20 MIN	D	08	-	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	(112)
		20 MIN	D	08	-	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	(114)
		20 MIN	G	03	1/4" FIRE RATED SIDELITE	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	(115)
		20 MIN	Н	11	1/4" FIRE RATED SIDELITE	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	(116A)
		-	F	07	-	НМ	1 3/4"	SC	6 ⁰ 6 ⁸	(116B)
		-	F	07	-	НМ	1 3/4"	SC	6 ⁰ 6 ⁸	(116C)
		20 MIN	D	05	-	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	(117A)
		-	D	05	-	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	(117B)
1/4" FIRE-RATED GLASS		20 MIN	D	05	-	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	(118)
4A										
	FIRE RATED GLASS	60 MIN	E	09	1/4" FIRE RATED VISION LITE	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	(ST1-A)
	GALVANIZED AND INSULATED		С	10	-	НМ	1 3/4"	HM	3 ⁰ 7 ⁰	ST1-B
	FIRE RATED GLASS	60 MIN	E	09	1/4" FIRE RATED VISION LITE	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	ST1-C
351 261 261	FIRE RATED GLASS	60 MIN	E	09	1/4" FIRE RATED VISION LITE	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	ST2-A
FIN. FLR.	GALVANIZED AND INSULATED		С	10	-	НМ	1 3/4"	HM	3 ⁰ 7 ⁰	ST2-B
	FIRE RATED GLASS	60 MIN	E	09	1/4" FIRE RATED VISION LITE	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	ST2-C
KICKF										
			F	07	-	НМ	1 3/4"	SC	6 ⁰ 6 ⁸	205
			F	07	-	НМ	1 3/4"	SC	6 ⁰ 6 ⁸	206
			D	08	-	НМ	1 3/4"	SC	3 ⁰ 6 ⁸	211

	UNIT DOOR SCHEDULE										
		DOOR		F	RAME	HARDWARE					
TAG	SIZE	MAT.	THICK- NESS	MAT.	GLASS	SET ID	TYPE	FIRE RATING	REMARKS		
	3 ⁰ 6 ⁸	SC	1 3/4"	НМ	-	12	1	20 MIN.	HC ACCESSIBLE		
2	3 ⁰ 6 ⁸	нс	1 3/4"	WD	-	13	2		HC ACCESSIBLE, PRE-HUNG DOOR/FRAME		
3	2 ¹⁰ 6 ⁸	нс	1 3/4"	WD	-	13	2		PRE-HUNG WOOD DOOR AND FRAME		
4	2 ⁸ 6 ⁸	нс	1 3/4"	WD	-	14	2		PRE-HUNG WOOD DOOR AND FRAME		
5	2 ⁶ 6 ⁸	нс	1 3/4"	WD	-	14	2		PRE-HUNG WOOD DOOR AND FRAME		
6	2 ⁴ 6 ⁸	нс	1 3/4"	WD	-	14	2		PRE-HUNG WOOD DOOR AND FRAME		

DOOR & FRAME NOTES

- DOOR SIZES ARE INDICATED THUS: 3068 (3'-0"W. x 6'-8"H). DOOR AND FRAME SIZES SHOWN ARE NOMINAL. APPROVED SHOP DRAWINGS MUST BE DISTRIBUTED BETWEEN TRADES TO COORDINATE AND VERIFY ACTUAL DOOR AND FRAME SIZES.
- 2. GROUT ALL NEW HOLLOW METAL JAMB FRAMES IN CONCRETE OR MASONRY WALLS.
- 3. HARDWARE SETS ARE NOTED IN SPECIFICATIONS. PROVIDE
- NEW DOOR HARDWARE AS SCHEDULED. 4. UL FRAME ANCHORS ARE REQUIRED FOR ALL DOORS AND
- FRAMES @ LABELED OPENINGS.
- 5. FOR PAIRS OF INTERIOR DOORS: STRICTLY MAINTAIN MAXIMUM 1/8 INCH SPACE BETWEEN MEETING EDGES OF DOORS WITH OR WITHOUT METAL CHANNEL EDGES.
- 6. CLOSERS SHALL BE THE LAST HARDWARE ITEMS INSTALLED. CONTRACTOR SHALL VERIFY MAXIMUM DEGREE OF DOOR SWING THAT FIELD CONDITIONS WILL ALLOW AND INSTALL CLOSERS ACCORDINGLY, REGARDLESS OF SWING SHOWN ON DRAWINGS.
- 7. ALL DIMENSIONS INDICATED ARE NOMINAL. FIELD VERIFY DIMENSIONS OF ALL NEW AND EXISTING OPENINGS PRIOR TO FABRICATION OF DOORS OR FRAMES.
- 8. REFER TO FLOOR PLANS FOR DIRECTION OF DOOR SWINGS. 9. PAINT HOLLOW METAL DOORS AND FRAMES. ALSO PAINT BORROWED LITE FRAMING, ETC.
- 10. PAINT APARTMENT DOORS, FRAMES, AND TRIM. INSTALL WOOD TRIM @ APARTMENT ENTRANCE DOORS, CORRIDOR

SIDE ONLY.

DOOR SCHEDULE LEGEND

- AL ALUMINUM BF - BI-FOLD
- BP BI-PASS EX - EXISTING
- FH FLUSH FL - FULL LITE
- HC WOOD HOLLOW CORE
- HL HALF LITE HM - HOLLOW METAL
- MI HOLLOW METAL INSULATED NL - NARROW LITE
- SC WOOD SOLID CORE WD - WOOD

ADHERED STONE VNR. -MORTAR SCRATCH COAT/ -METAL LATH

2" INSULATED / SHEATHING SYSTEM - TAPE ALL JOINTS

RAINSCREEN / DRAINAGE PLANE WEEP SYSTEM

WATER RESISTIVE BARRIER (WRB)

SHEATHING JOINT AND

OPENING TAPE ADHERED CAST STONE

MEMBRANE FLASHING -

WEEP @ 16" O.C. - TAPE TO SHEATHING

BACKERROD & SEALANT

2" INSULATED / SHEATHING SYSTEM - TAPE ALL JOINTS

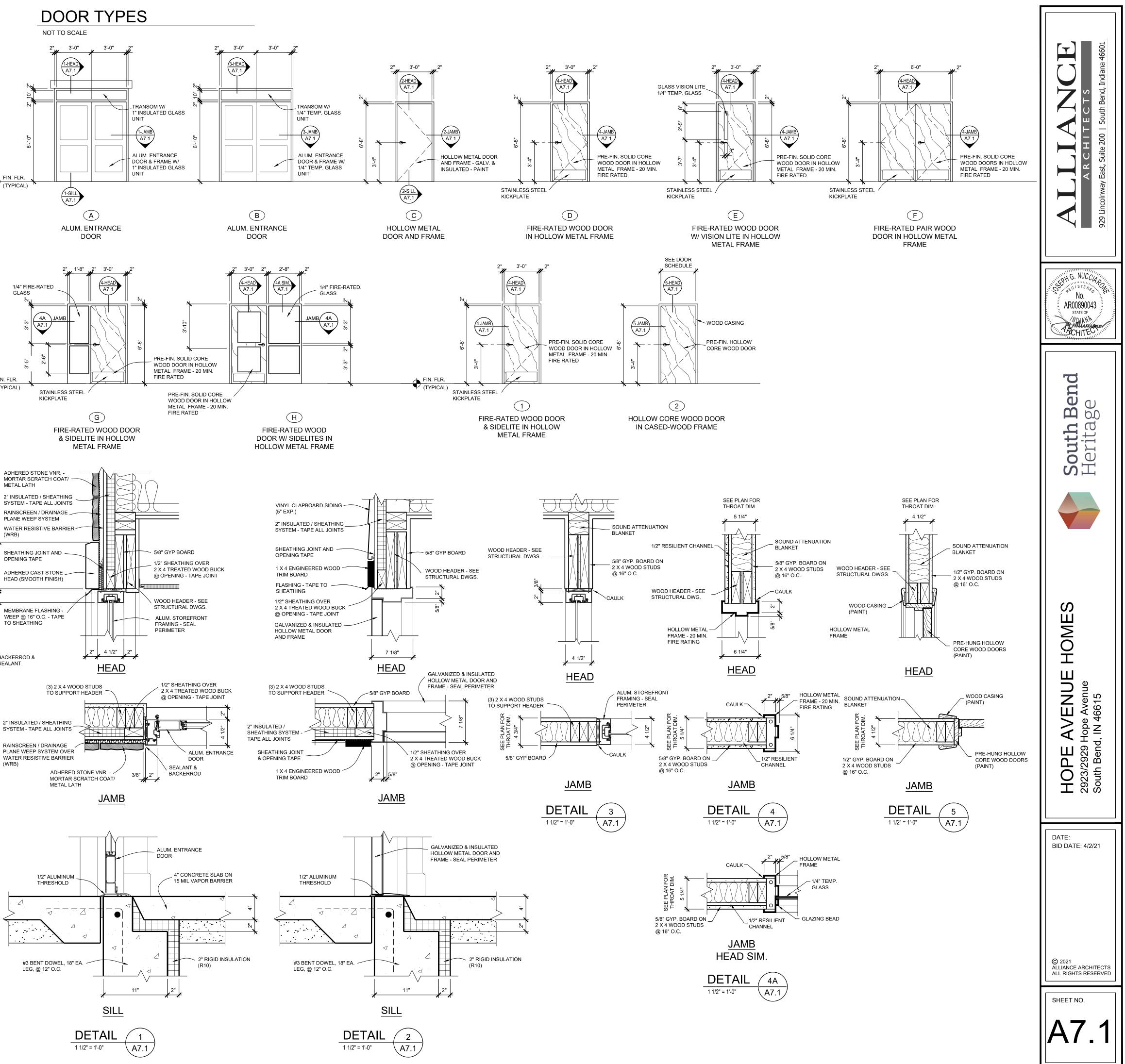
PLANE WEEP SYSTEM OVER WATER RESISTIVE BARRIER (WRB)

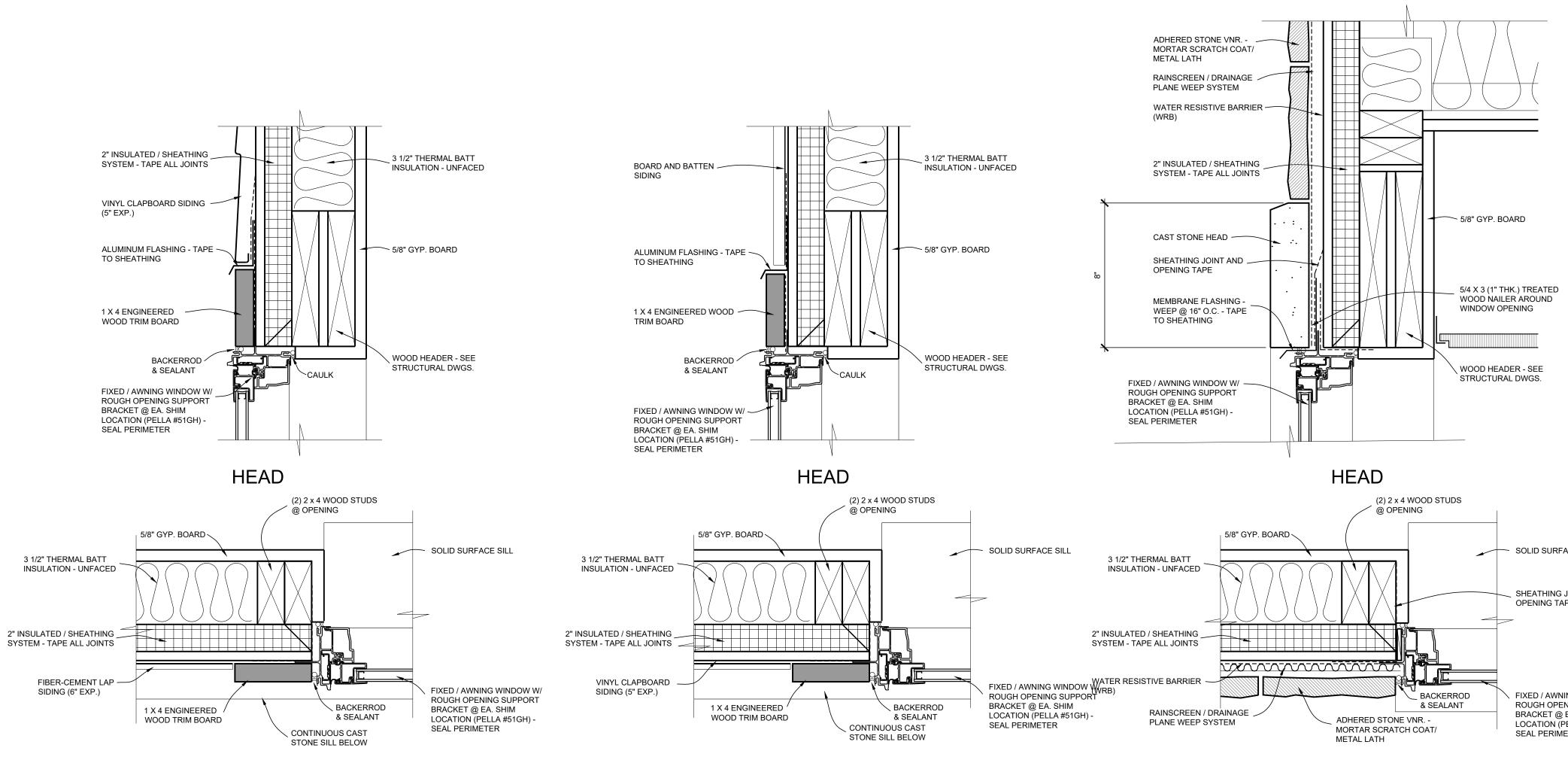
THRESHOLD

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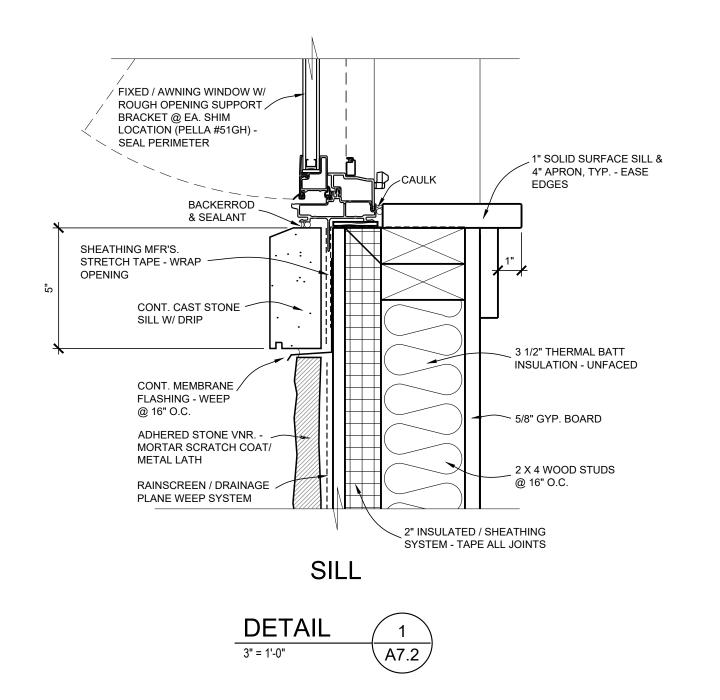
LEG, @ 12" O.C.

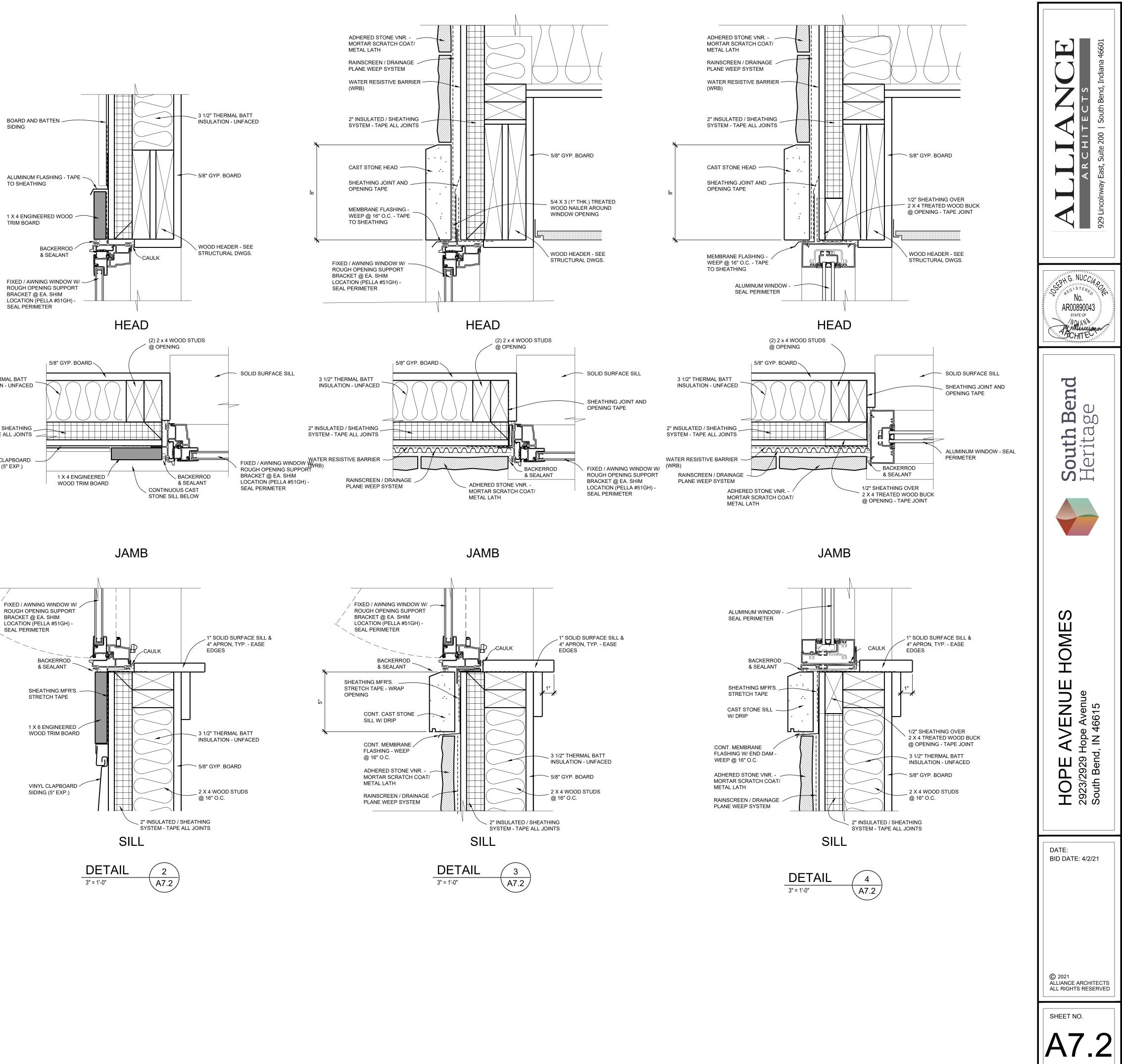
DOOR TYPES





JAMB





COMMON AREA ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE		WALL	FINISH		CEILING	CEILING HEIGHT	REMARKS
				NORTH	SOUTH	EAST	WEST	_		
					COMMO	N AREAS	GROUNE) FLOOR		
100	CORRIDOR	LVT-1	VB-1		PS-1	PS-1	PS-1	ACT-1/ GYP	7'-8" / 8'-0"	
106	WOMEN'S RESTROOM	VCT-1	VB-1	PS-1	PS-1	PS-1	PS-1	ACT-1	8'-0"	
107	MEN'S RESTROOM	VCT-1	VB-1	PS-1	PS-1	PS-1	PS-1	ACT-1	8'-0"	
108	CASEWORKER	CPT-2	VB-1	PS-1	PS-1	PS-1	PS-1		8'-0"	
109	CONFERENCE ROOM	CPT-2	VB-1	PS-1	PS-1	PS-1	PS-1	ACT-1	8'-0"	
110	VESTIBULE	CPT-1	VB-1	PS-1	PS-1	PS-1	PS-1	ACT-1/GYP	7'-8" / 8'-0"	
111	SITE MANAGER	CPT-2	VB-1	PS-1	PS-1	PS-1	PS-1	ACT-1	8'-0"	
112	MECHANICAL	SC / PS-6	VB-1	PS-1	PS-1	PS-1	PS-1	GYP	9'-0"	
113	LOBBY	LVT-1	VB-1	PS-1	PS-1	PS-1	PS-1	ACT-1	8'-6"	
113A	RECEPTION	LVT-1	VB-1		PS-1	PS-1		ACT-1	8'-6"	
114	HOUSEKEEPING	VCT-1	VB-1	PS-1	PS-1	PS-1	PS-1	ACT-1	8'-0"	
115	LAUNDRY	VCT-1	VB-1	PS-1	PS-1	PS-1	PS-1	ACT-1	8'-0"	
116	COMMUNITY ROOM	LVT-1	VB-1	PS-1	PS-1	PS-1	PS-1	GYP	9'-0"	
116A	STORAGE	LVT-1	VB-1				PS-1	GYP	9'-0"	
117	FOOD PANTRY	VCT-1	VB-1	PS-1	PS-1	PS-1	PS-1	ACT-1	8'-0"	
118	TELECOM	SC/PS-6	VB-1	PS-1	PS-1	PS-1	PS-1	ACT-1	8'-0"	
				CON	I /MON AR	L EAS UPP	ER FLOC	DR		I
200	CORRIDOR	LVT-1	VB-1	PS-1	PS-1	PS-1	PS-1	ACT-1 / GYP	7'-8" / 8'-0"	
222	HOUSEKEEPING	VCT-1	VB-1	PS-2	PS-2	PS-2	PS-2	PS-3	9'-0"	
210	STORAGE	VCT-1	VB-1	PS-2	PS-2	PS-2	PS-2	PS-3	9'-0"	
222	HOUSEKEEPING	VCT-1	VB-1	PS-2	PS-2	PS-2	PS-2	PS-3	9'-0"	
	Γ	1	1	I	CON	MMON AR	EAS STA	JRS		
ST-1	STAIR 1	VCT-1	VB-1	PS-2	PS-2	PS-2	PS-2	PS-3		STAIR HANDRAIL, PS-4, PROVIDE VINYL STAIR NOSINGS AT EACH TREAD AND EDGE OF LANDING
ST-2	STAIR 2	VCT-1	VB-1	PS-2	PS-2	PS-2	PS-2	ACT-1		STAIR HANDRAIL, PS-4, PROVIDE VINYL STAIR NOSINGS AT EACH TREAD AND EDGE OF LANDING
ST-3	STAIR 3	VCT-1	VB-1	PS-2	PS-2	PS-2	PS-2	PS-3		STAIR HANDRAIL, PS-4, PROVIDE VINYL STAIR NOSINGS AT EACH TREAD AND EDGE OF LANDING

