



# **GENERAL NOTES**

- A. EXCAVATION, BACKFILL, AND GRADING

  - EXCAVATION. BACKFILL, AND GRADING

    1. All excavations for footings shall be placed on natural, undisturbed soil.

    2. All excavations for footings shall be placed on undisturbed soil and below frost depth (30 Min). Tops of foundation shall be placed a minimum of 6' above finished grade.

    3. Finish grading shall be done so as to provide positive drainage away from all building foundations, grade shall slope away 6' minimum for the first 10' of building, no negative slope driveways.
- WEATHER PROTECTION

  - Install roof underlayment per IRC R905.1.1
     Install water and resistive barier at all exterior walls per IRC R703.1 and R703.2. CONCRETE
- Install foundation and footing reinforcement as per Foundation Wall and Footing Schedule.

c.

- D.
  - All window tops shall be at door header height, i.e 6'-8' (unless otherwise noted on plans).

  - An amount upostinative a count insign, see the concess white was indeed on pearsy.

    Windows located 24° or closer to any exterior door must be tempered.

    All windows in sleeping rooms shall be measured to the opening of the window and not be more than 44° above the finished floor with an operable opening no less than 5.7 sq.ft, the window height shall not be less than 24°, with a net clear width of no less than 20°.
- VENTILATION
   Ventilation shall be provided in all crawl spaces by means of screened vents placed to provide cross ventilation.
   Enclosed attics and spaces between rafters shall have clear ventilation to outside.
   There shall be no gas connections allowed in any rooms used for sleeping or any corridors leading to or through any sleeping room.
- FIRE PROTECTION AND WARNING

  - Fireplace chimneys shall extend 24° min. above any roof within a 10° radius.

    Smoke/ Carbon Monoxide detectors are required to meet local codes. Wire all smoke/C.M. detectors in series with battery backup.

    Walls/ wall coverings are subject to local codes and regulations under the county where the Avrame home lot is located and must be met.
- G. STAIRWAYS
  - AIRWAYS

    Max rise = 7-₹ and min. tread depth= 11" shall apply with current national and local building codes.

    Min. headroom= 6-8" and min. width= 36.

    Every landing should be 36" min. In width and length.

    Any door opening at the top of any interior flight of stairs must swing away from stairs.

    Landings shall have a 36" min. depth and width, and clear min. head helght of 80"
- RAILING
- Handrails are required at all stairways that have more than 3 risers
  - Handrails should be placed between 34° and 38° above stair nosing.
  - 3 Handralls deeper than 2½ shall have finger grooves \$\frac{x}{x}\$ deep, the full length of one side of the rail. Return handrails to end.

    Balusters for handralls and guardralls shall be spaced so that a 4\* sphere cannot pass through.
- PLUMBING

- PLUMBING

  1. Tollets shall be 16 gallon flush type.
  2. All work performed by a licensed plumber.
  3. Provide pressure regulator and shut off valve.
  4. Interior waste and vent lines shall be A.B.S.
  5. Back water valves should only be used on the drains for plumbing fixtures that are below the level of the nearest upstream manhole. The fixtures that are above the nearest upstream manhole should not discharge through the back water valve.
  6. It shall be the sole responsibility of the Contractor/Builder to follow all codes & regulations pertaining the type of water heater to be used in the specific State and County where the building site is located.
  7. All showers, & kitchen faucets shall be 1/5 GPM or less. Lavatory faucets shall be 1.0 GPM or less.

# FRAMING NOTES

- All dimensions on floor plans are to rough framing, walls calculated to be 3-1 wide for dimensioning.
- 1. All dimensions on floor plans are to rough framing, walls calculated to be 3-½" wide for dimensioning.
  2. All structural sheathing shall be APA rated and shall not exceed maximum span rating. Floor sheathing shall be 1-½" tongue and groove. Gap all waferboard sheathing
  3. Spike together all 2 x laminated built up beams using at least 16d nalis at no less than 7° O.C. staggered.
  4. Trusses are to be engineered, designed and constructed by manufacturer to meet all local toads and codes.
  5. Truss anchors shall be provided at each end of all the trusses. (install to meet local requirements)
  6. Bi-pass doors shall be framed one inch smaller in width than door. Example: A 5-0" dider shall have a 59; rough opening. Also, bi-fold doors shall be framed one inch wider than door and 82" in height. Bi-pass doors shall be framed one inch wider than door and 82" in height. Bi-pass doors shall be framed one inch wider than door and 82" in height. Bi-pass doors shall be framed one inch wider shan door and 82. In height. Bi-pass doors shall be flat in the doors shall be first and beams of the shall be installed as per manufacturers specs.

  8. Framing will include all furr downs, celling joists, and plantshelves as per architectural drawings.

  9. All hangers (joist, rafter, and beam) shall be installed as per manufacturers specs.

  10. Multiple plates and ledgers shall be naticalled as per manufacturers specs.

- Multiple plates and ledgers shall be nailed with 16d nails at 8° O.C.
- Block all horizontal edges of plyvood wall sheathing with 2" nominal blocking.

  All ledger bolts shall have plate washers with a minimum diameter equal to three times the bolt diameter unless shown otherwise in

- Alt tedger buts shall have place washes with a minimum training at each of the plans.
   Minimum nailing shall be 6° O.C. at panel edges & 12° O.C. in the field.
   Walk-in closed shelves 16° in depth. All other closeds shall be 7° deep. Space saver closets shall have an upper shelf at 84° A.F.F. and a lower shelf at 42° A.F.F. Located shelves in single shelf closeds at 72° A.F.F.
   Wood bearms made of two or more pieces shall have the pieces securely botted or nailed together to prevent separation and to insure mutual load sharing. Each interconnected piece shall be continuous between supports shall have the same width as the composite beam 11NO
- beam, UNO.

  16. All framing studs shall be 16' O.C. Max. All floor sheathing with face grain at right angles to framing and glue. Glue must comply with APA specs. Floor joists shall be blocked at all bearing points. Block all horizontal edges of wall sheathing with 2x4 blocking.

  17. All roof sheathing shall be \$\frac{1}{2}\$\$ (typ) rated CDX sheathing nailed with 8d mail at 6' O.C. at panel edges, supported edges, and all blocking with 8d roof.
- 18. All wood that is connected to concrete, steel, and wood to wood (except stud to plate) shall be connected with Simpson (or equivalent) connectors. Sheathing shall be placed no less than 1 from edge of panel and driven flush but shall not fracture the surface of the
- These shall be the member grades used on this structure. Glue-Lam beams (simple span) 24F-V4 DF/DF (cantilevered) 24F-V8 DF/DF

As per manufacturers spec's

DF 2# (or better) DF 2# (or better) DF stud grade (or better) U.N.O Sill plates in contact w/ concrete DF #2(pressure treated)

Pre-Fab trusses or joists

# PROJECT INFORMATION

## SCOPE OF WORK

SINGLE FAMILY RESIDENCE

## STRUCTURAL ENGINEER

MCNEIL ENGINEERING 8610 SOUTH SANDY PARKWAY SANDY LIT 84070 801-255-7700

## JURISDICTION

GRANT, MN 55082

2018 IBC (CHAPTERS 2 - 35).
2018 IRC (EXCLUDING CHAPTERS 11 - 43)
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
ANSI/ASHEAR STANDARD 15-2-2016 NS
ANSI/ASHEAR STANDARD 15-2-2016 NS
ANSI/ASHEAR STANDARD 15-2-2016 NS 2015 MINNESOTA PLUMBING CODE IAPMO 2020 MINNESOTA FIRE CODE "BASED ON 2018 INTER. FIRE CODE" MINNESOTA ELECTRICAL CODE REFERENCES 2020 NEC AND NFPA 70

## CONSTRUCTION

TYPE OF CONSTRUCTION TYPE OF CONSTRUCTION VB
OCCUPANCY CLASSIFICATION R3 1 W/O BASEMENT NUMBER OF STORIES BUILDING HEIGHT

BUILDING AREAS

MAINTEVEL 526 SQ. FT STORAGE AREA 0.50. FT FINISHED AREA 526 SQ. FT UNFINISHED AREA TOTAL AREA

# INDEX OF DRAWINGS

## GENERAL

## ARCHITECTURAL

FLOOR PLANS EXTERIOR ELEVATIONS BUILDING SECTIONS & DETAILS A2.1 A3.1

# ELECTRICAL

ELECTRICAL PLANS M1.1

# STRUCTURAL

GENERAL STRUCTURAL NOTES FOOTING & FOUNDATION PLAN

AVRAME LIS A HAS DESIGNED THIS STRUCTURE IN CONJUNCTION WITH A LICENSED ENGINEER TO MEET OR EXCEED LOCAL BUILDING CODES. AVRAME ASSUMES NO LIABILITY FOR THE ACCURACY AND CRAFTSMANSHIP OF THE OWNER/BUILDER IN FOLLOWING THE PLAN

IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO PERFORM BUILDING REVIEWS BEFORE BEGINNING CONSTRUCTION

THESE INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- VERIFY ALL DIMENSIONS
  REVIEW ALL STAR REQUIREMENTS
  VERIFY COMPLIANCE WITH LOCAL CODES
  VERIFY ALL FOUNDATION HOLDOWN LOCATIONS
  VERIFY ACTUAL SITE CONDITIONS

ANY DISCREPANCIES ON THE PLANS MUST BE RESOLVED BY THE BUILDER PRIOR TO CONSTRUCTION.

TRUSS DESIGN AND LAYOUT IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.

CONSTRUCTION USING THESE PLANS SHOULD NOT BE UNDERTAKEN WITHOUT THE ASSISTANCE OF A BUILDING PROFESSIONAL

- W

NORTH Ш OFFICE 55082 AVENUE IDYLW00D N N JULIANNE GRANT, 11490

**DUO 100** PROJECT (020)

DRAWN FOR ONE-TIME USE FOR AVRAME U.S.A

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**COVER SHEET** 

	WINDOW SCHEDULE												
T	QTY.	WIDTH	HEIGHT	HEAD	LIFACTOR	SHGC	TYPE	REMARKS					
7	1	3'-7"	7'-8"	7'-11"		/€3	PICTURE	TRAPEZOID PICTURE - SEE ELEVATIONS					
2)	1	3'-7"	7'-8"	7'-11"	-		PICTURE	TRAPEZOID PICTURE - SEE ELEVATIONS					
3)	1	9'-0'	1'-6"	6'-8"	-		PICTURE						
3	1	3'-0 1/2"	5'-3"	6'-3"	-		PICTURE	TRIANGLE PICTURE - SEE ELEVATIONS					
5) 5) 5)	1	3'-0 1/2"	5'-3°	6'-3"	-		PICTURE	TRIANGLE PICTURE - SEE ELEVATIONS					
X	13	1'-9"	4-6 7/16			(10)	SKYLIGHT	VELUX VSE - MANUAL OPENING SKYLIGHT - CO8 - OWNER TO DETERMINE HEAD HEIGHT					

							DOOF	R SCHEDULE
	QTY.	WIDTH	HEIGHT	THICK	UFACTOR	SHGC	TYPE	REMARKS
A	1	6'-0"	6'-8"	13/4"	-	-	EXT. FRENCH	EXTERIOR FRENCH, FULL LITE., INSULATED, LOW E, WEATHER STRIP, THRESHOLD, LOCKSET
В	1	6'-0"	7'-10"	13/4"	-	-	EXT. FRENCH	EXTERIOR FRENCH, FULL LITE,, INSULATED, LOW E, WEATHER STRIP, THRESHOLD, LOCKSET
В	1	2'-8"	6'-8"	13/4"	587	-	INT. SWING	
В	1	2'-B*	6'-8"	13/4"		-	INT. BARN	
c	1	2'-6"	6:-8"	13/4"	2.65		INT. BARN	

KEYED	

- MEYED NOTES

  STANDING SEAM METAL RODF WITH SEAMS

  INFO OC. INSTALLED PER MANUFACTURERS

  SPECIFICATIONS OVER ICE AND WATER
  MEMBRANE OVER BUTTIRE ROD'S SUBFACE
  UP TO 24' DOWN FROM RIDGE TYP.
  DOUBLE UNDERLAYMENT REQUIRED AT
  ROOFS WITH SLOPE 4:12 OR LESS.

