| ARCHI | TECTURAL DWG ABE | BREVIAT | IONS |
|--------------|---|----------------|---|
| ACC | ACCESSIBLE | HM | HOLLOW METAL |
| ACFL ACT | ACCESS FLOOR ACOUSTICAL CEILING TILE | HO HOR | HONEY-COMB HORIZONTAL |
| AD | AREA DRAIN | HR | HOUR |
| ADJ AFF | ADJACENT ABOVE FINISHED FLOOR | HSKG HSS | HOUSEKEEPING HOLLOW STEEL SECTION |
| ALUM | ALUMINUM | HT | HEIGHT |
| ANNP ANOD | ANNUNCIATOR PANEL ANODIZED | HVAC | HEATING / VENTING / AIR CONDITIONING |
| APPROX | APPROXIMATE | HVY | HEAVY |
| ARCH AUTO | ARCHITECTURAL AUTOMATIC | HW | HOT WATER |
| AVB | AIR VAPOUR BARRIER | ID | INSIDE DIAMETER |
| AVM | AIR VAPOUR MOISTURE BARRIER | INFO INSUL | INFORMATION INSULATION |
| 5 | DAGE | INT | |
| B BF | BASE BIFOLD DOOR | IMP ISO | INSULATED METAL PANEL POLYISOCYANURATE |
| BLDG | BUILDING BEAM | | |
| BM B/O | BOTTOM OF | JAN | JANITOR CLOSET |
| BOL BUR | BOLLARD BUILT UP ROOFING | KIT | KITCHEN |
| BOIX | BOILT OF ROOT ING | L | LENGTH |
| CAB CB | CABINET CATCH BASIN | LAV LINO | LAVATORY LINOLEUM |
| CD | COILING DOOR | LL | LIVE LOAD |
| CG CIP | CORNER GUARD CAST IN PLACE | LVR | LOUVER |
| CJ | CONTROL JOINT | m | METER |
| C/L CLG | CENTRE LINE CEILING | MATL MAX | MATERIAL MAXIMUM |
| CLR | | MECH | MECHANICAL |
| CMP CMU | COMPOSITE METAL PANEL CONCRETE MASONRY | MED MEL | MEDIUM MELAMINE |
| COL | UNIT COLUMN | MEP | MECHANICAL, ELECTRICAL AND PLUMBING |
| COM | CUSTOMERS OWN | MEZZ | MEZZANINE |
| CONC | MATERIAL CONCRETE | MF MFR | MINERAL FIBRE MANUFACTURER |
| CONST | | MH | MANHOLE |
| CONT CORR | CONTINUOUS CORRIDOR | MIN MISC | MINIMUM MISCELLANEOUS |
| CPT | | MLDG | MOULDING |
| CPT-T CS | CARPET TILE COUNTER SHUTTER | MLWK mm | MILLWORK MILLIMETER |
| CT CW | CERAMIC TILE CURTAIN WALL | MP | METAL PANEL |
| C/W | COMPLETE WITH | MTD MTL | MOUNTED METAL |
| DCRON | DURACRON | N1/A | |
| DD | DOUBLE SWING DOOR | N/A NF | NOT APPLICABLE NO FRAME (FRAMELESS) |
| DEG DEMO | DEGREES DEMOLITION | NIC No. | NOT IN CONTRACT NUMBER |
| DF | DRINKING FOUNTAIN | NTS | NOT TO SCALE |
| DIA DIM | DIAMETER DIMENSION | O/C | ON CENTRE |
| DL | DEAD LOAD | OD | OUTSIDE DIAMETER |
| DN DNAR | DOWN DURANAR | OH O/H | OVERHEAD DOOR OVERHEAD |
| DP DR | DEPTH DOOR | OPNG | OPENING |
| DW | DOOR DISH WASHER | OPP OS | OPPOSITE OWNER SUPPLIED |
| DWG | DRAWING | OWSJ | OPEN WEB STEEL JOIST |
| EA | EACH | Р | PAINT (colour) |
| EJ EL | EXPANSION JOINT ELEVATION | PC P.CONC | POWDER COAT POLISHED CONCRETE |
| ELEC | ELECTRICAL | PD | PLANTER DRAIN |
| ELEV EP | ELEVATOR ELECTRICAL PANEL | PERP PH | PERPENDICULAR PHASE |
| EPDM | ETHYLENE PROPYLENEDIENE | PL | PROPERTY LINE |
| | M-CLASS (ROOFING) | PLAM PLYWD | PLASTIC LAMINATE PLYWOOD |
| EPX EQ | EPOXY EQUAL | PO | POLYSTYRENE |
| ES | EMERGENCY SHOWER | POLY POLY-U | POLYETHYLENE POLYURETHANE |
| EXIST EXP | EXISTING EXPOSED | PREFAB | PREFABRICATED |
| EXP-S | EXPOSED STRUCTURE | PREFIN PS | PREFINISHED PRESSED STEEL |
| EXT EWS | EXTERIOR EYE WASH STATION | PSFR | PRESSED STEEL FRAME |
| F | FRAME | PT PTD | PRESSURE TREATED PAINTED |
| F FAAP | FRAME FIRE ALARM | OT | QUARRY TILE |
| FAB | ANNUNCIATOR PANEL FABRIC | QT | |
| FC | FLASH COVE | R R/A | RADIUS RETURN AIR |
| FD FDN | FLOOR DRAIN FOUNDATION | RB | RUBBER BASE |
| FE | FIRE EXTINGUISHER FINISH FLOOR ELEVATION | RCP RD | REFLECTED CEILING BASE ROOF DRAIN |
| FFE FF&E | FURNITURE FIXTURES & | RE | REVOLVING DOOR |
| FHC | EQUIPMENT FIRE HOSE CABINET | REINF REF | REINFORCED REFERENCE |
| FLR | FLOOR | REFR | REFRIGERATOR |
| F/O FOC | FACE OF FACE OF CONCRETE | REQ'D RES | REQUIRED RESILIENT FLOORING |
| FOG | FACE OF GLAZING | REV RM | REVISION ROOM |
| FOS FP | FACE OF STUD FRAME PROTECTION | RO | ROLLING DOOR |
| FRR FT | FIRE RESISTANCE RATING FOOT/FEET | RR RSF | RAPID ROLL DOOR RESILIENT SHEET |
| | | | FLOORING |
| G() GA | GLASS (type) GAUGE | RUB RWL | RUBBER RAINWATER LEADER |
| GALV | GALVANIZED | C/A | |
| GB GBN | GRAB BAR GARBAGE BIN | S/A SAM | SUPPLY AIR SELF-ADHERED |
| GC | GENERAL CONTRACTOR | SC | MEMBRANE SOLID CORE |
| GL GRD | GLASS / GLAZING GROUND | SCW | SOLID CORE WOOD |
| GWB | GYPSUM WALL BOARD | SD SF | SINGLE SWING DOOR SQUARE FEET |
| GWG GYP | GEORGIAN WIRE GLASS GYPSUM | SFL | SAFETY FLOOR |
| | | SG SHT | STRUCTURAL GLAZING SHEET |
| HB HC | HOSE BIB HOLLOW CORE | SIA | SIAMESE CONNECTION |
| H/C | HANDICAP | SIM SL | SIMILAR SLIDING DOOR |
| HCW HD | HOLLOW CORE WOOD HANGAR DOOR | SMC | STEEL METAL CARRIER |
| HDR | HEADER | SOG SP | SLAB ON GRADE STAND PIPE |
| HDWD HDWR | HARDWOOD HARDWARE | SPEC | SPECIFICATION |
| | | 5Q | SQUAKE |
| HDR HDWD | HEADER HARDWOOD | SP | STAND PIPE |

| HOLLOW STEEL SECTION HEIGHT HEATING / VENTING / AIR CONDITIONING HEAVY HOT WATER | STD STL STOR STRUCT SUSP |
|---|--|
| INSIDE DIAMETER INFORMATION INSULATION INTERIOR INSULATED METAL PANEL POLYISOCYANURATE | TBD TD TEL TEMP TERR T/O TOC |
| JANITOR CLOSET | TOF TOS TPO |
| LENGTH LAVATORY LINOLEUM LIVE LOAD LOUVER | TS TSG TYP U/G |
| METER | UNO |
| MATERIAL MAXIMUM MECHANICAL | U/S |
| MEDIUM MELAMINE MECHANICAL, ELECTRICAL AND PLUMBING MEZZANINE MINERAL FIBRE MANUFACTURER MANHOLE | V VB VCT VERT VEST VIF |
| MINIMUM MISCELLANEOUS | WC W/C WD |
| MOULDING MILLWORK | WH WP |
| MILLIMETER METAL PANEL MOUNTED | WPR WRM |
| METAL | WV |
| NOT APPLICABLE NO FRAME (FRAMELESS) NOT IN CONTRACT NUMBER NOT TO SCALE | |
| ON CENTRE OUTSIDE DIAMETER | |
| OVERHEAD DOOR OVERHEAD | |
| OPENING OPPOSITE | |
| OWNER SUPPLIED OPEN WEB STEEL JOIST | |
| PAINT (colour) POWDER COAT POLISHED CONCRETE PLANTER DRAIN PERPENDICULAR PHASE PROPERTY LINE PLASTIC LAMINATE PLYWOOD POLYSTYRENE POLYETHYLENE POLYETHYLENE POLYURETHANE PREFABRICATED PREFINISHED PRESSED STEEL PRESSED STEEL FRAME PRESSURE TREATED PAINTED | |
| QUARRY TILE | |
| RADIUS RETURN AIR RUBBER BASE REFLECTED CEILING BASE ROOF DRAIN REVOLVING DOOR REINFORCED REFERENCE REFRIGERATOR REQUIRED RESILIENT FLOORING REVISION ROOM ROLLING DOOR RAPID ROLL DOOR RAPID ROLL DOOR RESILIENT SHEET FLOORING RUBBER RAINWATER LEADER | |
| SUPPLY AIR SELF-ADHERED MEMBRANE SOLID CORE SOLID CORE WOOD | |
| SINGLE SWING DOOR SQUARE FEET SAFETY FLOOR STRUCTURAL GLAZING SHEET | |
| SIAMESE CONNECTION SIMILAR SLIDING DOOR STEEL METAL CARRIER SLAB ON GRADE STAND PIPE | |
| SPECIFICATION SQUARE | |
| | |
| | |

STAINLESS STEEL SOLID SURFACING MATERIAL STONE SOUND TRANSMISSION CLASS STANDARD STEEL STORAGE STRUCTURAL SUSPENDED TO BE DETERMINED TRENCH DRAIN TELEPHONE TEMPORARY TERRAZZO TOP OF TOP OF CURB TOP OF FLOOR

SS

ST

STC

SSM

TOP OF STEEL THERMOPLASTIC POLYOLEFIN TRANSITION STRIP TEMPERED SAFETY GLASS TYPICAL

UNDER GROUND UNLESS NOTED OTHERWISE UNDERSIDE

VENEER VAPOUR BARRIER VINYL COMPOSITE TILE VERTICAL VESTIBULE VERIFY IN FIELD WIDTH WALL COVERING WATER CLOSET WOOD WATER HEATER