AF	APARTMENT UNIT FINISH SCHEDULE									
ROOM NAME	FLOOR	BASE	WALLS	CEILING	REMARKS					
KITCHEN	LVT-1	VB-1	PS-1	PS-3						
LIVING ROOM / BEDROOM TYPICAL UNIT	CPT-1	VB-1	PS-1	PS-3						
LIVING ROOM / BEDROOM HC UNIT	LVT-1	VB-1	PS-1	PS-3						
BATH - TYPICAL UNIT	LVT-1	VB-1	PS-2	PS-3	INSTALL WATER RESISTANT GYPSUM BOARD @ SHOWER/TUB					
BATH - HC UNIT	LVT-1	VB-1	PS-2	PS-3	INSTALL WATER RESISTANT GYPSUM BOARD @ SHOWER					
CLOSETS	LVT-1	VB-1	PS-1	PS-3						
ENTRY	LVT-1	VB-1	PS-1	PS-3						

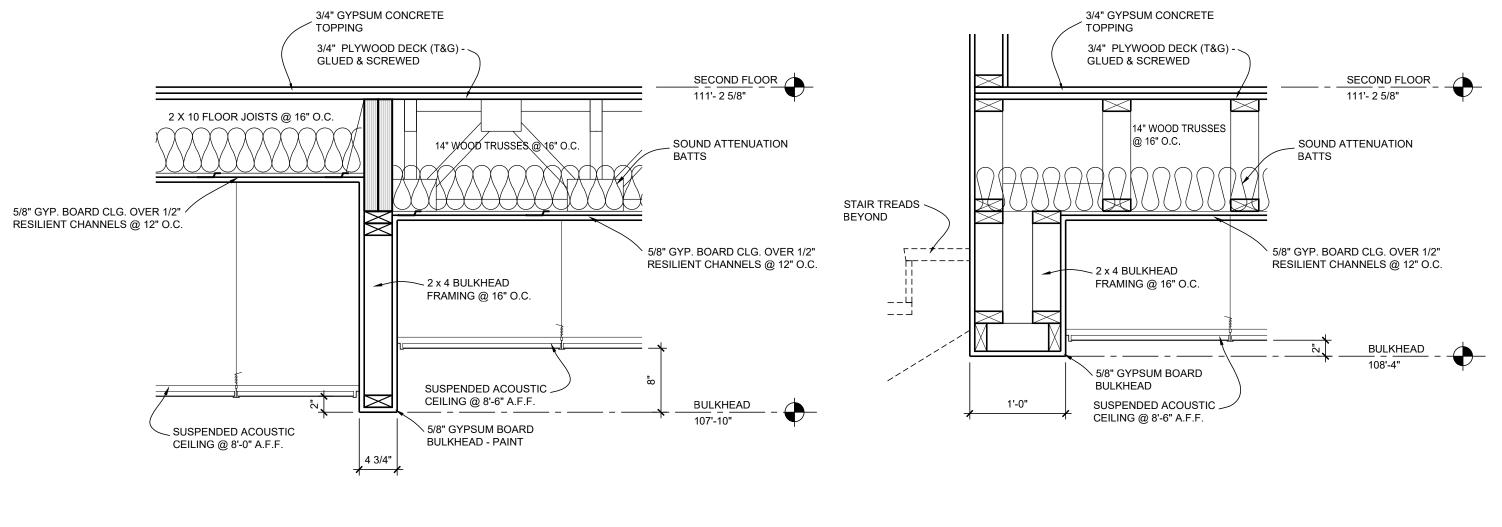
ROOM FINISH NOTES

- 1. PROVIDE ADA COMPLIANT VINYL TRANSITION STRIPS WHERE DISSIMILAR FLOORING MATERIALS ABUT. SEE SPECIFICATIONS.
- 2. FLOOR FINISH TRANSITIONS SHALL OCCUR BELOW CENTERLINE OF DOORS (UNLESS NOTED OTHERWISE).
- 3. EXTEND FLOOR AND WALL BASE AT ALL CABINET TOE SPACES, END PANELS, APPLIANCE RECESSES, KNEE SPACES, AND REMOVABLE CABINETS (UNLESS NOTED OTHERWISE).
- PAINT EXPOSED COLUMNS, PIPES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, CONDUIT HANGERS, SUPPORTS, BRACING, MECHANICAL CABINETS, ETC., WHICH OCCUR IN SPACES SCHEDULED TO BE PAINTED IN PART OR WHOLE; PS-4
- SEE REFLECTED CEILING PLANS FOR ACT AND GYPSUM BOARD BULKHEADS AND SOFFITS. PAINT ALL GYPSUM BOARD BULKHEADS AND SOFFITS; PS-1.
- INSTALL WINDOW TREATMENTS AT ALL WINDOWS IN COMMON AREAS. SEE SPECIFICATIONS.

LEGEND

ACT	ACOUSTICAL CEILING TILE (2X4)	SPEC SECTION 09 51 00
CPT	CARPET (BROADLOOM)	SPEC SECTION 09 68 00
GYP	GYPSUM DRYWALL	SPEC SECTION 09 21 16
PS	PAINT SYSTEM	SPEC SECTION 09 91 00
LVT	LUXURY VINYL TILE	
SC	SEALED CONCRETE	SPEC SECTION 03
VB	VINYL BASE (4")	SPEC SECTION 09 65 00
VCT	VINYL COMPOSITE TILE (12X12)	SPEC SECTION 09 65 00
VP	VINYL PLANK (6X48)	SPEC SECTION 09 65 00

ALLLIANDEE ARCHITECTS 929 Lincolnway East, Suite 200 South Bend, Indiana 46601	
AR00890043	
HOPE AVENUE HOMES 2923/2929 Hope Avenue South Bend, IN 46615 Bouth Bend, IN 46615	
HOPE 2923/2929 South Ber	
DATE: BID DATE: 4/2/21 © 2021 ALLIANCE ARCHITECTS ALL RIGHTS RESERVED	
SHEET NO.	

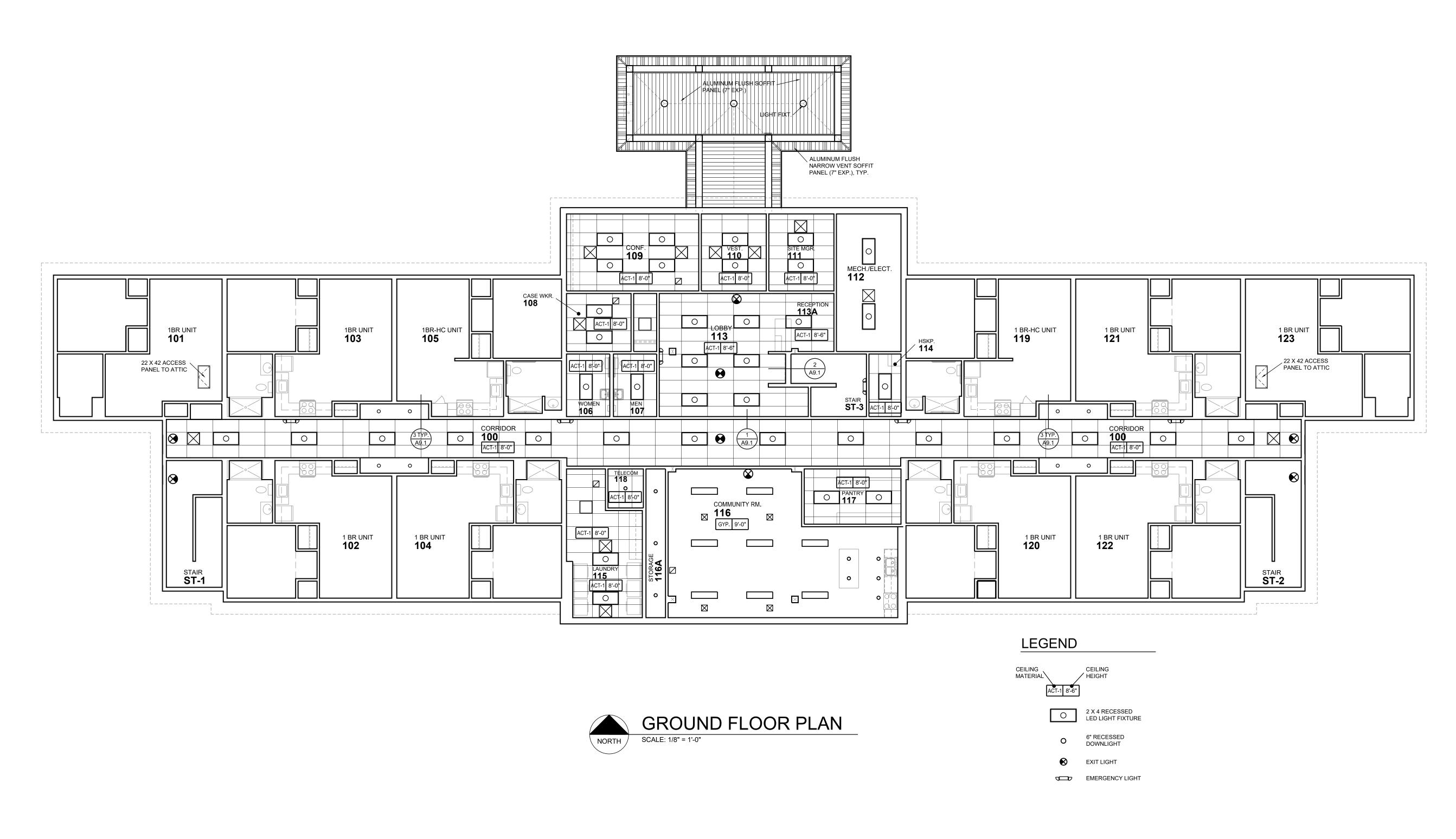


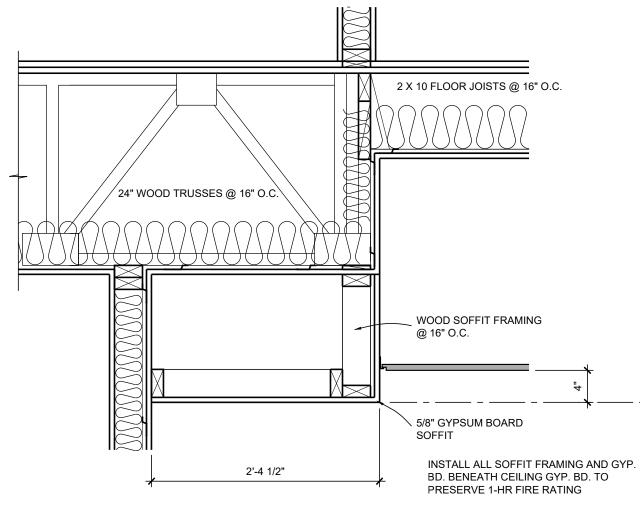
DETAIL

1" = 1'-0"

1

A9.1



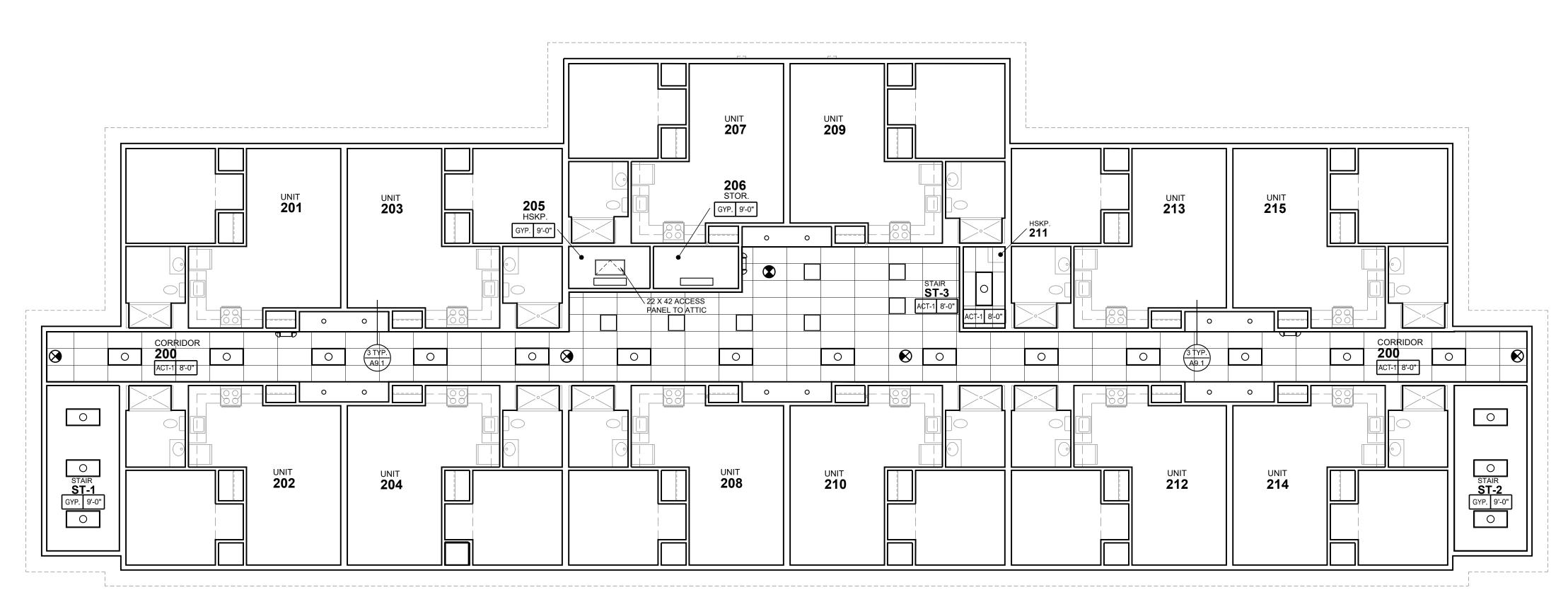


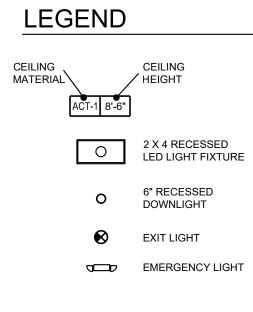




No. AR00890043 pu **South Ber** Heritage S HOME HOPE AVENUE I 2923/2929 Hope Avenue South Bend, IN 46615 DATE: BID DATE: 4/2/21 © 2021 ALLIANCE ARCHITECTS ALL RIGHTS RESERVED SHEET NO. A9.

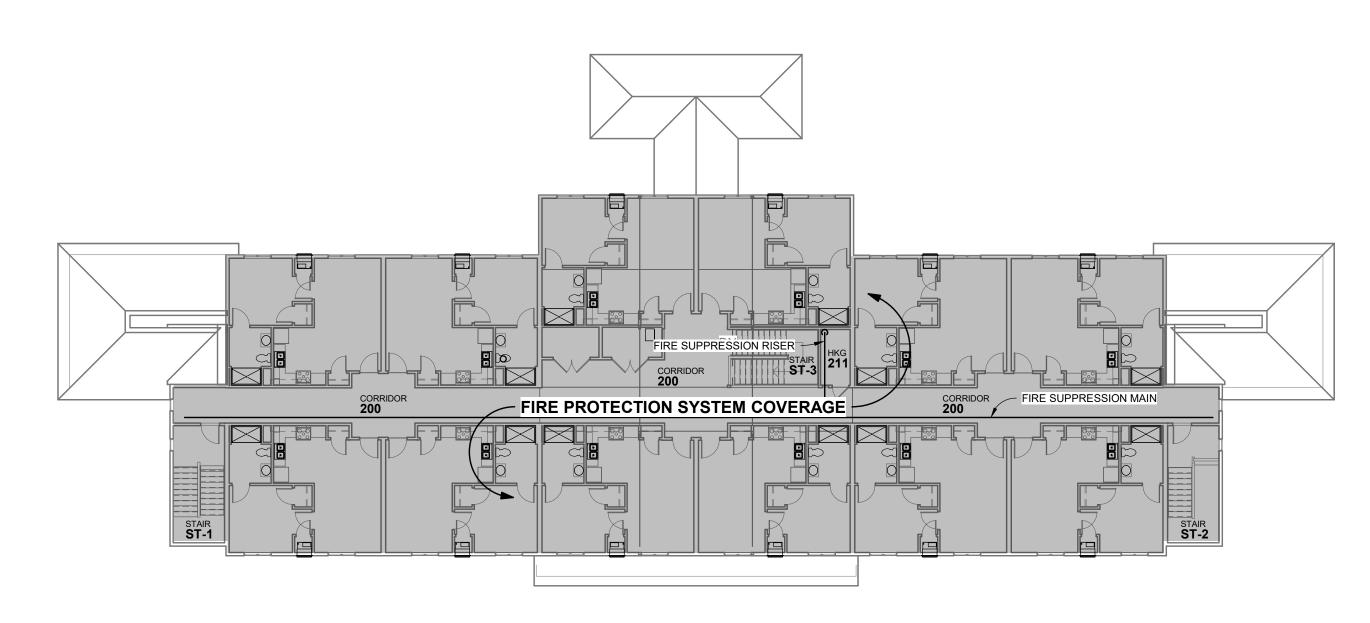
<u>SOFFIT</u> 107'-8"