  SIDING AND TRIM PER OWNER ON TYVEK
  HOMEWRAP ON 12' EXT. SHEATHING ON
  246 STUDS IS 16' OC.

  "2" CONT. METAL FLASHING ABOVE ALL NEW
  DOORS, WINDOWS, AND HORIZ, TRIM

  FASCIA PER OWNER

  SERVET PER DWINER

## (5) SOFFIT PER OWNER

- SOPRIT PECNINEAR

  CONCRETE FOUNDATION SEE STRUCTURAL
  FOR SIZE AND REINFORCING.

  VERTICAL DRAIN BOARD OR SPRAY APPLIED
  FOUNDATION DAMP PRODEING TO DRAIN TO
  4'S CONTINUOUS FOUNDATION DRAIN, SET
  IN GRAVEL DRAIN TO SUMP, ALL SIDES OF
  FOUNDATION. BACKFILL FOUNDATION WITH
  GRANULAR FILL @ 95% COMPACTION
  NON-VENTED ROOF PER RESCHECK REPORT
  AND IRC RBO6.5

16'-4"

A2.1

(3)

(12)

- INSULATION PER REScheck REPORT.
   INSTALL MIN. 4-MIL POLYETHYLENE VAPOR RETARDER OVER THE INSULATION ON THE
- RETARDER OVER THE INSULATION ON THE
  INSIDE (WARM SIDE) IRC R702.7

  (D) TUBS AND SHOWERS WITH TILED WALLS
  REQUIRE A PORTLAND CEMENT
  APPLICATION, FIBER-CEMENT OR GLASS MAT
  GYPSUM BACKER, GREEN BOARD IS NO
  LONGER ALLOWED IN THIS APPLICATION.
  (D) GHARDRAIL AT STAIRWAY TO BE 36" TALL
  W/ NO OPENINGS ALLOWING THE PASSAGE
  OF A SPHERE 4" IN DIAMETER.
  (D) CRAWL SPACE ACCESS. SEE FLOOR FRAMING
  PLANS FOR DETAILS.
- PLANS FOR DE AILS.

  DENTILATION TO BE COMPLIANT AT ALL CRAWLSPACE AREAS. SEE ELEVATIONS FOR SIZE AND LOCATIONS OF VENTS.
  INSULATION TO BE HELD BACK TO MAINTAIN CLEARANCE AROUND VENTS.
- 720 SQ, FT. CRAWL SPACE AREA / 1500
  = 0.48 SQ, FT. MIN. REQ. VENT AREA.

  (1) PELLET STOVE INSTALL PER
  MANUFACTUREN INSTRUCTIONS. TRIPLE
  WALL MANUFACTURED CHIMNEY SYSTEM.
  SIZED PER MECHANICAL SPEC.

- W

6223 WEST DOUBLE EAGLE CIRCLE, 5ALT LAKE CITY, UT 8418 H- 665.2BT, 7.532 WEBSITE, WWW,AVRAKEUSA.COM EMAIL: 5ALES@AVRAKEUSA.COM

11490 JULIANNE AVENUE NORTH GRANT, MN 55082 OFFICE IDYLWOOD

DUO 100

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FLOOR PLANS

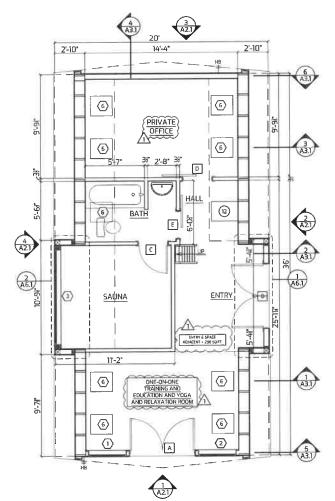
1 LOWER LEVEL FLOOR PLAN

2'-4" 1'-4"

4 A2.1

0







3 LOFT LEVEL FLOOR PLAN

4 A21

**6** 

**6** 

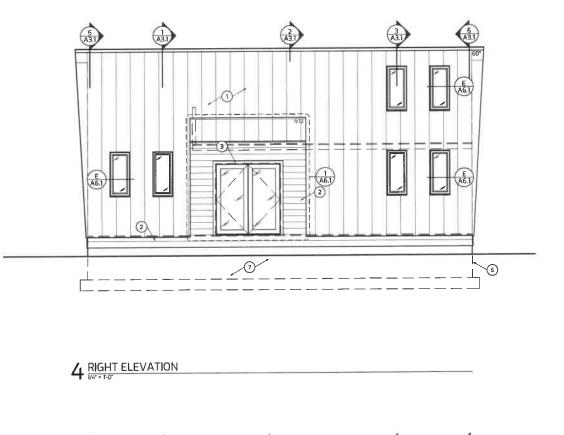
STORAGE 2'-Và'

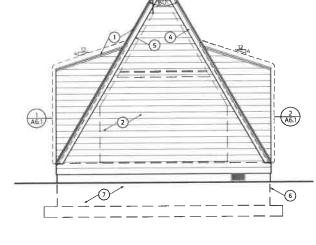
5'-4i"

(5)