WATERPROOF WALL PROTECTION WASHROOM WOOD VENEER

EXTRA HEAVY

SYMBOL LEGEND

PLAN DETAIL REFERENCE INDICATES DETAIL NUMBER REF INDICATES REFERENCE ~0× SIM / TYP / REV A00-00 INDICATES DRAWING NUMBER WHERE DETAIL IS LOCATED **BUILDING SECTION REFERENCE** INDICATES SECTION NUMBER INDICATES REFERENCE SIM / TYP / REV ′0 🛣 、A00-00 /丶 INDICATES DRAWING NUMBER WHERE SECTION IS LOCATED EXTERIOR ELEVATION REFERENCE INDICATES REFERENCE SIM / TYP / REV ′ 0 🔺 INDICATES ELEVATION NUMBER A00-00 INDICATES DRAWING NUMBER WHERE ELEVATION IS LOCATED 0 -) GRID TAG 100'-0" INDICATES LEVEL NAME → INDICATES LEVEL ELEVATION HEIGHT ELEVATION TAG 100 000 SPOT ELEVATION TAG ROOM NAME ROOM TAG INDICATES ROOM NUMBER <u>(0000A</u>) DOOR NUMBER TAG ′ 1i 🗅 WINDOW TAG /00\ **REVISION TAG** PROJECT NORTH NORTH INDICATOR ASSEMBLY SYMBOLS \langle F00 \rangle FLOOR ASSEMBLY TAG \langle P00 \rangle WALL / PARTITON ASSEMBLY TAG ☐ INDICATES CEILING ASSEMBLY CEILING ASSEMBLY TAG 10'-0' INDICATES CEILING HEIGHT A.F.F. $\langle R00 \rangle$ ROOF ASSEMBLY TAG FINISHES SYMBOLS \oplus FINISH SET OUT / START POINT NNNN NNNN NNNN FINISH TYPE/EXTENTS TAG NNNN NNNN **F**1 FINISH TYPE TAG

MW000

<EQ000>

SD

MILLWORK TYPE TAG

EQUIPMENT TYPE TAG

ACCESSORY TYPE TAG

PROJECT TEAM

OWNER

ST. CLAIR COUNTY HEALTH DEPARTMENT 3415 28th STREET PORT HURON, MI 48060 CONTACT: JENNIFER POSEY PHONE: 810-989-6900 EMAIL: JPOSEY@STCLAIRCOUNTY.ORG

CIVIL ENGINEER

PEA GROUP 2430 ROCHESTER COURT, SUITE 100 TROY, MI 48083-1872 CONTACT: LESLIE ACCARDO PHONE: 248.509.7258 EMAIL: LACCARDO@PEAGROUP.COM

ARCHITECT

NORR 150 W. JEFFERSON AVENUE., SUITE 1300 DETROIT, MI, US 48226 CONTACT: JOHN POLSINELL PHONE: 313.969.5370 EMAIL: JOHN.POLSINELLI@NORR.COM

STRUCTURAL **ENGINEERS**

NORR 150 W. JEFFERSON AVENUE., SUITE 1300 DETROIT, MI, US 48226 CONTACT: LAWRENCE MANGINDIN PHONE: 313.426.9700 EMAIL: LAWRENCE.MANGINDIN@NORR.COM

ENGINEERS

MEP

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GENERAL CONDITIONS

- A. THE FOLLOWING ARE GENERAL CONDITIONS FOR THE PROJECT. IF THERE OCCURS A CONFLICT BETWEEN THESE NOTES AND OTHER CONTRAT REQUIREMENTS THE MORE STRICT SHALL GOVERN. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AND OPERATIONAL PROJECT AS INDICATED OR IMPLIED BY THE CONSTRUCTION DRAWINGS AND/ OR SPECIFICATIONS UNLESS NOTED OTHERWISE.
- B. THE CONTRACTOR SHALL OBTAIN COPIES OF ALL RELATED BUILDING CODES FOR REFERENCE DURING CONSTRUCTION. ALL WORK SHALL MEET THE BUILDING CODES AND REGULATIONS LISTED UNDER CODE INFORMATION.
- C. THE CONTRATOR SHALL THOROUGHLTY INSPECT THE SITE AND BE FAMILIAR W/ EXISTING CONDITIONS PRIOR TO THE START OF THEIR WORK.
- D. THESE DRAWINGS ARE PREPARED FOR THE PURPOSE OF CONSTRUCTION ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR MAINTENANCE PURPOSES, AS ACTUAL CONDITIONS MAY VARY FROM THESE SHOWN DRAWINGS DUE TO CHANGE ORDERS. ALTERATIONS BY OTHERS, FIELD CONDITIONS, ETC.
- E. THESE DOCUMENTS AND RELATED CONTENT ARE DIAGRAMMATICAL IN NATURE AND ARE NOT INTENDED TO INDICATE MEANS AND METHODS REQUIRED TO PROPERLY COMPLETE THE WORK. ALL WORK SHALL MEET ALL APPLICABLE CODES AND REGULATIONS.
- F. PRIOR TO CONSTRUCTION, THE PREPARATION OF SHOP DRAWINGS, AND THE FABRICATION OF ANY MATERIALS, VERIFY ALL DIMENSIONS IN FIELD, REFERRING TO EXISTING ADJACENT CONDITIONS, CONSTRUCTION MATERIALS, AND DETAILS. IF ANY DISCREPANCIES ARE DISCOVERED, ASSUME CERTAIN MODIFICATIONS TO DETAILS AFFECTING EXISTING CONDITIONS ARE SUBJECT TO REVIEW BY THE ARCHITECT.
- G. ALL WORK SHALL MEET THE CRITERIA OF THE RELATED PRODUCT'S MANUFACTURER AS NEEDED TO MEET CODE AND AS NEEDED TO PROVIDE A WARRANTED INSTALLED ASSEMBLY, ANY INSTALL OF AN ASSEMBLY OVER, WITHIN OR ATTACHED TO A SURFACE, SUBSTRATE, OR OTHER PRODUCT ASSEMBLY SHALL INDICATE THE INSTALLER'S AND THE RELATED MANUFACTURER'S ACCEPTANCE OF ALL CONDITIONS AS BEING CODE COMPLIANT AND SUITABLE FOR A FULLY WARRANTED ASSEMBLY.
- H. REMEDY, WITHOUT COST TO THE OWNER. ANY DEFECTS DUE TO FAULTY WORKMANSHIP.
- I. ALL WORK SHALL BE DONE TO MEET OR EXCEED THE STANDARDS OF NORMAL CONSTRUCTION TRADE PRACTICE(S) AND CURRENT GOVERNING CODE.
- I. MAINTAIN A COMPLETE SET OF CONSTRUCTION DOCUMENTS AT THE SITE FOR USE IN RECORDING AN AS-BUILT RECORD. UPDATE AS-BUILT NOTATIONS DAILY, PROTECT DOCUMENTS TO ENSURE THEIR COMPLETENESS AND LEGIBILITY, FOLLOWING COMPLETION OF THE PROJECT AS -BUILT DRAWINGS ARE TO BE GIVEN TO THE OWNER
- K. NOTE TO OWNER AND GENERAL CONTRACTOR: THE ARCHITECT ASSUMES THAT THE PERMIT PLAN REVIEW PERFORMED BY THE RELATED AUTHORITIES HAVING JURISDICTION (AHJ) IS THOROUGH, COMPLETE, AND ACCURATE. ANY CHANGES REQUESTED BY THE AHJ WHICH ARE MADE AFTER PROJECT PERMITTING SHALL BE DEEMED A CHANGE IN SCOPE. THE ARCHITECT/ ENGINEERS SHALL ASSUME NO RESPONSIBILITY FOR ANY COSTS RELATED TO SUCH THINGS.
- . DEFERRED SUBMITTALS: PORTIONS OF THE WORK FOR THIS PROJECT ARE BEING DESIGNED AND ENGINEERED BY OTHERS OR THROUGH A DESIGN-BUILD PROCESS. THIS WORK SHALL BE PERMITTED SEPARATELY. PRIOR TO FABRICATION, SHIPPING, OR INSTALL OF THE FOLLOWING ITEMS, A SET OF DETAILED STAMPED/ CERTIFIED DESIGN SHOP DRAWINGS SHALL BE PROVIDED BY A STATE LICENSED STRUCTURAL ENGINEER WHOM IS EITHER HIRED OR EMPLOYED BY THE RELATED PRODUCT MANUFACTURER, SUPPLIER, SUBCANTRACTOR, OR INSTALLER: (DO NOT UNDERTAKE ANY RELATED WORK UNTIL SUCH SHOP DRAWINGS HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER OF RECORD AND THE LOCAL PERMITTING AUTHORITIES HAVING JURISDICTION. ALL WORK SHALL MEET ALL RELATED CODES AND REGULATIONS)
- a. PAY BOOTH b. PRE-FABRICATED STEEL TRUSSES
- c. SIGNAGE
- M. FACILITY SIGNAGE: FACILITYSIGNAGE IS NOT PART OF THIS PERMIT SUBMITTAL. PRIOR TO FABRICATION. THE SIGNAGE VENDOR SHALL SUBMIT DETAILED SHOP DRAWINGS INDICATING SIGNAGE TYPES, QUANTITIES, SIZES, COLORS, LOCATIONS, STRUCTURAL SUPPORT, STRUCTURAL FOUNDATIONS, AND UTILITY CONNECTIONS TO THE LOCAL PERMITTING AUTHORITIES FOR APPROVAL

EXTERIOR SIGNAGE:

SIGNS ARE NOT APPROVED WITHIN THE SCOPE OF THIS BUILDING PERMIT. A SEPARATE SIGN LOCATION PERMIT IS REQUIRED FOR SIGNAGE AS PER LOCAL REGULATIONS.

NOTE TO AHJ:

THE ARCHITECT OR HIS ENGINEERS ARE NOT RESPONSIBLE FOR CONSTRUCTION ADMINISTRATION OF THIS PROJECT.

24 HOUR CONTACT DURING CONSTRUCTION:

SHALL BE THE BUILDING PERMIT HOLDER

STATEMENT OF SPECIAL INSPECTIONS:

SEE STRUCTURAL DRAWINGS

SPECIAL INSPECTIONS:

THE OWNER SHALL HIRE SPECIAL INSPECTION AGENCY TO UNDERTAKE SPECIAL INSPECTIONS. THE CONTRACTOR SHALL COORDINATE AND OBTAIN SUCH INSPECTIONS.

SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF 2018 IBC FOR THE FOLLOWING ITEMS: STEEL CONSTRUCTION, WELDING, HIGH STRENGTH BOLTS, AND MASONRY

- CONSTRUCTION.
- ALL SPECIAL INSPECTION REPORTS MUST BE FORWARDED TO BUILDING INSPECTION DEPARTMENT FOR REVIEW AND APPROVAL.

TRENCH/ SEWER COORDINATION DESIGN NOTE:

INVERT LOCATIONS NOTED HEREIN ARE PROTOTYPICAL MINIMUMS. INVERT ELEVATIONS FOR EACH SPECIFIC PROPERTY ARE TO BE COORDINATED WITH EACH