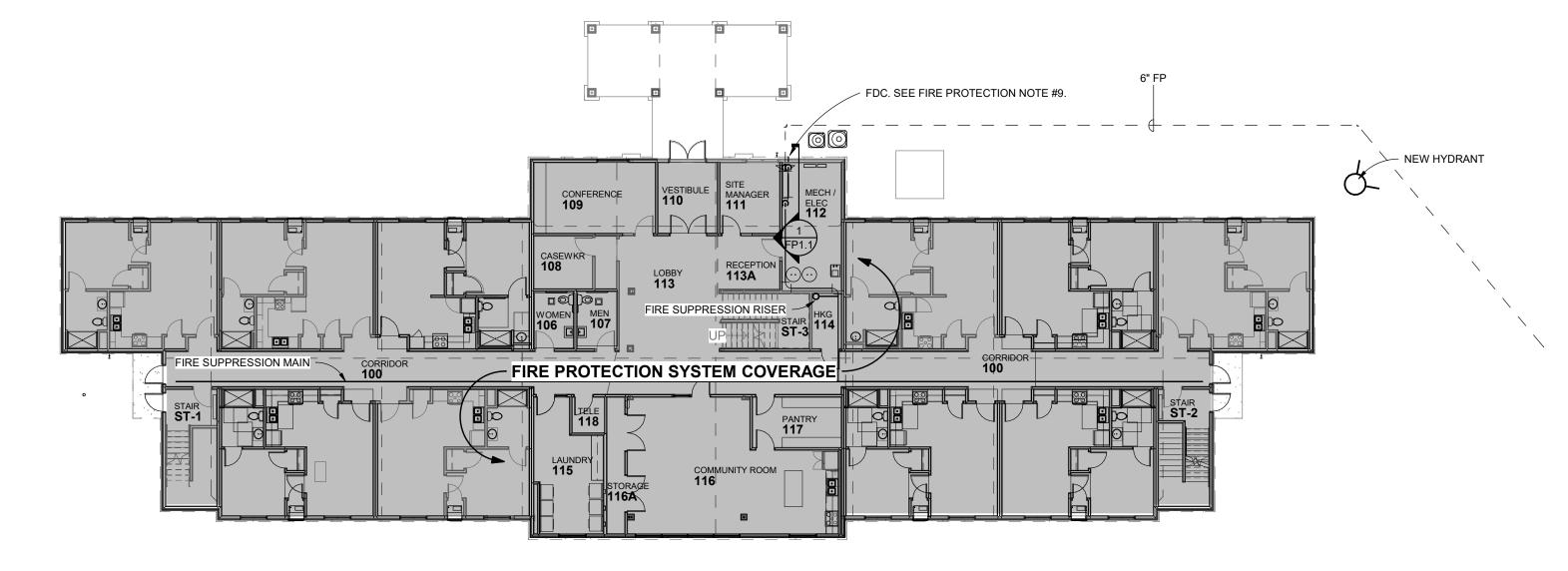














FIRE PROTECTION HATCH LEGEND

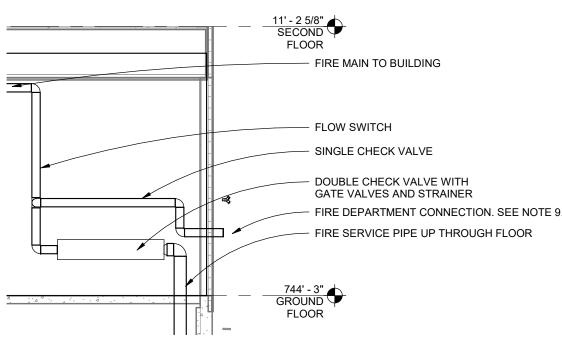
SHADED: NFPA 13R

FIRE PROTECTION NOTES

- SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS 1. ARCHITECT FOR COMMENT. SUBMIT SPRINKLER HEAD PRODUCT INFORMATION FOR REVIEW AND APPROVAL.
- BE REMOTE LOCATED FROM THE RISER SHALL BE APPROVED BY THE ARCHITECT AND BE ACCESSIBLE WITHIN THE BUILDING.
- GRID.
- FIRE PROTECTION SPRINKLER COVERAGE SHALL BE PROVIDED IN ALL SPACES WITHIN UNIT. INCLUDING RESTROOMS REGARDLESS OF SIZE, EXCEPT FOR ELEVATOR EQUIPMENT ROOM. SPRINKLER COVERAGE 5. SHALL BE PROVIDED ON THE ROOF DECK.
- MAXIMUM SPRINKLER HEAD SPACING SHALL BE BASED ON SPACE HAZARD LEVEL AND NFPA 13 TABLES 8.8.2.1.2 AND 8.9.2.2.1

6.

- SUBMIT DRAWINGS AND CALCULATIONS FOR STATE REVIEW.
- 8. HAVING JURISDICTION. PROVIDE AUTOMATIC CHECK VALVE WITH DRAIN TO OUTDOORS.
- 9. EQUIPMENT SUPPORTS.
- 10.
- 11. ASSEMBLY, AS REQUIRED BY STATE CODE AND LOCAL RULES.
- THE SPRINKLER CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND MAKE ADJUSTMENTS TO 12.
- 13. 14 DRAWINGS AND HYDRAULIC CALCULATIONS FOR STATE AND LOCAL REVIEW.
- 15. AND SIZE.



FIRE SERVICE ELEVATION SCALE: 1/4" = 1'-0"

ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODE REQUIREMENTS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION FEES AND STATE PLAN REVIEW FEES AS NECESSARY FOR CONSTRUCTION. PRIOR TO SUBMITTAL TO THE STATE, SUBMIT COMPLETE SYSTEM DRAWINGS SHOWING ALL CEILING SUPPORTED MECHANICAL AND ELECTRICAL ITEMS TO THE

THE BUILDING SHALL BE PROTECTED WITH A WET PIPE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13R. ALL FIRE PROTECTION SYSTEMS AND COMPONENTS SHALL BE IN COMPLIANCE WITH NFPA SECTIONS 13 AND 14, AS WELL AS LOCAL FIRE PREVENTION BUREAU STANDARDS. LOCATIONS OF DRAINS TO

SPRINKLER HEADS IN ACOUSTICAL CEILINGS AND IN GYPSUM BOARD CEILINGS TO BE VIKING CONCEALED PENDANT HEADS. UTILIZE MODEL FSC-25U FLEXIBLE SPRINKLER CONNECTION SUPPORTED FROM CEILING

CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS FOR THE BUILDING SPRINKLER SYSTEM. THE CONTRACTOR IN COORDINATION WITH LOCAL AUTHORITIES SHALL FLOW TEST THE WATER SUPPLY SYSTEM TO ASCERTAIN ACTUAL STATIC, RESIDUAL AND FLOW PRESSURES AND QUANTITIES TO VERIFY EXISTING CONDITIONS, PRIOR TO ORDERING ANY EQUIPMENT OR SUBMITTING FINAL CALCULATIONS. RISER AND PIPE SIZING TO BE DETERMINED BY THE SPRINKLER SYSTEM DESIGNER BASED UPON THE WATER PRESSURE AVAILABLE AFTER THE BACKFLOW PREVENTION DEVICE AND VALVES. SPRINKLER SYSTEM DESIGNER TO

SIAMESE CONNECTION SHALL BE GUARDIAN FIRE EQUIPMENT, INC. MODEL 6114. THREAD TO COMPLY WITH LOCAL FIRE DEPARTMENT STANDARDS. FINAL LOCATION(S) TO BE CONFIRMED WITH THE FIRE AUTHORITIES

CONTRACTOR SHALL DO ALL NECESSARY CUTTING AND PATCHING, AS WELL AS ALL NECESSARY PIPE AND

PRESSURE TEST ENTIRE SYSTEM AND REPAIR ANY LEAKS. CONTRACTOR TO BE RESPONSIBLE FOR ANY DAMAGE TO PROPERTY AND PERSONNEL CAUSED BY FAULTY INSTALLATION OR MATERIALS.

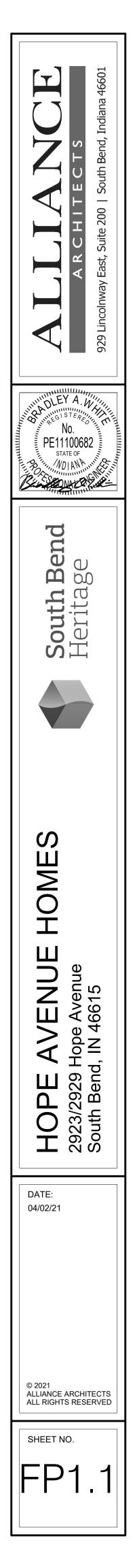
THE SPRINKLER CONTRACTOR SHALL FURNISH AND INSTALL AN APPROVED DOUBLE CHECK VALVE

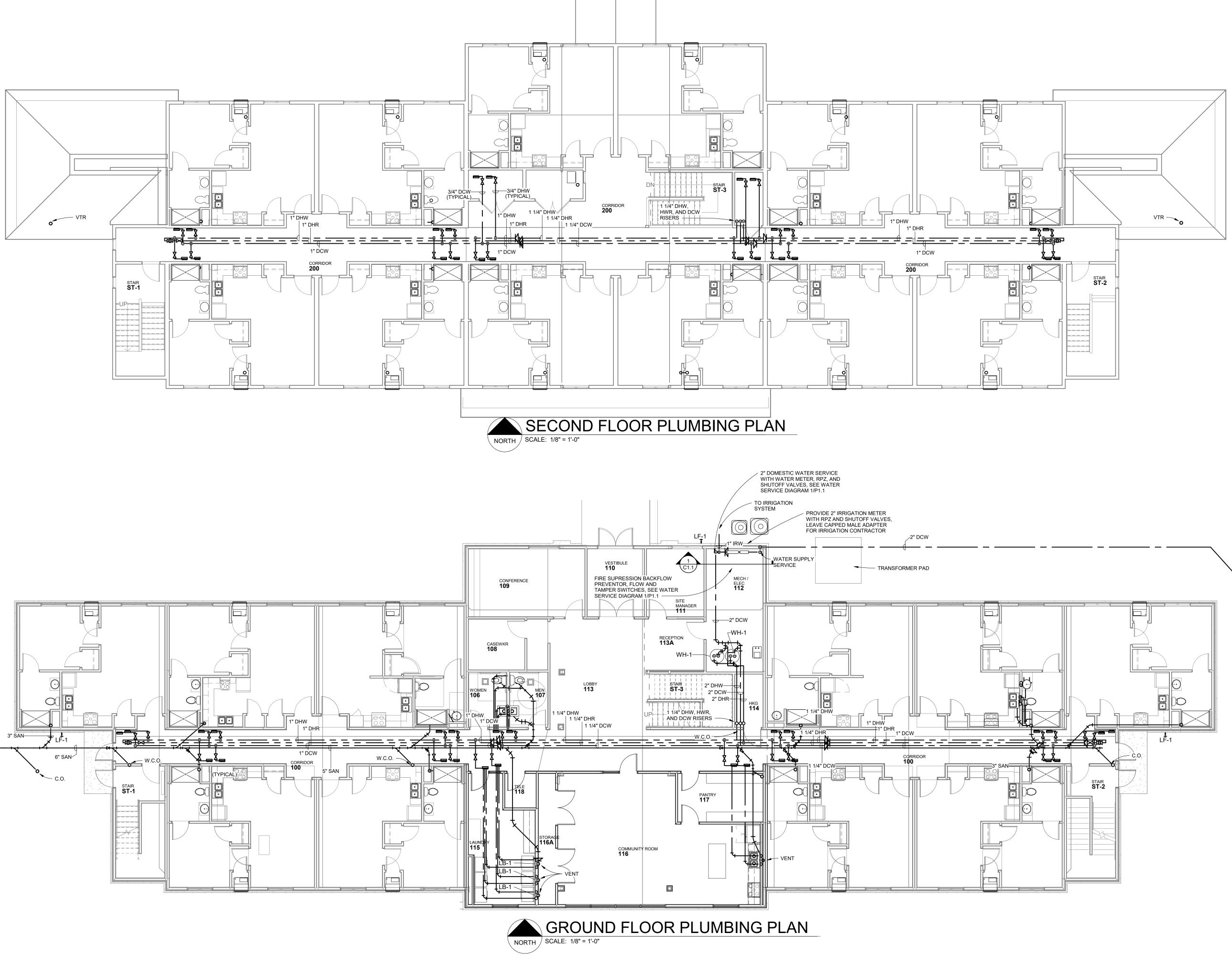
NUMBER OF HEADS AND FINISHED CEILING MATERIAL TYPES AS NECESSARY TO ENSURE THAT HEADS ARE PLACED IN CENTER OF SUSPENDED ACOUSTICAL CEILING TILES. HE SHALL ALSO COORDINATE HIS FINAL SHOP DRAWINGS WITH THE OTHER TRADES TO AVOID CONFLICT BETWEEN HIS PIPING AND THE PIPING, CONDUITS, AND DUCTWORK OF THE OTHER RESPECTIVE CONTRACTORS ON THIS PROJECT.

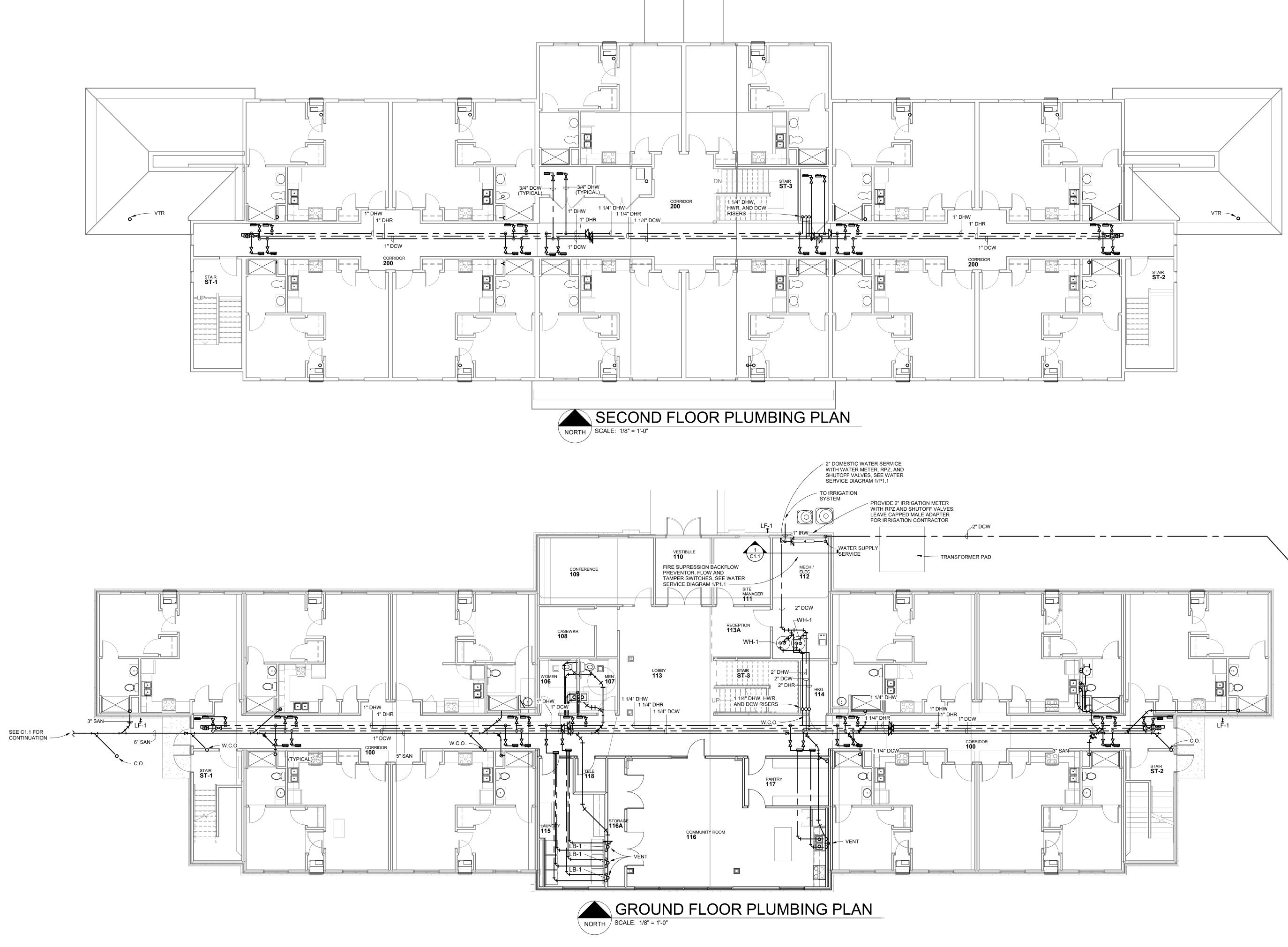
THE SPRINKLER CONTRACTOR SHALL FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS. IT IS THE DESIGN INTENT THAT THE FIRE PROTECTION SYSTEM BE BY DELEGATED DESIGN. SYSTEM AS SHOWN IS SCHEMATIC ONLY. CONTRACTOR TO FULLY DESIGN SYSTEM AND SUBMIT ALL REQUIRED

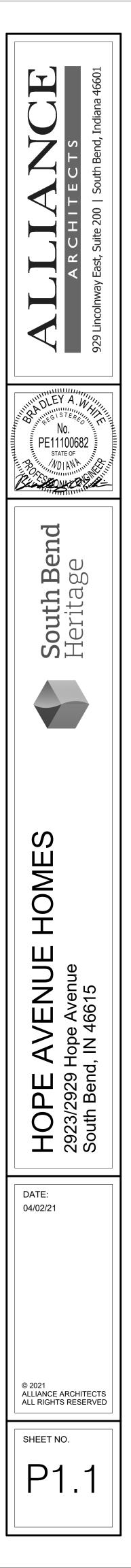
MAIN AND RISERS SHOWN FOR PLANNED ROUTE AND COORDINATION. CONTRACTOR TO CONFIRM ROUTE