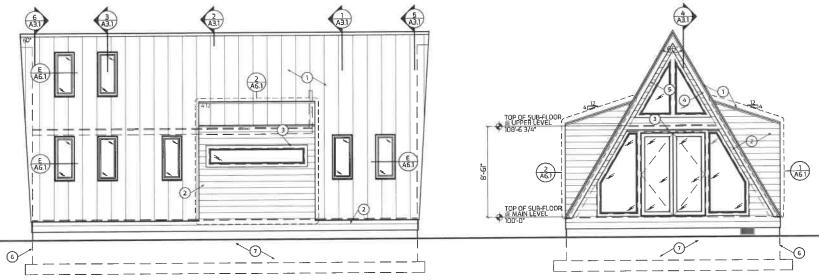
**6** 

**6** 





3 REAR ELEVATION



1 FRONT ELEVATION

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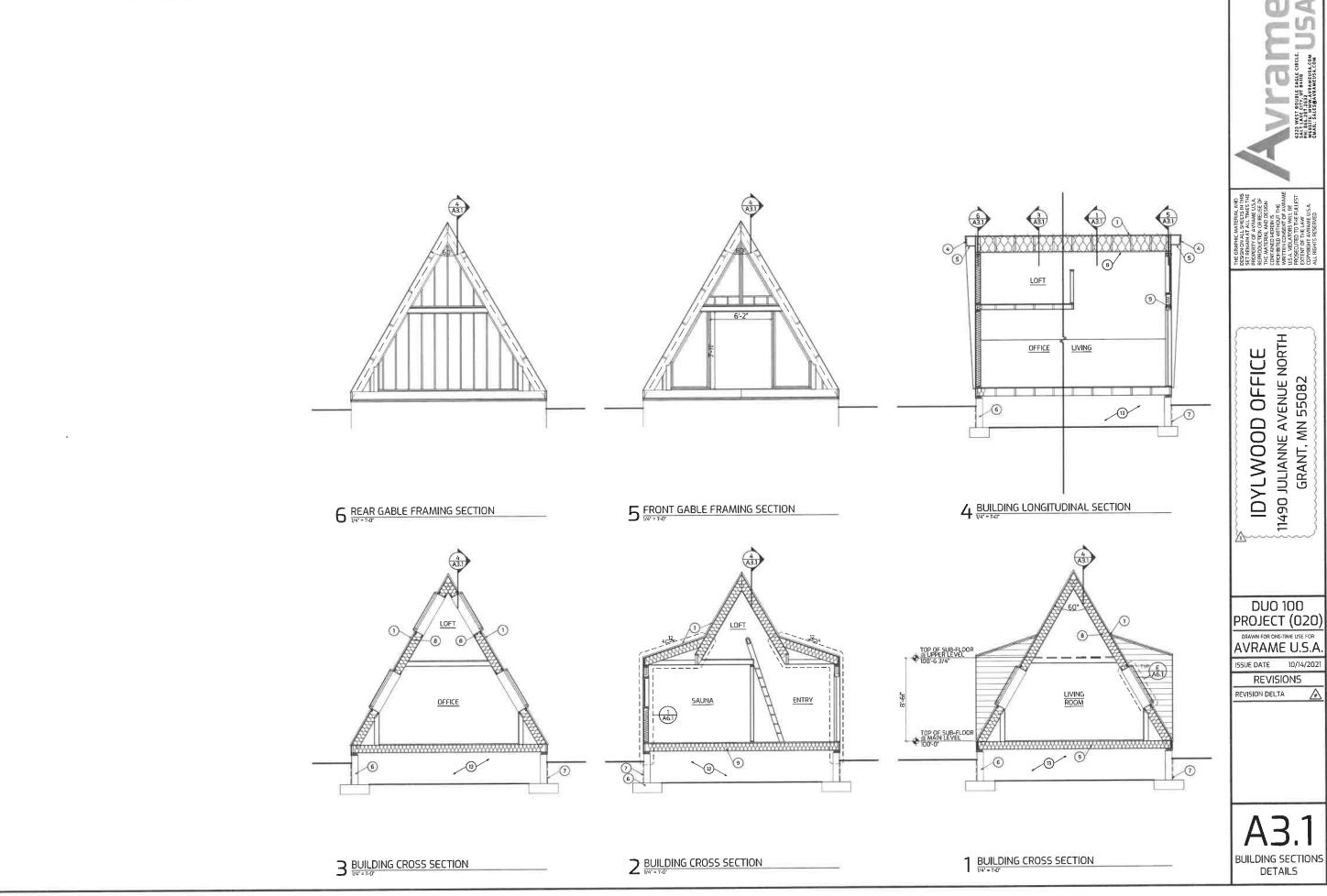
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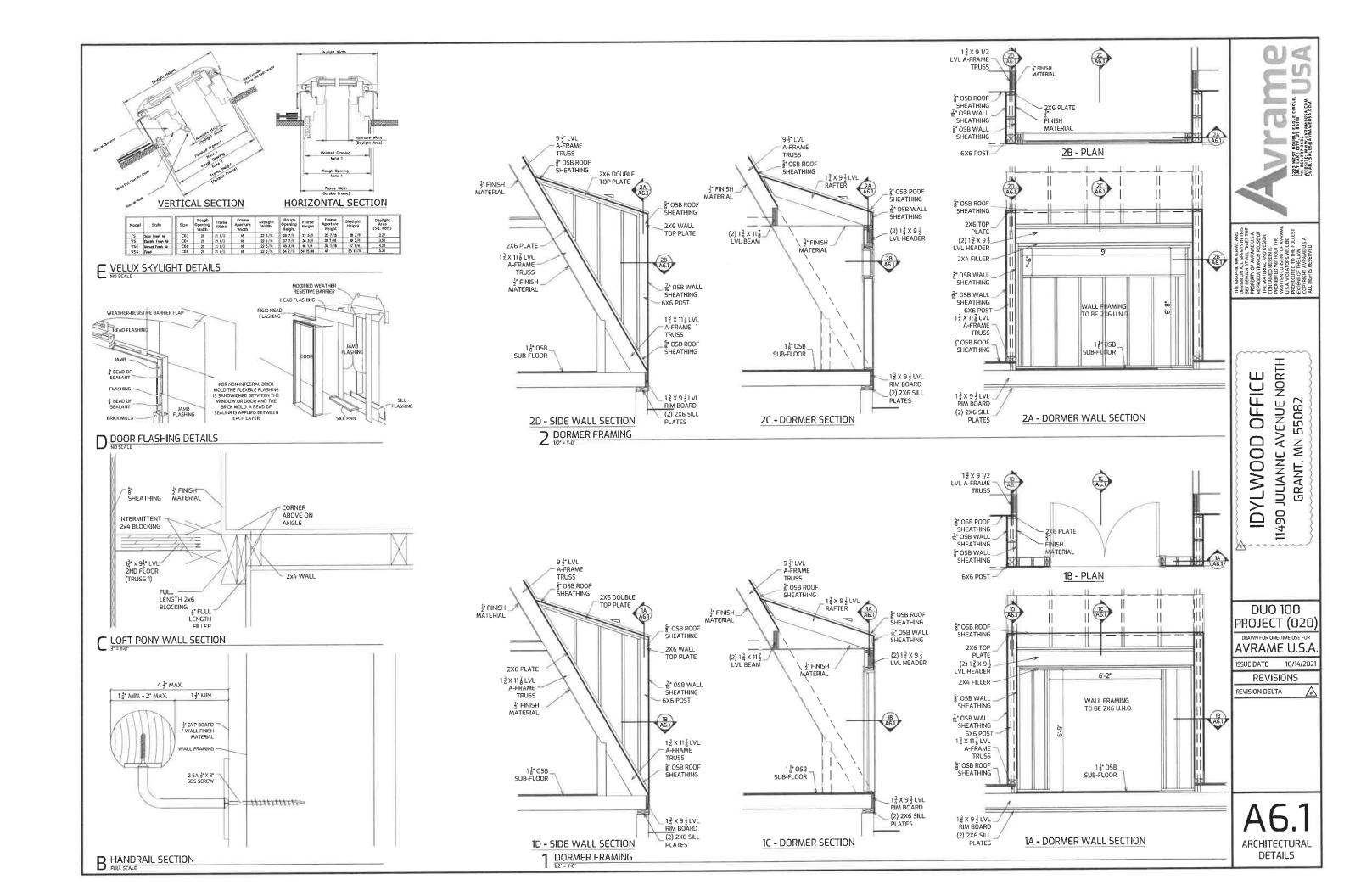
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A2.1 EXTERIOR ELEVATIONS

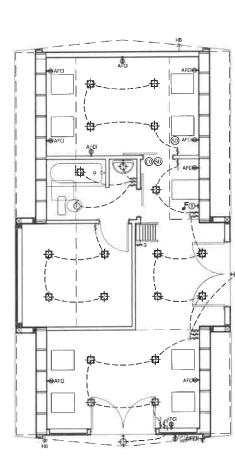
2 LEFT ELEVATION

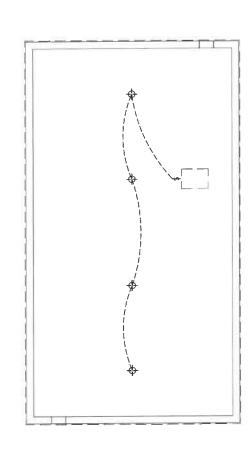




## MECHANICAL, ELECTRICAL, AND PLUMBING NOTES

- -ALL ELECTRICAL INSTALLATIONS SHALL COMPLY W/ 2016 CRC & 2014 NEC
  -INSTALL GRECEPTACLES SO NO POINT ALONG ANY WALL IS MORE THAN 6' FROM OUTLET.
  -INSTALL GRECEPTACLES SO NO POINT ALONG ANY WALL IS MORE THAN 6' FROM OUTLET.
  -INSTALL RECEPTACLES SO NO POINT ALONG ANY WALL IS MORE THAN 2' FROM AN OUTLET.
  -INSTALL RECEPTACLES SERVING HITCHEN COUNTERTOPS SO NO POINT ALONG ANY WALL IS MORE THAN 2' FROM AN OUTLET.
  -INSTALL RECEPTACLES SERVING HITCHEN COUNTERTOPS, IN GARAGES, UNFINISHED BASEMENTS AND OUTSIDE OUTLETS TO BE GECI PROTECTED.
  -FULLE IRED WATER HEATERS SHALL NOT BE INSTALLED IN A ROOM USED AS A STORAGE CLOSET. NON-DIRECT-VENT WATER HEATERS LOCATED IN A
  SEALED ENCLOSURE SO THAT I COMBUSTION AIR WILL NOT BE TAKEN FROM THE LIVING SPACE.
  -PROVIDE A MIN OF 3' OF CLEARANCE SPACE IN FRONT OF THE FURNACE AND A MIN. OF 3' ALONG SIDE AND BACK.
  -ELECTRICAL PANEL MUST HAVE 30' WIDTH, 36' DEPTH AND 6'-6' HEADROOM CLEARANCE.
  -UPER GROUND REQUIRED.
  -ALL 15- AND 2D- AMPERE RECEPTACLES IN EVERY KITCHEN FAMILY, LIVING, DINING, PARLOR, LIBRARY, DEN, SUNROOM, BEDROOM, RECREATION, OR
  SIMILAR ROOM OR AREA OF DWELLING UNITS SHALL BE LISTED AS TAMBER-RESISTANT RECEPTACLES. -EADO214 AND -E39011
  WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL UNIT THE ALARM DEVICES SHALL BE
  WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL UNIT.
  -PHYSICAL INTERCONNECTION OF SMOKE ALARMS HALL NOTE RECIPIERD WHERE USED WITHEUS ALARMS IN THE INDIVIDUAL UNIT.
  -PHYSICAL INTERCONNECTION OF SMOKE ALARMS HALL NOTE RECIPIERD WHERE USED WITHOUT WITHOUT AND ALL ALARMS HALL BATCHEN
  -PROVIDE APPROVED BOXES OF SUPPORT FOR FANILISH COMBOS
  -PROVIDE ALL BERDOROM OUTLETS, LIGHTLANCE BRANCH CIRCUITS SHALL SERVE ALL WALL AND FLOOR RECEPTACLES OUTLETS IN THE KITCHEN
  -PROVIDE ALL BEBOROM OUTLETS, SWITCH, SON OF SMOKE DETECTORS W/ ARC-FAULT PROTECTION
  -ALL EXTERIOR DUTLETS SOR BRAIL HAVE BIBBLE COVERS & 110V OUTLET WITH 25' OF ACUMIT.
  -SMOKE DETECTORS AND CARBON MONOX DETECTORS ARE REQUIRED TO BE INTERCONNECTED S





SYMBOLS LEGEND			
"UFER" CONCRETE ENCASED UFER GROUNDING ELECTRODE	220V DISCONNECT BOX FOR AC COMPRESSOR PER NEC 422.26	110V DUPLEX CONV. OUTLET 👄	THERMOSTAT CONTROL+①
SURFACE MOUNT LIGHT FIXTURE .	PUSH BLITTON AT 48' A.F.F	110V FOURPLEX CONV. OUTLET . 💠	RETURN AIR GRILLE
WALL HUNG FIXTURE ++	CHIMES	1/2 HOT OUTLET	SUPPLY AIR GRILLE
RECESSED LIGHT FIXTURE	SMOKE DETECTOR (WIRED IN SERIES) (SD	220V OUTLET220V	'FROST FREE' HOSE BIB
RECESSED SLOPED LIGHT	CARBON MONOXIDE DETECTOR @	AFCI DUPLEX OUTLET · · · · · · ◆ AFCI	GAS LINEGL
VAPOR PROOF RECESSED	GARBAGE DISPOSAL	GFCI DUPLEX OUTLET · · · · · · · · · ● GFCI	CEILING FAN
SINGLE POLE SWITCH\$	CHANGES PER HEIGHT	WEATHERPROOF DUPLEX OUTLET WP GFCI	WITH LIGHT KIT
3-WAY SWITCH	TELEPHONE JACK AT 14" A.F.F. TYP IN CONDUIT U.N.O.	GARAGE DOOR OPENER RECEPTACLE	V V

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M.E.P. PLANS



 $2_{\frac{\text{WAIN LEVEL MECHANICAL, ELECTRICAL, AND PLUMBING PLAN}}{\text{V4'=1-0'}}$ 

1 LOWER LEVEL MECHANICAL, ELECTRICAL, AND PLUMBING PLAN

2'-4" 1'-4" 15'-10 HDN1 - SIMPSON STHD14 (RJ) STRAP 12 No. 12 16'-4"

G222 WKST DUBLE GALLE CIRCLE.
S222 WKST DUBLE GALLE GIRCLE.
PH. 866.263.263.2
EASHL: SALES@VPRANUDA.COM

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51.1 STRUCTURAL PLANS

1 FOOTING AND FOUNDATION PLAN  $_{1/4'=1^{\circ}0'}$ 

UNLESS NOTED OTHERWISE, ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST BUILDING CODE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS AT THE JOB SITE, AND TO FULLY COORDINATE ALL DIMENSIONS AND CONDITIONS OF DETAILS WITH O OTHER DISCIPLINES. ANY FIELD CONDITIONS CONSTRUCTION THAT IS DIFFERENT FROM THAT SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT ANY CONFLICTING DETAILS SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE CONSTRUCTION OF SAID DETAIL. DO NOT SCALE DRAWINGS, ANY QUESTIONS REGARDING THE CONSTRUCTION DOCARRENT SHALL BE SUBMITTED TO THE ARCHITECT IN THE FORM OF A WRITTEN REQUEST FOR INFORMATION (RFI).

