

NOTES:

- ALL DIMENSIONS SHOWN ARE TO FLOW LINE, CENTERLINE OF FENCE, EDGE OF PAYMENT, OR EXTERIOR FACE OF BUILDING, UNLESS OTHERWISE MOTTER.
- CONTRACTOR SHALL VERIFY ALL PLAN AND DETAIL DIMENSIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES.
- ALL SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE PLAN FOR ANY WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY.
- CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAI FOR ANY WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY.
- 7. GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES. 1-800-252-1166. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO ASSIST WITH PRIVATE UTILITY LOCATOR.

PROPOSED SITE LEGEND



PROPERTY INFORMATION

 NORTH LOT PROPERTY AREA
 5602.3 SF

 MIDDLE LOT PROPERTY AREA
 5607.5 SF

 SOUTH LOT PROPERTY AREA
 5597.6 SF

 DISTURBED AREA
 0.45 ±AC

 EXISTING IMPERVIOUS AREA
 0.0 SF

 PH 1 PROPOSED IMPERVIOUS AREA
 3360.0 SF



32711 EDDY ROAD HINCKLEY, MN 55037 608.469.7343



856 RAYMOND ST PAUL, MN 55117

CONSULTANTS:

esign Tree Engineering and Land Surveyin D1 Carlson pkwy Suite 1053

19 Dupont Ave. S

anssolar KlimaEngineering :0 East 23rd St, Suite 403

06 Everglade Drive

NOTES:

FAL AND SIGNATUR

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL, ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

> Muchael Dydro RINTED NAME: MICHAEL J. GERBER

ATE: 01/05/24

.....