SITE-SPECIFIC CIVIL ENGINEER. IN THE EVENT THAT THE EXISTING SEWER IS TOO SHALLOW TO ACCOMMODATE

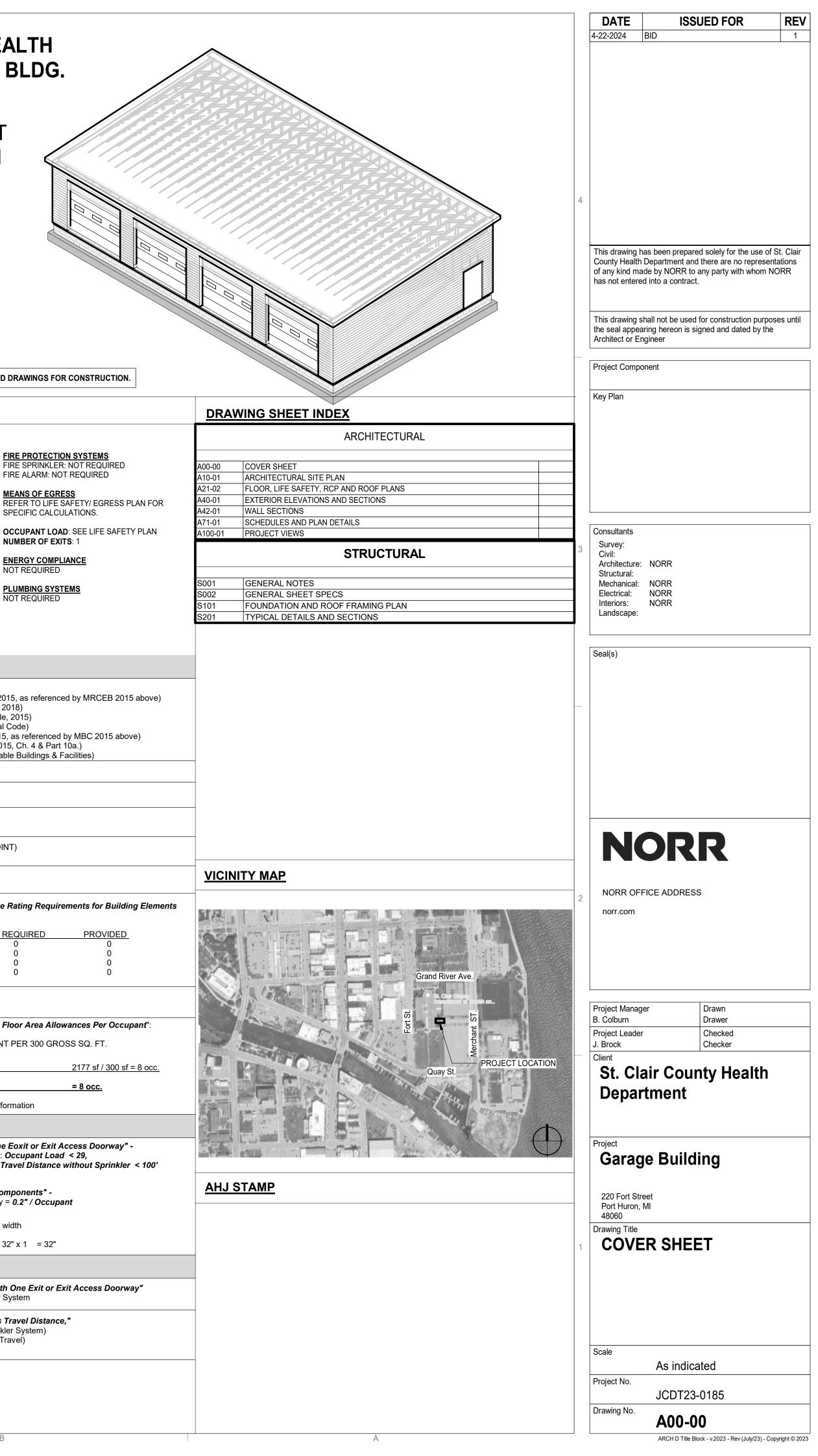
PROTOTYPICAL MINIMUMS, THE TRENCH DESIGN MAY BE MADE SHALLOWER BY THE FOLLOWING MEANS, IN THIS ORDER: 1. DELETE 3" AT ENTRANCE (GAIN 3")

2. CHANGE SLOPE TO 1% (GAIN 6") 3. DELETE SUMP (GAIN 8")

THESE CHANGES MUST BE APPROVED BY TIDAL WAVE PRIOR TO IMPLEMENTATION.

ST. CLAIR COUNTY HEALTH DEPARTMENT GARAGE BLDG.

220 FORT STREET PORT HURON, MI 48060



FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO DETAILED DRAWINGS FOR CONSTRUCTION.

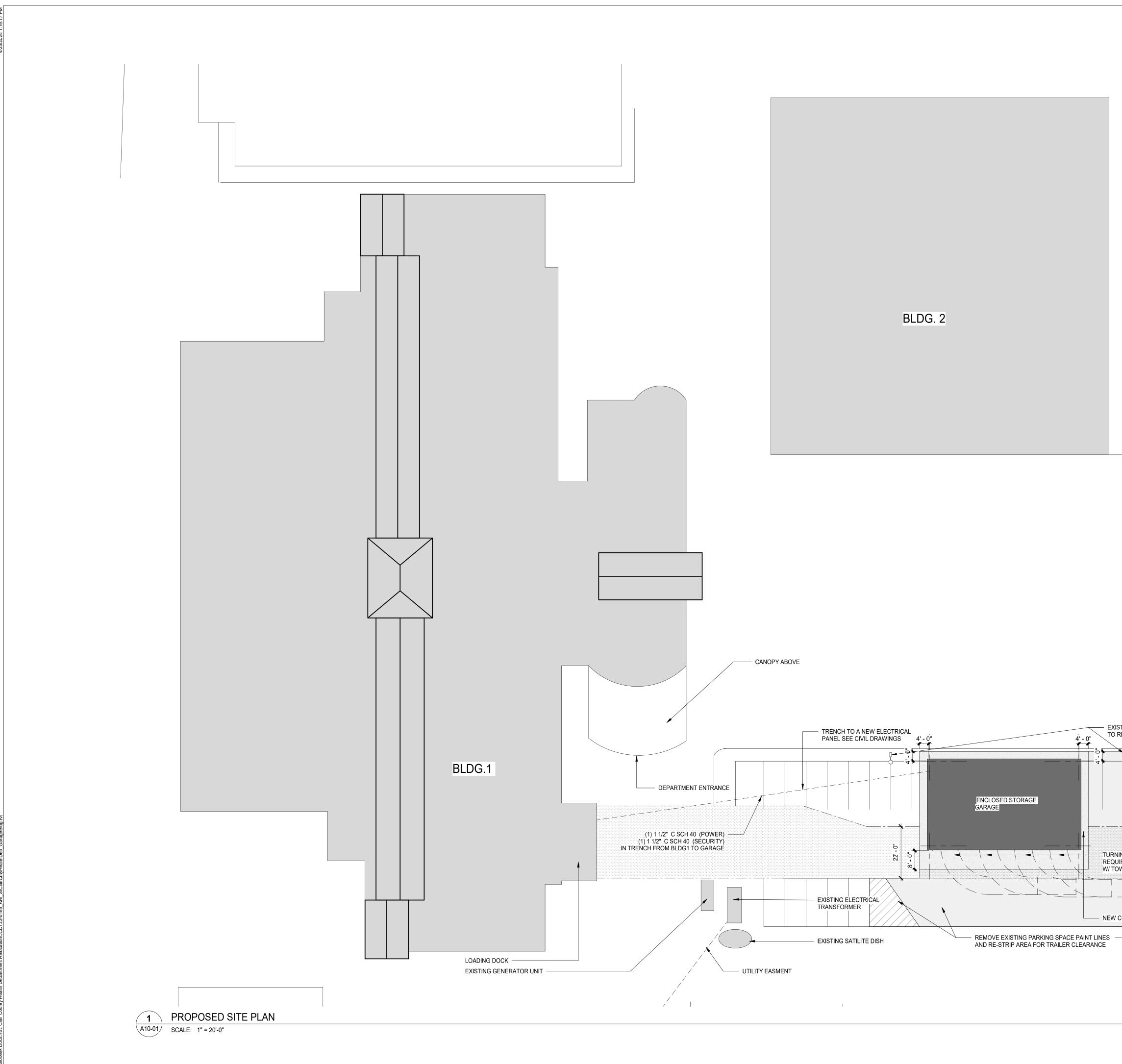
PROJECT DESCRIPTION

- CONSTRUCTION OF NEW GARAGE FACILITY APPLICABLE CODES
- INTERNATIONAL BUILDING CODE (IBC) 2015 INTERNATIONAL MECHANICAL CODE (IMC) - 2021 UNIFORM PLUMBING CODE (IPC) - 2021 NATIONAL ELECTRICAL CODE (NEC) - 2020 INTERNATIONAL FIRE CODE (IFC) - 2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) - 2012
- ACCESSIBILITY ANSI A117.1, 2009
- USE & OCCUPANCY STORAGE: S1
- FIRE AND SMOKE PROTECTION FEATURES FIRE RESISTANCE RATING OF EXTERIOR WALLS DUE TO DISTANCE FROM PROPERTY LINE SHALL MEET CODE REQUIREMENTS. NOT REQUIRED

BUILDING CODE REVIEW

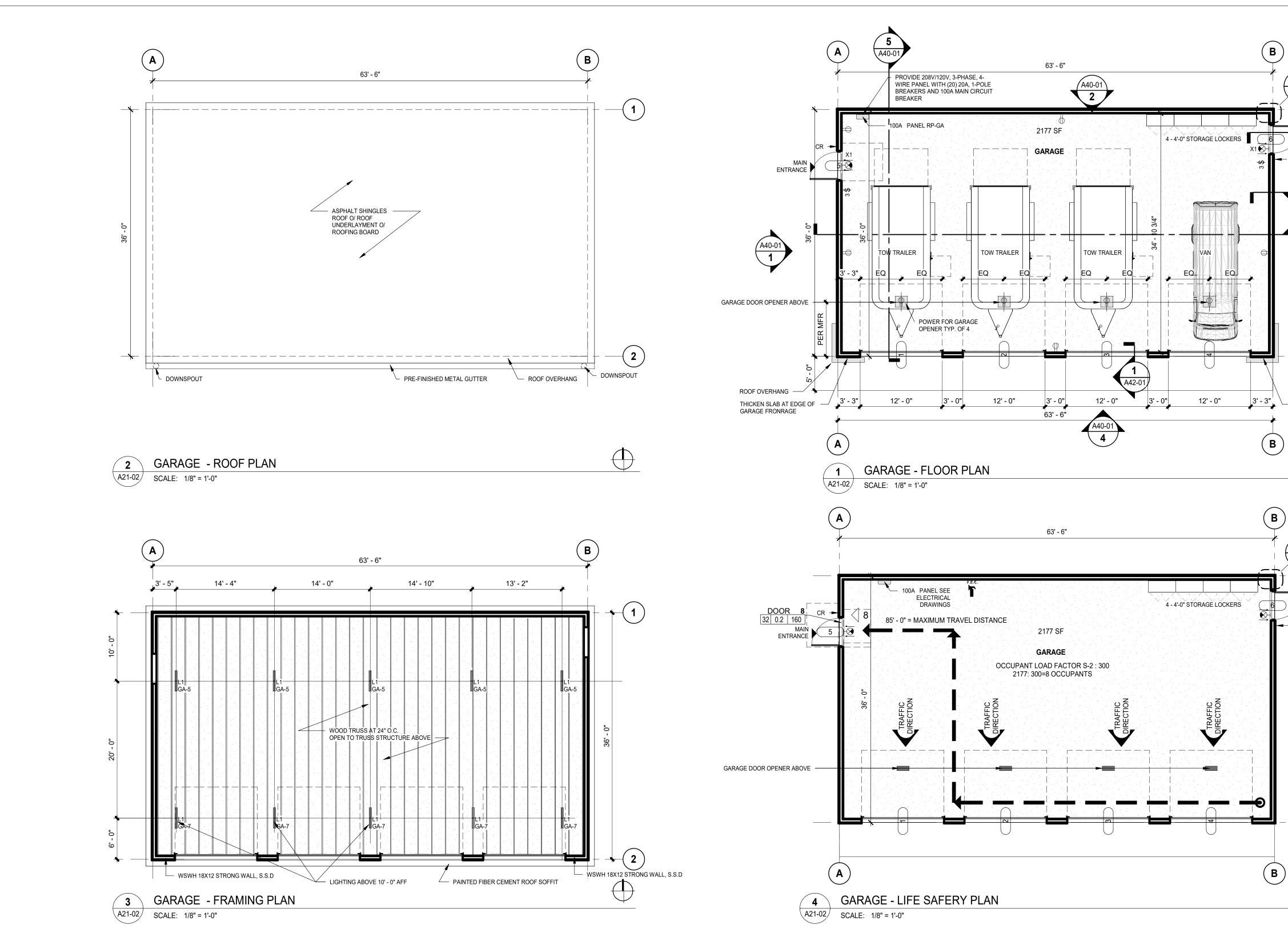
- 4. FIRE PROTECTION SYSTEMS FIRE SPRINKLER: NOT REQUIRED FIRE ALARM: NOT REQUIRED
- MEANS OF EGRESS REFER TO LIFE SAFETY/ EGRESS PLAN FOR SPECIFIC CALCULATIONS.
- 6. ENERGY COMPLIANCE
- 7. PLUMBING SYSTEMS NOT REQUIRED