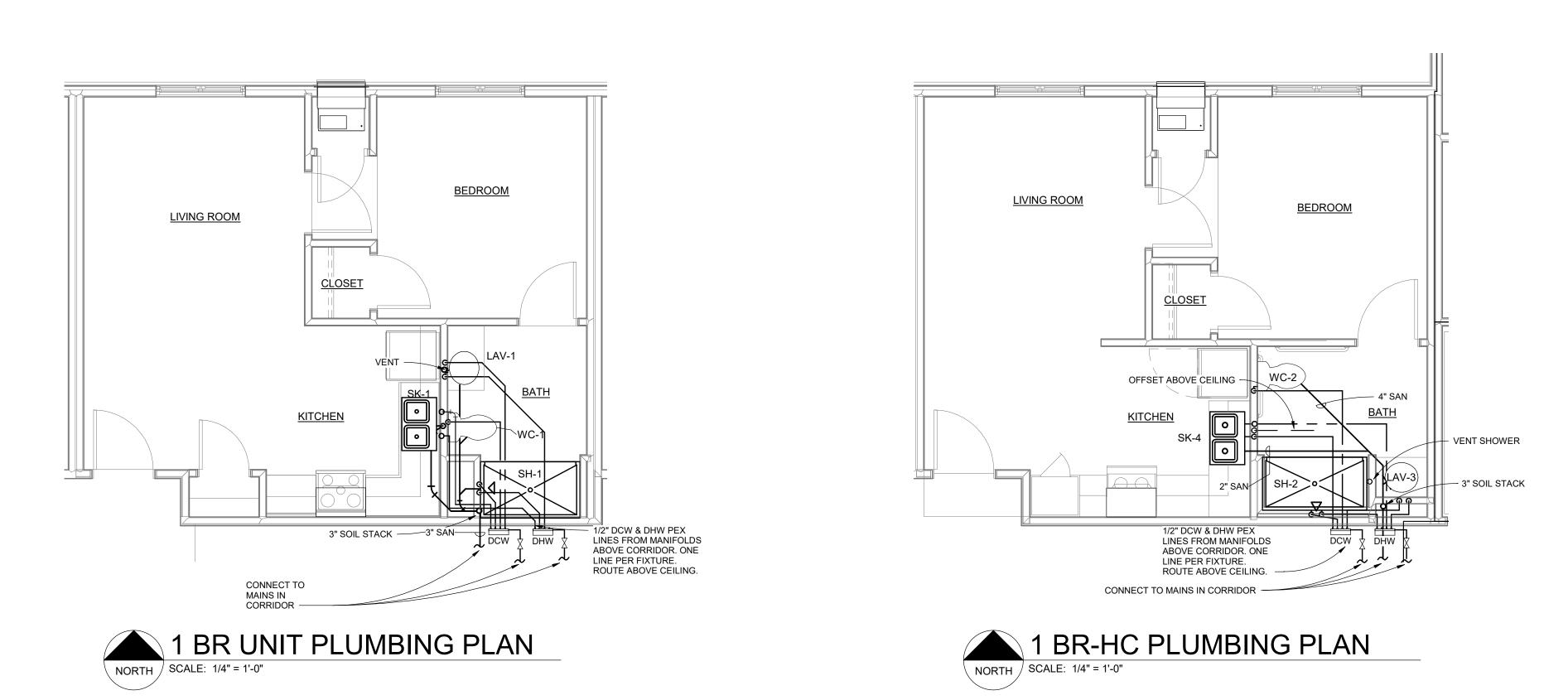












	PLUM	BING F	FIXTUF	RE	S	Cł	HEDULE
MADIC	DECODIDITION		MODEL	PI	PE SI	ZE	NOTEO
MARK	DESCRIPTION	MAKE	MODEL	CW	HW	SAN	NOTES
со	CLEANOUT						SEE SPECS
LAV-1	DROP IN LAVATORY WITH 4" CENTERS	STERLING	441904	3/8"	3/8"	1 1/2"	PROVIDE MOEN WS4503. 1.5GPM MAX
LAV-2	WALL HUNG LAVATORY WITH SHROUD BELOW	KOHLER	K-2035 W, SHROUD	1/2"	1/2"	1 1/2"	PROVIDE MOEN L4605 FAUCET. PROVIDE CHROME STRAINER DRAIN, INCLUDE PROTECTIVE INSULATION ON SUPPLY AND RETURN PIPING.
LAV-3	ADA DROP IN LAVATORY WITH 4" CENTERS	STERLING	441904	3/8"	3/8"	1 1/2"	PROVIDE MOEN L4605 FAUCET. 1.5GPM MAX
LB-1	LAUNDRY BOX	IPSCORP	W4702 HA	1/2"	1/2"	2 1/2"	1/2" SUPPLY CONNECTORS ARE PEX CONX.
LF-1	LAWN FAUCET	ZURN	Z1341XL	1/2"			
SH-1	SHOWER	BEST BATH	5LRS6034E75B	3/8"	3/8"	1 1/2"	PROVIDE KOHLER K-T10276-4E W/ K-99243 HAND SHOWER AND K-T10290 TRANSFER VALVE MOEN L82694P W/ S3870EP
SH-2	ADA SHOWER	BEST BATH	5LES6331A75B	3/8"	3/8"	1 1/2"	PROVIDE KOHLER K-T10276-4E W/ K-99243 HAND SHOWER AND K-T10290 TRANSFER VALVE MOEN L82694P W/ S3870EP
SK-1	STAINLESS STEEL DOUBLE BOWL - LEVER HANDLE FAUCET W/ SIDE SPRAY	JUST MANUFACTURING	DL-2133-A-GR	1/2"	1/2"	1 1/2"	8" DEPTH. FAUCET TO PROVIDE 1.5 GPM MAX. PROVIDE DELTA 340-WE-DST FAUCET AND SIDE SPRAY.
SK-3	STAINLESS STEEL DOUBLE BOWL ADA KITCHEN SINK	JUST MANUFACTURING	UDF-ADA-1632-A	1/2"	1/2"	2"	SPECIFY "CENTER REAR" DRAIN LOCATION 4 1/2" DEPTH. PROVIDE DELTA 140-WE-DST. PROVIDE SIDE SPRAY AT HC UNITS. FAUCET TO PROVIDE 1.5 GPM MAX
SK-4	STAINLESS STEEL DOUBLE BOWL ADA KITCHEN SINK	JUST MANUFACTURING	DL-ADA-2133-A-GR	1/2"	1/2"	2"	SPECIFY "CENTER REAR" DRAIN LOCATION 4 1/2" DEPTH. PROVIDE DELTA 140-WE-DST. PROVIDE SIDE SPRAY AT HC UNITS. FAUCET TO PROVIDE 1.5 GPM MAX
WC-1	BOTTOM OUTLET, HANDICAPPED HEIGHT 1.6 MAX GPF WATER CLOSET	KOHLER	HIGHLINE K-6393/K-6393-RA- 0	3/8"	0"	3"	PROVIDE TANK LEVER ON OPEN SIDE, INCLUDE SEAT W/ LID BEMIS 7900TJ
WC-2	BOTTOM OUTLET, HANDICAPPED HEIGHT 1.6 MAX GPF WATER CLOSET	KOHLER	HIGHLINE K-6393/K-6393-RA- 0	3/8"	0"	3"	PROVIDE TANK LEVER ON OPEN SIDE, INCLUDE SEAT W/ LID BEMIS 7900TJ
WC-3	BOTTOM OUTLET, HANDICAPPED HEIGHT 1.6 MAX GPF WATER CLOSET	KOHLER	HIGHLINE K-6393/K-6393-RA- 0	3/8"	0"	3"	PROVIDE TANK LEVER ON OPEN SIDE. INCLUDE OPEN SEAT W/O LID - BEMIS 1955CT.

			W	ATE	R HE	ATER	R SCH	HEDI	JLE
MARK	DESCRIPTION	MAKE	MODEL	VOLUME	HEA	ATING	ELECT	RICAL	
WARK	DESCRIPTION	MARE	MODEL	VOLUME	CAPACITY	EFFICIENCY	VOLTAGE	POWER	NOTES
WH-1	DOMESTIC WATER HEATER	BRADFORD WHITE	LG2100H803N	95 GALLONS	80000 Btu/h	0.57	NA	NA	

1	ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODE REQUIREMENTS. AS
••	WELL AS ALL APPLICABLE ORDINANCES AND REGULATIONS HAVING JURISDICTION. INSTALL EQUIPMENT TO
	MEET MANUFACTURER'S INSTRUCTIONS AND CLEARANCE REQUIREMENTS, AND ALL APPLICABLE CODE
	REQUIREMENTS.

- DRAWINGS ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK. DUCTWORK, PIPING, AND 2. SYSTEMS SHALL FOLLOW ARRANGEMENT AS MUCH AS POSSIBLE, HOWEVER, ACTUAL FIELD CONDITIONS SHALL DICTATE. PROVIDE NECESSARY MODIFICATIONS AND TRANSITIONS TO MEET FIELD CONDITIONS AND AVOID CONFLICT WITH OTHER TRADES. IF RESOLUTION CANNOT BE REACHED WITHOUT COMPROMISING THE DESIGN, THESE CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR RESOLUTION. IN CONFLICT AREAS, COMPLETE ONLY WORK NOT AFFECTED BY THE CONFLICT PRIOR TO RESOLUTION.
- THE FLOOR PLANS DO NOT SHOW ALL VALVES, FITTINGS, APPURTENANCES, ACCESS PANELS, ELEVATION CHANGES, AND VARIOUS OTHER ITEMS, THESE SHALL BE PROVIDED WITHOUT ADDITIONAL COST FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM. 3.
- COORDINATE ROUTING OF PIPING, DUCTWORK, FIRE SUPRESSION, ETC. PRIOR TO STARTING INSTALLATION. 4. MECHANICAL AND ELECTRICAL TRADES SHALL REVIEW AVAILABLE SPACING AND COORDINATE ALL SYSTEM ROUTING PRIOR TO INSTALLATION. FIELD VERIFY ALL FRAMING, CEILING HEIGHTS, ETC. BEFORE ORDERING OR FABRICATING SYSTEMS AND/OR PARTS OF SYSTEMS.
- HANGER SYSTEM FOR DUCTWORK, PIPING AND EQUIPMENT SHALL BE SECURED TO BUILDING STRUCTURAL 5. SYSTEM. MOTORIZED EQUIPMENT SUPPORTED FROM WOOD FRAMING SHALL INCLUDE VIBRATION ISOLATION MOUNTS.
- SEAL ALL PENETRATIONS THRU INTERIOR AND/OR EXTERIOR WALLS AND THROUGH CEILINGS AND/OR ROOFS. 6.
- 7. VENTS THROUGH ROOF SHALL BE LOCATED AS SHOWN ON ROOF PLAN. PROVIDE CLEAN OUTS AT DRAIN LINES PER CODE AND AS SHOWN. 8.
- SEE MECHANICAL SHEETS FOR EQUIPMENT, PROVIDE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN OR HUB 9.
- DRAIN INSTALL FULL SIZE PIPING FROM WATER HEATER RELIEF VALVE TO FLOOR DRAIN. 10.
- CLEAN DEBRIS FROM DRAIN LINES PRIOR TO SETTING FIXTURES. 11.
- 12. UNLESS NOTED OTHERWISE, ALL SANITARY DRAIN PIPING IS SHOWN UNDER SLAB.
- 13. PROVIDE HAMMER ARRESTORS AT KITCHEN SINK SUPPLIES AND AT UPPER FLOOR MANIFOLDS.
- ALL FIXTURES TO BE WHITE, UNLESS NOTED OTHERWISE. 14.
- AT COMMON AREA TOILET ROOMS, PROVIDE ASSE 1070 COMPLIANT TEMPERING VALVE AT EACH LAVATORY, 15. WATTS LFUSG-B OR EQUAL.

WATER SUPPLY NOTES

1. SEAL ALL PENETRATIONS THRU INTERIOR AND/OR EXTERIOR WALLS AND THROUGH CEILINGS AND/OR ROOFS. 2. INSTALL FULL SIZE PIPING FROM WATER RELIEF VALVE TO FLOOR DRAIN.

PROVIDE SHUT OFFS FOR FROST PROOF SILL COCKS IN THE CEILING SPACE ADJACENT TO THE EXTERIOR WALL.

4. PROVIDE INDIVIDUAL STOPS AT EACH FIXTURE FOR CW AND HW SUPPLY. STORAGE WATER HEATERS TO HAVE 140°F SETPOINT, THERMOSTATIC MIXING VALVES TO HAVE 120°F

SETPOINT.

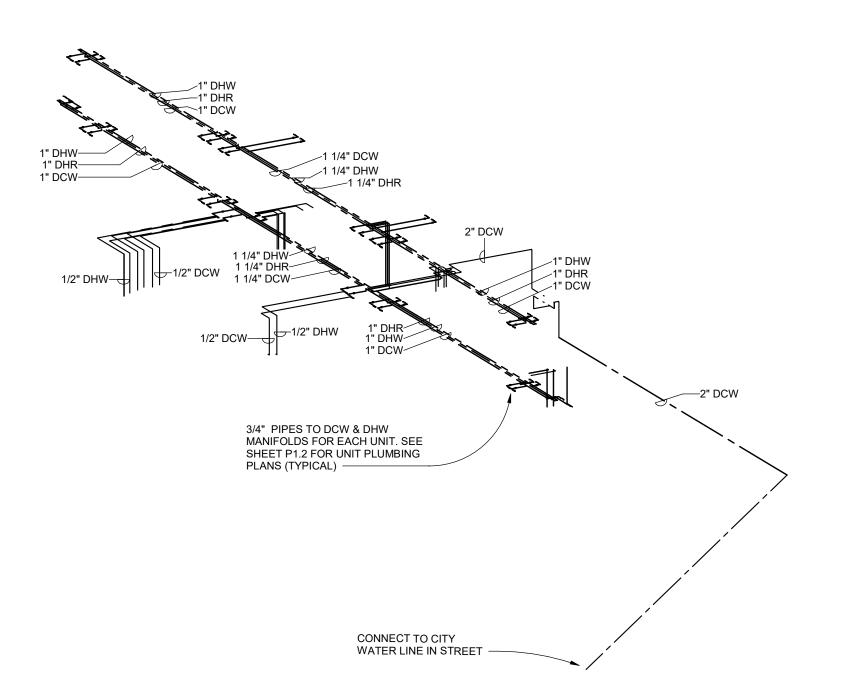
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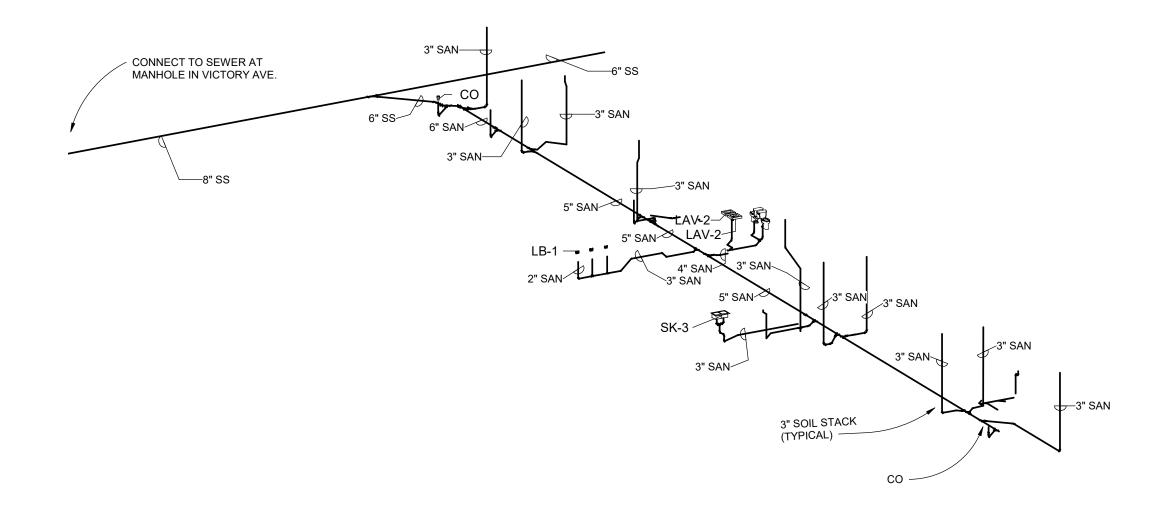
6. ADJUST ALL LAVATORY FAUCETS TO 110°F MAX.

7. UNLESS OTHERWISE NOTED OR TERMINATING AT FIXTURE, ALL HORIZONTAL PIPING SHOWN IS OVERHEAD OR ABOVE CEILING

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0.		2923/2929 Hope Avenue	Teritage	A. J TERES 10068 10068 10068	ARCHITECTS
2	TECTS	South Bend, IN 46615			929 Lincolnway East, Suite 200 South Bend, Indiana 46601