ENVISION COMMUNITY

ADDRESS: 2100, 2106, 2110 PENN AVE N

OWNER. ENVISION COMMONITY

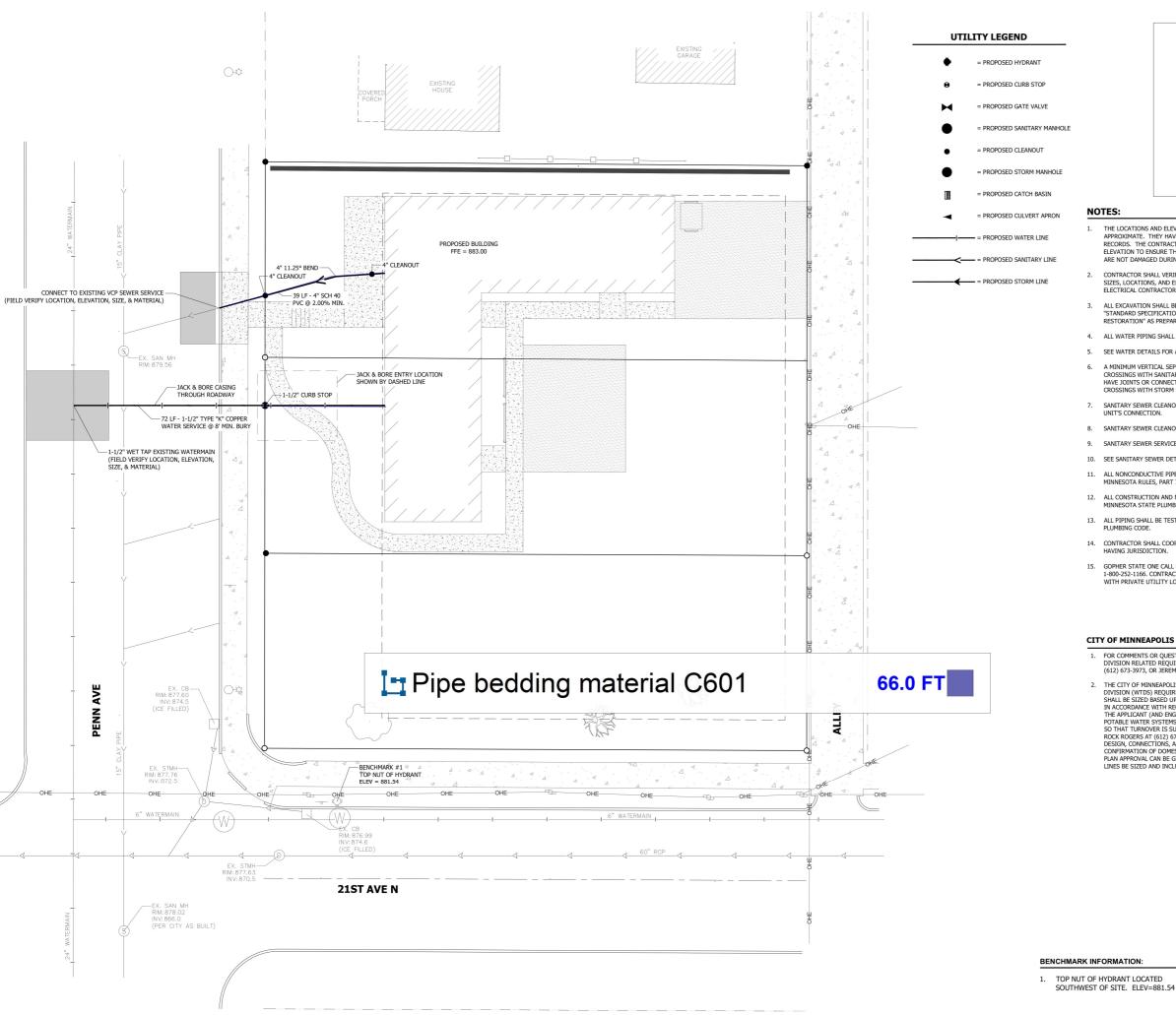
C201

CIVIL SITE PLAN - PH 1

PROJECT #: 00023010 DRAWN BY: MJG CHECKED BY: MJG DATE: 12/01/2023 SCALE: AS NOTED ON DRAW

PERMIT NO.:

0' 10'



- = PROPOSED SANITARY MANHOLE

- 4. ALL WATER PIPING SHALL BE BURIED A MINIMUM OF 8'.
- SEE WATER DETAILS FOR ADDITIONAL INFORMATION.
- A MINIMUM VERTICAL SEPARATION OF 18 INCHES IS REQUIRED AT ALL WATER LINE CROSSINGS WITH SANITARY SEWER OR STORM SEWER. THE WATER LINE SHALL NOT HAVE JOINTS OR CONNECTIONS WITHIN 10 FEET OF THE CROSSING. INSULATE CROSSINGS WITH STORM SEWER.
- SANITARY SEWER CLEANOUTS SHALL BE PROVIDED WITHIN 5' OF THE BUILDING FOR UNIT'S CONNECTION.

- 13. ALL PIPING SHALL BE TESTED IN ACCORDANCE WITH THE MINNESOTA STATE PLUMBING CODE.

CITY OF MINNEAPOLIS UTILITY NOTES

- FOR COMMENTS OR QUESTIONS ON PUBLIC WORKS SURFACE WATER & SEWER DIVISION RELATED REQUIREMENTS PLEASE CONTACT JEREMY STREHLO, PE AT (612) 673-3973, OR JEREMY.STREHLO@MINNEAPOLISMN.GOV.
- THE CITY OF MINNEAPOLIS WATER TREATMENT 8. DISTRIBUTION SERVICES DIVISION (WTDS) REQUIRES THAT POTABLE WATER SUPPLY SERVICE LINES SHALL BE SIZED BASED UPON THE TOTAL DEMAND AND SHALL BE DETERMINED IN ACCORDANCE WITH RECOGNIZED ENGINEERING METHODS AND PROCEDURES. THE APPLICANT (AND ENGINEER) SHALL BE RESPONSIBLE FOR DESIGNING POTABLE WATER SYSTEMS THAT ARE NOT OVERSIZED FOR THEIR INTENDED USE SO THAT TURNOVER IS SUFFICIENT TO MAINTAIN WATER QUALITY. CONTACT ROCK ROGERS AT (612) 673-2286 TO CONFIRM DOMESTIC AND FIRE SERVICE DESIGN, CONNECTIONS, AND SIZES. THE APPLICANT SHALL PROVIDE A CONFIRMATION OF DOMESTIC AND FIRE SERVICE DESIGN METHODS BEFORE SITE PLAN APPROVAL CAN BE GRANTED. (NOTE: REFERS TO THE REQUIREMENT THAT LINES BE SIZED AND INCLUDE MECHANICAL ENGINEER CALCULATIONS).