ALL SIPPORT OF CONSTRUCTION LOADS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ALL SHORING AND BRACKING BEGINED FOR THE PROTECTION OF LUE AND ROCKETS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ALL SHORING THE CONTRACTOR ALL BY THE RESPONSIBILITY OF THE CONTRACTOR, ALL BYOKE SHALL BE DONE THA COOPERANCE WITH GHAR REGINERARITY SHALL BE DONE THE RESPONSIBILITY OF THE CONTRACTOR ALL BYOKE SHALL BE DONE THE ADD COSTA BEGINERARITY SHALL BE ROCKETT ON THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK ALL PROCESSES OF SOLECCES AND AND THE RESPONSIBILITY OF THE GENERAL CONTRACTOR ALL DRICKETS ROCKETS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR ALL DRICKETS ROCKETS SHALL BE THE RECOVERY OF THE STRUCTURE OF THE SHALL BE THE RECOVERY OF THE SHALL BE COLUMNS, BOTTOM OF METAL DECK, AND TOP OF SLAB, UNLESS NOTED OTHERWISE REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS. THE FOLLOWING DESIGN CRITERIA SHALL BE ENFORCED.

GOVERNING BUILDING CODE: 2020 MINNESOTA BUILDING CODE RISK CATEGORY: II (IBC TABLE 16045)

- ROOF LOAD 1. ROOF DEAD LOAD, 16 PSF
- ROOF LIVE LOAD 20 PSF (NON-CONCURRENT WITH ROOF SNOW LOAD) ROOF INVELOAD 2015 ROOM-CONCURRENT WITH BOOM SHOW LO A GROUND SNOW LOAD IP 2 100 PSF USED IN CALCS 5 FLAT ROOF SNOW LOAD IP - 34 PSF (SNOW DRIFT PER ASCE?) C SLOTED ROOF SNOW LOAD IP - 34 PSF (SNOW DRIFT PER ASCE?) SNOW ENDOME PACTOR C - 12 E SNOW LOAD IRRUIKIANCE PACTOR L - 10 THERALL PACTOR C - 10

# WIND LOAD 1. BASIC WIND SPEED: 120 MPH USED IN CALCS 2. WIND EXPOSURE TYPE, C

- BASIL WITH STATE
  WIND EXPOSURE TYPE, C
  WIND IMPORTANCE FACTOR, Iw= 1 0
  INTERNAL PRESSURE COEFFICIENT= ±0.18
- SEISMIC LOAD

  1. SEISMIC IMPORTANCE FACTOR Ic\* 1.0

- 2 SITE COEFFICIENTS
  A SDS = 1.0g (ISED IN CALCS)
  B SDI = 0.5g
- D SOIL SITE CLASS= D
  E SEISMIC DESIGN CATEGORY= D
- 4 BASIC LFRS = LIGHT FRAMED WALL WITH SHEAR WALLS (LONGITUDINAL DIR) RESPONSE MODIFICATION COEFFICIENT R=6.
- A RESPONDE MULATER A MADE STATE A TABLE A CONTROL OF THE METERS OF THE M
- BASIC LFRS = LIGHT FRAMED WALL WITH SHEAR WALLS (TRANSVERSE DIR.)
- BASIC LERS LIGHT FRANKED WALL WITH SHEAR WALLS (TRAVA RESPONS MODIFICATION COEFFICIENT R=?
   W WEIGHT OF STRUCTURE:
   DESIGN BASE SHEAR = 0.5W (ULTIMATE), 0.55W (SERVICE)
   D DESIGN PROCEDURE: EQUIVALENT LATERAL FORCE

ALTERNATES
ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE AND FORM FOR SPECIFIED ITEMS
MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION TO THE
ARCHITECTEPROTHESE FOR REVIEW ALTERNATE MATERIALS THAT ARE SUBMITTED
WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTIAY DEVIATE
PROATTHE DESIGN INTENT OF ALTERNALS SPECIFIED BAYS BE RETURNED WITHOUT REVIEW: ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW WILL NOT BE REVIEWED UNLESS AUTHORIZED BY THE OWNER.

INSCREPANCES.
IN CASE OF DISCREPANCES BETWEEN THE GENERAL NOTES, SPECIFICATIONS PLANDET ALLS OR REFERENCE STANDARDS, THE ARCHITECTIENGINEER SHALL DE BETWEEN TO THE ARTHROCKER SHALL BE ROUGHTO TO THE ATTENTION OF THE ARCHITECTIENGINEER REPORTED PROCEEDING WITH THE WORK ATTENTION OF THE ARCHITECTHEMOREUS BEFORE THOSE WITH THE WAR.

SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT DOCUMENTS. THE

CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE VOICE, UNLESS PRIOR TO THE STRAISSION OF THE PRICE. THE CONTRACTOR ASSES FOR A DECISION FROM THE ARCHITECT AS TO WHECH SHALL, GOVERN ACCORDINGLY, ANY CONFIDER TO BE RETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE CONTRACT PRICE.

SITE VERIFICATION.
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. ONE LOTS RETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE THE WORK

MEANS, METHODS AND SAFETY RE-URRAINENTS.
THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB REALTED SAFETY STANDARDS SILENT AS OSFIA AND DOSH DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH) CONTRACTOR IS RESPONSIBLE TO ADDRESS TO SOLIT A ROBAL THORN SEGMENT STATE LESS THE CONTRACTOR IS RESPONSIBLE TO ADDRESS TO THE LATEST COSHA ROBAL THONE SOLITING AND FELLO WELDING AT ALL ADDRESSED ON THE LATEST COSHA ROBAL THONE SOLITING AND FELLO WELDING AT ALL ADDRESSED CONTRACTOR OF THE SAFETY OF THE SAFETY SHAPPING TO THE RELACTOR THE SAFETY SHAPPING TO THE RELACTOR THE SAFETY SHAPPING TO THE RELACT OF THE SAFETY PROBLEMES FROM THE HOISTING MECHANISM UNLESS REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR'S TEMPORARY BRACING AND SHORING DESIGN ENGINEER.

BRACING/SHORING DESIGN ENGINEER.
THE CONTRACTOR SHALL AT HIS DISCRETION EMPLOY AN SSE, A REGISTERED

TEMPORARY SHORING, BRACING: THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABLETT OF THE STRENGTH REDURING CONSTRUCTION AND SHALL FOR SOUTH THE STRENGTH AND STRENGTH RESPONSIBLE TO ALBITYATION AND SHALL FOR STRENGTHER IS CONTRACTOR SERVICE TO THE STRENGTH AND STRENGTHER IS CONTRACTOR SERVICE SERVICE AND STRENGTHER IS CONTRACTOR SERVICE SERVICE AND THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTION FOR EXECUTION FOR EXECUTION FOR THE OWNER AND THE SEQUENCES.

CONSTRUCTION LOADS.

LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED BY DESIGN CRITERIA & LOADS BELOW OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY THE CONTRACTOR'S SSE FOR BRACHMOSHORING

CHANGS IN LOADING.
THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY THE SER OF ANY ARCHITECTURE. MECHANICAL, ELECTRICAL, OR PLIMBING LOAD IMPOSED ONTO THE STRUCTURE THAT DEPERS FROM LOR THATES NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (ARCHITECTURAL STRUCTURAL). MECHANICAL/ELECTRICAL OR PLUMBING DRAWINGS) PROVIDE DOCUMENTATION OF LOCATION, LOAD, SIZE AND ANCHORAGE OF ALL UNDOCUMENTED LOADS IN EXCESS OF 400 POUNDS PROVIDE MARKED PSTRUCTURAL PLAN INDICATING LOCATIONS OF ANY NEW EQUIPMENT OR LOADS SUBMIT PLANS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION

NOTE PRIORITIES
PLAN AND DETAIL NOTES AND SPECIFIC LOADING DATA PROVIDED ON THE INDIVIDUAL PLANS AND DETAIL DRAWINGS SUPPLEMENTS INFORMATION IN THE STRUCTURAL

PLAN INTORMATION:
DIMENSIONS ARE FOR REFERENCE, CONTRACTOR TO VERIFY ALL DIMENSIONS
DIMENSIONS ARE FOR REFERENCE, CONTRACTOR TO VERIFY ALL DIMENSIONS
DIMENSIONS ARE PROVIDED BY THE ARCHITECT FLAST TROPE AND CRECKAST TAKES
WILL ANNEL ENRANGERING ITS DIMENSIONS WITH THE ARCHITECT FLASTS INDEED NO CRECKAST TAKES
WILL ANNEL ENRANGERING. ITS DIMENSIONS WITH THE ARCHITECT PLASTS IN TRACE AND TRECT.
HORDERCT FORITHE OR CONSEQUENTIAL DAVAGES THAT MAY RESULT IN ANY WAYN
FROAT VOIR USE, MISTING, REPERENCE TO OR RELLANCE ON ANY OF THE INFORMATION OR
PROVIDED OR HAIT RESULT FROM MISTIALSE, BERORG, ORISISONS, INTERPRETATIONS OR
DEFICITS MICHEL ENGINEERING EXPRESSLY DISCLAIMS ALL WARRANTIES, INCLIDING
ANY EXPRESS.

INPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION HERRIN

WHILE MOVEL ENGINEERING MAKES EVERY EFFORT TO PRESENT ACCURATE AND WHILE M. SELL EPHOTEERION MANUS EVERT EPHON TO PALESE PAR COURTE, AND RELIABLE INVOLATION, MORELLE ENVIRENMENTO HOST MOT EMODES, E. PRÍNCHE EN CERTIFY THE INFORMATION PROVIDED BY OTHERS, NGC DUES AND ELECTRIC PROVIDED RO GRIAANTEE ITS. ACCURACY, CORD ETHEMS SOR THE LESS AS IN THE LESS AND THE STORMATION IS VOLITATANY AND RELIANCE ON IT SHOULD ONLY BE CADERIALED. AFTER YOUTHAND DEPENDENTLY WEIGHED ITS ACCURACY, CORPELTERES AND THE LEMES.

CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY DIMENSIONS AGAINST THE CORRESPONDING OFFICIAL CONSTRUCTION DEA WINKS DIMENSIONS SHOWN ON THE CONSTRUCTION DOCUMENTS MIST BE VERIFIED WITH ARCHITECTRAL PLANS. IF ANY INSCREAMINGS ARE FOUND THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE 

FOUNDATIONS
SOIL TO BE OBSERVED PRIOR TO PLACEMENT OF FOOTINGS ALL FLUTING DEPTHS
NOILCATED ON PLANS ARE MINNOW DEPTHS FOOTINGS MAY BE PLACED IN NEAT
EXCAVATED TRENCHES TRENCH SHALL BE APPROVED BY INSPECTOR PRIOR TO
PLACEMENT OF CONCRETE AT LOCATIONS WHIRE STRUCTURAL HILL IS REQUIRED. FILL
SHALL BE PLACED IN 6' LIFTS & COMPACTED AT OPTIMISM MOISTURE CONTENT.