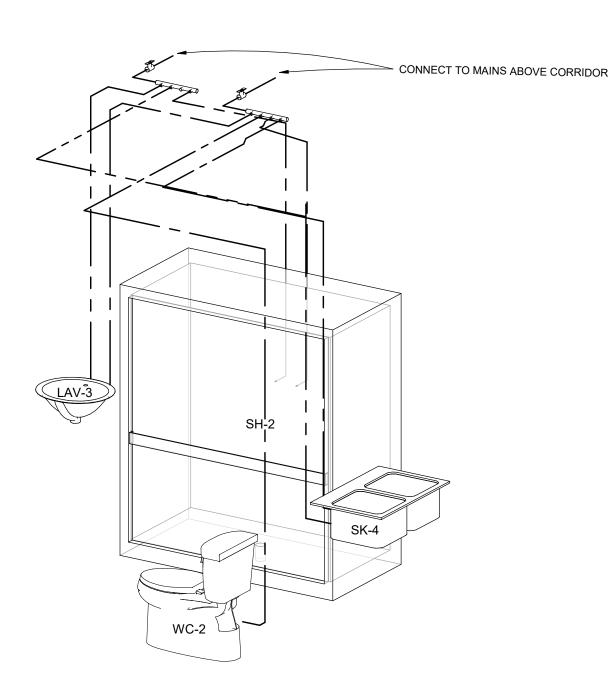


DCW & DHW SUPPLY MAINS ISOMETRIC

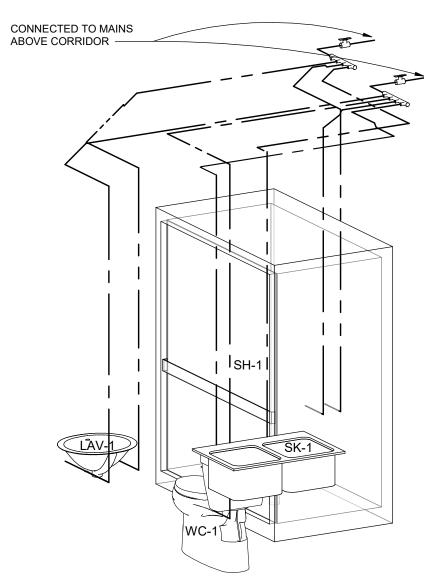


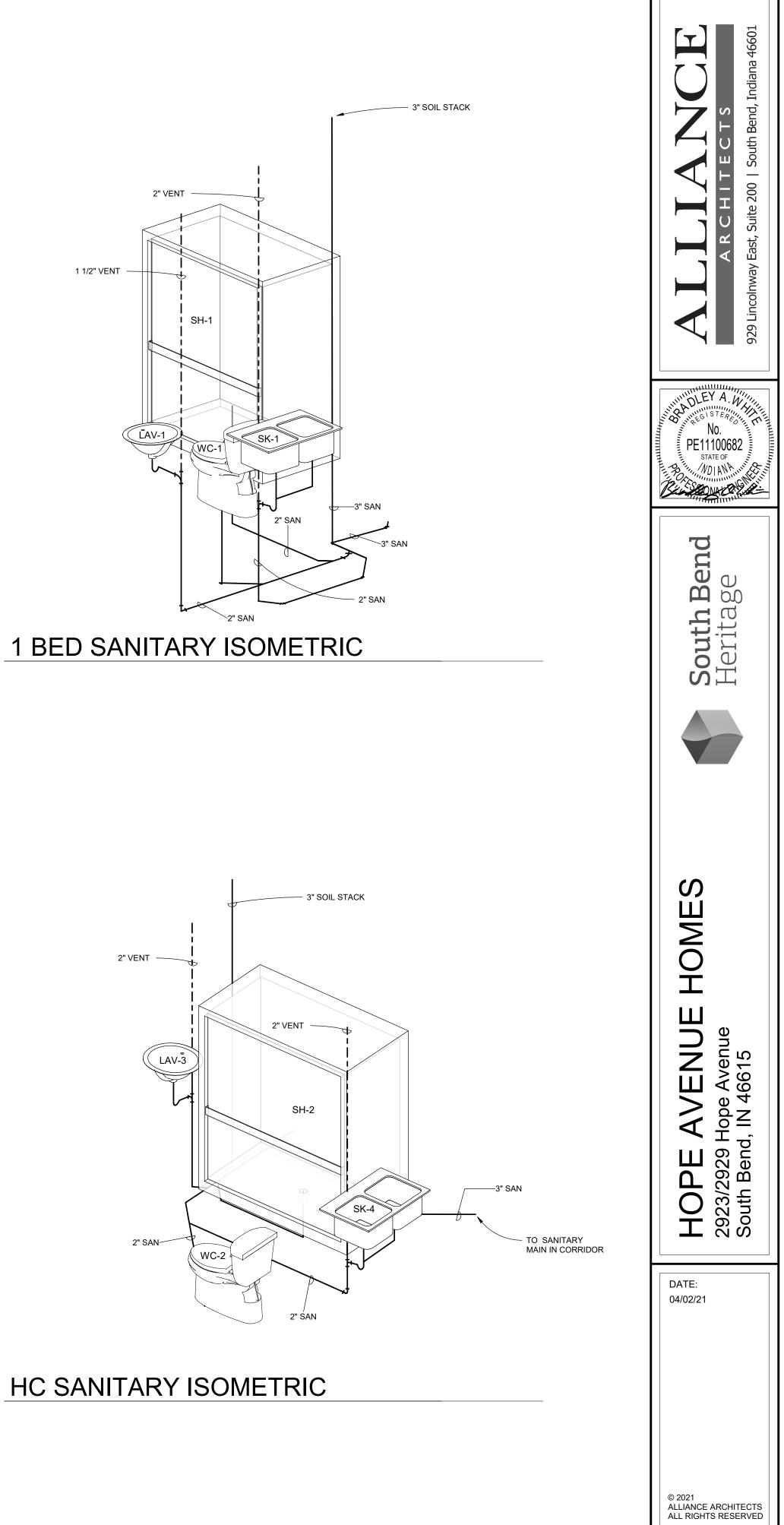
SANITARY MAINS ISOMETRIC

HC SUPPLY ISOMETRIC

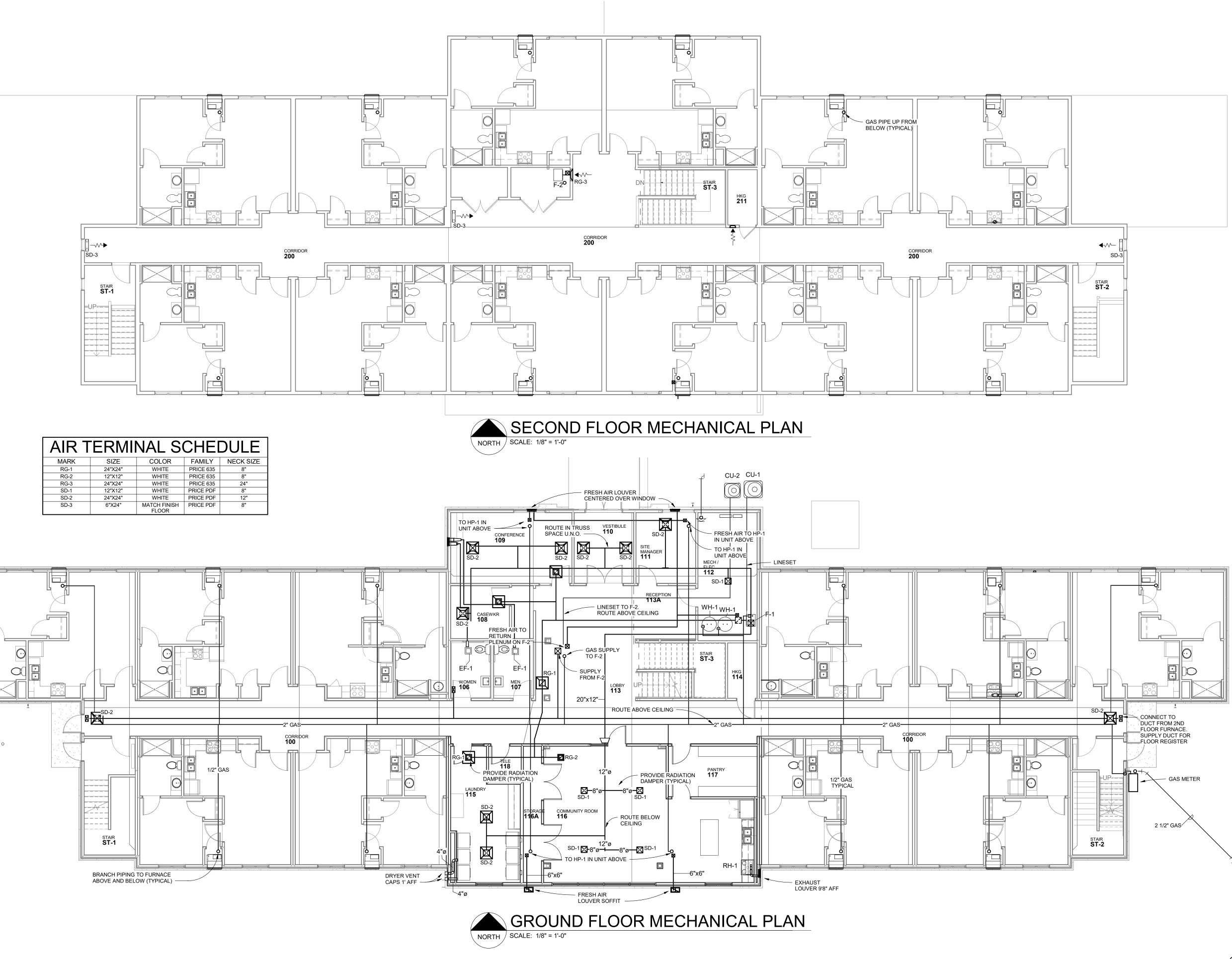


1 BED SUPPLY ISOMETRIC

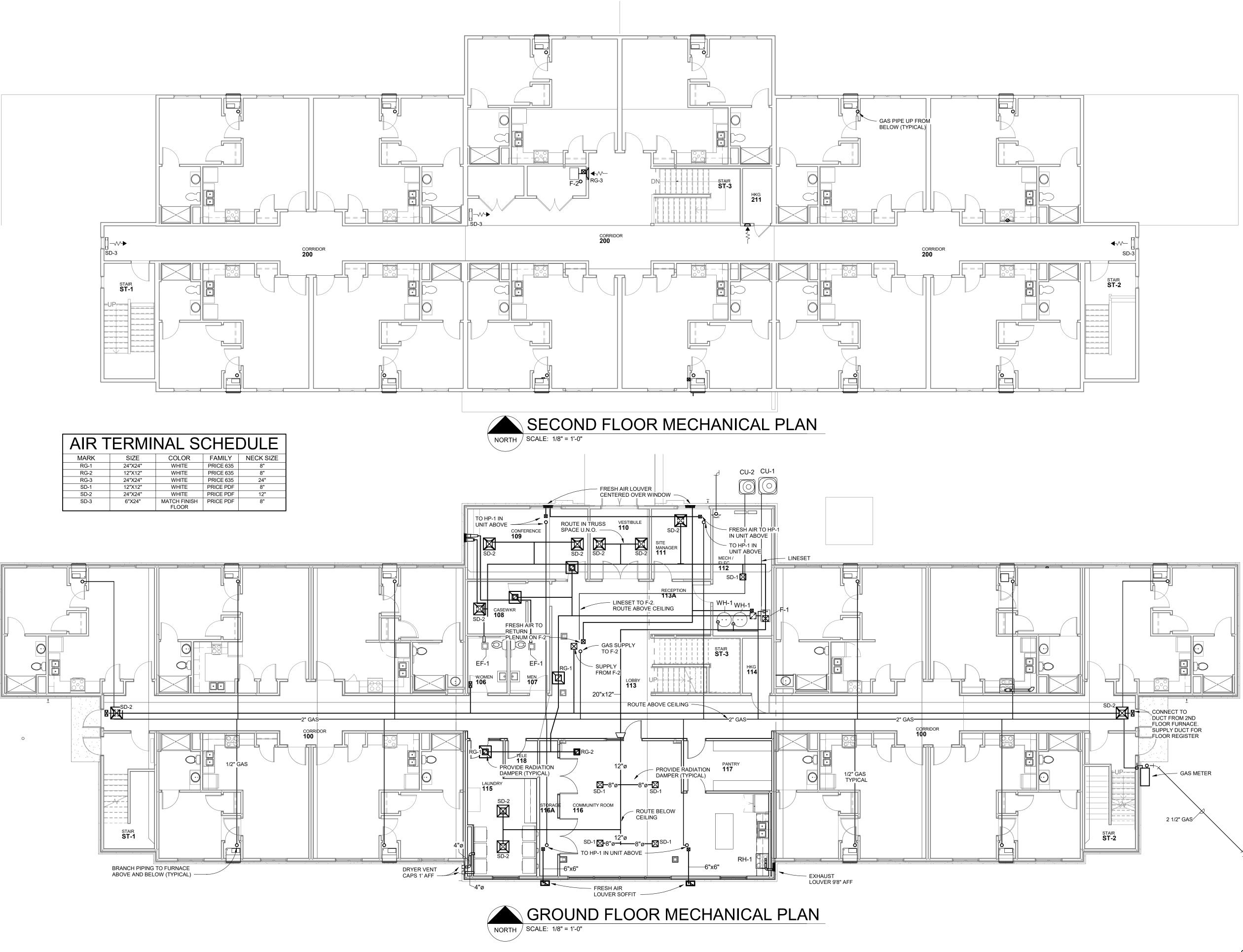




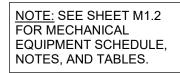
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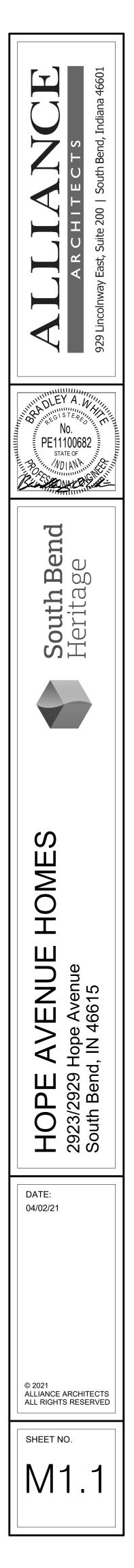


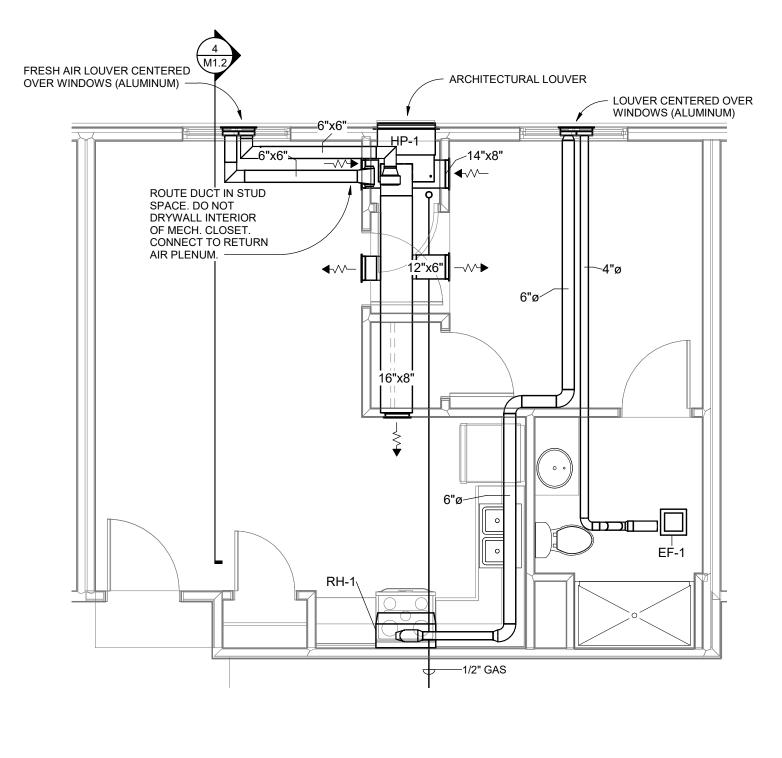
AIR T	ERMI	NAL S	CHE	DULE
MARK	SIZE	COLOR	FAMILY	NECK SIZE
RG-1	24"X24"	WHITE	PRICE 635	8"
RG-2	12"X12"	WHITE	PRICE 635	8"
RG-3	24"X24"	WHITE	PRICE 635	24"
SD-1	12"X12"	WHITE	PRICE PDF	8"
SD-2	24"X24"	WHITE	PRICE PDF	12"
SD-3	6"X24"	MATCH FINISH FLOOR	PRICE PDF	8"



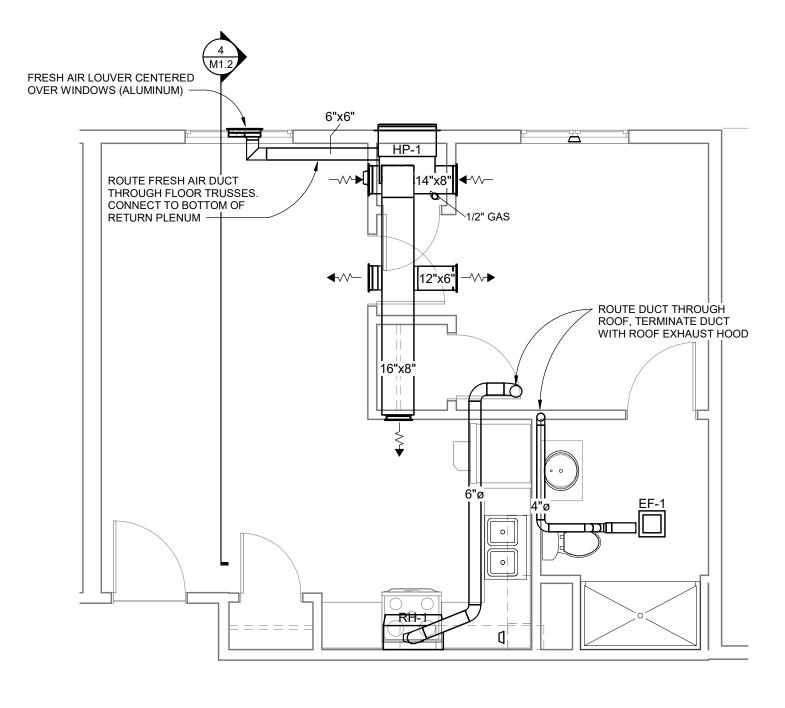
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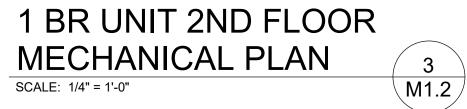




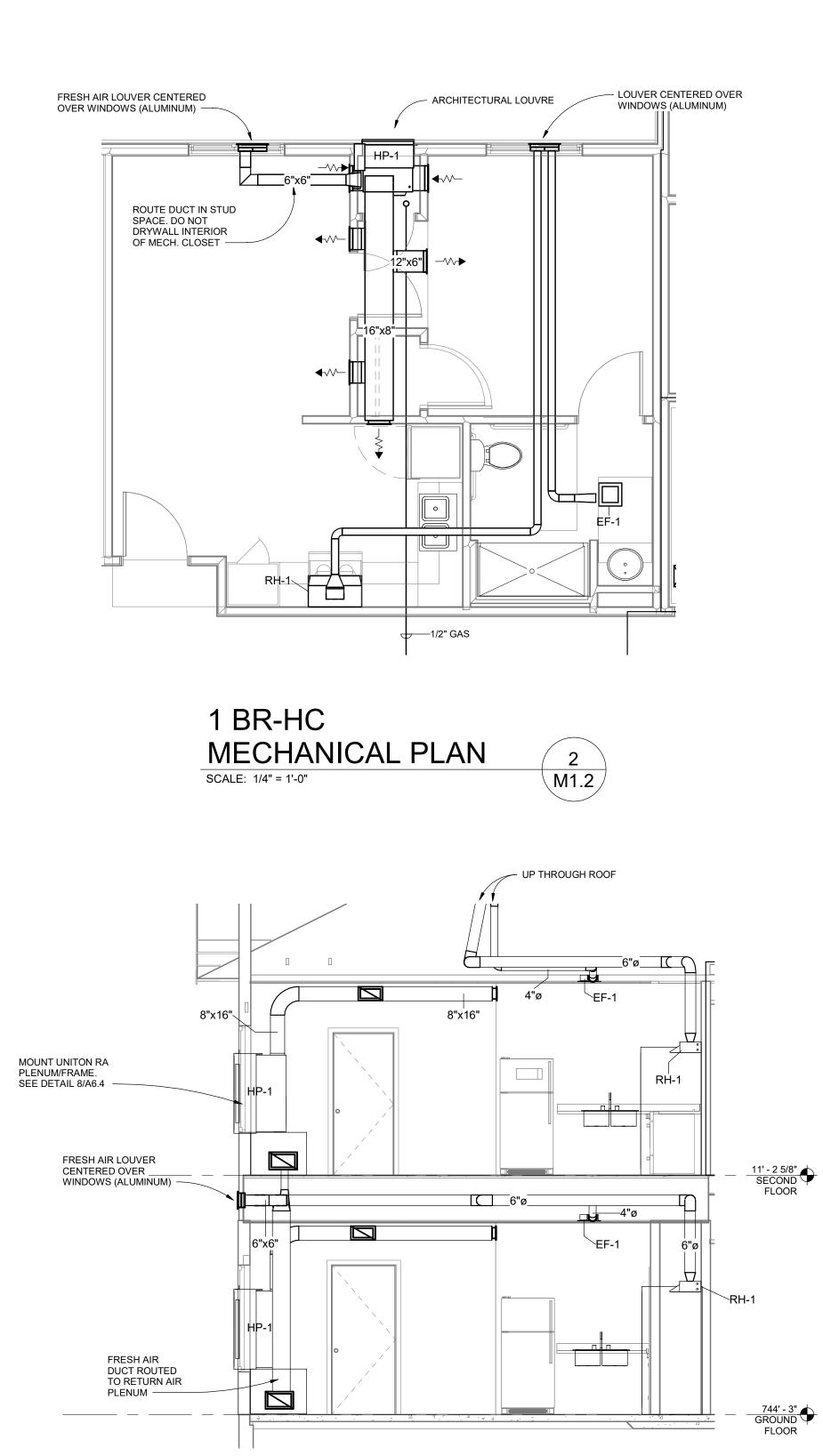








				MEC	CHANI		QUIPM	1ENT S	SCHED	ULE			
MARK	MAKE	MODEL	DESCRIPTION	AIRFLOW	HEA	TING	COO	LING		ELECTI	RICAL		NOTES
MARK	IVIANE	WIODEL	DESCRIPTION	AIRFLOW	CAPACITY	EFFICIENCY	CAPACITY	EFFICIENCY	VOLTAGE	POWER	MCA	MOCP	
CU-1	DUCANE	4AC16L59P-50	OUTDOOR CONDENSING UNIT				56000.0 Btu/h	EER 11.70 SEER 14.00	208 V	3.3KW	28 A	45 A	MOUNT ON CONCRETE PAD, PROVIDE REFRIGERANT LINESET TO F-1
CU-2	DUCANE	4AC16L30P-50	OUTDOOR CONDENSING UNIT				28400.0 Btu/h	EER 12.20 SEER 14.00	208 V	1.5 KW	17 A	25 A	MOUNT ON CONCRETE PAD, PROVIDE REFRIGERANT LINESET TO F-2
EF-1	PANASONIC	FV-08-11VF5	BATHROOM EXHAUST FAN	80CFM					120 V	16W			ON ALL FIRST FLOOR UNITS, PROVIDE RADIATION DAMPER PC-RD05C3
F-1	DUCANE	96G2UH135DV20	UPFLOW FURNACE FOR COMMON AREAS	2000CFM	74000.0 Btu/h	AFUE 96%	54000.0 Btu/h	EER 11.70 SEER 14.00	120 V				PROVIDE DUCANE CONDENSING UNIT 4AC16L59P-50 WITH EVAPORATOR EAC4X60C. PROVIDE NEEDLE POI BIPOLAR IONIZATION MODULE, SEE NOTE 12.
F-2	DUCANE	92G1DF070BE12	DOWNFLOW FURNACE FOR CORRIDORS	1200CFM	64000.0 Btu/h	AFUE 92.1%	30000.0 Btu/h	EER 12.20 SEER 14.00	120 V				PROVIDE DUCANE CONDENSING UNIT 4AC16L30P-50 WITH EVAPORATOR EAC4X30B. PROVIDE NEEDLE POI BIPOLAR IONIZATION MODULE, SEE NOTE 12
F-3	MAGIC-PAK	HWC9N3312P18A	PACKAGE UNIT WITH GAS HEATING AND ELECTRIC COOLING	560CFM	31000.0 Btu/h	95%	17000.0 Btu/h	0.75	208 V	2700W	13 A	15 A	PROVIDE NEEDLE POINT BIPOLAR IONIZATION MODUL SEE NOTE 12
RH-1	BROAN	46000	30" DUCTED RANGE HOOD	180CFM					120 V	220W	2 A		WHITE ON WHITE FINISH. IN HC UNITS AND COMMON AREA, PROVIDE HORIZONTALLY MOUNTED WALL SWITCHES TO CONTROL FAN AND LIGHT SEPERATELY



1.	INSTAL DO NO
2.	FIRE ST
3.	TRUSS PLANS
4.	PACK C
5.	PROVID
6.	REGIST
7.	FIRE D
8.	DRYER
9.	DUCT S ADJUS
10.	SEE EL
11.	INCLUE
12.	NEEDLI 2998 FC

	VENTILATION	
ZONE NAME	AIRFLOW	AREA
COMMUNITY ROOM	350 CFM	673 SF
DOWNSTAIRS CORRIDOR	130 CFM	1077 SF
LAUNDRY	50 CFM	221 SF
MAIN OFFICES	50 CFM	566 SF
MECHANICAL ROOM	0 CFM	259 SF
PUBLIC BATHROOMS	0 CFM	128 SF
UPSTAIRS CORRIDOR	92 CFM	1383 SF

GA	١S	Ρ
1.	UN	LES

2.	ALL GAS
3.	ALL BUF WITH SL
4.	ALL 5PS SPECIFI OUTLET
5.	WHERE



MECHANICAL NOTES

LL FIRE DAMPERS WHERE NOTED ON PLAN. RIGID DUCT PENETRATING CEILING OR FLOOR MEMBRANE OT REQUIRE A DAMPER.

STOP AND/OR SEAL ALL PENETRATINOS THRUFIRE RATED WALLS, CEILINGS, DRAFT STOPS, ETC.

S MEMBERS SHALL NOT BE DRILLED OR CUT. COORDINATE PIPING AND DUCT ROUTING WITH FRAMING S AND OTHER TRADES.

CEILING PENETRATINOS AT MECHANICAL ROOMS WITH HILTI #FS-1 OR EQUAL FIRE STOP CAULKING. IDE TEMPERATURE SENSOR IN RETURN AIR PLENUM OF EACH AIR HANDLING UNIT.

TERS AND GRILLES - TITUS TMS-3 AND TRIM SIZES AS NOTED (24X24 AT ACCOUSTICAL TILE CEILING) DAMPERS - RUSKIN CFD FDS - RUSKIN CSD 35

R VENT, OUTSIDE AIR DUCT AND BATH EXHAUST VENTS MUST BE RIGID DUCTWORK.

SYSTEM SHALL BE TESTED AND BALANCED BY AN INDEPENDENT CONTRACTOR. SUBCONTRACTOR TO ST AIR VOLUME TO WITHIN 5% OF DESIGN FLOWS.

LECTRICAL POWER PLANS FOR BASEBOARD HEAT.

DE ALL PENETRATIONS IN CONTRACTOR'S BID.