NOTES:

THE LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN HEREIN ARE APPROXIMATE. THEY HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND/ OR RECORDS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION AND ELEVATION TO ENSURE THAT ANY EXISTING UTILITIES (SHOWN OR NOT SHOWN) ARE NOT DAMAGED DURING CONSTRUCTION.

CITY OF MINNEAPOLIS USE

- CONTRACTOR SHALL VERIFY AND COORDINATE BUILDING UTILITY CONNECTION SIZES, LOCATIONS, AND ELEVATIONS WITH PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS.
- ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.

- 8. SANITARY SEWER CLEANOUT SPACING SHALL NOT EXCEED 90'.
- SANITARY SEWER SERVICES SHALL HAVE A MINIMUM OF 2.00% GRADE.
- 10. SEE SANITARY SEWER DETAILS FOR ADDITIONAL INFORMATION.
- ALL NONCONDUCTIVE PIPE SHALL BE INSTALLED WITH A LOCATE (TRACER) WIRE PER MINNESOTA RULES, PART 7560.0150 $\,$
- 12. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE
- 14. CONTRACTOR SHALL COORDINATE UTILITY INSPECTIONS WITH LOCAL AUTHORITIES
- GOPHER STATE ONE CALL DAMAGE PREVENTION SYSTEM FOR BURIED UTILITIES.
 1-800-252-1166. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO ASSIST WITH PRIVATE UTILITY LOCATES.

32711 EDDY ROAD HINCKLEY, MN 55037 608.469.7343

ALCHEMY architects

ST PAUL, MN 55117 651.647.6650

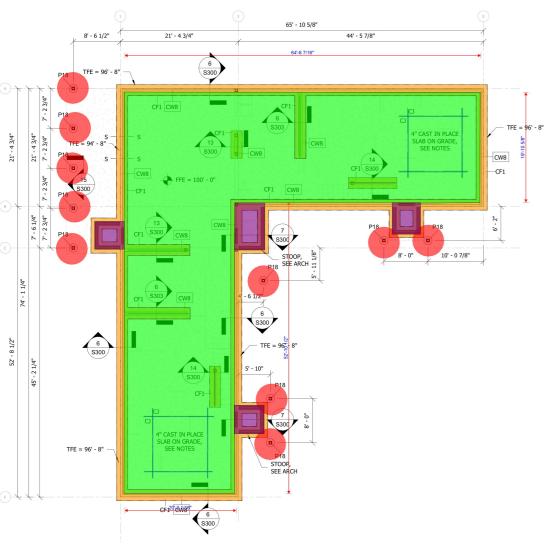
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL BRIGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: 01/05/24 LICENSE #: 56653

ENVISION COMMUNITY

UTILITY PLAN - PH 1

SHEET NO.: OF



LTCW-8 3'-4" height Wall 6/S-300 (Add insulation are	oun 276.9 FT
12" Concrete wall 3'-4"H 7/S-300	51.3 FT
CF-1 Foundation	761.1 SQ FT
1 14/S-300	16.3 FT
₹ 13/S-300 Concrete curb wall	38.8 FT
P18 Column piers 5'-6"H	10.0 EA
4" Slab on grade with insulation	2350.9 SQ FT
1" Rifgid insulation between concrete slab at stoop	o 7/S 27.9 FT
Slab at stoop area	130.8 SQ FT
Control Joint	100.9 FT

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

FOUNDATION PLAN NOTES:

SLAB ON GRADE CONTROL JOINT PLAN NOTES:

- TOP OF INTERIOR SLAB ELEVATION IS 100' 0" UNO, SEE ARCH. FOR SLAB SLOPES AND ELEVATIONS, SEE ARCH. SEE CIVIL FOR FINAL SLAB ELEVATION IN ALL BUILDINGS. INTERIOR SLAB-ON-GRADE SHALL BE 4" THICK UNREINFORCED ON A 10-MIL VAPOR BARRIER (SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION).