- 1 MAXTMONINET REARING PRESSURE = 1.500 PSF (NET ALLOWABLE) ASSUMED PER IBO MAGNICAN DE BEACHT PRESENCE - 1,000 FM (REF. 2004 MEDIC) - NO. CONTROL TO BE PLACED SE MIN EPTH (REAL GRADE TO BOTTCH) OF FOUTHON)

  INTERIOR FOOTHOSS - 12" (BOTTCH) OF FOUTHON TO TUP OF SOIL OR SLAB)

  LATERAL SOIL PRESSURE - ACTIVE = 40 PCF, AT REST = 55 PCF, PASSIVE = 250 PCF
- (ASSUMED)
  5. FRICTION COEFFICIENT: 0.45

CONCRETE.
ALL CONCRETE MATERIALS SHALL COMPLY WITH THE STANDARDS SPECIFIED IN THE
LICEST EDITION OF THE ACT SHE BUILDING CODE EACH MIX DESIGN SHALL HE REVIEWED
BY AN APPROVED INDEFENDENT LABORATORY.

LOCATION	EXPOSURE CLASS	SLUMP (MAX)	AGGRE GATE (MAX SIZE)	AIR CONTENT	COMPRESSIVE STRENGTH (PSI)
FOOTINGS (INTERIOR)	F6, S0, P0, C0	5**	1º DIA	1.5%	3,500 PSI
FOOTINGS (EXTERIOR)	F0, S0, P0, C0	5*	I* DIA	1.5%	3,500 PSI
CONCRETE WALLS	F1, S0, P0, C1	4"	3/4* DIA	5%	4.500 PSI
INTERIOR SLAB ON GRADE	F0, S0, P0, C0	5*	3/4" DIA	1.5%	4,000 PSI
SITE CONCRETE (UNREINE)	F3, S0, P0, C0	4"	3/4* DIA	6%	4,500 PSI

## 2500 PSI USED IN DESIGN

SITE CONCRETE UNLESS SPECIFIED OTHER BY CIVIL ENGINEER CONCRETE TYPE: TYPE I, MAX FLYASH: 25%

AIR CONTENT +- 1 5% MEASURED AT POINT OF FINAL PLACEMENT. AIR-ENTRAINING AIR COSTIENT \*- 15% BESONDED AT 1901 OF BINNET FLACEMENT. ARREST FLACINGS SHALL NOT BE A ADBECT OF THE CONCRETE MY. UNREINFORCED CONCRETE SLABS ON GRADE MAY HAVE CALCINATED HOLD ROOM FERCENT, AIR ENTRAINMENT SHALL BE ADDISTED FOR THE USE OF ADMINITURES AND FLY ASH.

ANY CONCRETE THAT FAILS TO MEET SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION DESIGN. PLACEMENT AND READVAL OF ALL FORMWORK ALL SHORING DURING PLACEMENT OF CONCRETE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR

SEE CIVIL DRAWINGS FOR SITE CONCRETE REQUIREMENTS. IN ABSENCE OF

CAST-IN-PLACE CONCRETE COVER:
CONFORM TO THE FOLLOWING COVER AND CORROSION PROTECTION REQUIREMENTS S NOTED OTHERWISE IN THE DRAWINGS

REINFORCEMENT LOCATION	MIN. COVER
FUOTING BUTTOM REINFORCEMENT	3*
FOOTING TOP REINFORCEMENT	2"
SLAB ON GRADE REINFORCEMENT	2" FROM TOP
WALLS IN CONTACT WITH EARTH	2*
WALLS NOT IN CONTACT WITH EARTH	3/4"

RIGHTERS (LLEE) SMETHER TO CONCRETE:
ANCHOR LOCATION, TYPE, DIAMETER AND EMBEDMENT SHALL BE AS INDICATED ON
DRAWTHEN, REPERENCE THE "POST INSTALLED ANCHORS" SECTION FOR APPLICABLE
POST-INSTALLED ANCHOR AMERIYES. ANCHORS SHALL BE INSTALLED AND INSPECTED
IN STRUCT ACCORDANCE WITH THE APPLICABLE LOC.

CONCRETE REINFORCING. ALL REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60, Fy=60,000 PSI MIN., UPLESS NOTED OTHERWISE BARS SHALL BE TIED SECURE PRIOR TO PLACEMENT OF CONCRETE TO MAINTAIN PROPER PLACEMENT AFTER CONCRETE IS IN PLACE LAP ALL BARS 40 DHAMETERS UNLESS NOTED OTHERWISE SPLICE BARS ONLY WHERE SHOWN ON

NORMAL WERGHT CONCRETE SHALL HAVE A UNIT WEIGHT OF POUNDS FER CUBIC FOOT USE OF CALCINA CHEORDE IS NOT FERRITTED IN ANY CONCRETE BIXES. ALL OTHER ADDITIVES AND ADMIXTRES ARTS HAVE THE WRITTEN APPROVAL OF THE ENGINEER THE ENGINEER SHALL HAVE ID BUSINESS DAYS TO REVIEW SHOY DRAWINGS

STRUCTURAL STEEL
ALL STRUCTURAL STEEL COMPONENTS SHALL BE FABRICATED AND ERECTED
ACCORDING TO THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL
CONSTRUCTION "SPECIFICATIONS FOR DESIGN FABRICATION AND BEACTION OF
STRUCTURAL STEEL FOR BILLIDRIGS", WITH "CORMENTARY", AND THE AISC "CODE OF
STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AS WELL AS THE FOLLOWING
STANDARD."

AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A-325 OR A-490 BOLTS" APPROVED BY THE RESEARCH COUNCIL ON RIVETED AND BOLTED STRUCTURAL JOINTS OF THE ENGINEERING FOUNDATION
AWS DIL "STRUCTURAL WELDING CODE"
ASSIDIA "STRUCTURAL WELDING CODE"
SASTIM AS "GENERAL REQUIREMENTS FOR DELIVERY OF ROLLED STEEL PLATES, SHAPES,
SHEET PILING AND BARS FOR STRUCTURAL USE".

ALL STEEL SECTIONS SHALL CONFORM TO THE FOLLOWING WIDE FLANDES SHALL CONFORM TO THE PALLOWING.
WIDE FLANDES SHAPES.
HOLLOW STRUCTURAL SECTIONS:
ASTM A590 GRADE 50 OR ASTM A592 GRADE 50 FY MIN = 46 KSI ANGLES, CHANNELS, PLATES & BARS: ASTM A36.

MASONRY.

CONCRETE MASONRY UNITS: ALL CONCRETE MASONRY UNITS SHALL BE MEDIUM CONCRETE MASONAY UNITS: ALL CONCRETE MASONAY INITIS SHALL BE MEDIUM WEIGHT CONCRETE UNITS GRADE "IN FER ASTIN COO AND C-31; FIRE "1509 PSI, MISHIMAN UNIT STRENGTH OF CONCRETE UNITS TO BE 1909 PSI MORTAR SHALL BE TYPE "5 1809 PSI AT 28 DAYS, GROUT SHALL BE OF FULDIO CONSISTENTAY WITH A SLUMP OF 8" MB", AND SHALL BEVELOP A COASPRESSIVE STRESS AT 28 DAYS OF 2000 PSI MIN ANTINLING WALL REPROCREDE UNLESS NOTED CHEWRIES SHALL BE: "86 g 20 C VERTICAL DES MORTED CHEWRIES SHALL BE: "86 g 20 C VERTICAL PROVIDE QNE 8" VERTICAL BAR @ CORNERS FROVIDE (2)-8" VERTICAL BARS @ JAINES LAP ALL MASONAY WALL REPROGRAMM FOR A FORMER SHOUTH CALL SHALL BARS # JAINES SHALL BE SHALL BE

JOINT REINFORCEMENT SHALL HAVE NOT LESS THAN 5'8" MORTAR COVERAGE FROM THE EXPOSED FACE: OTHER REINFORCEMENT SHALL HAVE A MINIMAN COVERAGE OF ONE BAR DRAMETER OVER THE BARS, BUT NOT LESS THAN 34". WHEN MASONRY IS EXPOSED

NIERE WALLS ARE NOT GRONTED SOLID. EACH GROUT POOR SHALL TRAINATE FLUSH
NITH HE TOP OF THE UPPERMOST UNIT EXCEPT AT CELLS WITH VERIC AL.
BERNORGE-WEST WERRE GROUT SHALL BE 11/2 BELOW TOP OF UNIT OP PROVIDE
CONSTRUCTION KEY. GROUT POIRS SHALL BE 11/2 BELOW TOP OF UNITS SHORE HILFE
ROOTHING FROCEN RES. ARE FOLUMED ALL MARKONY SELOW GRAD SHALL BE SOLID
GROUTING FROCEN RES. ARE FOLUMED ALL MARKONY SELOW GRAD SHALL BE SOLID
GROUTING FROED RICH ARE CALLED WITH GROOT SHALL HAVE VERTICAL
ALKEMBENT SHPICENT TOMAINTAIN A CLEAK UNKOSTRICTED. AND VERTICAL CELL
MEASHINN NOT LESS THAY? BY 3°, ALL STEEL REINFORCERENT SHALL BE SECURED
AGAINST USEPLACEMENT PRIOR TO GROUTING BY WIRE INSTITUTIORS OR OTHER MEASHING NOT LESS THAN 2" BY 3". ALL STEEL REINFORCEMENT SHALL BE SECURED AGAINST DISH ACEMENT RISK OF GOOLUTING BY WERE POSITIONED OR OTHER SUIT ABLE DEVICES AT INTERVALS MYTEXCEEDING 300 BARD DAMETER OR BY ANALYSIS OF A CANADISMA, OR A PERAS PRICE LOCATION WESTERLA REINFORCEMENT SHALL BE LOCATED AT THE CENTER OF THE WALL NILESS NOTICE OF THE WALL NILESS NOTICE OF THE WALL SHALL SHALL SHALL BE SHALL BY BE PURED DIVERS. SECRECIALLY SHOWN ON THE DAMANNOS IN STATUS AND AND SO WITH SUBMITTANCEMENT BAND OF THE DAMANNOS IN STATUS DAVINGS DO NOTICE SECRETARY BAND AND SO WITH SUBMITTANCEMENT BANDS FOR DAMANNOS DO NOTICE SECRETARY BANDS FOR D

CONTROL JOINT SPACING SHALL NOT EXCEED 20°-0°. SEE ARCHITECTURAL DRAWINGS FOR CONTROL FORM STATEMENT AND EARLY PROCESTS SOLD AFTER RISTALLATION OF BEAMS AND JOISTS EABED CHANNELS AND PLATES SHALL BE PLACED SO AS TO CREATE A FLUSH SURFACE WITH THE FACE OF THE WALL

ANCHOR BOLTS AND HEADED STUD ANCHORS SHALL BE SET IN A GROUTED CELL ANCHOR BOLTS AND HEADED STUD ANCHORS SHALL HAVE UP CROUT SURROUNDING THE SLANK AT ITS PENETRATION GROUT SHALL BE PLUSH WITH THE FACE OR TOP OF THE MALSORY.