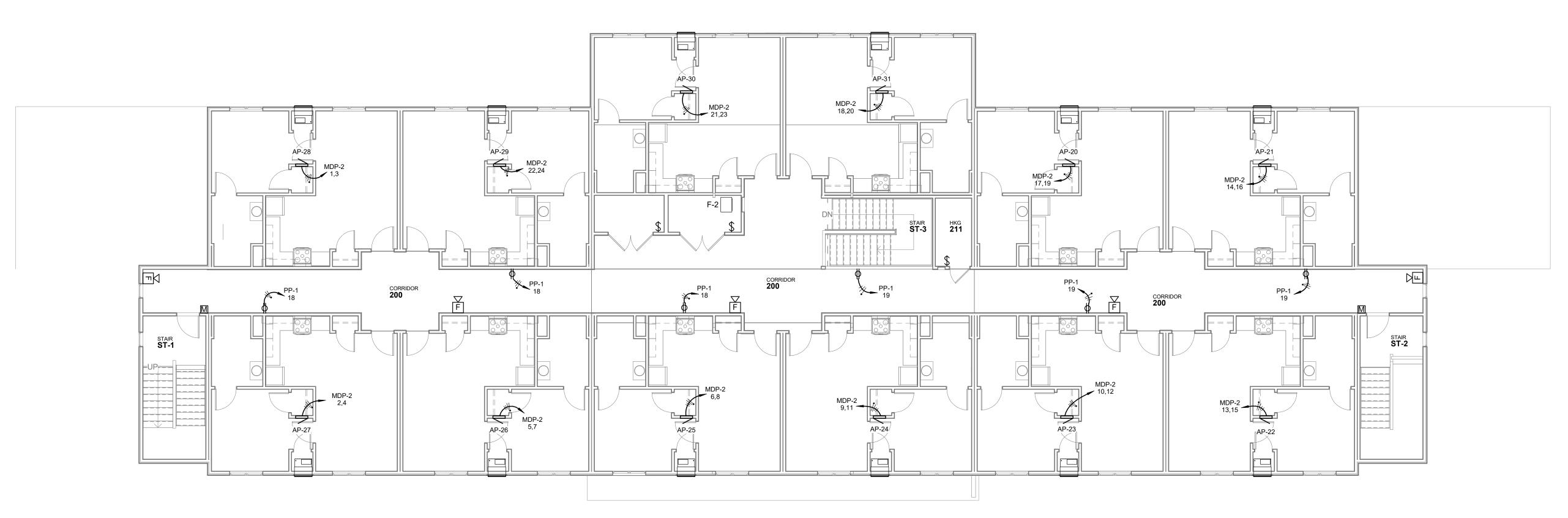
LE POINT BIPOLAR IONIZATION MODULES SHALL MEET UL 867 FOR ELECTRONIC AIR CLEANERS AND UL OR OZONE FREE OPERATION.

PIPING NOTES

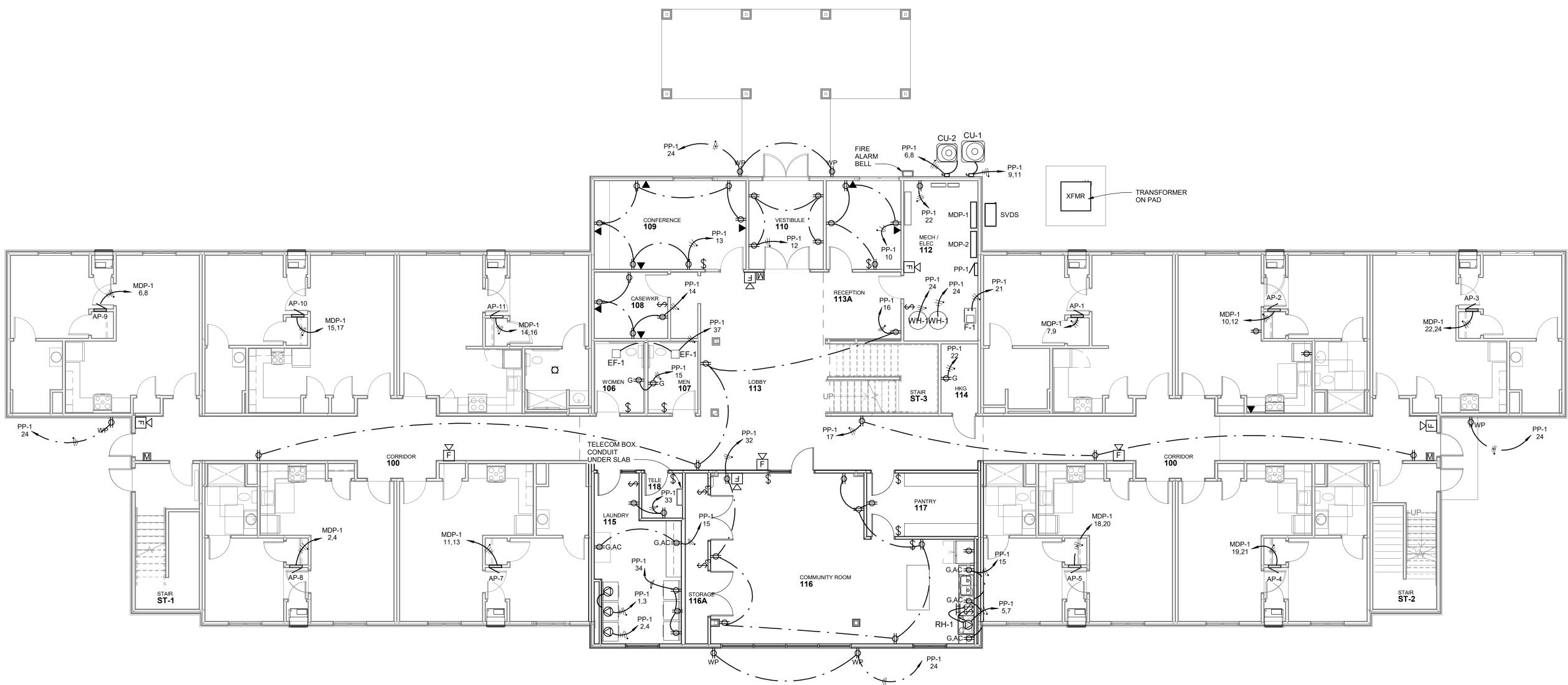
SS NOTED OTHERWISE, ALL HORIZONTAL GAS PIPING SHOWN IS OVERHEAD OR ABOVE CEILINGS. AS PIPING EITHER EXPOSED OR CONCEALED WITHIN CEILINGS OR WALLS SHALL BE BLACK STEEL PIPE. URIED DISTRIBUTION PIPING TO BE SLEEVED AND SHIELDED CORRUGATED STAINLESS STEEL TUBE, SLEEVE VENTED TO THE OUTDOORS.

PSI REGULATORS TO BE LEVER ACTING LINE REGULATORS, CAPABLE OF REGULATING OUTLET TO IFIED VALUE AT INLET PRESSURE RANGING FROM 2.5PSI TO 5PSI AND SIZED FOR IDENTIFIED PRESSURE ET AT TOTAL CONNECTED FLOW RATE, BASIS OF DESIGN TO BE MAXITROL 325 SERIES. E 5PSI REGULATORS ARE INSTALLED INDOORS, PIPE VENT TO THE OUTDOORS THROUGH THE ROOF, VENT LIMITING DEVICES TO INDOOR SPACES SHALL NOT BE USED.

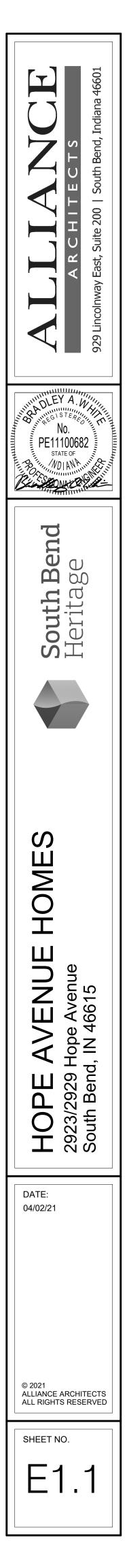
DATE: 04/02/21	A	South Bend		ALLIANCE
	2923/2929 Hope Avenue South Bend, IN 46615	Heritage	EOF	A R C H I T E C T S 929 Lincolnway East, Suite 200 South Bend, Indiana 46601

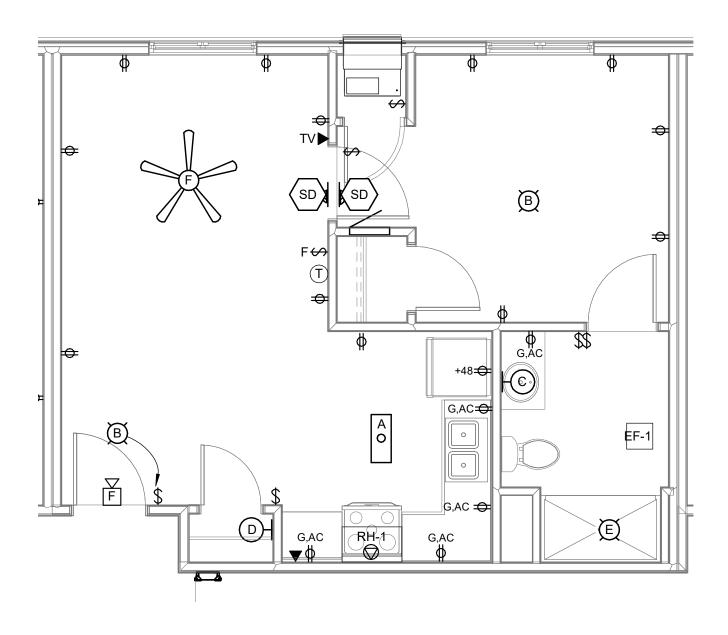




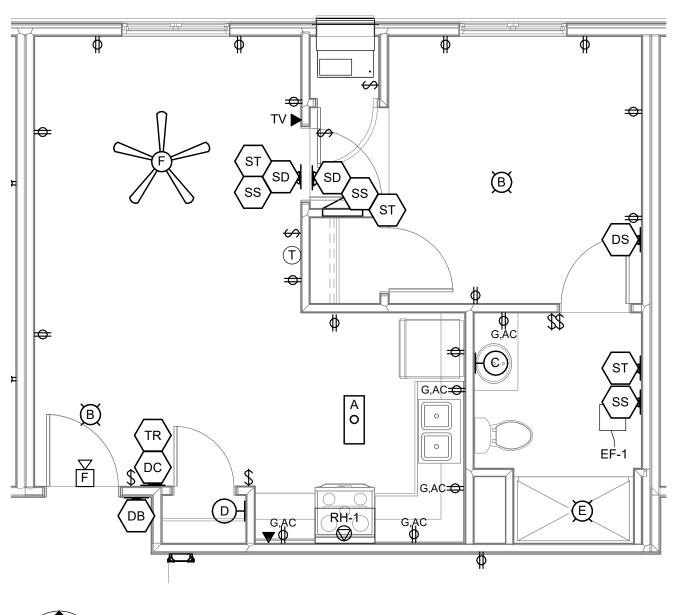




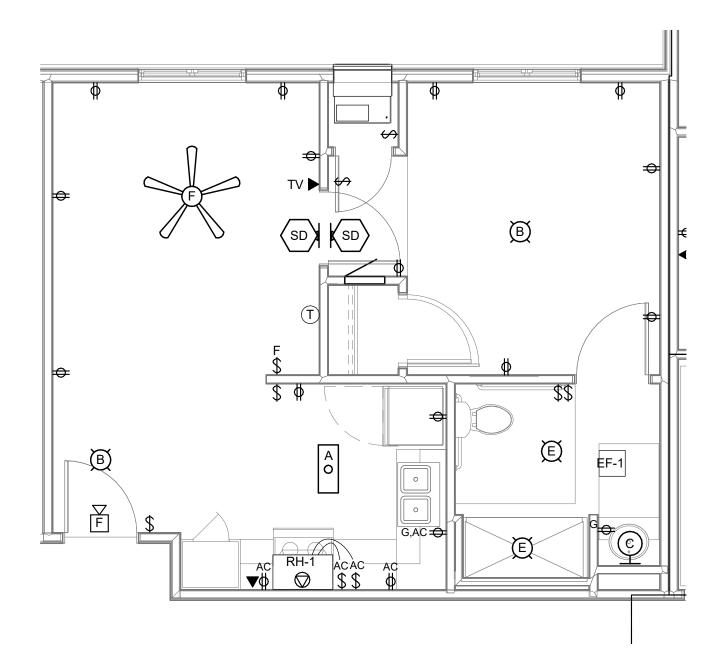




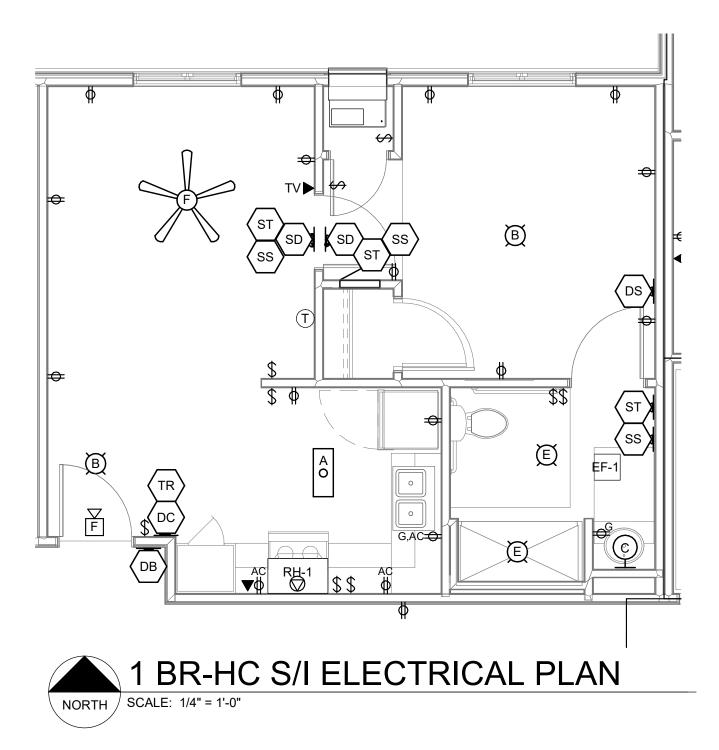




NORTH SCALE: 1/4" = 1'-0"



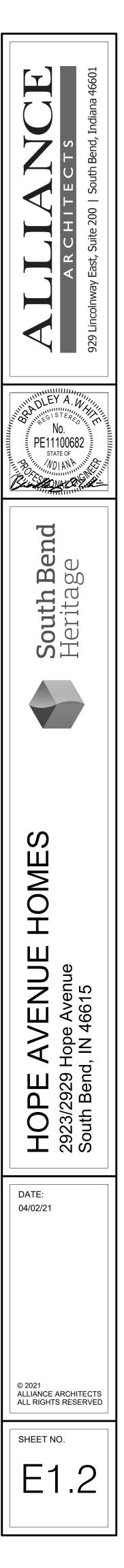


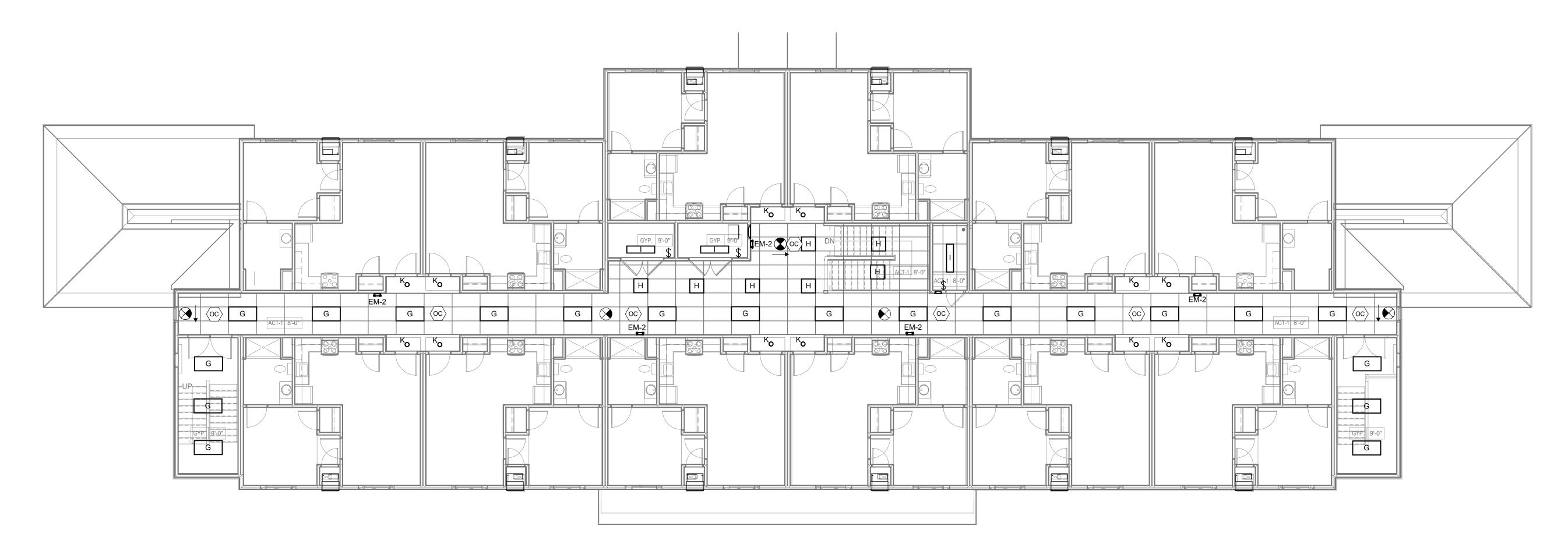


	Supj M E
СКТ	Circuit D
1	Kitchen Receptacle
3	Living Room Recep
5	Bedroom Receptac
7	Living Room/Kitche
9	Heat/Cooling Throu
11	near/Cooling Throu
	lassification
	g - Dwelling Unit
	ice - Dwelling Unit
Cooling Recept	•
recept	

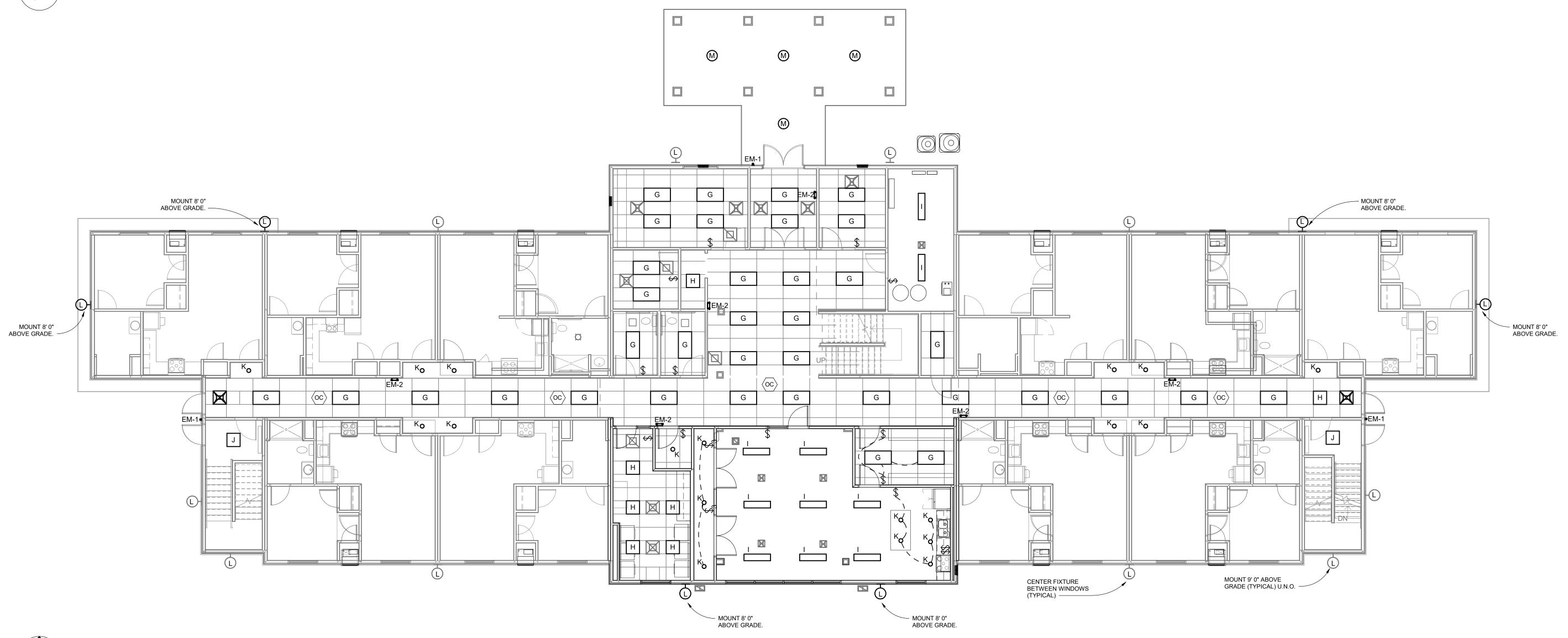
Location:	Volts: 120/208 Single A.I.C. Rating:											
oply From: MDP-1				Phases:	: 1			N	lains Type:			
Mounting: Recessed Enclosure:				Wires:	: 3	3 Mains Rating: 100 A MCB Rating: 100 A						
escription Trip		Poles A		A		В	Poles	Trip	Circuit Description			
es	20 A	1	0.4 kVA	0.7 kVA			1	20 A	Kitchen Receptacl	es	2	
ptacles - AFCI	20 A	1			1.1 kVA	1.1 kVA	2	40 A	Kitchen Range		4	
cles - AFCI	20 A	1	0.5 kVA	1.1 kVA				40 A	Kilchen Range	Richen Range		
en Light Fixtures	20 A	1			0.0 kVA	0.0 kVA	1	20 A	Bathroom/Bedroor	n Light Fixtures	8	
ugh wall Unit	25 A	2	1.3 kVA	0.5 kVA			1	20 A	Bedroom Recepta	cles - AFCI	10	
ugn wan Onit	25 A	2			1.3 kVA	0.0 kVA	1	20 A	Spare	12		
	Т	otal Load:	4.5	kVA	3.5	kVA						
	То	otal Amps:	42	2 A	3	4 A						
	С	onnected I	oad	Demand Fa	actor E	Estimated De	emand		Totals			
		85 VA		100.009	%	85 VA						
		2200 VA		100.009	%	2200 VA	۹		Total Conn. Load:	8.0 kVA		
		2510 VA		100.009	%	2510 VA	4	Т	otal Est. Demand:	8.0 kVA		
		3240 VA		100.009	%	3240 VA	4		Total Conn.:	39 A		
								Т	otal Est. Demand:	39 A		