 (C.J. 'ON PLAN DENOTES TYPICAL SLAB CONTROL JOINT LAYOUT.

 A. MAXIMUM SPACING = 10' 0"

 B. MAXIMUM PANEL ASPECT RATIO = 1.5 (LONG SIDE / SHORT SIDE)

- PRACTIFUL TYPE JOINT LOCATIONS WITH ARATION = 1.5 (LOUNG SIDE; STOCK! SIDE)
 VERIFY JOINT LOCATIONS WITH ARATINFORMATION.
 SEE ARCHITECTURAL PLANS FOR ALL OPENING LOCATIONS, DIMENSIONS, STOOPS, AND INTERIOR PARTITIONS.
 SEE ARCHITECTURAL PLANS FOR ALL OPENING LOCATIONS, DIMENSIONS, STOOPS, AND INTERIOR PARTITIONS.
 SEE DETAIL 4 / S300 FOR OPENINGS IN CIP CONCRETE WALLS WITH A MAXIMUM CLEAR SPAN OF 4"-0".

LAP SPLICE SCHEDULE (UNCOATED GRADE 60 BARS IN CONCRETE)

CLASS 'A' TENSION LAP SPLICE									
BAR			CONCRETE	COMPRESS	IVE STRENG	TH, f'c (PSI))		
SIZE	3,000	3,500	4,000	5,000	6,000	7,000	8,000	10,000	
#3	1'-5"	1'-4"	1'-3"	1'-1"	1'-0"	0'-11"	0'-11"	0'-9"	
#4	1'-10"	1'-9"	1'-7"	1'-5"	1'-4"	1'-3"	1'-2"	1'-0"	
#5	2'-4"	2'-2"	2'-0"	1'-10"	1'-8"	1'-7"	1'-5"	1'-3"	
#6	2'-9"	2'-7"	2'-5"	2'-2"	2'-0"	1'-10"	1'-9"	1'-6"	
#7	4'-1"	3'-9"	3'-6"	3'-2"	2'-11"	2'-8"	2'-6"	2'-3"	
#8	4'-7"	4'-3"	4'-0"	3'-7"	3'-3"	3'-0"	2'-10"	2'-6"	
#9	5'-2"	4'-10"	4'-6"	4'-1"	3'-8"	3'-5"	3'-3"	2'-10"	
#10	5'-9"	5'-4"	5'-0"	4'-6"	4'-1"	3'-9"	3'-7"	3'-2"	
#11	6'-4"	5'-11"	5'-6"	5'-0"	4'-6"	4'-2"	3'-11"	3'-6"	

CLASS 'R' TENSTON LAD SDLTCE

32.00 5 12.00501 20.005								
BAR	CONCRETE COMPRESSIVE STRENGTH, fc (P							
SIZE	3,000	3,500	4,000	5,000	6,000	7,000	8,000	10,000
#3	1'-10"	1'-8"	1'-7"	1'-5"	1'-4"	1'-3"	1'-2"	1'-0"
#4	2'-5"	2'-3"	2'-1"	1'-11"	1'-9"	1'-7"	1'-6"	1'-4"
#5	3'-0"	2'-10"	2'-7"	2'-4"	2'-2"	2'-0"	1'-10"	1'-8"
#6	3'-7"	3'-4"	3'-1"	2'-10"	2'-7"	2'-5"	2'-3"	2'-0"
#7	5'-3"	4'-10"	4'-7"	4'-1"	3'-9"	3'-5"	3'-3"	2'-11"
#8	6'-0"	5'-7"	5'-3"	4'-8"	4'-3"	3'-11"	3'-9"	3'-3"
#9	6'-9"	6'-3"	5'-11"	5'-3"	4'-10"	4'-5"	4'-2"	3'-8"
#10	7'-6"	6'-11"	6'-6"	5'-10"	5'-4"	4'-11"	4'-8"	4'-1"
#11	8'-3"	7'-8"	7'-2"	6'-5"	5'-10"	5'-5"	5'-1"	4'-6"

CIP CONCRETE LAP SPLICE SCHEDULE NOTES:

- FOR OTHER CASES, MULTIPLY LENGTHS SHOWN BY 1.5
- TOP BARS ARE SUCH THAT 12" OR MORE OF FRESH CONCRETE IS CAST BELOW THE SPLICE OR

TYPICAL LAP SPLICE SCHEDULE (UNCOATED GRADE 60 IN CMU WALLS)

TENSION LAP SPLICE FOR STRAIGHT BARS

- A. do = BAR DIAMETER
 B. Fr = YIELD STRENGTH OF REBAR
 B. ALL REBAR LAP SPLICES SHALL BE 'CLASS B' UNLESS NOTED OTHERWISE ON PLAN.