ALL VERTICAL REINFORCEMENT SHALL BE DOWELED IN TO THE FOUNDATION, FOOTING AND THE STRUCTURE BELOW WITH THE SAME SIZE DOWEL, SPACTING AND IN THE SAME CORE AS THE VERTICAL WALL REINFORCING ABOVE.

WALL OPENINGS 24' WIDE AND WIDER FOR UNSCHEDULED OPENINGS, PROVIDE REINFURCING UN ALL SIDES FER DETAILS. ALSO, FOR ALL OPENINGS, PROVIDE HORIZONTAL BAR AT BOTTOM FOR OPENING PER DETAILS. VERTICAL BARS SHALL EXTEND FROM FLOOK LEVEL BELOW "TO THE FLOOK, OR KOUP LEVEL ABOVE HORIZONTAL BARS FOR ALL OPENINGS SHALL EXTEND A MINIMUM OF 48 BAR DIAMETERS BEYOND THE ORNERS OF THE OPENING, WHERE A 48 BAR DIAMETER EXTENSION IS NOT POSSIBLE EXTEND BARS AS FAR BEYOND THE OPENING AS POSSIBLE AND TERMINATE THE BARGS WITH A 90 DEG STANDARD ACTHOOK

HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS THROUGH JOINING CONCRETE WALLS, MASONRY WALLS, COLUMDS, AND PILASTERS PROVIDE A KEY BETWEEN THE WALL AND THE COLUMN OR PILASTER HORIZONTAL WALL REINFORCING SHALL BE PLACED INSIDE THE COLUMN VERTICAL REINFORCING HORIZONTAL WEINFORCING SHALL. TERRAINATE WITH A STANDARD HOOK AT EIGH OF OPENINGS AND ENDS OF WALLS WITHOUT CORNER BARS AS SHOWN IN DETAILS. ALL MASONRY COLUMN TIES SHALL TERMINATE WITH 135 DEG. HOOKS PLUS A 6 BAR EXTENSION (4" MIN)

MASONRY SHALL BE SPECIALLY INSPECTED PER THE LATEST EDITION OF IBC , LEVEL I, TIMS 402/ACI 530/ASCE 5 AND TIMS 602/ACI 530 I/ASCE6

LAMINATED VENEER LUMBER
ALL LAMINATED VENEER LUMBER SHALL CONFORM TO THE SPECIFICATIONS OF BOISE CASCADE CORPORATION FOR VENEER LUMBER, OR ENGINEER APPROVED EQUIVALENT DESIGN VALUES SHALL MEET OR EXCEED THOSE PUBLISHED VALUES IN THE BOISE

## SHEATHING: SHALL BE A.P.A. RATED, SEE PLAN FOR SPAN RATING AND THICKNESS.

ROOF AND FLOOR SHEATHING SHALL BE LAID WITH THE FACE GRAIN PERPENDICULAR TO THE FRAMING MEMBERS U.N.O. AND END JOINTS SHALL BE STAGGERED. WALL SHEATHING MAY BE APPLIED HORIZONTALLY OR VERTICALLY.

ALL NAILS SHALL BE COMMON WIRE NAILS UN O EQUIVALENT PNEUMATIC DRIVEN NAILS MAY BE USED IF FASTENER MANURACTURER HAS CURRENT I.C.C. APPROVAL FASTENERS TO BE USED SHALL BE EQUIVALENT IN LATERAL AND WITHDRAWAL STRENGTH TO THE SIZE COMMON MAIL SPECIFIED

USE EXTERIOR GRADE SHEATHING AT DECKS AND CORRIDORS.

ROOF SHEATHING:
EDGE BLOCKING OF UNSUPPORTED EDGES OF SHEATHING AS NOTED ON PLANS PLLY CLIPS
OR APPROVED EQUAL CONNECTOR SHALL BE INSTALLED AT A MD SPAN BETWEEN EACH
SIPPORT WHEN RAFTER SPACING ENCEEDS 16° AND EDGE BLOCKING IS NOT SPECIFIED.

TYPICAL NAILING SHALL BE 84 @ 6" O.C. AT SUPPORTED EDGES AND OVER SHEAR WALLS AND 84 AT 12" O.C. AT INTERMEDIATE SUPPORTS 11 NO

FLOOR SHEATHING: EDGE BLOCKING OF UNSUPPORTED EDGES OF SHEATHING AS NOTED ON PLANS

TYPICAL NABLING SHALL BE 10d @ 6° OC. ALL SUPPORTED EIXES AND OVER SHEAR WALLS, AND 10d @ 12° OC. ALL INTERMEDIATE SUPPORTS U N O. USE RING SHANK NAILS

ALL FLOOR SHEATHING SHALL BE GLUED TO KHISTS. THE FIELD-GLUED FLOOR SYSTEM SHALL BE INSTALLED ACCORDING TO THE RECOMMENDATION OF THE AMERICAN 

ROUGH CARPENTRY: FRAMING LUMBER SHALL BE KEIN DRIED AND SHALL MEET THE FOLLOWING MINIMUM

SPECIES GRADE
STANDARD OR BETTER. USE STLL PLATES 2 x 4 2x6, 2x8 D.F NO. 2 OR BETTER. ALL SILL PLATES IN CONTACT WITH CONCRETE OR MASONRY, SHALL BE PRESSURE TREATED OR CALIFORNIA REDWOOD

HORIZONTAL FRAMING LUMBER: (UNO) 4x4 AND SMALLER 2x ROOF JOISTS & RAFTERS 2x FLOOR JOISTS 4x HEADERS & BEAMS 6x6 & LARGER BEAMS

VERTICAL FRAMING LUMBER: (U.N.O.) D.F. D.F. D.F. STUD GRADE OR #2 (SEE PLAN) ALL STUDS ALL POSTS ALL OTHER LUMBER U.NO STANDARD OR BETTER.

## FINGER-SONTED LUMBER MAY BE USED EXCEPT AT SHEARWALL. HOLDOWNS

LOCATIONS AT EXTERIOR LOCATIONS, DECKS EXPOSED CORRIDORS, USE APA RATED SHEATHING AT EXTERIOR LOCATIONS, DECAS ENVISED LOCRIDIONS, OSE JAY ARALED STREET INFO EXTERIOR, WHESE CONSTRUCTION DELAYS ARE EXPECTED PRIOR TO PROVIDEN PROTECTION USE APA RATED SHEATHING EXPLISIVE LOCADAMAN'S KNOWN AS "CON-PROVIDE A MANDRIM OF \$1 STUDIOS UNDER ALL DESCRIPT REASON LOCATIONS UNO PROVIDE A MANDRIM OF \$1 STUDIOS UNDER ALL DESCRIPT RISES BEARDING LOCATIONS UNO WHERE POSTS OR MULTIPLE STUDIOS WHERE BEARS OR LOCATIONS UNO WHERE POSTS OR MULTIPLE STUDIOS SHALL BE CARRED TO THE FOUNDATION BLOCK OISTS AT ALL SUPPORTS DOUBLE JOISTS UNDER PARALLEL PARTITIONS BLOCK UNDER PERPENDICULAR PARTITIONS AT 32" O.C.

IOISTS HANGERS AND OTHER METAL FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULAR TYPE AS MANUFACTURED BY SUBSON COMPANY, SAN LEADRO CALIFORNIA, ACCESSORES OF OTHER MANUFACTURER WITH EQUIVALENT LOAD CARRYING CHARACTERISTICS MAY BE USED, WHEN APPROVED BY ENGINEER

BOLTS. HOLES IN WOOD 1/16" OVERSIZE MAX. USE WASHERS AGAINST WOOD BOLTS: HOLES IN WOOD DIFF OVERSIZE ARX. CS.: WASHESS AGAINST WO-CE-FER-FIGHTEN ALS DELYTS BEFORE CLISINGS IN REPORTAL HOLES FOR LAG BOLTS AND TURN BOLTS INTO HOLES, DO WITH DISHAFA HIRE STOPPING, BACKING FOR INTERIOR PUSSEES, NO-SHEARING WALLS AND OTHER NON-STRUCTURAL FRAMINGS IN TO NECESSARILY SHOWN ON THE STRUCTURAL DRAWINGS. SEE FLASTENING SCHEDULE (UND.) PER DECCHAPTER 23

FASTENERS IN PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD FASTENERS SHALL BE OF HOT DEPED ZINC-COATED GALYANGED STEEL. STANDESS STEEL, SILCON BROWZE OR COPPER THE COATING WEIGHTS FOR ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTIN A 153 PER BE CHAPTER 23

POST INSTALLED ANCHORS:
FOLLOW ALL ICC REPORT AND MANUFACTURER'S REQUIREMENTS AND
RECOMMENDATIONS FOR POST INSTALLED ANCHORS INSTALLATION WHERE CONFLICT
MAY EXIST, THE MAST STRINGENT REQUIREMENTS APPLIES.

FOLLOW MANUFACTURER AND ICC EVALUATION REPORT REQUIREMENTS FOR INSTALLATION TEMPERATURE OF ADHESIVE ANCHORS. ADHESIVE ANCHORS SHALL NOT BE INSTALLED OR CURED OUTSIDE OF APPROVED TEMPERATURE RANGES

ADHESIVE ANCHORS IN CONCRETE SHALL BE. HILTI HIT RE-500 SD (ESR-2322), SIMPSON SET-XP (ESR-2508); OR DEWALT PURE 110+ (ESR-3298

ADHESIVE ANCHORS IN GROUTED MASONRY SHALL BE: HILTI HIT HY-150 (ESR-1967), SIMPSON SET (ESR-1772) OR DEWALT AC(100+ GOLD (ESR-3200) SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF THE ICC EVALUATION REPORT, PER SECTION 1704.13 OF THE IBC. PERIODIC INSPECTION IS ALLOWED FOR MECHANICAL ANCHORS PER SECTION 66 OF

ADDITIONAL SUGGESTED NOTES RELATED TO ADHESIVE INSTALLATION
FER ACT SIL-2011 (SECTION D.2.2) ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE
HAVING A NORMAN AGE OF 12 HORS A STITLES OF ANCHOR INSTALLATION FOR
INSTALLATIONS SOONER THAN 21 DAYS CONSULT ADHESIVE MANUFACTURER

IF TEMPERATURE OF BASE MATERIAL AT TIME OF ADHESIVE DISTALL ATION IS AT 45





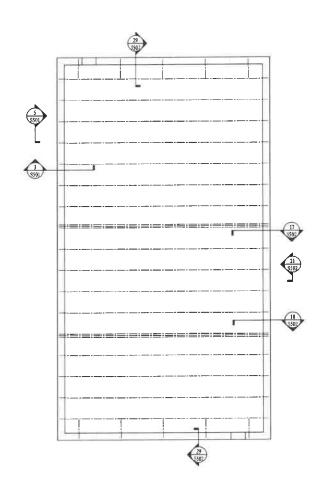
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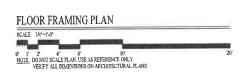
CITY REVIEW