ANNOTATION LEGEND										
MARK	DESCRIPTION									
DEVICE NOTES										
AC MOUNTED ABOVE COUNTER, 6" TO CENTER OF DEVICE UNLESS NOTED OTHERWISE										
G	GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACLE									
+XX	MOUNTED AT XX INCHES A.F.F., SEE ARCHITECTURAL ELEVATIONS FOR COORDINATION AND EXACT DIMENSIONS									
3	THREE WAY SWITCH									
F	FAN SWITCH PROGRESS MODEL# P2630-30									
SD	SMOKE DETECTOR									
ST	SMOKE DETECTOR STROBE LIGHT									
DS	DOOR SIGNALER BASE, PROVIDE NEW PHONE OUTLET IN WALL WITH PHONE CABLE EXTENDED TO SERVICE ENTRANCE									
TR	DOOR SIGNALER TRANSMITTER, INTERCONNECT TO NEW DOOR CHIME, PROVIDE REMOTE LOCATED 24V TRANSFORMER									
SS	DOOR SINGALER STROBE, PROVIDE DUPLEX RECEPTACLE AT 84" AFF, MOUNT ON RECEPTACLE									
DB	HARDWIRED DOOR BELL BUTTON, EXTEND WIRING TO CHIME AT TRANSMITTER TR									
KF	KEY FOB DOOR CONTROL, SEE DOOR HARDWARE SPECIFICATIONS									

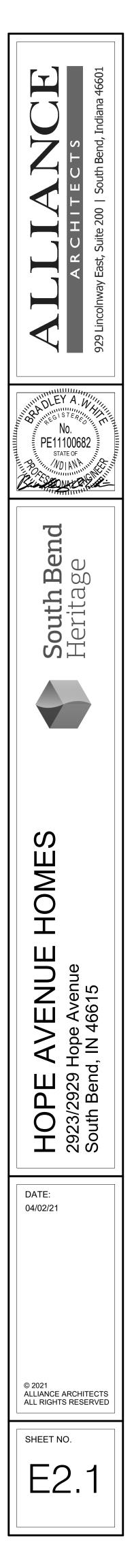


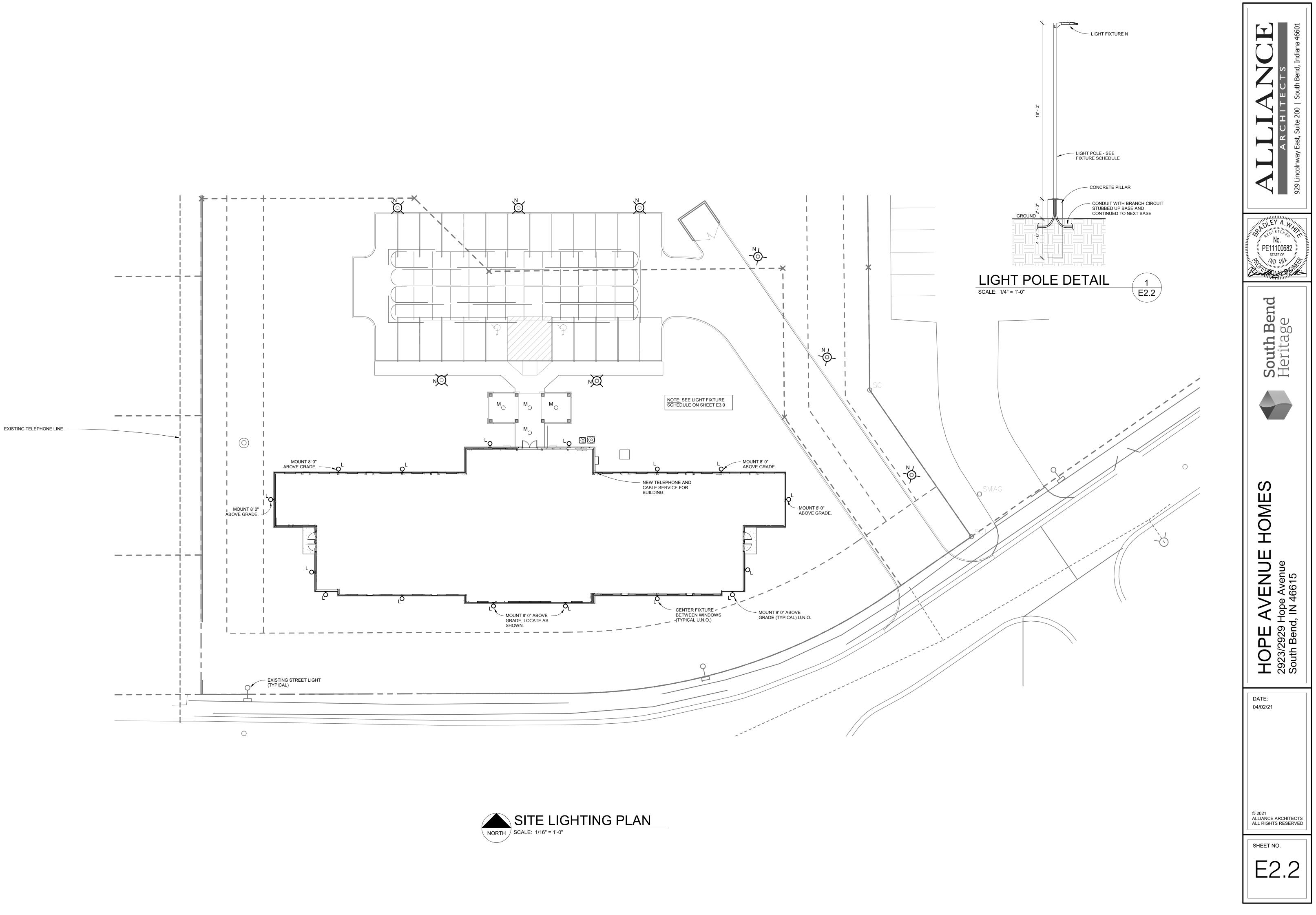














						MD	P- ′	1				:		
	Location: Space 2	20				Volts: 120/208 Wye A.I.C. Rating: 10kA								
	Supply From: SVDS		Phases: 3 Mains Type: MLO											
1	Mounting: Surface		Wires:	4				Mains	Rating: 1000 A					
1	Enclosure: 1								MCB Rating: 1000 A					
скт	Circuit Description	Trip	Poles		A		В	С		Poles	Trip	Circui	t Description	скт
1				15.3	4.0 kVA	<u>۱</u>				_	400.4	AP-8 100A, 120) V/208 V, Single Phase,	2
3	PP-1	200 A	3			12.6 kVA	4.0 kVA			2	100 A	3 Wires	, , ,	4
5								10.5 kVA	4.0 kVA	_	100 4	AP-9 100A, 120 V/208 V, Single Phase,		6
7	AP-1 100A, 120 V/208 V, Single Phase,	100.4	0	4.0 kVA	4.0 kVA	1				2	100 A	3 Wires		8
9	3 Wires	100 A	2			4.0 kVA	4.5 kVA			_	100 4	4.5.0		10
11	AP-7 100A, 120 V/208 V, Single Phase,	100.4	0					4.0 kVA	3.5 kVA	2	100 A	AP-2		12
13	3 Wires	100 A	2	4.0 kVA	4.0 kVA	۱ ۱				_	100 4	AP-11 100A, 12	20 V/208 V, Single	14
15	AD 40	100 4	0			4.0 kVA	4.0 kVA			2	100 A	Phase, 3 Wires		16
17	AP-10	100 A	2					4.0 kVA	4.0 kVA	_	100 4	AP-5 100A, 120	0 V/208 V, Single Phase,	18
19	AP-4 100A, 120 V/208 V, Single Phase,	100.4	0	4.0 kVA	4.0 kVA	1				2	100 A	3 Wires		20
21	3 Wires	100 A	2			4.0 kVA	4.0 kVA			_	100 4	AP-3 100A, 120) V/208 V, Single Phase,	22
23									4.0 kVA	2	100 A	3 Wires	-	24
25														26
27														28
29														30
		Tot	al Load:	43.4	kVA	41.2	kVA	33.8 kVA						
		Tota	al Amps:	37	1 A	35	2 A	282	2 A	-				
Load	Classification		Conne	ected Loa	ad	Demand Fa	actor	Estimated	Demand	1		Panel	Totals	
Lightii	ng - Dwelling Unit		8	50 VA		100.00%	6	850	VA					
Applia	ance - Dwelling Unit		25	500 VA		75.00%)	1912:	5 VA		Tot	al Conn. Load:	118.3 kVA	
Coolir	ng		32	926 VA		100.00%	6	32926	6 VA		Tota	I Est. Demand:	96.1 kVA	
Electr	ic Clothes Dryer		10	500 VA		100.00%	6	10500	AV (Total Conn.:	328 A	
HVAC	;		2	40 VA		100.00%	6	240	VA		Tota	I Est. Demand:	267 A	
Other			9	03 VA		100.00%	6	903	VA					
Recep	otacle		43	200 VA		61.57%	,	26600) VA					

						PF	P-1							
	Location: Space	20				Volts:	120/208	Wye		:	A.I.C.	Rating:		
	Supply From: MDP-	1				Phases:	3		Mains Type:					
1	Mounting: Surface	e Mount				Wires:	4				Mains	Rating: 200 A		
	Enclosure:										MCB	Rating: 200 A		
скт	Circuit Description	Trip	Poles		4	E	В		С	Poles	Trip	Circu	t Description	СКТ
1,3	Electric Clothes Dryer	20 A	2	3.5 kVA	1.8 kVA	3.5 kVA	1.8 kVA			2	20 A	Electric Clothe	s Dryer	2,4
5,7	Appliance - Dwelling Unit	20 A	2	1.8 kVA	2.5 kVA			1.8 kVA	2.5 kVA	2	20 A	CU-2		6,8
9,11	0114	20. 4				2.1 kVA	0.7 kVA			1	20 A	Receptacles O	ffice 2	10
	CU-1	20 A	2					2.1 kVA	0.7 kVA	1	20 A	Receptacles E	ntrance to Building	12
13	Receptacles Office 1	20 A	1	1.1 kVA	0.7 kVA					1	20 A	Receptacles O	ffice 3	14
15	Bathroom GFCI Receptacles	20 A	1			1.4 kVA	0.7 kVA			1	20 A	Receptacles G	round Floor West	16
17	Receptacles Ground Floor East	20 A	1					0.5 kVA	0.5 kVA	1	20 A	Upstairs West Corridor Receptacles		18
19	Upstairs East Corridor Receptacles	20 A	1	0.5 kVA	0.4 kVA					1	20 A	Furnace F-2		20
21	Furnace F-1	20 A	1			0.7 kVA	0.4 kVA			1	20 A	Receptacle Mech/Elec, HKG, Outdoor		22
23	Lighting Office 1	20 A	1					0.2 kVA	1.1 kVA	1	20 A	Water Heaters		24
25	Main Lobby Lighting	20 A	1	0.4 kVA	0.6 kVA					1	20 A	Corridor West Lighting		26
27	Lighting Office 2	20 A	1			0.2 kVA	0.2 kVA	L		1	20 A	Stairwell Lighting		28
29	Lighting Ground Floor Stairwell	20 A	1					0.1 kVA	0.4 kVA	1	20 A	Lighting Comm	unity Room	30
31	Lighting Laundry and Closet	20 A	1	0.0 kVA	1.4 kVA					1	20 A	Receptacles C	ommon Room	32
33	Receptacles in Closet	20 A	1			0.4 kVA	0.5 kVA			1	20 A	Washing Mach	ine Circuits	34
35	Wall Mounted Site Lighting	20 A	1					0.6 kVA	0.2 kVA	1	20 A	Outdoor Under	Canopy Lights	36
37	Lighting Common Bathroom	20 A	1	0.3 kVA	0.7 kVA					1	20 A	Upper Floor Co	orridor Lighting	38
39	Pole Site Lighting	20 A	1			0.2 kVA	0.1 kVA			1	20 A	Lighting Upstai	rs Corridor Coves	40
41	Lighting Upstairs Closets	20 A	1					0.1 kVA	0.1 kVA	1	20 A	Lighting Main F	loor Corridor Coves	42
		Tota	I Load:	15.3	kVA	12.6	kVA	10.5	5 kVA					
		Total	Amps:	13	0 A	10	8 A	87	7 A	_				
Load	Classification		Con	nected Lo	ad	Demand Fa	ctor	Estimated	Demand			Panel	Totals	
Lightii	ng		;	3114 VA		125.00%	6	3893	VA					
HVAC	;			240 VA		100.00%	6	240	VA			al Conn. Load:		
Rece	otacle			0800 VA		96.30%	,	10400	AV (Tota	I Est. Demand:	38.6 kVA	
Powe	r			1345 VA		100.00%	6	1345 VA		Total Conn.:		Total Conn.:	106 A	
Other				903 VA		100.00%	6	903	VA		Tota	I Est. Demand:	107 A	
Applia	ance - Dwelling Unit		:	3500 VA		100.00%	6	3500 VA						

			LIC	SHT F	FIXT	URE	SCH	IEDI	JLE	
MARK	MAKE	MODEL	DESCRIPTION		LIGHT		ELECT	RICAL	APPROVED EQUALS	
	WARE	MODEL	DESCRIPTION	SOURCE	LUMENS	COLOR	VOLTAGE	POWER	(MAKE/MODEL)	NOTES
А	LITHONIA	LBL2 2000LM 80CRI 35K IN10 GZT MVOLT	2' LINEAR WRAPAROUND	LED	2000	3500K	120V	17W	METALUX /2WSNLED-LD4-20SL-UNV-L835-CD1-U, ILP / SQ2-22WLED-UNIV-35	
В	PROGRESS	P3516-30	CEILING MOUNT MEDIUM BASE	SCREW IN BULB			120V	10W		SUPPLY 60W LED BULB WITH MEDIUM BASE AND 3500K COLOR TEMP. SCREW INTO BASE.
С	PROGRESS	P300208-009-30	LINEAR BATH VANITY	LED	2600	3000K	120V	17W		SUPPLY TWO (2) 2X17.00 WATTS BI-PIN T8 BULBS.
D	LITHONIA	FMMCL840S1	WALL MOUNT CLOSET LIGHT	LED	575	4000K	120V	11W		
E	LITHONIA	4BEMWLED40K90CRIM6	RECESSED CAN	LED	700	4000K	120V	10W	HALO / LT460WH6940, GREEN CREATIVE / 97990-10FL4DIM/940	WET LOCATION RATED
EM-1	LITHONIA	ELMRW SP640L DDBTXD SGL	EXTERIOR EMERGENCY EGRESS LIGHT	LED	320	5000K	120V	3.3W	COR / CORSB	WALL MOUNTED SINGLE HEAD EGRESS EMERGENCY LIGHT
EM-2	LITHONIA	ELM6L UVOLTLTP	EMERGENCY EGRESS LIGHT	LED	1100	5000K	120V	10.6W	COMPASS / CU2HLHO	WALL MOUNTED EGRESS LIGHTS WITH BATTERY BACKUP. MOUNT AT 7'5" AFF.
EX-1	LITHONIA	LQM-S-W-3-R-MVOLT	EXIT SIGN	LED	NFPA APPROVE D	RED	120V	0.62W	COMPASS / CERRC	CEILING MOUNT. SEE E2.2 FOR DOUBLE SIDED FIXTURE LOCATIONS
F	WESTINGHOUSE	7230800	PETITE CEILING FAN AND LIGHT	LED	800	3000K	120V	10W		SUPPLY FAN/LIGHT CONTROL P2630-30.
G	LITHONIA	2VTS4 48L ADP GZ1 LP840	2'X4' RECESSED	LED	4800	4000K	120V	38.4W	METALUX / 24CZ2-50-S-UNV-L840-CD1-U, ILP / VOL24-34WLED-UNIV-40	
н	LITHONIA	2VTS2 33L ADP GZ1 LP840	2'X2' RECESSED	LED	3300	4000K	120V	26.3W	METALUX / 22CZ2-32-S-UNV-L840-CD1-U, ILP / VOL22-30WLED-UNIV-35	
I	LITHONIA	STL4 48L EZ1 LP840	1'X4' SURFACE MOUNTED	LED	5088	4000K	120V	45.2W		
J	LITHONIA	STL2 40L EZ1 LP840 N80	1'X2' SURFACE MOUNTED	LED	3443	4000K	120V	39W		
к	LAUREN ILLUMINATION	LCLCV 6 40 W HE	6" RECESSED DOWNLIGHT	LED	725	4000K	120V	8.24W	HALO / HLB6099FS010MW, GREEN CREATIVE / 58030-11.6DLNC6DIM/840	PROVIDE LD25 DRIVERS FOR PAIRS OF FIXTURES, LD16 FOR SINGLE FIXTURES.
L	LITHONIA	DSXW1 LED 10C 1000 30K TFTM MVOLT DNAXD	OUTDOOR WALL LIGHT	LED	3673	3000K	120V	39W	BROWNLEE / 7047-C49-30K, ILP / SWP-5L-U-CCTS-FINISH	TOP OF FIXTURE TO BE FLUSH WITH TOP OF WINDOW FRAMING
М	LITHONIA	VCPGLED V4 P3 40K T5E MVOLT SRM DNAXD	UNDER CANOPY LIGHT	LED	6187	3000K	120V	43W	MCGRAW-EDISON / TT-D2-830-U-CQ-BZ, ILP / UFO-58WLED-UNIV-40-LB-SILVER	FINISH SHALL BE NATURAL ALUMINUM
Ν	LITHONIA	DSXO LED P3 30K VLS MVOLT SPA DDBXD	POLE MOUNTED LIGHT	LED	10911	3000K	120V	116W	LUMARK / PRV-PA1B-730-U-5WQ-BZ, ILP / AL-90W-U-30-T5S-UPMB	PROVIDE ACUITY POLE SSS 12 5C P DDBXD. MOUNT POLE ON CONCRETE PILLAR 2' ABOVE GRADE