CDISS A TENSION EN SI EIGE												
BAR		CONCRETE COMPRESSIVE STRENGTH, f'c (PSI)										
SIZE	3,000	3,500	4,000	5,000	6,000	7,000	8,000	10,000				
#3	1'-5"	1'-4"	1'-3"	1'-1"	1'-0"	0'-11"	0'-11"	0'-9"				
#4	1'-10"	1'-9"	1'-7"	1'-5"	1'-4"	1'-3"	1'-2"	1'-0"				
#5	2'-4"	2'-2"	2'-0"	1'-10"	1'-8"	1'-7"	1'-5"	1'-3"				
#6	2'-9"	2'-7"	2'-5"	2'-2"	2'-0"	1'-10"	1'-9"	1'-6"				
#7	4'-1"	3'-9"	3'-6"	3'-2"	2'-11"	2'-8"	2'-6"	2'-3"				
#8	4'-7"	4'-3"	4'-0"	3'-7"	3'-3"	3'-0"	2'-10"	2'-6"				
#9	5'-2"	4'-10"	4'-6"	4'-1"	3'-8"	3'-5"	3'-3"	2'-10"				
#10	5'-9"	5'-4"	5'-0"	4'-6"	4'-1"	3'-9"	3'-7"	3'-2"				
#11	6'-4"	5'-11"	5'-6"	5'-0"	4'-6"	4'-2"	3'-11"	3'-6"				

CLASS B TENSION LAP SPLICE								
BAR			CONCRETE	CRETE COMPRESSIVE STRENGTH, f'c (F				
SIZE	3,000	3,500	4,000	5,000	6,000	7,000	8,000	10,000
#3	1'-10"	1'-8"	1'-7"	1'-5"	1'-4"	1'-3"	1'-2"	1'-0"
#4	2'-5"	2'-3"	2'-1"	1'-11"	1'-9"	1'-7"	1'-6"	1'-4"
#5	3'-0"	2'-10"	2'-7"	2'-4"	2'-2"	2'-0"	1'-10"	1'-8"
#6	3'-7"	3'-4"	3'-1"	2'-10"	2'-7"	2'-5"	2'-3"	2'-0"
#7	5'-3"	4'-10"	4'-7"	4'-1"	3'-9"	3'-5"	3'-3"	2'-11"
#8	6'-0"	5'-7"	5'-3"	4'-8"	4'-3"	3'-11"	3'-9"	3'-3"
#9	6'-9"	6'-3"	5'-11"	5'-3"	4'-10"	4'-5"	4'-2"	3'-8"
#10	7'-6"	6'-11"	6'-6"	5'-10"	5'-4"	4'-11"	4'-8"	4'-1"
#11	8'-3"	7'-8"	7'-2"	6'-5"	5'-10"	5'-5"	5'-1"	4'-6"

- THESE TABLES ARE BASED ON THE FOLLOWING ASSUMPTIONS:
- INC.CC IABLES ANCE DASELU ON INE FOLLOWING ASSUMPTIONS:

 A. UNCOATED GRADE 60 REBAR IN GROUTED CONCRETE

 B. CLEAR SPACING OF BARS ≥ d₀

 C. CLEAR COVER ≥ d₀

 D. STIRRUPS OR TIES PROVIDED THROUGHOUT DEVELOPMENT LENGTH MINIMUM ≥ OR

 a. CLEAR SPACE OF BARS ≥ 2*d₀

 b. CLEAR COVER ≥ d₀

 b. CLEAR COVER ≥ d₀
- A. TOP BAKS ARE SUCH THAT 12" OK MONE OF FRESH CONCRETE IS CAST BELOW THE SPLICE OR DEVELOPMENT LENGTH.