| BUILDING REQUIREM | IENTS |
|-------------------------------|---|
| CODES | 2012 NFPA 101 (Life Safety Code) MBC 2015 (Michigan Building Code, 2015, as referenced by MRCEB 2015 above) MPC 2018 (Michigan Plumbing Code, 2018) MMC 2015 (Michigan Mechanical Code, 2015) NEC 2017 (State of Michigan Electrical Code) IFC 2015 (International Fire Code, 2015, as referenced by MBC 2015 above) MEC 2015 (Michigan Energy Code, 2015, Ch. 4 & Part 10a.) ICC A117.1-2009 (Accessible and Usable Buildings & Facilities) |
| OCCUPANCY CLASSIFICATION | S-2 LOW HAZARD STORAGE |
| TYPE OF CONSTRUCTION | V-B (NOT-SPRINKLERED) |
| BUILDING FLOORS ALLOWABLE | TOTAL BUILDING FLOORS: 1 2 |
| BUILDING HEIGHT ALLOWABLE | 14'-4" TOTAL HEIGHT (HIGHEST POINT) 40'-0" |
| BUILDING AREA ALLOWABLE | 2177 SF 13,500 SF |
| FIRE RATING | Per MBC Table 601, "Fire-Resistance Rating Requirements for Building Eleme (Hours)": Construction Type V-B |
| | FIRE RATINGREQUIREDPROVIDEDPRIMARY STRUCTURAL FRAME00BEARING WALLS (INT. & EXT.)00NON-BEARING INTERIOR WALLS00FLOOR CONSTRUCTION00 |
| FIRE ALARM SMOKE ALARM | N/A N/A |
| OCCUPANCY | Per MBC Table 1004.1.2, "Maximum Floor Area Allowances Per Occupant": S-2 (Storage) 1 OCCUPANT PER 300 GROSS SQ. FT. OCCUPANT LOAD: 2177 sf / 300 sf = 8 occ. 'S-2' OCC. (Storage) 2177 sf / 300 sf = 8 occ. TOTAL OCCUPANTS = 8 occ. |
| | *Refer to Life Safety Plan for further information |
| MEANS OF EGRESS | |
| EXITS | Per <i>MBC 1006.2.1, "Spaces With One Eoxit or Exit Access Doorway" -</i> 1 exit or exit access doorway required: <i>Occupant Load < 29,</i> <i>Maximum Common Path of Egress Travel Distance without Sprinkler < 100'</i> |
| | Per MBC 1005.3.2, "Other Egress Components" - Means of Egress Component Capacity = 0.2" / Occupant |
| | REQUIRED 8 occ. * .2"/person = 1.6" of exit width PROVIDED: EXIT 1 - (1 Single Door) 32" x 1 = 32" |
| MEANS OF EGRESS | |
| MAX. COMMON PATH OF TRAVEL | Per MBC Table 1006.2.1 "Spaces with One Exit or Exit Access Doorway" ALLOWABLE: 100' Without Sprinkler System |
| TRAVEL DISTANCE | Per MBC Table 1017.2, "Exit Access Travel Distance," ALLOWABLE: 300'-0" (Without Sprinkler System) PROVIDED: 85' - 0" (Max. Path of Travel) |
| | <u> </u> |

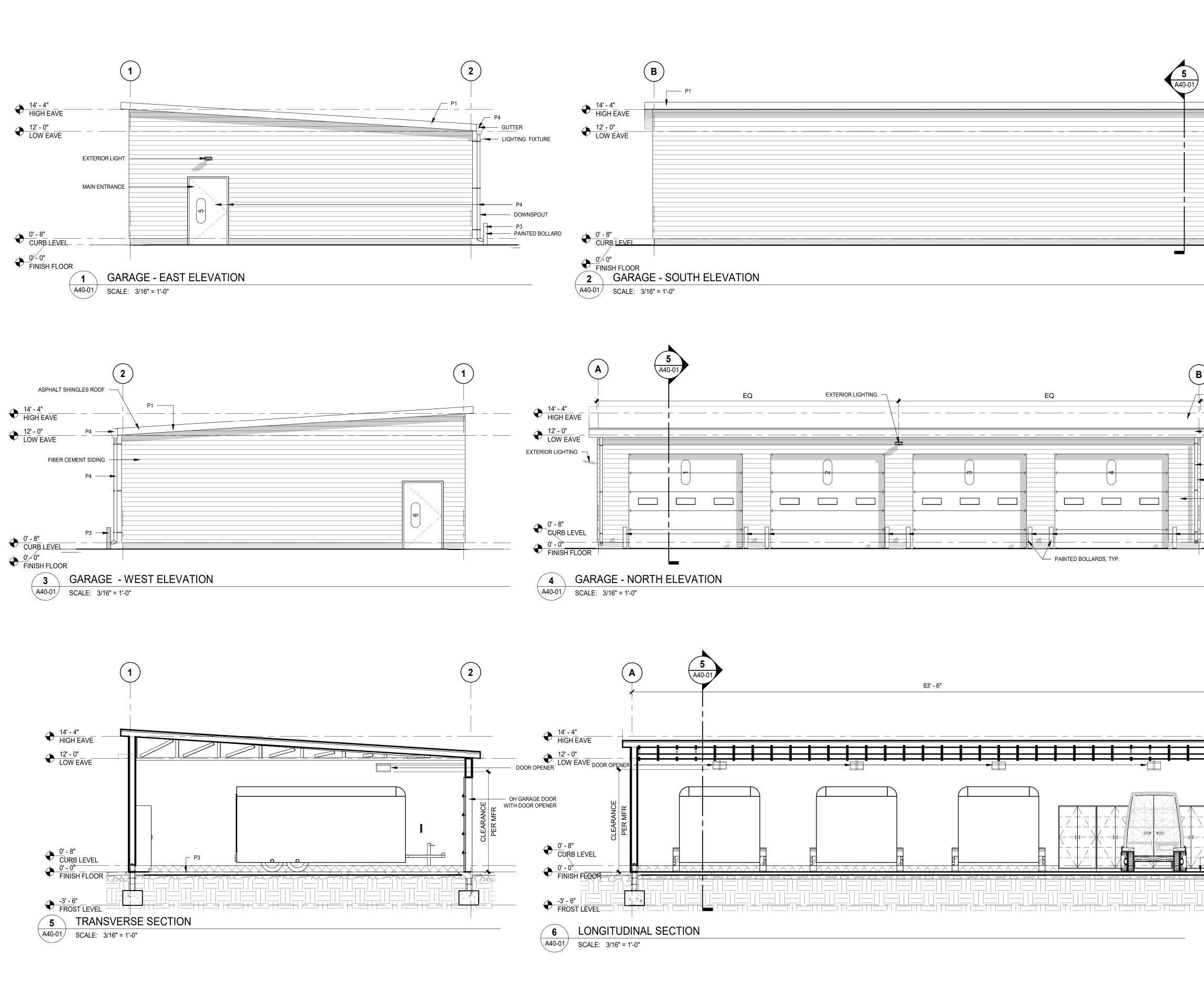


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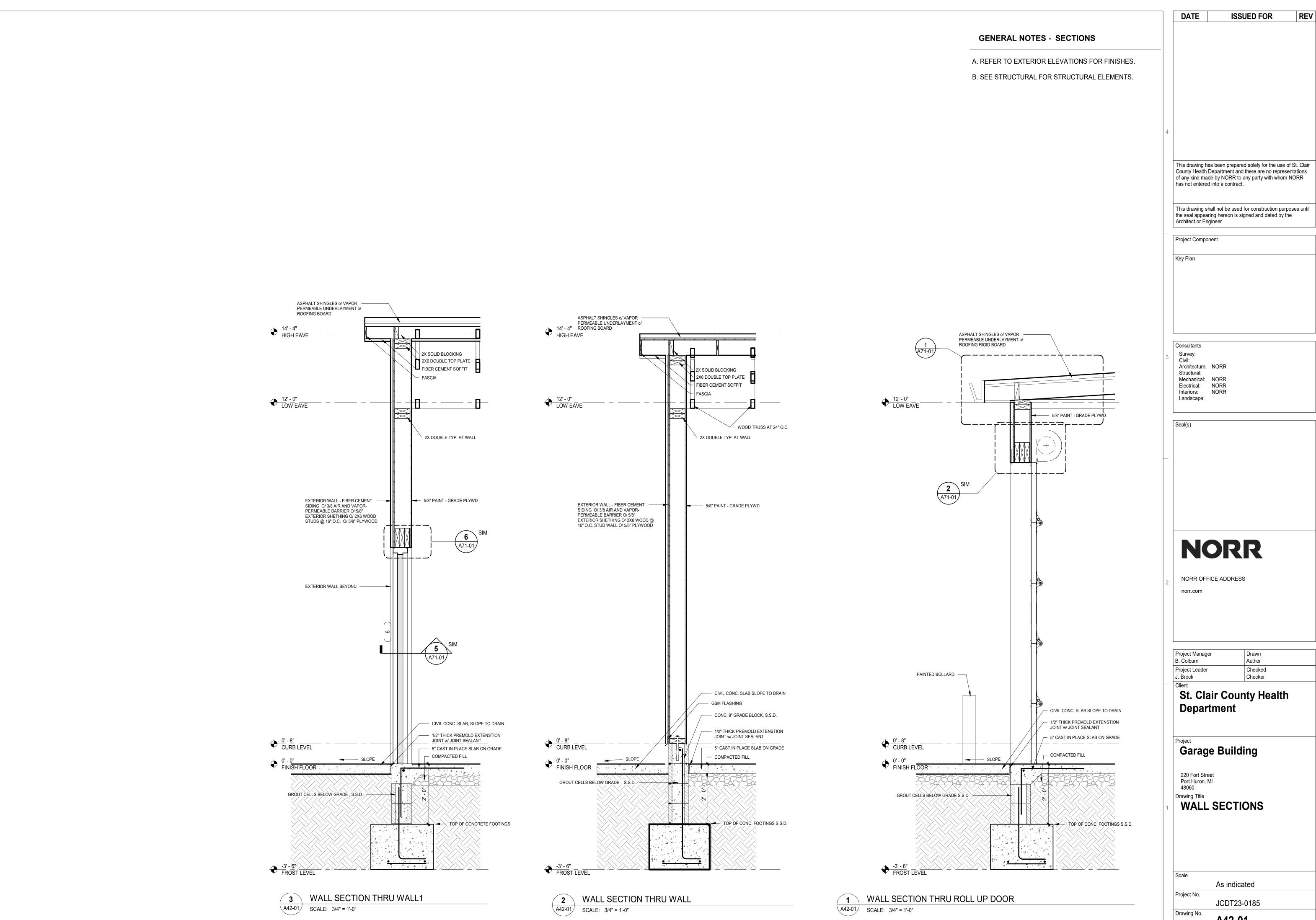
| | | DATE 4-22-2024 | BID | ISSUED FC | DR | REV |
|--|---|---|---|--|-----------------------|--------------|
| | 4 | | | | | |
| | | of any kind m has not enter This drawing | ade by NO ed into a co shall not be | orepared solely fo ent and there are DRR to any party w ontract. e used for constru- on is signed and o | with whom NO | RR |
| | | Project Comp | Ingineer | | | |
| | | | | | | |
| | 3 | Consultants Survey: Civil: Architecture Structural: Mechanical: Electrical: Interiors: Landscape: | NORR NORR NORR | | | |
| | | Seal(s) | | | | |
| | | | | | | |
| | 2 | NORR OF norr.com | | RR | | |
| ISTING PARKING LOT LIGHT REMAIN | | | | | | |
| WERC | | Project Mana B. Colburn Project Leade J. Brock Client St. Cl Depa | air C | Drawn Author Checked Checker Ounty H | | |
| NING RADIUS UIRED FOR TRUCK OW TRAILER | | Depa | rtmei ge Bi | ounty H nt Reloc uilding | | |
| | 1 | | HITE | CTURAL | SITE | |
| | | Scale Project No. Drawing No. | JCE | = 20'-0")T23-0185 | | |
| A | | | | 0-01 D Title Block - v.2023 - F | Rev (July/23) - Copvr | right © 2023 |