MDP-2												CONNECTION TO STRUCTURAL
Location: Space 20 Supply From: SVDS Mounting: Surface Enclosure: 1		Volts: 120/208 Wye Phases: 3 Wires: 4						A.I.C. Rating: 10kA Mains Type: MLO Mains Rating: 1000 A MCB Rating: 1000 A			TELECOMMUNIC	ATION L
Trip	Poles		A B		С	Poles	Trip Circui	it Description	скт	CABINETS AND (CONNECT TO	
100 A	2			4.0 kVA	4.0 kVA	4.0 kVA 4.0 kVA	2	Phase, 3 Wires		2 4 6 8		ROUTE #3 CU TO
100 A	2			4.0 kVA	4.0 kVA	4.0 kVA 4.0 kVA	2	100 A AP-23 100A, 1 Phase, 3 Wires	20 V/208 V, Single	10 12		TELECOMMUNICATION GROUND BUS
100 A	2	4.0 kVA	4.0 kVA		4.0 kVA		2	100 A AP-21 100A, 1 Phase, 3 Wires	20 V/208 V, Single	14 16		3
100 A	2	4.0 kVA	4.0 kVA			4.0 kVA 4.0 kVA	2	100 A AP-31 100A, 1 Phase, 3 Wires	20 V/208 V, Single	18 20		1 3/0 CU
100 A	2			4.0 kVA	4.0 kVA	4.0 kVA 4.0 kVA	2	100 A AP-29 100A, 1 Phase, 3 Wires	20 V/208 V, Single	22 24		(TYP F GROU
										26 28	1. CONTRAC	TOR SHALL FOLLOW THIS DETAIL FOR PROPER GRO T SUCH AS GROUND RODS, SURGE ARRESTOR, GRO
				-		32.1 kVA 268 A				30	AND PREI ELECTRO	ROUNDING FOR INTERIOR DISTRIBUTION TRANSFORM ERABLY IN THE SAME AREA AS, THE TRANSFORMER DE OR STRUCTURAL METAL GROUNDING ELECTROD NG ELECTRODE RESISTANCE SHALL BE 25 OHMS OR
	Conn	ected Loa	ad [Demand Fa	actor	Estimated Demand	d	Panel	Totals			AL SUPPLEMENTAL ELECTRODES SHALL BE PROVIDE
	1	020 VA		100.00%	%	1020 VA					4. IN ADDITI	ON TO THE ABOVE DEPICTED CONNECTIONS, CONTR
	26	6400 VA		75.00%	, D	19800 VA		Total Conn. Load:	96.4 kVA		GROUNDI	NG ELECTRODES AS REQUIRED BY THE UTILITYCOM
	30	0120 VA		100.00%	%	30120 VA		Total Est. Demand:	75.4 kVA		STANDAR	US.
	38	3880 VA		62.86%	Ď	24440 VA						RIC GROUNDING
5	Sace	Sace Trip Poles 100 A 2 Total Load: Total Load: Total Amps: 1 2 1 2 3	Sace Trip Poles 4.0 kVA 100 A 2 4.0 kVA 100 A 2	Trip Poles A 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 -4.0 kVA 4.0 kVA 100 A 2 -4.0 kVA 4.0 kVA 100 A 2 -4.0 kVA 4.0 kVA 100 A 2 -4.0 kVA -4.0 kVA 100 A 2 -4.0 kVA -4.0 kVA 100 A 2 -4.0 kVA -4.0 kVA 100 A 2 -4.0 kVA -4.0 kVA	Pre 20 Volts: S Phases: ace Wires: 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA	See 20 Volts: 120/208 V S Phases: 3 ace Wires: 4 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 $2.68 \text$	Volts: $120/208$ Wye S Phases: 3 Trip Poles A B C 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 4.0 kVA	De 20 Volts: 120/208 Wye S Phases: 3 Trip Poles A B C Poles 100 A 2 4.0 kVA 4.0 kVA 2 2 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A 2 4.0 kVA 4.0 kVA 2 2 100 A 2 4.0 kVA 4.0 kVA 2 2 100 A 2 4.0 kVA 4.0 kVA 2 2 100 A 2 4.0 kVA 4.0 kVA 2 2 100 A 2 4.0 kVA 4.0 kVA 2 2 100 A 2 4.0 kVA 4.0 kVA 2 2 100 A 2 4.0 kVA 4.0 kVA 2 2 100 A 2 4.0 kVA 4.0 kVA 2 2 100 A 2 2 4.0 kVA 4.0 kVA 2 100 A 2 2 4.0 kVA	De 20 Volts: 120/208 Wye A.I.C. Rating: 10kA S Phases: 3 Mains Type: MLO ace Wires: 4 Mains Rating: 1000 A Trip Poles A B C Poles Trip Circui 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A AP-27 100A.1 Phase, 3 Wires 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A AP-27 100A.1 Phase, 3 Wires 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A AP-27 100A.1 Phase, 3 Wires 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A AP-21 100A.1 Phase, 3 Wires 100 A 2 4.0 kVA 4.0 kVA 2 100 A AP-21 100A.1 Phase, 3 Wires 100 A 2 4.0 kVA 4.0 kVA 2 100 A AP-21 100A.1 Phase, 3 Wires 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A AP-21 100A.1 Phase, 3 Wires 100 A 2	See 20 Volts: 120/208 Wye ALC. Rating: 10kA S Phases: 3 Mains Type: MLO ace Wires: 4 Mains Rating: 1000 A 100 A 2 4.0 KVA 4.0 kVA A 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 100 A 2 4.0 kVA 4.0 kVA 2 100 A 100 A 2 4.0 kVA 4.0 kVA 2 100 A 100 A 2 4.0 kVA 4.0 kVA 2 100 A 100 A 2 4.0 kVA 4.0 kVA 2 100 A 100 A 2 4.0 kVA 4.0 kVA 2 100 A 100 A 2 4.0 kVA 4.0 kVA 2 100 A 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A 100 A </td <td>De 20 Voits: 120/208 Wye ALC. Rating: 10kA Sace Phases: 3 Mains Rating: 10kA Mains Rating: 100 A A B C Poles Trip Circuit Description CKT 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A AP-27 100A, 120 V/208 V, Single 2 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A AP-27 100A, 120 V/208 V, Single 2 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A AP-27 100A, 120 V/208 V, Single 6 100 A 2 4.0 kVA 4.0 kVA 2 100 A AP-23 100A, 120 V/208 V, Single 10 100 A 2 4.0 kVA 4.0 kVA 2 100 A AP-23 100A, 120 V/208 V, Single 11 100 A 2 4.0 kVA 4.0 kVA 2 100 A AP-23 100A, 120 V/208 V, Single 11 100 A 2 4.0 kVA 4.0 kVA 2 100 A AP-21 100A, 120 V/208 V, Single 12 100 A 2</td> <td>Volts: 120/208 Wye ALC. Rating: 10kA S Phases: 3 Mains Type: MLO Soce Wires: 4 Mains Rating: 1000 A Trip Poles A B C Poles Trip Circuit Description CKT 100 A 2 4.0 kVA 4.0 kVA 2 100 A 2 100 A 2 6 710 Circuit Description CKT 100 A 2 4.0 kVA 4.0 kVA 2 100 A Phase.3 Wires 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20</td>	De 20 Voits: 120/208 Wye ALC. Rating: 10kA Sace Phases: 3 Mains Rating: 10kA Mains Rating: 100 A A B C Poles Trip Circuit Description CKT 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A AP-27 100A, 120 V/208 V, Single 2 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A AP-27 100A, 120 V/208 V, Single 2 100 A 2 4.0 kVA 4.0 kVA 4.0 kVA 2 100 A AP-27 100A, 120 V/208 V, Single 6 100 A 2 4.0 kVA 4.0 kVA 2 100 A AP-23 100A, 120 V/208 V, Single 10 100 A 2 4.0 kVA 4.0 kVA 2 100 A AP-23 100A, 120 V/208 V, Single 11 100 A 2 4.0 kVA 4.0 kVA 2 100 A AP-23 100A, 120 V/208 V, Single 11 100 A 2 4.0 kVA 4.0 kVA 2 100 A AP-21 100A, 120 V/208 V, Single 12 100 A 2	Volts: 120/208 Wye ALC. Rating: 10kA S Phases: 3 Mains Type: MLO Soce Wires: 4 Mains Rating: 1000 A Trip Poles A B C Poles Trip Circuit Description CKT 100 A 2 4.0 kVA 4.0 kVA 2 100 A 2 100 A 2 6 710 Circuit Description CKT 100 A 2 4.0 kVA 4.0 kVA 2 100 A Phase.3 Wires 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20

ELECTRICAL LEGEND

MOUNT BELOW COUNTER TOP IN BASE CABINET

ф	DUPLEX RECEPTACLE	1
+	DOUBLE DUPLEX RECEPTACLE	2
\bigcirc	SPECIAL RECEPTACLE, SEE SPECIFIC NOTE FOR REQUIREMENTS	
\$	LIGHT SWITCH	3
▼	NETWORK PORT, PROVIDE MINIMUM 2 CABLES TO RACK	Δ
\bigotimes	EXIT SIGN, VISIBLE FROM THE SHADED DIRECTION(S)	5
Μ	MANUAL PULL STATION	
F	HORN/STROBE FIRE ALARM	6
SYMB	BOL TAG NOTES:	
G	GROUNT FAULT CIRCUIT INTERUPTER (GFCI) PROTECTED	7
+XX	MOUNT AT XX" ABOVE FINISH FLOOR TO CENTERLINE OF DEVICE	
AC	MOUNT ABOVE COUNTER TOP, SEE WALL ELEVATIONS	8

FIRE ALARM GENERAL NOTES

- FIRE ALARM SYSTEM SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA72 AND BE FULLY MONITORED. PROVIDE PULL STATIONS AS SHOWN ON PLANS, FLOW ALARMS ON SPRINKLER SYSTEM, TAMPER SWITCHES, CORRIDOR SMOKE DETECTORS (IF REQUIRED), ELEVATOR DOOR SMOKE DETECTORS, STROBE/HORNS EACH
- FLOOR (CORRIDORS AND PUBLIC ROOMS) AND FIRE ALARM CONTROL PANEL. SYSTEM SHALL BE MONITORED BY OUTSIDE MONITORING COMPANY, AND SYSTEM SHALL BE FULLY OPERABLE SEE UNIT ELECTRICAL PLANS FOR SMOKE DETECTORS OR SMOKE/CO2 DETECTORS. ALL APARTMENT SMOKE DETECTORS SHALL BE HARD WIRED, INTERCONNECTED WITHIN ONE APARTMENT AND HAVE
- BATTERY BACKUP. PROVIDE SMOKE DETECTORS OUTSIDE ELEVATOR AT EACH FLOOR AND CONNECT TO FIRE ALARM CONTROL PANEL FOR ELEVATORS.
- INSTALL FIRE ALARM HORNS IN EACH APARTMENT UNIT IN SUFFICIENT QUANTITY TO PROVIDE THE MINIMUM SOUND LEVELS REQUIRED BY APPLICABLE CODE. TESTING FOR SOUND LEVEL (75 dBA) ABOVE AMBIENT) SHALL BE COMPLETED IN ACCORDANCE WITH NFPA 72 AND SUBMITTED TO THE AUTHORITY HAVING JURISDICTION.
- AT HEARING IMPAIRED UNITS, PROVIDE FIRE ALARM HORN/STROBES IN LIEU OF HORNS DESCRIBED IN NOTE 5 ABOVE, ALSO PROVIDE STROBE UNITS IN BATHROOMS AND BEDROOMS WHERE AS SHOWN ON THE UNIT ELECTRICAL PLANS.
- THE SYSTEM SHALL HAVE THE CAPACITY TO SUPPORT ADDITIONAL DEVICES IN NON-HEARING IMPAIRED UNITS. EXTEND FIRE ALARM INDICATING APPLIANCE CIRCUITS INTO EACH UNIT AND TO EACH DEVICE LOCATION (J-BOXES FOR FUTURE STROBES ARE SHOWN ON UNIT ELECTRICAL PLANS).
- FIRE ALARM SHALL BE INITIATED BY THE FOLLOWING DEVICES: MANUAL PULLS, DUCT SMOKE DETECTORS, SMOKE DETECTORS AT EACH ELEVATOR OPENING, WATER FLOW SWITCH(ES) IN THE FIRE SUPPRESSION SYSTEM, CORRIDOR SMOKE DETECTORS AS SHOWN AND AS REQUIRED BY LOCAL ORDINANCE. TROUBLE ALARM SHALL BE INITIATED BY THE FOLLOWING DEVICES: FIRE SUPPRESSION SYSTEM TAMPER
- SWITCHES, DEVICE OR SYSTEM MALFUCTION AS REQUIRED BY NFPA 72, PIV ACTIVATION (VALVE CLOSED) PROVIDE INTERCONNECTION WITH ERV-COM AND ERV-CORE TO SHUT OFF SYSTEMS WHEN ALARM IS 10. INITIATED

SERVICE TRANSFORMER

9.

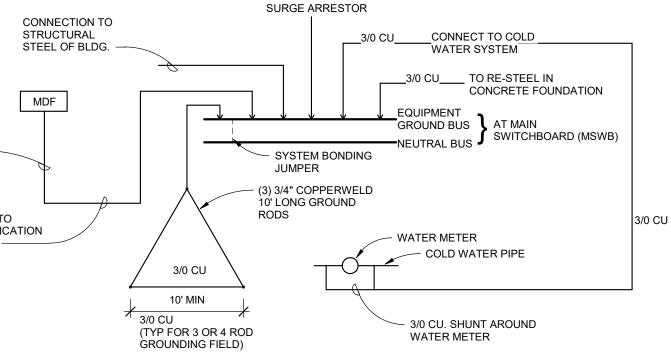
	Location:	:	Volts: 120/20	08 Wye		A.I.C. Rating:			
	Supply From:		Phases: 3						
	Mounting:		Wires: 4			Mains Rating: 1000 A			
	Enclosure:				MCB Rating: 1000 A				
скт	Circuit Descri	ption	# of Poles	Trip Rating	Load	Remarks			
1	SVDS (SERVICE DISCONNECT SWITCH)	3	1000 A	214643 VA				
					214643 VA				
					596 A				
Load Clas	sification	Connected Load	Demand Factor	Estimated De	mand	Panel	Totals		
Appliance	- Dwelling Unit	51900 VA	75.00%	38925 VA	4				
Cooling		62823 VA	100.00%	62823 VA	4	Total Conn. Load:	214643 VA		
Electric Cl	othes Dryer	10500 VA	100.00%	10500 VA	۹	Total Est. Demand:	166428 VA		
HVAC		240 VA	100.00%	240 VA		Total Conn.:	596 A		
Lighting - [Dwelling Unit	1870 VA	100.00%	1870 VA		Total Est. Demand:	462 A		
Other		903 VA	100.00%	903 VA					
Receptacle	9	82080 VA	56.09%	46040 VA	۹				
WATER H	EATER	40 VA	100.00%	40 VA					

FEEDER LEGEND



3 RUNS OF 4-400MCM AND 1-#2/0 GND IN 4" CONDUIT 3-#3/0 AND 1-#6 GND IN 2-1/2" CONDUIT

4-#3/0 AND 1-#6 GND (SE CABLE)



V THIS DETAIL FOR PROPER GROUNDING CONNECTIONS, INCLUDING FURNISH AND INSTALL ALL CONDUCTORS AND RODS, SURGE ARRESTOR, GROUND BUS, ETC. TO PROPERLY GROUND/BOND ALL EQUIPMENT. RIOR DISTRIBUTION TRANSFORMERS SHALL BE MADE TOA GROUNDING ELECTRODE AS NEAR AS PRACTICAL TO, ME AREA AS, THE TRANSFORMER THE ELECTRODE SHALL BE THE NEAREST OF A METAL WATER PIPE GROUNDING

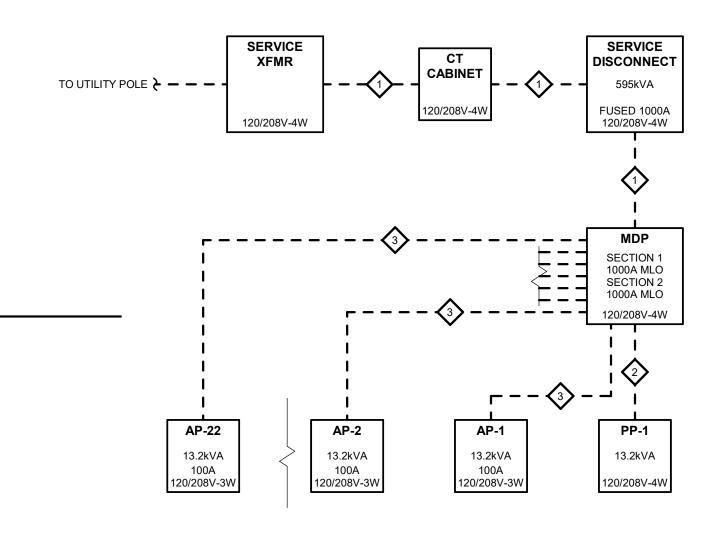
SISTANCE SHALL BE 25 OHMS OR LESS, SHOULD THE MEASURED RESISTANCE BE HIGHER THAN 25 OHMS, ELECTRODES SHALL BE PROVIDED AS REQUIRED TO REACH A RESISTANCE TO EARTH OF 25 OHMS OR LESS.

EPICTED CONNECTIONS, CONTRACTOR SHALL PROVIDE ALL GROUND RODS, GROUND GRIDS, AND OTHER REQUIRED BY THE UTILITYCOMPANY AND MAKE CONNECTIONS TO UTILITY EQUIPMENT PER UTILITY COMPANY

ROUNDING DETAIL

ELECTRICAL GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE, AND LOCAL CODES AT THE TIME OF BIDDING, INCLUDING BUT NOT LIMITED TO THOSE NOTED ON THE COVER SHEET.
- DRAWINGS ARE DIAGRAMMATIC. FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE LOCATIONS 2. WITH OTHER TRADES
- SUBSTITUTIONS FOR BRAND OR MODEL OF DEVICES ARE NOT PERMITTED IN THE BASE BID UNLESS 3. OTHERWISE STATED OR APPROVED IN WRITING BY THE ARCHITECT/ENGINEER. SUBSTITUTIONS MAY BE
- SUBMITTED WITH WRITTEN EXPLANATION AS VOLUNTARY ALTERNATES. SEE SPECIFICATIONS. SCHEDULED EQUIPMENT REFLECTS THE BASIS-OF-DESIGN FOR THIS PROJECT'S DESIGN INTENT. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND COORDINATE THE SPECIFIC PARAMETERS OF IDENTIFIED ITEMS WITH THE OTHER IDENTIFIED COMPONENTS WITHIN THE CONTRACT DOCUMENTS. IT IS THE DESIGN INTENT THAT THE EQUIPMENT SELECTED SHALL BE INSTALLED TO ESTABLISH FULLY OPERATIONAL MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS.
- INSTALL ALL EQUIPMENT, DEVICES, AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURES INSTRUCTIONS.
- ALL INTERIOR WIRING TO BE INSULATED THHN OR EQUIVALENT. EXTERIOR WIRING AND ALL WIRING IN WET 6 LOCATIONS. TO BE THWN OR EQUIVALENT.
- CONDUIT SERVING UP TO 3 CURRENT CARRYING CONDUCTORS OF SIZE 10AWG OR SMALLER PERMITTED TO BE MC CABLE.
- CONDUIT RUN WITHIN FIRE RATED WALLS TO BE EMT. ALL OTHER CONDUIT TO BE EITHER PVC OR EMT, UNLESS OTHERWISE NOTED. ALL CONDUCTORS RUN IN BASEMENT TO BE INSTALLED IN CONDUIT SUITABLE FOR WET LOCATIONS AND ALL
- JUNCTION BOXES/ENCLOSURES TO BE RATED NEMA 3R 10. ALL DEVICES AND COVER BLANKS SHALL BE WHITE COLOR UNLESS OTHERWISE NOTED, OR OTHERWISE
- DIRECTED BY ARCHITECT. SEE LIGHTING CONTROL SEQUENCE FOR SWITCHING AND DIMMING REQUIREMENTS, PROVIDE POWER PACK 11.
- RELAYS AND DIMMING OUTPUTS AS REQUIRED TO ACHIEVE CONTROL SEQUENCE.
- WHERE OCCUPANCY SENSORS ARE CALLED OUT, INTEGRATE OCCUPANCY SENSOR INTO LIGHT SWITCHING. WIRE EXIT AND EGRESS LIGHTS TO THE NEAREST CONTINUOUSLY ENERGIZED LIGHTING CIRCUIT.
- PROVIDE OCCUPANCY SENSORS IN ALL SPACES AND WIRE ALL LIGHTS NOT NOTED AS NIGHT LIGHTS OR
- EMERGENCY LIGHTS TO BE CONTROLLED. IT IS THE DESIGN INTENT THAT ALL LIGHT FIXTURES NOT NOTED AS NIGHT OR EMERGENCY LIGHTS HAVE OCCUPANCY BASED CONTROL, PROVIDE COMBINATION SWITCH AND OCCUPANCY SWITCHES IN SPACES WHERE NO DEDICATED OCCUPANCY CONTROL IS INDICATED.
- INCREASE BRANCH CIRCUIT CONDUCTORS TO ACCOMMODATE FOR VOLTAGE INCREASE BRANCH CIRCUIT CONDUCTORS TO ACCOMMODATE FOR VOLTAGE DROP. 120V CIRCUITS OVER 100' SHALL BE #10 AWG MINIMUM. 277V CIRCUITS OVER 250' SHALL BE #10 AWG MINIMUM.
- UNLESS OTHERWISE NOTED, ALL DEVICE ELEVATIONS REFER TO CENTER OF OUTLET BOX. (SEE SPECIFICATIONS.) DIV. 16 SHALL VERIFY ALL OUTLET LOCATIONS WITH OTHER TRADES.
- ELECTRICAL CONTRACTOR TO PROVIDE WIRING TO FIRE ALARM DEVICE LOCATIONS, FIRE ALARM CONTRACTOR TO INSTALL AND CONFIGURE DEVICES.



ELECTRICAL ONE LINE DIAGRAM