OFFICE ENUE NORTH Κ̈ U.S. IDYLWOOD C **AVRAME 1** DRAWN FC

PLAN: DATE: 21003.050 08/28/23 BASEMENT LEVEL S001 MAIN LEVEL: UPPER LEVEL TOTAL FINISHED:

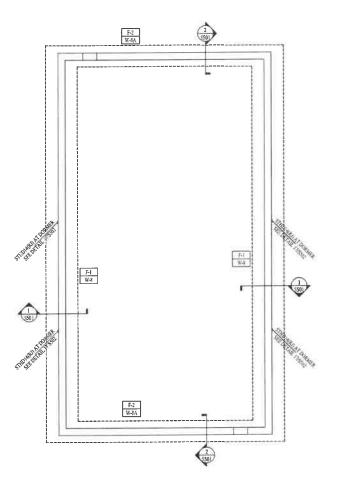
\* McNEIL ENGINEERING only Parlows, Mark 2010 Street, Clark S1000 S01.2881.7745 Scient





INI	ERMEDIATE BEARING WAL	L BEAM SCHEDULE
BEAMLENGTH	BEAM SIZE	TRIAD-ERS/KING
3-FT	(3) 23/6	1 TRIMMER/I KING
4-FT	(2) 2X8	1 TRIMMER/I KING
5-FT	(2) 21/10	1 TRU AMER/1 KING
7-FT	(2) 1-3/4 X 7-1/4 LVL (2 0E)	2 TRIMMERS/I KING
9-FT	(2) 1-3/4 X 9-1/2 LVL (2 0E)	2 TRIMMERS/2 KINGS
> 9-FT	ADD'L ENGINEER	NING REQUIRED

		R	OOF/FLO	OR S	SHEAT	HING	SCHED	ULE	
	1					NAILI			
MARK	TYPE	THICKNESS	SPAN RATING	SIZE	BLOCKED	EDGE	BOUNDARY	FIELD	REMARKS
FLOOR	T&G	3/4"	48/24	104	NO	6"	6"	12"	GLUE AND NAIL
ROOF	CDXAOSB	5/8*	40/20	84	NO	6"	6	12"	- 12



# FOOTING AND FOUNDATION PLAN

SCALE: 14"-1-0"

OF Y 2" ON THE DEPTH OF AS REFERENCE ONLY

VERIFY ALL DIMENSIONS ON ARCHITECTURAL PLANS

FOOTING/FND NOTES
- ALL FOOTINGS ADJACENT TO AREAS EXPOSED TO FREEZING TEAPPERATURE SHALL BE AT OR BELOW FROST DEPTH - VERIFY W. LOCAL BUILDING DEPARTMENT
- DIMENSIONS (IF ANY) ARE FOR REFERENCE ONLY. DO NOT SCALE PLANS VERIFY ALL DIMENSIONS WITH ARCH PLANS.
- ALL BOLT HOLES SHALL BE DRILLED K; TO K; OVERSIZED

			FOUND	ATION	WALL SO	CHEDULE
		VERT RE	DEFORCEMENT	HORIZ REI	NFORCEMENT	REMARKS
MARK	THICKNESS	SIZE	SPACING	SIZE	SPACING	RENIARO
W-8	8,	#4	12"	#5	12'	TYP FOUNDATION WALL
W-SA	8.	#4	18"	84	18"	TYP FOUNDATION WALL - ENDWALL

		LENGTH		1	REINF	ORCING CROS	SWISE		REINFOR	RCING LENGT	REMARKS	
MARK	WIDTH		DEPTH	NO	SIZE	LENGTH	SPACING	NO	SIZE	LENGTH	SPACING	ADMPARA
F-1	30°	CONT	12*					3	#S	CONT	EQ	CONTINUOUS FOOTING
F-2	20*	CONT	12"			797	R.C	2	#5	CONT	EQ	CONTINUOUS FOOTING

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REVISIONS
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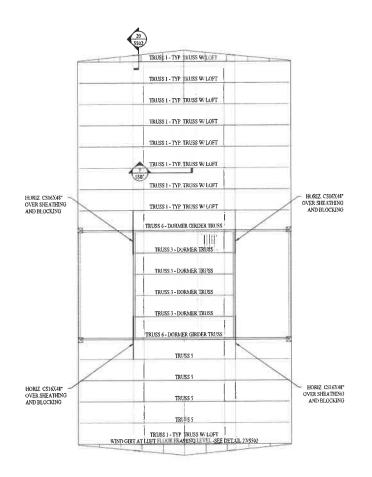
CITY REVIEW

IDYLWOOD OFFICE
11490 JULIANINE AVENUE NORTH
GRANT, MN 55082

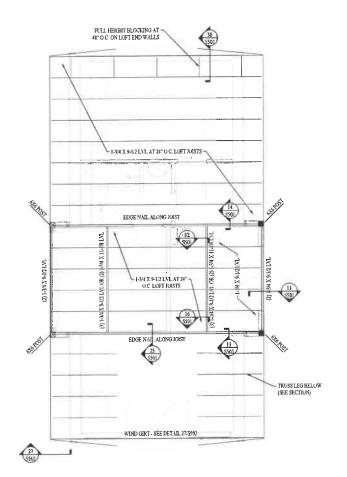
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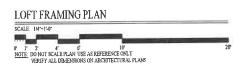
PLAN DATE: 08/28/23
SHEET BASEMENT LEVEL:

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CITY REVIEW

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GRANT, MN 55082

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TOTAL FINISHED:

MCNEIL ENGINEERING

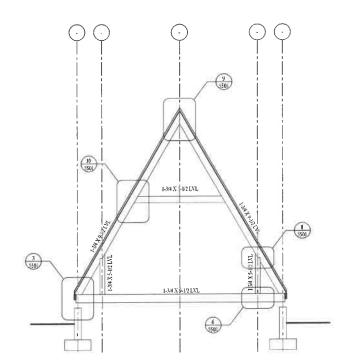
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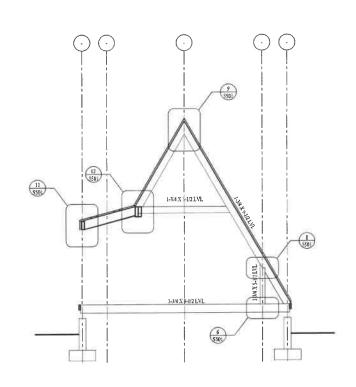


TRUSS 1 ELEVATION

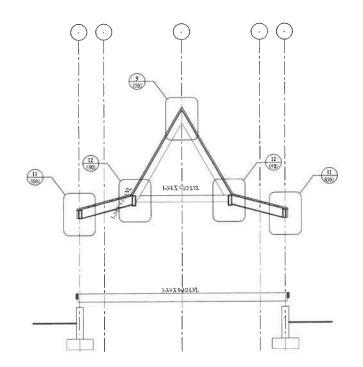
SCALE 1/4"-1-0"

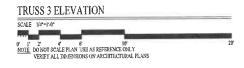
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NOTE DO NOT SCALE PLAN USE AS REFERENCE ONLY
VEREFY ALL DIRENSIONS ON ARGERITECTURAL PLANS









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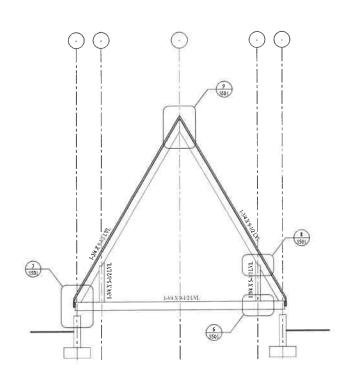
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General Abstable Design, in relation in a line on it res

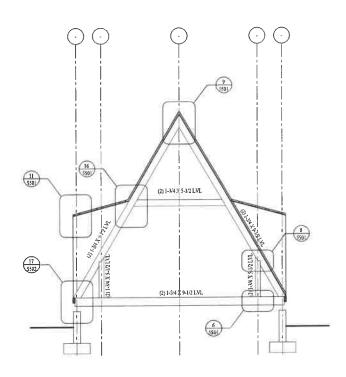
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Child Beginnering - Committing & Landscape Architecture

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REVISIONS

# DESCRIPTION DATE

IDYLWOOD OFFICE

11490 JULIANNE AVENUE NORTH
GRANT, MN 55082

THE USANT OF THE U.S.A.

PLAN: 21003.05 DATE: 08/28/23
SHEET: BASEMENT LEVEL

S302 MAIN LEVEL

OF: UPPER LEVEL

TOTAL FINISHED.