| | GENERAL NOTES - PLANS | | DATE 4-22-2024 | BID | ISSUED FOR | RE |
|-----------------------|---|---|--|------------------------|--|-----------------------|
| | A. REFER TO EXTERIOR ELEVATIONS FOR FINISHES. | | | | | |
| 8 SIM | B. SEE STRUCTURAL FOR STRUCTURAL ELEMENTS. | | | | | |
| -(1) | | | | | | |
| 3 A42-01 | | | | | | |
| \checkmark | | | | | | |
| 2 | | 4 | | | | |
| 12-01 | | | This drawing | has been | prepared solely for the us | e of St. Clair |
| 6 10-01 | | | County Health | n Departm ade by NC | ent and there are no repr DRR to any party with who | esentations |
| A40-01 3 | | | | | | |
| • | | | This drawing the seal appe Architect or E | aring here | e used for construction p on is signed and dated b | urposes unti y the |
| | | | Project Comp | onent | | |
| -(2) | LIGHTING FIXTURE LEGEND | | Key Plan | | | |
| 2 | CRIWH, WITH AIRCRAFT CABLING AS REQUIRED. SUSPEND LIGHT FIXTURE AT 10'-0" AFF | | | | | |
| ICKEN SLAB AT EDGE OF | X1 - LITHONIA - LQM SERIES EXIT SIGN. WALL MOUNT 7'-6" AFF | | | | | |
| RAGE FRONRAGE | | | | | | |
| ₼ | | | | | | |
| \checkmark | | 3 | Consultants Survey: Civil: | | | |
| | | | Architecture Structural: Mechanical: | | | |
| | | | Electrical: Interiors: Landscape: | NORR | | |
| 3 I-01 | | | Lanuscape. | | | |
| -(1) | LIFE SAFETY PLAN LEGEND | | Seal(s) | | | |
|] | | | | | | |
| 1 | • MAXIMUM TRAVEL DISTANCE FROM FARTHEST POINT ILLUMINATED EXIT SIGN ABOVE THE DOOR WITH TACTILE EXIT SIGNS WITHIN 12" OF LATCHSIDE JAMB AT DOOR @ LOCATION OF SYMBOL | | | | | |
| | TACTILE EXIT SIGNS WITHIN 12" OF LATCHSIDE JAMB AT DOOR @ LOCATION OF SYMBOL 18" CLR | | | | | |
| | TACTILE EXIT SIGNAGE WITH 18"X18" CLEAR SPACE CENTERED ON TACTILE CHARACTERS, SEE DETAIL IN THIS SET, FOR MOUNTING LOCATIONS | | | | | |
| | F.E.C. PROVIDE LISTED AND LABELED DRY-CHEMICAL UL- | | | | | |
| | RATED FIRE EXTINGUISHER - SURFACE MOUNTED ON RATED AND AT NEW LOCATIONS ON EXISTING WALLS, SEMI-RECESSED OTHERWISE. SEE DETAIL IN THIS SET | | | | RR | |
| | FOR MOUNTING HEIGHT | | | | | |
| | ADA TURNING RADIUS & CLEARANCES | 2 | NORR OF | FICE AD | DRESS | |
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| -(<u>2</u>) | EXIT COMPONENT STAIR XX OCCUPANT LOAD | | | | | |
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| | | 1 | 220 Fort St Port Huron, 48060 Drawing Title FLOC | DR, L | IFE SAFET | ſ, RCF |
| | | 1 | Garaç 220 Fort St Port Huron, 48060 Drawing Title FLOC AND | DR, L | IFE SAFET | ſ, RCF |
| | | 1 | Garaç 220 Fort St Port Huron, 48060 Drawing Title FLOC AND | DR, L | IFE SAFET | ſ, RCF |
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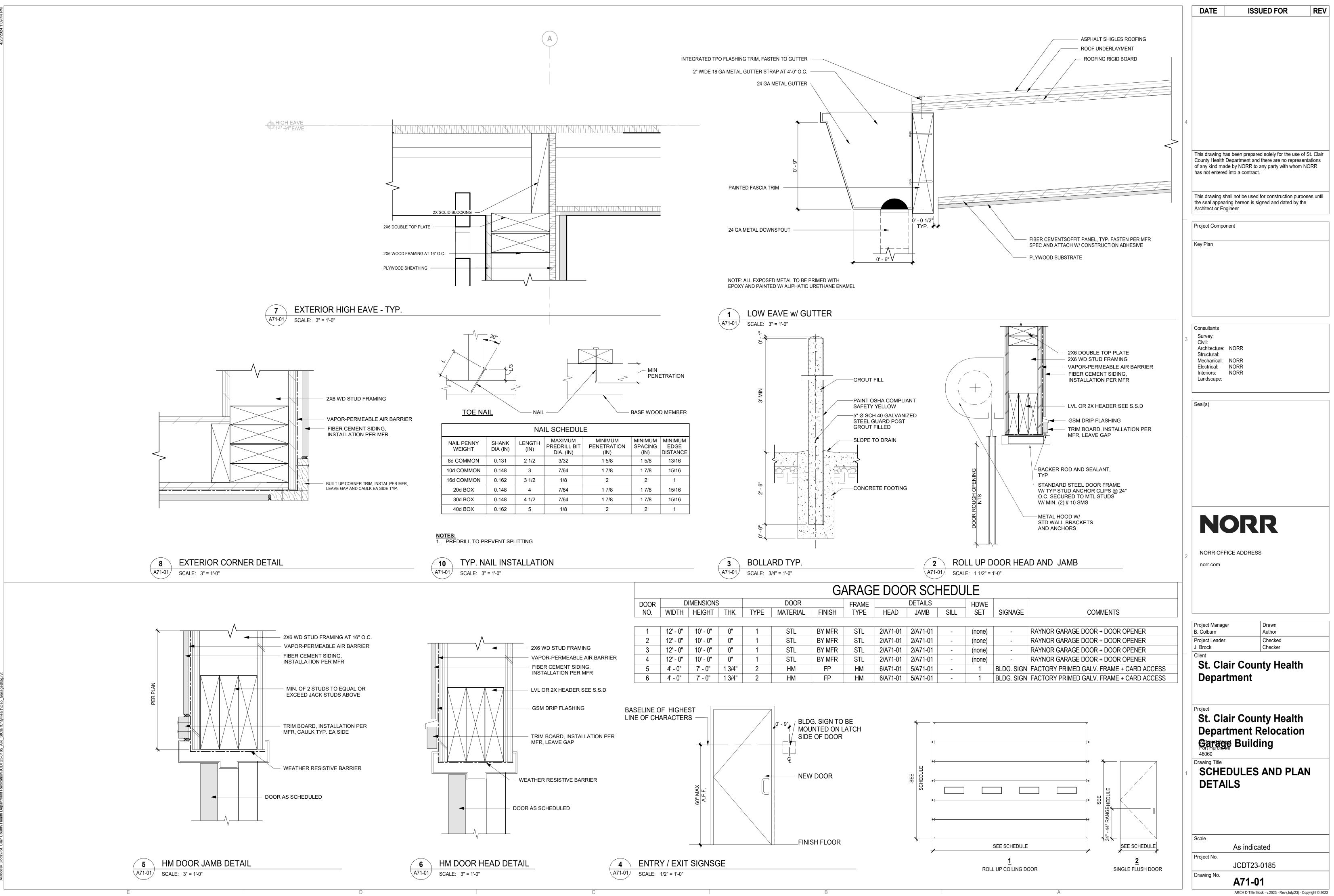


| | GENERAL NOTES - ELEVATIONS | | DATE 4-22-2024 | ISSUED FOR BID DERMIT | REV |
|--|--|----------|---|--|---|
| | A. REFER TO SECTIONS AND DETAILS FOR EXTERIOR WA ASSEMBLIES INFORMATION. | LL | 4-24-2024 | PERMIT | 2 |
| | | 4 | County Healt of any kind m has not enter This drawing | | esentations om NORR urposes until |
|) | FINISH SCHEDULE MARK TYPE COLOR NOTES | | Key Plan | | |
| ASPHALT SHINGLES P4 GUTTER P4 P4 FIBER CEMENT SIDING | P1EXTERIOR WOODMATCH FIBER CEMENT SIDINGFASCIAP2ACRYLIC SEALERCLEAREXPOSED CONCRP3EPOXYSAFETY YELLOWBOLLARDSP4URETHANE ENAMELGRAYGUTTER, DOWNSPOUTS, DOORS/ FRAMES, | ETE 3 | Consultants Survey: Civil: Architecture Structural: Mechanical: Electrical: Interiors: Landscape: | : NORR NORR NORR | |
| P3 | | | Seal(s) | | |
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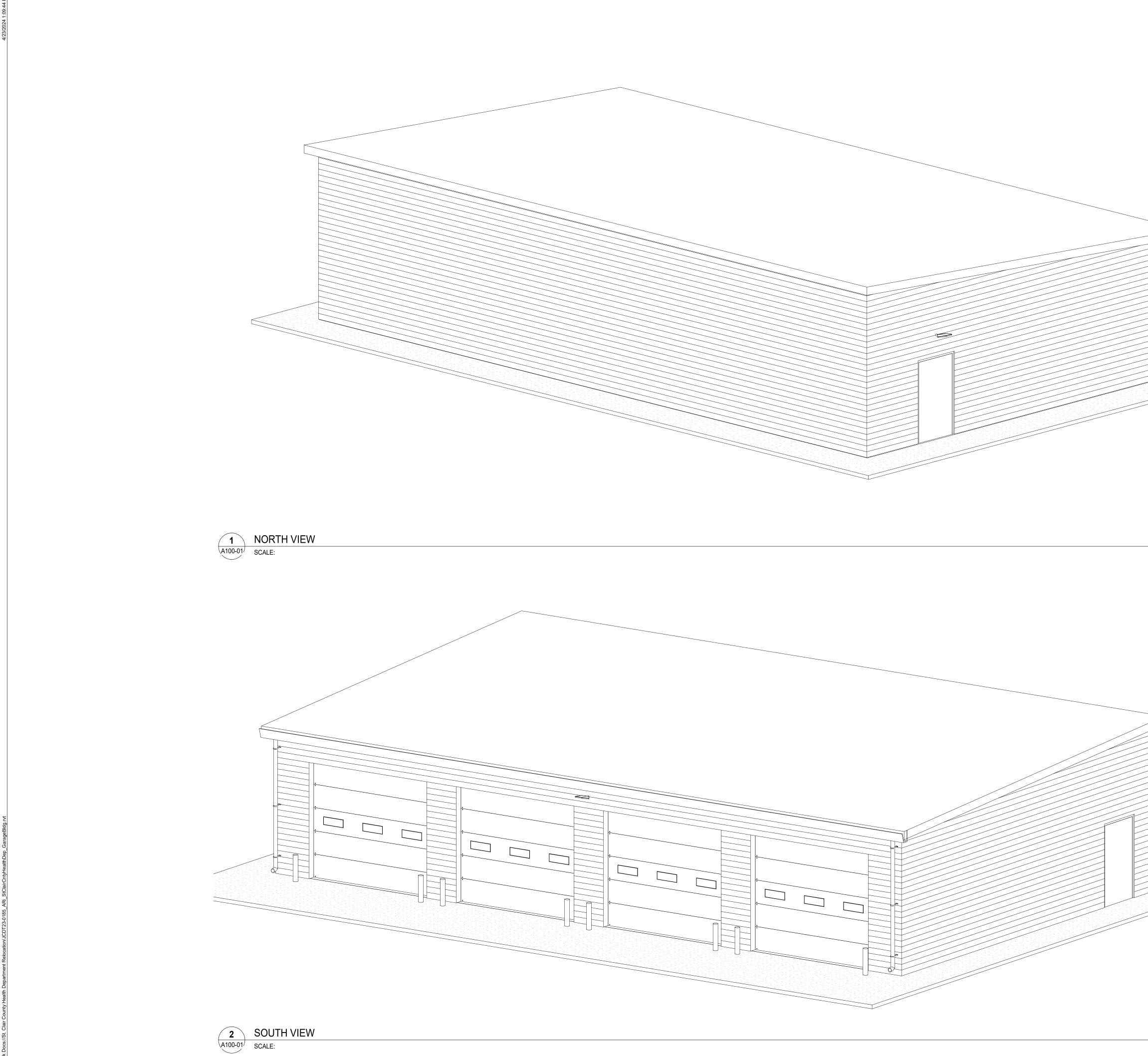