 B. MULTIPLY LENGTHS SHOWN BY 1.3
 FOR LICHTWEIGHT CONCRETE, MULTIPLY LENGTHS SHOWN BY 1.3
 FOR HIGHER GRADE STEEL, MULTIPLY LENGTHS SHOWN BY A RATIO OF HIGHER F_Y (KSI) OVER 1,160 (KSI).
 ALL OTHER FACTORS LISTED STILL APPLY.
 FOR COMPRESSION LAP SPLICE, USE GREATER OF:
 A. (0.0009*F;*-04,**-04
 B. 0.0005*F;*-05,**-05
 B. DO005*F;*-05,**-05
 B. DADDEVIATED TE DEMON:

- ABBREVIATED TERMS

#8

CONTINUOUS FOOTING SCHEDULE							
MARK	FOOTING SIZE	CONTINUOUS REINFORCEMENT	TRANSVERSE REINFORCEMENT	COMMENTS			
CF1	2' - 0" x 12"	(2) - #5					

CONTINUOUS FOOTING SCHEDULE NOTES:

- CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS UNLESS NOTED OTHERWISE ON PLAN.
 SEE GENERAL NOTES ON SHEET \$100 FOR ADDITIONAL REQUIREMENTS.
 SEE SCHEDULE ON SHEET \$200 FOR REBAR LAP SPLICES FOR COATED AND UNCOATED REBAR.
 ALL REINFORCING IN BOTTOM OF FOOTING UNLESS NOTED OTHERWISE.

CIP CONCRETE WALL SCHEDULE								
MARK	WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT	REINFORCEMENT LOCATION	COMMENTS			
CW8	8"	#4 BARS @ 18" o.c.	#4 BARS @ 12" o.c.	CENTER				

CIP CONCRETE WALL SCHEDULE NOTES:

- SPACING OF CONSTRUCTION OR CONTROL JOINTS IN WALL EXPOSED TO VIEW SHALL NOT EXCEED 25 FEET

- SPACING OF CONSTRUCTION OF CONTROL JOINTS IN WALL EXPOSED TO YEAR SHALL NOT EXCEED 25 FEET UNLESS NOTED OTHERWISE ON DRAWINGS. LOCATE FIRST CONTROL JOINT WITHIN 15 FEET OF CORNERS. CUT THE HORIZONTAL REINFORCING AT CONTROL JOINTS IN HALF. SEE GENERAL NOTES ON SHEET S100 FOR ADDITIONAL REQUIREMENTS. SEE FOUNDATION AND WALL DETAILS 8 / S300, 10 / S300 & 9 / S300 FOR DETAILING AT JOINTS, CORNERS, AND INTERSECTIONS.

 VERTICAL REINFORCING IS PRIMARY. WHEN INDICATED AS INSIDE FACE ABOVE, PLACE VERTICAL REINFORCING CLOSEST TO INSIDE (INTERIOR FACE OF WALL AND HORIZONTAL REINFORCING BEHIND THAT. WHERE CENTERED IS INDICATED ABOVE, CENTER THE VERTICAL REINFORCING AND PLACE
- HORIZONTAL REINFORCING ON EITHER SIDE OF THE VERTICAL BARS SEE SCHEDULES ON SHEET S200 FOR REBAR LAP SPLICES FOR COATED AND UNCOATED REBAR.