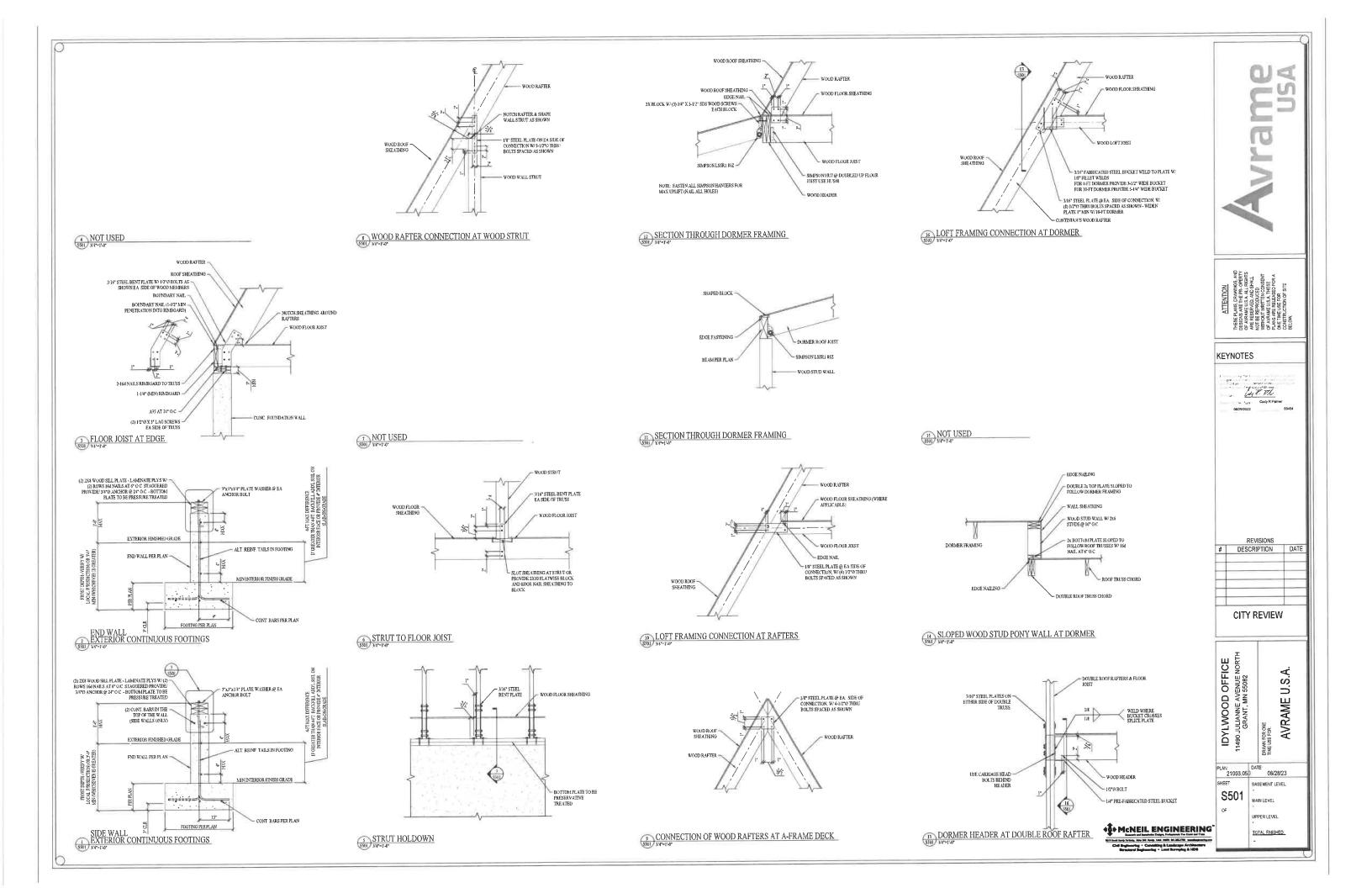
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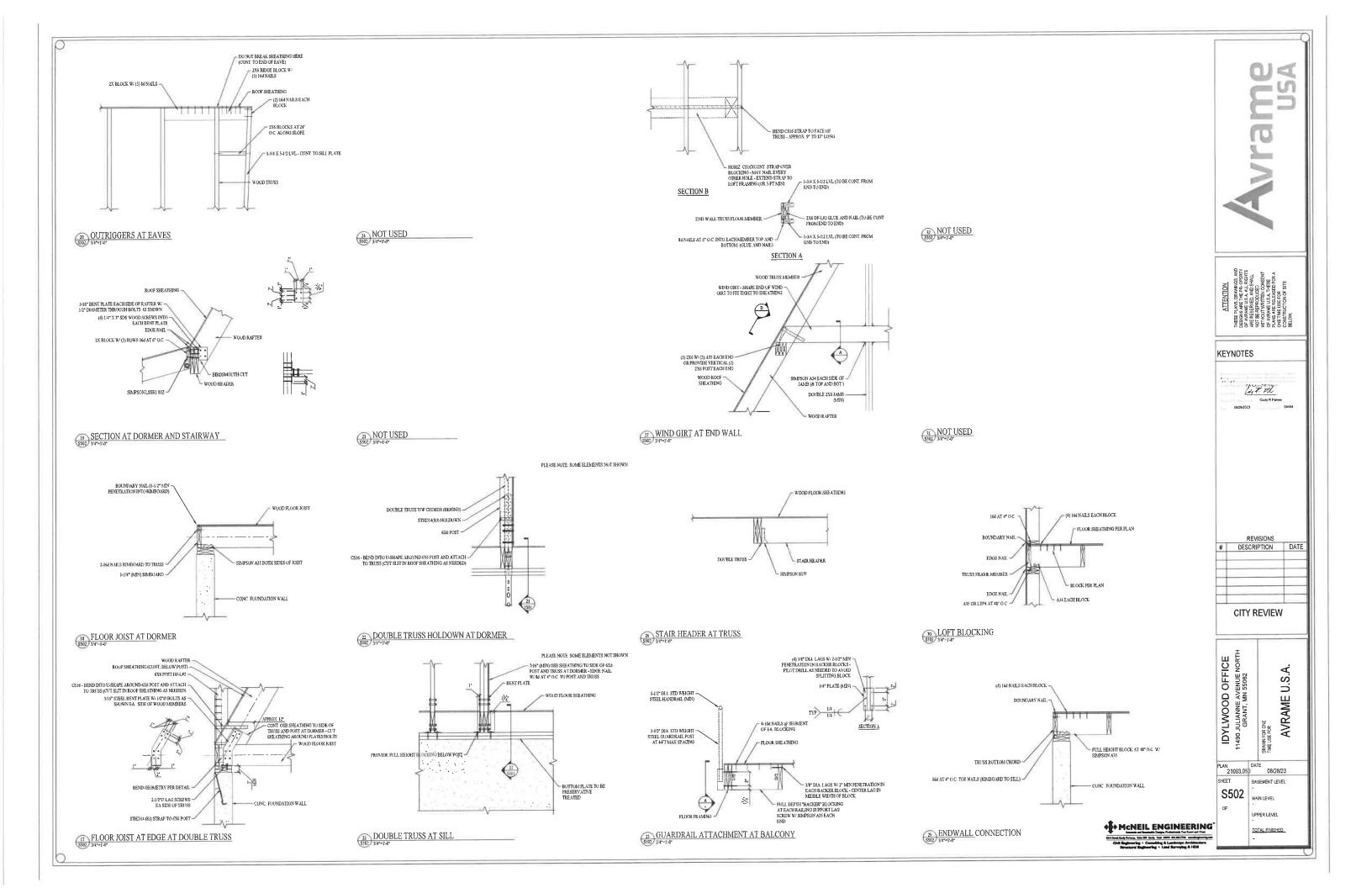
Grant on Hallen Days, Polarion to Four of Tox

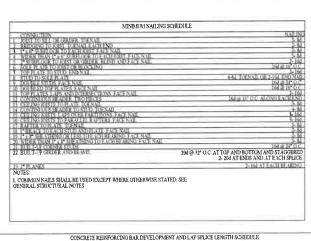
Girls with Martin, and It find, NEW HISTON STREET,

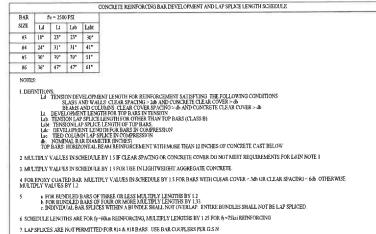
Cold Registering - Completing St. Martine, Polarions

Cold Registering - Completing St. Mar

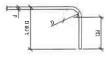


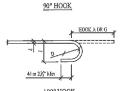




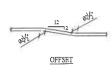


					18	KP:		90°				90		135"			
BAR	SIZE	D		A OR G		J		A O	A OR G		D		AORG		A OR G		ł
0.5	SI	105	SI	US	SI	U.S	SI	US	S	U.S	SI	U.S	SI	U.S	SI	U.S	SI
#3	#10	21/4"	60	5	125	3	BU	6	150	11%	4(1	41	105	4	105	3½°	65
#4	#13	3	80	6	160	4	105	B	200	2"	50	41/2"	115	41/2"	115	3*	80
#S	#16	3%	96	7	175	5	130	10	250	21/1°	65	6'	155	51/2°	140	3%	95
#6	#19	4%	115	8	200	6	155	1,50,	306	41%	115	1'-0"	305	8.	205	41%	115
#7	#22	51/2	135	10	250	7	130	1'-2"	375	5½°	135	1'-2"	355	9"	236	5½°	135
#8	#25	6"	155	141	275	8	206	14"	425	6*	155	1'-4"	410	10火	270	- 6	155
奶	#29	9"	240	1'-3"	375	11 1/4"	300	1'-7'	475			-		-			
#10	#32	10%	275	1'-7\%	425	1:-11/4"	335	110.	550	1							
#11	#36	111/4"	305	1.9%	475	1.2%	375	2-6*	600	1	US			UNITS		ft-in	
#14	#43	161%	465	2:-3"	675	1:9%	550	2-7	7758	SI UNITS: MM							
#18	#57	22 1/4"	616	3'-0"	925	2'-41/1"	725	3'-5"	1050								

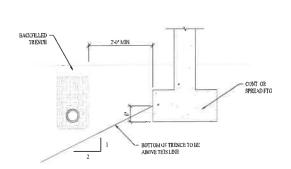




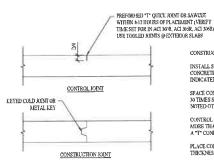








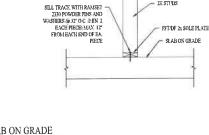




CONSTRUCTION JOINT NOTES

SPACE CONTROL AND/OR CONSTRUCTION JOINTS AT 30 TIMES SLAB THICKNESS MAX EACH WAY UNLESS NOTED OTHERWISE ON PLANS CONTROL JOINT ASPECT RATION SHOULD NOT BE MORE THAN 1.5 TO 1. ALIGN SAW CUTS TO ELIMINATE A "T" CONFIGURATION WITH THREE SIDES.

PLACE CONTROL JOINTS AT LOCATIONS WHERE SLAB THICKNESS CHANGES.



- 2X STUDS

1,-(s, YGN

19-07 MIN

PIPE THROUGH FOOTING

PROVIDE SLEEVES FOR ALL PIPES PASSING THROUGH WALLS & FTGS.

PIPE TE \$660 3:4"=1"-0"

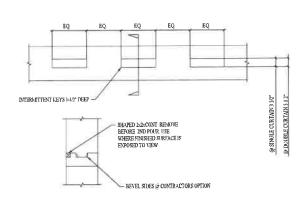
DEPRESSED SLAB ON GRADE

PROVIDE ADDIL REINF, AS -SHOWN TO MATCH TYP. WHERE BAR IS CUT

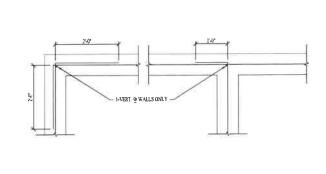
PIPE BELOW FOOTING

1'4' MEN

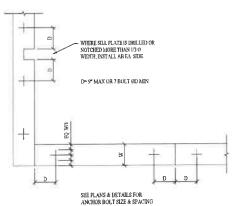




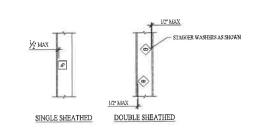
3-A CONST. JT. IN WALL OR FTG



REINF @ INTERSECTIONS



SILL PLATE BOLTING



ANCHOR BOLT WASHER PLACEMENT



KEYNOTES

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IDYLWOOD OFFICE 11490 JULIANNE AVENUE NORTH GRANT, MN 55082 AVRAME U.S.A. PLAN- 0 21003.05 08/28/23

BASEMENT LEVEL S601 MAIN LEVEL: JPPER LEVEL McNEIL ENGINEERING TOTAL FINISHED:

NOT USED 3/4"=1'-0"

180° HOOK 45° BEND

REINF. BENDS, HOOKS, AND OFFSET