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ARCH D Title Block - v.2023 - Rev (July/23) - Copyright © 2023



| | NAIL SCHEDULE | | | | | | | |
|----------------------|-------------------|----------------|--------------------------------------|--------------------------------|----------------------------|-----------------------------|--|--|
| NAIL PENNY WEIGHT | SHANK DIA (IN) | LENGTH (IN) | Maximum Predrill Bit Dia. (IN) | MINIMUM PENETRATION (IN) | MINIMUM SPACING (IN) | MINIMUM EDGE DISTANCE | | |
| 8d COMMON | 0.131 | 2 1/2 | 3/32 | 1 5/8 | 1 5/8 | 13/16 | | |
| 10d COMMON | 0.148 | 3 | 7/64 | 1 7/8 | 1 7/8 | 15/16 | | |
| 16d COMMON | 0.162 | 3 1/2 | 1/8 | 2 | 2 | 1 | | |
| 20d BOX | 0.148 | 4 | 7/64 | 1 7/8 | 1 7/8 | 15/16 | | |
| 30d BOX | 0.148 | 4 1/2 | 7/64 | 1 7/8 | 1 7/8 | 15/16 | | |
| | 0 162 | Б | 1/0 | 2 | 2 | 1 | | |



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| | This drawing ha County Health [| s been prepared solely for the us Department and there are no rep le by NORR to any party with wh | se of St. Clair resentations |
| | has not entered | into a contract. | |
| | This drawing sh the seal appeari Architect or Eng | all not be used for construction p ing hereon is signed and dated b jineer | ourposes until y the |
| | Project Compon | nent | |
| | Key Plan | | |
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STRUCTURAL NOTES

| A. | PR | ROJECT REFERENCES: |
|----|----|--|
| | 1. | CODE: WORK SHALL BE EXECUTED IN FULL COMPLIANCE WITH THE APPLICABLE |
| | | PROVISIONS OF ALL LAWS, BY-LAWS, STATUTES, ORDINANCES, CODES, RULES, |
| | | REGULATIONS, AND LAWFUL ORDERS OF PUBLIC AUTHORIJES BEARING ON THE |
| | | PERFORMANCE AND EXECUTION OF THE WORK. |
| | | |

| CODES AND STANDARDS | |
|------------------------|-----------|
| BUILDING CODE | ASCE 7-16 |
| RISK CATEGORY | II |
| FM APPROVED PARAMETERS | NO |

- 2. PROJECT SPECIFICATIONS: NOTES AND SPECIFICATIONS GIVEN ON THE STRUCTURAL DRAWINGS ARE EXCERPTS FROM THE RELATING PROJECT SPECIFICATIONS. THEY ARE NEITHER COMPLETE NOR DO THEY REPLACE THE CONTRACT SPECIFICATIONS.
- 3. MATERIAL STANDARDS: REFERENCED STANDARDS OR PUBLICATIONS SHALL PERTAIN TO MOST CURRENT DATA, STANDARD OR PUBLICATION..
- TEMPORARY BRACING, SHORING AND METHODS: CONTRACTOR REPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF SHORING, BRACING, OTHER TEMPORARY SUPPORTS, AND METHODS OF CONSTRUCTION.
- 1. STABILITY: THE CONTRACTOR SHALL INSURE THE STABILITY OF ALL ELEMENTS INCLUDING, BUT NOT LIMITED TO EXCAVATION, FLOORS, ROOFS, WALLS, FOUNDATIONS, AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE. THE STRUCTURAL ENGINEER ASSUMES NO RESPONSIBILITY FOR THE STRUCTURE DURING THE ENTIRE CONSTRUCTION PERIOD. BRACE BASEMENT/PIT WALLS UNTIL SUPPORTING FLOORS ARE PLACED AND WALL/FLOOR HAS REACHED DESIGN STRENGTH. BACKFILL BOTH SIDES OF WALLS SIMULTANEOUSLY
- 2. LOADING: THE BUILDING IS DESIGNED ONLY FOR PERMANENT LOADS APPLIED TO THE STRUCTURE IN ITS FINAL CONFIGURATION. DO NOT PLACE MATERIAL OR EQUIPMENT ON FLOORS OR FLOORS IN EXCESS OF THE INDICATED DESIGN LIVE LOADS, AVOID IMPACT LOADS.
- 3. SURCHARGE: IN NO CASE SHALL HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION/BASEMENT WALL. IF THE CONTRACTOR DEEMS IT NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THAN 8'-0", THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND, AT HIS OWN EXPENSE, PROVIDE ADEQUATE SUPPORTS OR WALL BRACES TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH EQUIPMENT.
- 4. SITE SAFETY: THE CONTRACTOR SHALL BE SOLEY RESPONSIBLE FOR MAINTAINING CONDITIONS OF PUBLIC AND WORKER SAFETY DURING EXECUTION OF THE WORK. THIS SHALL INCLUDE COMPLIANCE WITH ALL OSHA, STATE AND LOCAL REGULATIONS/LAWS AS WELL AS PREPARING AND FILING A SITE SAFETY PLAN OR PROVIDING OTHER WRITTEN SAFETY ASSURANCES AS REQUIRED. ALL CONSTRUCTION METHODS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 33 OF THE IBC, "SAFEGUARDS DURING CONSTRUCTION".
- . DAMAGE: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY MEASURES TO PROTECT THE PREMISES INCLUDING EXISTING FACILITIES. STRUCTURES, AND UTILITY LINES FROM ANY DAMAGE AND REPAIR ALL DAMAGE CAUSED BY THE CONTRACTOR WITH NEW MATERIALS TO MATCH EXISTING TO THE SATISFACTION OF THE OWNER, ARCHITECT AND/OR ENGINEER.
- **REVIEW AND COORDINATION:**
- 1. EXISTING CONDITIONS, DIMENSIONS, AND ACCESSIBILITY SHALL BE VERIFIED BY ALL CONSTRUCTION TRADES IN FIELD, PRIOR TO SHOP DRAWING PREPARATIONS AND PROCEEDING WITH THE WORK. IF EXISTING CONDITIONS DO NOT PERMIT EXECUTION OF THE WORK IN ACCORDANCE WITH THE SHOWN DETAILS, THE CONTRACTOR MUST SUBMIT A SKETCH WITH PROPOSED MODIFICATION. APPROVAL MUST BE GRANTED BY THE ENGINEER PRIOR TO START OF WORK.
- 2. **CONSTRUCTION DOCUMENTS**: THE CONTRACTOR SHALL COORDINATE STRUCTURAL PLANS, DETAILS AND DIMENSIONS WITH ALL OTHER CONSTRUCTION DOCUMENTS BEFORE PROCEEDING WITH THE WORK. DISCREPANCIES WITHIN OR BETWEEN OTHER CONSTRUCTION DOCUMENTS SHALL BE NOTIFIED TO THE ENGINEER AND ARCHITECT PRIOR TO BID AND EXECUTION OF THE WORK.
- MATERIAL STRENGTHS OR QUANTITIES: IF DISCREPANCIES OCCUR REGARDING MATERIAL STRENGTHS OR QUANTITIES, HIGHER STRENGTH, AND GREATER QUANTITY SHALL BE USED.
- DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE GENERATED BY OTHER DISCIPLINES, WITH THE EXCEPTION OF DIMENSIONS OF STRUCTURAL MEMBERS. ANY DIMENSIONS OR ELEVATIONS OMITTED OR NOT SHOWN ON THE STRUCTURAL DRAWINGS SHOULD BE OBTAINED FROM THE OTHER TRADE CONSTRUCTION DOCUMENTS.
- 3. **INTENT:** ALL DETAILS, SECTIONS, AND NOTES ARE INTEDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO SIMILAR CONDITIONS ELSEWHERE.
- 4. BID: UNLESS DRAWING IS PART OF THE FULL SET OF DOCUMENTS LABELED "ISSUED FOR BID." DO NOT CONSIDER IT AS THE BASIS FOR A BID. ALL ESTIMATES BASED ON OTHER DRAWINGS ARE USED AT THE ESTIMATOR'S SOLE RISK.
- 5. CHANGES REQUESTED BY THE CONTRACTOR WILL BE DONE AT NO COST TO THE OWNER. APPROVAL OF CONTRACTOR REQUESTED CHANGES IN NO WAY STATES OR IMPLIES APPROVAL OF A CHANGE IN SCOPE OR CHANGE IN CONTRACT COST. THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE CONTRACT DOCUMENTS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
- 6. ERRORS: COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR ERRORS WILL BE AT THE CONTRACTORS EXPENSE.

SUBMITTALS:

- 1. **REVIEW SCHEDULE:** SUBMIT SHOP DRAWINGS FOR REVIEW AT LEAST 14 DAYS (10 WORKING DAYS) BEFORE RETURNED SUBMITTALS WILL BE NEEDED. ANY REVIEW THAT IS REQUIRED MORE QUICKLY WILL BE AT THE CONTRACTORS EXPENSE.
- 2. COMPLETENESS: A CONTRACTOR'S STAMP CERTIFYING THAT THEY HAVE VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAVE CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS MUST BE PRESENT ON ALL SUBMITTALS FOR REVIEW BY THE ENGINEER OF RECORD. IF REVIEWS OF INCOMPLETE SHOP DRAWINGS/SUBMITTALS ARE REQUIRED, THOSE SUBMITTALS SHALL BE MARKED AS INCOMPLETE UNTIL THEY BEAR SUCH STAMP FROM THE G.C.
- 3. ORIGINAL DOCUMENTS: IN NO CASE SHALL THE CONTRACT DOCUMENTS BE USED/REPRODUCED AS A BASIS FOR SHOP DRAWINGS. SHOP DRAWINGS SHALL BE ORIGINAL DRAWINGS NOT COPIES OF THE CONTRACT DOCUMENTS.
- 4. REJECTION: SUBMITTALS NOT MEETING THE CRITERIA LISTED IN THIS SECTION WILL NOT BE REVIEWED.
- 5. DELEGATED DESIGN: DELEGATED DESIGNS SHALL CLEARLY INDICATE THE APPLICABLE CODES, DESIGN CRITERIA, CONNECTION DETAILS, AND LOAD CAPACITY OF COMPONENTS/SYSTEMS BEING PROVIDED.
- a. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CONSTRUCTION FOR THE FOLLOWING:
- SHORING SYSTEMS FOR EXCAVATIONS AND SOIL RETENTION TEMPORARY BRACING, ERECTION BRACING
- CONCRETE MIX DESIGNS
- CONCRETE FORMWORK
- WOOD ENGINEERED FRAMING, GLULAM, & CONNECTIONS WOOD - PRE-ENGINEERED WOOD TRUSSES
- b. DELEGATED ELEMENTS AND CONNECTIONS SHALL BE ARRANGED SUCH THAT NO ECCENTRICITIES OR TORSION IS CREATED ON THE PRIMARY STRUCTURE. ADDITIONAL BRACING TO RESOLVE SUCH FORCE SHALL BE DETAILED BY THE DELEGATED DESIGNER AND FURNISHED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING EMBED ITEMS AND HARDWARE AS REQUIRED.