- SEE SCHEDULES ON SHEET 5200 FOR REBAR LAP SPLICES FOR COATED AND UNCOATED REBAR.
 REFERT TO ARCHITECTURAL DRAWINGS FOR VENERS RHELF ELEVATIONS AT FOUNDATION WALL.
 PROVIDE STANDARD 90-DEGREE HOOK DOWELS BETWEEN FOUNDATIONS AND WALLS EQUAL TO THE SIZE
 AND SPACING OF THE VERTICAL REINPORCING UNLESS NOTED OTHERWISE. WET STICKING OF DOWELS
 NOT PERMITTED UNLESS APPROVED IN WRITING BY S.E.O.R.
 SLEEVES EMBEDDED IN WALLS SHALL BE LOCATED CLEAR BETWEEN REINFORCING BARS AND SHALL
 MAINTAIN CLEAR SPACING EQUAL TO THE DIAMETER OF THE LARGEST SLEEVE IN ANY DIRECTION. SLEEVE
 GROUPS THAT DO NOT COMPLY WITH THE ABOVE REQUIREMENTS SHALL BE CONSIDERED AS AN OPENING
 AND REINFORCED PER NOTE #6 BELOW.
 UNLESS NOTED OTHERWISE ON THE DRAWINGS: PROVIDE EXTRA REINFORCING ON ALL SIDES OF ALL
 MISCELLANEOUS WALL OPENINGS EQUAL TO ONE HALF THE INTERRUPTED REINFORCING BARS EACH SIDE
 BUT NOT LESS THAN 2 #5 FOR EACH LAYER OF REINFORCEMENT. EXTEND BARS CLASS 'B' LAP LENGTH
 BUT NOT LESS THAN 2 FETE BEYOND EDGE OF OPENINGS. PROVIDE 2 #4x4'-0" DIAGONAL BARS AT EACH
 CORNER FOR EACH LAYER OF REINFORCEMENT.

CIP CONCRETE PIER SCHEDULE

MARK	SIZE	VERTICAL REINFORCEMENT	TIE REINFORCEMENT	COMMENTS
P18	18"Ø	(5) # 5 BARS	#3 BARS @ 10" o.c.	BFE = 94' - 6"

CIRCULAR FOOTING SCHEDULE NOTES:

- . CIRCULAR FOOTINGS SHALL BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE ON PLAN.
 SEE GENERAL NOTES ON SHEET SION FOR ADDITIONAL REQUIREMENTS.
 SEE SCHEDULE ON SHEET S200 FOR REBAR LAP SPLICES FOR COATED AND UNCOATED REBAR.
 BFE = BOTTOM OF FOOTING ELEVATION.

#4 BARS @ 24" o.c.

CMU WALL SCHEDULE (BID ALT #1) VERTICAL REINFORCEMENT COMMENTS

131"

COMPRESSIVE STRENGTH, f'm = 2,000 PSI BAR SIZE 10" CMU 6" CMU 12" CMU #3 12" 12" 13" 12" 13" 12" 13" #4 16" 12" 22" 12" 22" 12" 22" 35" 35" #5 18" 35" 15" 13" 64" #6 27" 22" #7 87" 30" 87"

TENSION LAP SPLICE FOR DOWELS WITH STANDARD HOOK							
BAR		c	OMPRESSIV	E STRENGTH,	F _M = 2,000 PS	5I	
SIZE	6" CMU	8" C	MU	10" CMU		12" CMU	
	CENTER	CENTER	EDGE	CENTER	EDGE	CENTER	EDGE
#3	12"	12"	12"	12"	12"	12"	12"
#4	10"	12"	17"	12"	17"	12"	17"
#5		12"	28"	12"	28"	12"	28"
#6		26"	56"	19"	56"	14"	56"
#7				27"	77"	21"	77"
#8						34"	120"

CMU LAP SPLICE SCHEDULE NOTES:

- THESE TABLES ARE BASED ON THE FOLLOWING ASSUMPTIONS:
 A. LUNCOATED GRADE 60 REBAR IN GROUTED CMU WALLS AND BOND BEAMS
 MASONRY CLEAR COVER AT EDGE CONDITION: 2*
 C. DOWEL SPLICE REDUCED BY 11.25*45.
- FOR EPOXY COATED BARS, MULTIPLY LENGTHS SHOWN BY 1.5 ABBREVIATED TERMS:
- ADDREVIATED TENMS:
 A. d_b = BAR DIAMETER
 B. f_m = CMU ASSEMBLY COMPRESSIVE STRENGTH
 C. SEE BELOW FOR REBAR PLACEMENT INFORMATION





CENTER **EDGE - ONE FACE** **EDGE - EACH FACE**

46"

CMU WALL SCHEDULE NOTES:

- WALLS SHALL BE GROUTED AT REINFORCING LOCATIONS ONLY, UNLESS NOTED OTHERWISE ON PLAN.