E. <u>SPECIAL INSPECTIONS (STRUCTURAL)</u> RESPONSIBILITIES:

- THIRD PARTY INSPECTION AGENCY SHALL BE CONTRACTED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING AND OBTAINING
- PERMITS AND SIGN-OFFS FROM THE DEPARTMENT OF BUILDINGS. SPECIAL INSPECTIONS AND TESTS, STATEMENTS OF SPECIAL INSPECTIONS. RESPONSIBILITIES OF CONTRACTORS, SUBMITTALS TO THE BUILDING OFFICIAL AND STRUCTURAL OBSERVATIONS SHALL MEET THE APPLICABLE **REQUIREMENTS OF IBC CHAPTER 17**
- 2. STATEMENT OF SPECIAL INSPECTIONS: MATERIALS, PROCEDURES AND WORKMANSHIP OF LISTED STRUCTURAL ELEMENTS SHALL BE VERIFIED FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS AND APPROVED SUBMITTALS PER THE CORRESPONDING REFERENCES.

3. INSPECTION DEFINITIONS:

 C - CONTINUOUS: CONSTANT MONITORING OF IDENTIFIED TASKS BY A SPECIAL INSPECTOR OVER THE DURATION OF PERFORMANCE OF SAID TASKS. P - PERIODIC: INTERMITTANTLY INSPECFTED DURING THE COURSE OF EACH WORK DAY TO INSURE THAT APPLICABLE REQUIREMENTS ARE BEING MET. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS AT CONTRACTOR'S RISK.

| | STATEMENT OF SPECIAL INSPECTIONS (IBC '21) | | | | | | | | | |
|-------|--|---|--------------|--------------------------|------|--|--|--|--|--|
| REQ'D | INSPECTION | VERIFICATION AND INSPECTION ITEM | IBC 18 | REFERENCE | TYPE | | | | | |
| CONCF | CONCRETE | | | | | | | | | |
| Yes | CAST IN PLACE | CONCRETE DESIGN MIX, SAMPLING, FORMWORK, PLACEMENT AND MAINTENANCE | 1705.3 | ACI 318 CH 20, 25, 26 | Р | | | | | |
| Yes | POST-INSTALLED ANCHOR | ANCHORS INSTALLED IN HARDEND CONCRETE | 1705.3 | ACI 318: 17.8.2 | С | | | | | |
| MASON | NRY | | | | | | | | | |
| Yes | MASONRY CONSTRUCTION | MASONRY CONSTRUCTION, DEPENDING ON STRUCTURAL OCCUPANCY CATEGORY OF THE BUILDING OR STRUCTURE | 1705.4 | ACI 530 | C, P | | | | | |
| WOOD | | | | | | | | | | |
| Yes | WOOD DIAPHRAGMS | HIGH LOAD DIAPHRAGMS | 1705.11 | IBC 1705.11 | Р | | | | | |
| Yes | PREFABRECATED WOOD | PREBRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES | 1705.11 | IBC 1705.11 | Р | | | | | |
| SOILS | & FOUNDATION | | | | | | | | | |
| Yes | SUBGRADE | EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT, LOAD BEARING REQUIREMENTS | 1705.6, 1804 | IBC 1705.6, 1804 | Р | | | | | |
| Yes | COMPACTED FILL | COMPACTED FILL, MAXIMUM LIFT THICKNESS PER GEOTECHNICAL REPORT | 1705.6, 1804 | IBC 1705.6, 1804 | С | | | | | |
| Yes | MASONRY FOUNDATION | VERTICAL MASONRY FOUNDATION ELEMENTS | 1705.4.2 | IBC 1705.4.2 | С, Р | | | | | |

WOOD NOTES

- A. STANDARDS THE DESIGN, FABRICATION, AND ERECTION OF WOOD CONSTRUCTION SHALL COMPLY G. WITH THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS: 1. LUMBER/TIMBER:
- "THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" BY THE AMERICAN FOREST & PAPER ASSOCIATION (AFPA) "TIMBER CONSTRUCTION MANUAL" BY THE AMERICAN INSITITUE OF TIMBER CONSTRUCTION.
- 2. CONNECTORS SPECIFIED ON PLAN ARE BY THE SIMPSON STRONG-TIE COMPANY, INC. COMPONENTS BY OTHER SUPPLIERS MAY BE SUBSTITUTED IF THEY HAVE I.C.B.O. APPROVAL AND MEET OR EXCEED LOAD-CARRYING CAPACITY OF SIMPSON CONNECTORS AND ANCHORS SPECIFIED.
- 3. **ERECTION:** STRUCTURAL BUILDING COMPONENTS ASSOCIATION (SBCA) "BUILDING COMPONENT SAFETY INFORMATION GUIDELINES" (BCSI 1).

4. TRUSSES AND THEIR CONNECTIONS:

- NFPA, AND TRUSS PLATE INSTITUTE "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" (ANSI/TPI 1). WOOD TRUSS COUNCIL OF AMERICA "GUIDE TO GOOD PRACTICE FOR
- HANDLING, INSTALLING, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES"
- WOOD TRUSS PLATE INSTITUTE (BWT-76) SPECIFICATIONS.
- 5. **EXPERIENCE:** WOOD FRAMING CONTRACTOR SHALL BE PREQUALIFIED BY THE OWNER AND SHALL HAVE RECENT AND EXTENSIVE (5 YEARS +) EXPERIENCE WITH HEAVY TIMBER FRAMING.
- 6. MOISTURE CONTENT: LUMBER MUST BE KILN-DRIED TO A MAXIMUM MOISTURE CONTENT OF 19%. THE FOLLOWING STEPS MUST ALSO BE TAKEN TO REDUCE
- WATER EXPOSURE OF WOOD MATERIALS ON SITE: A. AVOID STORING MATERIALS WHERE EXPOSED TO RAIN OR STANDING WATER B. KEEP UNUSED FRAMING MATERIALS COVERED C. IMMEDIATELY REMOVE STANDING WATER FROM FLOOR FRAMING AFTER RAIN D. INSPECT BUILDING ENCLOSURE LAYERS SUCH AS WEATHER-RESISTIVE
- E. BARRIERS FOR PROPER INSTALLATION F. "DRY-IN" THE STRUCTURE AS QUICKLY AS POSSIBL

B. SUBMITTALS

- 1. DRAWINGS: SUBMIT PRODUCT DATA WITH SHOP DRAWINGS, SHOP DRAWINGS SHALL SHOW LAYOUT. TYPE OF MEMBER, ANCHORAGE DETAILS, SUPPLEMENTAL FRAMING, CUT OPENINGS AND ACCESSORIES.
- 2. ENGINEERING CALCULATIONS: CALCULATIONS SUPPORTING ENGINEERED WOOD CONSTRUCTION SYSTEMS (INCLUDING ENGINEERING I-JOISTS, FLOOR OR ROOF TRUSSES, AND THEIR CONNECTIONS) SHALL BE SUBMITTED FOR REVIEW OF THE ARCHITECT AND ENGINEER OF RECORD AND BEAR A SIGNATURE/SEAL OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF CONSTRUCTION.
- 3. COORDINATION: WOOD CONSTRUCTION CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

C. MATERIAL INFORMATION

- . GRADE: ALL LUMBER AND PLYWOOD SHALL BE GRADE-STAMPED BY THE APPROPRIATE SUPPLIER'S ASSOCIATION FOR THE APPROPRIATE USE. PLEASE CONFRIM PT. ROOF SHEATHING IS NOT NEEDED ON THIS JOB.
- 2. PRESSURE-TREATED: ALL WOOD 18" FROM EARTH, OR WITHIN 1" FROM DIRECT CONTACT WITH CONCRETE OR MASONRY, SHALL BE PRESSURE-TREATED WITH A CCA-C 0.40 PROCESS AND SHALL BE BRANDED WITH A QUALITY CONTROL AGENCY MARK BY AMERICAN WOOD PRESERVERS BUREAU OR EQUAL.
- 3. LUMBER: ALL WOOD FOR STRUCTURAL FRAMING SHALL BE: • 2" NOMINAL LUMBER TO BE SEASONED TO 19% MAXIMUM MOISTURE CONTENT. TIMBER DIMENSIONS ARE NOMINAL.
- 4. CONNECTOR PLATES SHALL BE A MINIMUM THICKNESS OF 0.036" STEEL, PER ASTM A446 GRADE A, AND GALVANIZED, CONFORMING TO ASTM A525 DESIGNATION G60. TRUSS CONNECTOR PLATES SHALL BE AT LEAST 20 GA. GALVANIZED STEEL. NO INCREASE IN ALLOWABLE STRESS DUE TO DURATION OF LOAD SHALL BE USED IN CONNECTOR PLATE DESIGN. FINAL THICKNESS/GAUGE SHALL BE AT THE DISCRETION OF THE PLATE SUPPLIER BASED ON APPLIED LOADING.
- 5. CONNECTION HARDWARE: SIMPSON CONSTRUCTION HARDWARE (OR APPROVED EQUAL) SHALL BE FASTENED ACCORDING TO THE SUPPLIER'S SPECIFICATIONS AND NAILING SCHEDULE. THE GENERAL CONTRACTOR MUST BE FAMILIAR WITH AND HAVE THE APPROPRIATE PRODUCT CATALOGS ON SITE.
- 6. SCREWS SHALL BE THOSE INTENDED FOR STRUCTURAL ASSEMBLY OF WOOD STRUCTURES, MANUFACTURED BY QUICKDRIVE, GRABBER, OR USP
- 7. NAILS: ALL NAILS IN TREATED TIMBER SHALL BE GALVANIZED.
- 8. WASHERS: MILD STEEL PLATE WASHERS ARE REQUIRED AT ALL BOLTS AND NUTS BEARING ON WOOD EXCEPT AT SILL PLATES. PROVIDE CUT WASHERS.
- 9. ENGINEERED LUMBER:
- ENGINEERED PRODUCTS SHALL BE ADEQUATELY STORED AND COVERED AT THE JOBSITE TO BE PROTECTED FROM WATER DAMAGE. ALL EXPOSED ENGINEERED LUMBER SHALL BE PRESSURE TREATED WITH A
- NON-INCISED PRESSURE METHOD SO A CLEAR FINISH CAN BE APPLIED. WET-USE ADHESIVES ARE REQUIRED.
- D. FRAMING CONSTRUCTION
 - ALL WOOD FRAMING SHALL BE BUILT PLUMB, LEVEL, SQUARE, AND TRUE WITH ADEQUATE BRACING AND CONNECTION HARDWARE TO ENSURE A RIGID STRUCTURE. MULTIPLE MEMBERS SHALL BE FASTENED TOGETHER. SEE TYPICAL DETAIL FOR NAILING PATTERNS.
- 2. **ROUGH CONNECTIONS** SHALL BE ACCURATELY CUT AND TIGHTLY FITTED AS NECESSITATED BY THE CONDITIONS ENCOUNTERED TO PROVIDE FULL BEARING WITHOUT THE USE OF SHIMS.