 IN ADDITION TO THE SPECIFIED REINFORCING, PROVIDE CONTINUOUS VERTICAL BAR AT ALL CORNERS, EACH SIDE OF CONTROL JOINTS. MATCH BAR SIZE IN WALL AS REQUIRED. CELLS NEED NOT HAVE MORE THAN (1) BAR PRESENT UNLESS SPECIFICALLY NOTED ON PLAN.

 PROVIDE A CONTINUOUS BOND BEAM AT THE TOP OF ALL CMU WALLS WITH (2) #5 BARS CONTINUOUS UNLESS NOTED OTHERWISE.

 REINFORCING IS CONTINUOUS FROM TOP OF FOOTING TO TOP OF WALL UNLESS NOTED OTHERWISE ON PLAN AND PETALS.
- PLAN AND DETAILS.
- PLAN AND DETAILS.

 UNITS SHALL UTILIZE FACE SHELL MORTAR BEDDING UNLESS NOTED OTHERWISE.

 MASONRY WALLS SHALL HAVE CONTROL JOINTS AT A MAXIMUM OF 25" 0" UNLESS NOTED OTHERWISE.

 SEE ARCH DRAWINGS FOR CONTROL JOINT LOCATIONS IN CHU WALLS. SEE 16 / 5300 FOR CONTROL JOINT
 DETAIL.

 CONSOLIDATE GROUT POURS OVER 12" BY MECHANICAL VIBRATION. RECONSOLIDATE GROUT IN MASONRY
 CELLS BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS. IF NEXT GROUT FOUR WILL BE MORE THAN
 (1) HOUR, TERMINATE GROUP POUR 1 1/2" BELOW TOP OF MASONRY.

 PROVIDE STANDARD 90-DEGREE HOOK DOWELS BETWEEN FOUNDATIONS AND WALLS EQUAL TO THE SIZE
 AND SPACING OF THE VERTICAL REINFORCING UNLESS NOTED OTHERWISE. WET STICKING OF DOWELS
 NOT PERMITTED UNLESS APPROVED IN WITTING BY SE.C.
- NOT PERMITTED UNLESS APPROVED IN WRITING BY S.E.O.R. PROVIDE 9 GA. LADDUR TYPE HORIZONTAL JOINT REINFORCEMENT EVERY COURSE IN STACK BOND WALLS AND EVERY OTHER COURSE IN RUNNING BOND WALLS. PROVIDE 6" MINIMUM LAP SPLICE FOR JOINT
- AND EVERY OTHER COURSE IN KUNNING BOND WALLS. PROVIDE 6 MINIMPORTARY SPELLE FOR JOINT REINFORCING.

 10. SEE SCHEDULE ON SHEET \$200 FOR LAP LENGTHS AND REBAR IN ROU.

 11. REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING, REINFORCEMENT SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING BY WIRE POSITIONERS OR OTHER SUITABLE DEVICES AT INTERVALS NOT TO EXCEED 200 BAR DIAMFERS.

 12. TOLERANCES FOR THE PLACEMENT OF REINFORCEMENT IN WALLS AND FLEXURAL MEMBERS SHALL BE:
- A. PLUS OR MINUS 1/2" FOR d EQUAL TO 8" OR LESS
 B. PLUS OR MINUS 1" FOR d EQUAL TO 24" OR LESS, BUT GREATER THAN 8"
 C. PLUS OR MINUS 1 1/4" FOR d GREATER THAN 24"
- 1.3 SEE SHEET S100 FOR INFORMATION ON CMU MATERIAL REQUIREMENTS.

 14. ALL MORTAR PROTRUSIONS INTO CELLS TO BE GROUTED ARE REQUIRED TO BE REMOVED BY MASON AND ALL DEBRIS MUST BE REMOVED FROM CORE.

HINCKLEY, MN 55037 608.469.7343 ALCHEMY



ST PAUL, MN 55117 651.647.6650

Transsolar KlimaEngineerin 220 East 23rd St, Suite 403 New York, NY 10100

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Oor	nich V
PRINTED NAME:	JOE A. NICHOLSON
V	

DATE: 1/5/23 LICENSE #: 44104

ENVISION COMMUNITY

ADDRESS: 2100, 2106, 2110 PENN AVE NORTH

S200 FOUNDATION PLAN

SHEET NO.: OF