E. FLOOR/ROOF CONSTRUCTION

- FASTEN ALL JOISTS TO SUPPORTS WITH APPROPRIATELY SIZED FRAMING HANGERS UNLESS NOTED OTHERWISE.
- 2. BEARING: BEAR A MINIMUM OF 4" ON MASONRY OR CONCRETE. BEAR BEAMS, GIRDERS, JOISTS, RAFTERS AND TRUSSES ON CONTINUOUS WOOD PLATE WITH 5/8"Ø BOLTS @ 48" O.C., UNLESS OTHERWISE NOTED. FLOOR JOISTS, CEILING JOISTS AND ROOF RAFTERS SHALL HAVE 4" NOMINAL BEARING ON WOOD OR WOOD PLATES ON METAL OR MASONRY.
- 3. BUILT-UP MEMBERS: ALL DOUBLE (OR MORE) JOISTS, BEAMS, HEADERS, RAFTERS AND TRUSSES MUST BE MECHANICALLY FASTENED OR NAILED TO EACH OTHER TO ACT AS A SINGLE UNIT WHEN LOADED. SEE TYPICAL DETAILS AND IBC FASTENING REQUIREMENTS UNDER WOOD CHAPTER.
- 4. BLOCKING REQUIREMENTS: PROVIDE 2" NOMINAL THICKNESS FULL DEPTH SOLID BLOCKING FOR JOISTS AND RAFTERS AT ENDS AND AT SUPPORTS. OMIT SOLID BLOCKING WHEN JOISTS ARE NAILED TO A CONTINUOUS HEADER. LAP JOISTS FRAMING FROM OPPOSITE SIDES OF A BEAM, GIRDER OR PARTITION AT LEAST 6". SECURE JOISTS FRAMED END TO END WITH METAL STRAPS. USE APPROVED FRAMING ANCHORS TO SUPPORT JOISTS FRAMING INTO THE SIDES OF WOOD OR STEEL BEAMS. FASTEN SOLID WOOD BLOCKING TO STEEL BEAM WEB WITH 2 ROWS OF 1/2"Ø THROUGH-BOLTS @ 16" O.C. PRIOR TO INSTALLING JOIST HANGERS.
- 5. HEADER BEAMS: PROVIDE DOUBLED (ANOTHER HEADER BEAM OR EQUIVALENT CROSS-SECTION) TRIMMER AND HEADER JOISTS AROUND OPENINGS UNLESS NOTED OTHERWISE. SUPPORT HEADER JOISTS FROM FRAMING ANCHORS OR JOIST HANGERS UNLESS BEARING ON A BEAM. PARTITION OR A WALL. JOISTS CARRYING PARTITIONS PERPENDICULAR TO JOISTS SHALL NOT BE OFFSET FROM SUPPORTING GIRDERS, WALLS OR PARTITIONS MORE THAN THE JOIST DEPTH. JOISTS CARRYING PARTITIONS PARALLEL TO JOISTS SHALL BE DOUBLED.

WOOD STRUCTURAL PANELS

- 1. **ROOF SHEATHING** SHALL BE APPLIED PERPENDICULAR TO SUPPORTS. THE INDEX NUMBER IS BASED ON A 3 SPAN CONDITION. IF LESS THAN 3 SPANS ARE FURNISHED, ADDITIONAL EDGE SUPPORT IS REQUIRED (MIN 4 PLY). UNSUPPORTED EDGES OF ROOF SHEATHING SHALL BE SUPPORTED BY EITHER OF FOLLOWING: GALVANIZED STEEL H CLIPS (SIMPSON PSCL) DESIGNED FOR THIS PURPOSE JSE TWO H CLIPS FOR EACH TRUSS SPACE OF 24" AND ONE H CLIP FOR EACH
- TRUSS SPACE OF 16") PLYWOOD ROOF SHEATHING WITH STANDARD TONGUE-AND-GROOVE EDGES.
- 2. GAPS: PANELS SHALL BE INSTALLED WITH 1/4" SPACING AT END JOINTS AND 1/8" SPACING AT EDGE JOINTS MINIMUM.

PREFABRICATED TRUSSES

- PREFABRICATED TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR DESIGI AND ASSOCIATED COMPONENTS INCLUDEDING (BUT NOT LIMITED TO) CONNECTIONS, BRIDING, AND CROSS BRACING. CONTRACTOR SHALL ALL ADDITIONAL TRADE WORK WITH THE TRUSS SUPPLIER SHOP DRAW
- 2. ALL ROOF TRUSSES SHALL BE DESIGNED TO RESIST DEAD, LIVE, ROOF, UPLIFT FORCES PER LOAD TABLE.
- TRUSSES SHALL NOT BE FIELD MODIFIED WITHOUT ADVANCE APPROVA DETAILS BY THE TRUSS SUPPLIER AND ENGINEER OF RECORD. DO NOT REMOVE TRUSS MEMBERS OR COMPONENTS.
- 4. ALL TRUSSES ARE LATERALLY UNSTABLE UNTIL PROPERLY BRACED. A SHALL BE SECURELY BRACED BY THE CONTRACTOR, BOTH DURING CO AND AFTER PERMANENT INSTALLATION PER BCSI AND/OR AS INDICATEI CONTRACT DOCUMENTS. PROVIDE PERMANENT BRACING OF INDIVIDU. COMPRESSION MEMBERS PER TRUSS SUPPLIER'S ENGINEER'S DESIGN ALL BRACING SHALL HOLD TRUSSES STRAIGHT AND PLUMB, AND INSTA PERMANENTLY BEFORE THE APPLICATION OF ANY LOADING.
- 5. PROVIDE CONTINUOUS BRIDGING FOR NET WIND UPLIFT PER ANSI/TPI-1 RECOMMENDATIONS
- 6. WEB ORIENTATION SHALL MATCH THE TRUSS SUPPLIER ELEVATIONS. OF WEB ELEMENTS ON PLAN DO NOT REFLECT FINAL CONFIGURATION.
- 7. TRUSSES SHALL BE FABRICATED WITH HYDRAULICALLY PRESSED 20 GA TOOTHED METAL PLATES OR NAILED STEEL GUSSET PLATES. CONNEC BE CAPABLE OF TRANSMITTING THE STRESS PLUS ALL ECCENTRICITIES
- 8. PROVIDE ADDITIONAL TRUSSES UNDER ALL PARTITIONS PARALLEL TO
- 9. TRUSS SHOP DRAWINGS SHALL SHOW MULTI-PLY GIRDER AND HEADER DETAILS TO EACH OTHER TO ACT AS A SINGLE UNIT WHEN LOADED.

WALL CONSTRUCTION: . AT EXTERIOR WALLS PROVIDE SOLID BLOCKING WITHIN THE FLOOR FRA

- LOCATED UNDER POSTS OR MULTIPLE STUDS AT THE EDGES OF OPENII
- 2. PROVIDE SIMPSON RSP4 (2) STUD PLATE TIES TO WALL FRAMING TOP P RSP4 (1) TIES TO WALL FRAMING BOTTOM PLATES WHERE WALLS SUPP FRAMING.
- 3. STUDS IN BEARING WALLS AND EXTERIOR WALLS SHALL BE CONTINUO BRIDGED WITH WOOD BLOCKING AT MID-HEIGHT BETWEEN FLOORS (AN
- 4. STUDS AND POSTS SHALL BE ONE-PIECE CONTINUOUS BETWEEN FLOC AND BETWEEN FLOOR LEVEL AND ROOF DIAPHRAGMS. ALL DOUBLE STU BE NAILED TO EACH OTHER AT 8 INCH MAXIMUM SPACING FULL-HEIGHT
- 5. BRACE EXTERIOR BUILDING CORNERS IN STUD WALLS WITH DIAGONAL METAL STRAPS OR PLYWOOD SHEATHING NAILED OR SCREWED TO ST
- 6. WOOD COLUMNS AND POSTS SHALL BE FRAMED TO TRUE END BEARING SHALL BE POSITIVELY ANCHORED TO THEIR SUPPORTING FOUNDATION APPROVED POST BASE. CONTRACTOR SHALL SUPPORT COLUMNS AND SECURELY IN POSITION AND PROTECT POST BASES FROM DETERIORAT TREATED WOOD COLUMNS AND POSTS MAY BE PLACED DIRECTLY ON (OR MASONRY
- 7. MINIMUM OF TWO JAMB STUDS ARE REQUIRED UNDER ALL HEADERS, 2 PSL BEAMS, OR GIRDER TRUSSES, U.N.O.
- 8. ALL TOP PLATE SPLICES SHALL BE EITHER A 4"x18 GAUGE STRAP OR 4'-0 LAPPED PLATES WITH (10) 16d EACH SIDE OF SPLICE U.N.O.
- 9. ALL PLYWOOD SHALL BE LAID WITH LONG DIMENSIONS PERPENDICULA SUPPORTS. STAGGER ALL JOINTS.
- 10. BOLT HOLES SHALL BE A MINIMUM OF 1/32" AND A MAXIMUM OF 1/16" LAI THE BOLT DIAMETER.
- 11. INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION
- PNEUMATIC NAILERS MAY BE USED TO INSTALL CONNECTORS, PROVID CORRECT QUANTITY AND TYPE OF NAILS ARE PROPERLY INSTALLED IN HOLES PER SUPPLIER'S INSTRUCTIONS. TOOLS WITH NAIL HOLE LOCAT MECHANISMS AND APPROPRIATE SAFETY EQUIPMENT SHOULD BE USE
- 13. JOISTS SHALL BEAR COMPLETELY ON THE CONNECTOR SEAT AND THE BETWEEN THE JOIST AND THE HEADER SHALL NOT EXCEED 1/8".
- 14. PLYWOOD OR OSB SHALL BE APA RATED AND SHALL BE ADEQUATELY JOINTS (1/8" TYP.) PER APA FOR EXPANSION.

PROJECT SPECIFIC MATERIAL AND CONNECTION INFORMATION 1. LUMBER: ALL WOOD FOR STRUCTURAL FRAMING SHALL BE:

- STRESS-GRADED, SURFACE DRIED NO. 2 OR BETTER. • FRAMING MEMBERS SHALL BE **HEM-FIR** WITH THE FOLLOWING MIN.
- Fb = 850 PSI Fc = 405 PSI (PERPENDICULAR TO GRAIN) Fv = 150 PSI Fc = 1,300 PSI (PARALLEL TO GRAIN) E = 1,300,000 PSI Ft = 525 PSI
- 2. ENGINEERED LUMBER: SHALL HAVE THE FOLLOWING MIN. VALUES: • PSL PARALLEL STRAND LUMBER BEAMS (2.0E) Fb = 2,900 PSI FOR 12" DEPTH FOR OTHER MULTIPLY BY [12/d]^0.12
 - Fv = 290 PSI
 - Fc = 750 PSI (PERPENDICULAR TO GRAIN) • Fc = 2,900 PSI (PARALLEL TO GRAIN)
 - E = 2,000,000 PSI
- LVL LAMINATED VENEER LUMBER BEAMS: Fb = 2,600 PSI FOR 12" DEPTH FOR OTHER MULTIPLY BY [12/d]^0.13 Fv = 285 PSI
- Fc = 750 PSI (PERPENDICULAR TO GRAIN)
- Fc = 2,510 PSI (PARALLEL TO GRAIN)
- E = 1.800.000 PSI
- LSL LAMINATED STRAND LUMBER BEAMS: • Fb = 2,325 PSI Fv = 310 PSI
- E = 1,550,000 PSI
- PSL POSTS PARALLEL STRAND LUMBER POSTS (1.8E) • Fc = 2,500 PSI E = 1,800,000 PSI
- 3. SHEATHING: ALL SHEATHING SHALL BE APA RATED SHEATHING MEETIN
- FOLLOWING MINIMUM SPECIFICATIONS, UNLESS NOTED OTHERWISE: ROOF SHEATHING SHALL BE EXPOSURE 1, 19/32" (5/8" NOMINAL) 40/2 RATING APA STRUCTURAL I RATED PLYWOOD SHEATHING. ROOF SH SHALL BE FASTENED TO SUPPORTING MEMBERS 8d COMMON WIRE (EDGES) & 12" O.C. (INTERMEDIATE SUPPORTS). ALL JOINTS IN SHEA SHALL BE STAGGERED. FOR ROOF SHEATHING, USE PANEL CLIPS, GROOVE, OR LUMBER BLOCKED EDGE SUPPORTS AS RECOMMENDE NAILING SHALL COMPLY WITH APA REQUIREMENTS FOR PLYWOOD DIAPHRAGMS.
- FLOOR SHEATHING SHALL BE EXPOSURE 1, 23/32" (3/4" NOMINAL) 48/ RATING APA STRUCTURAL I RATED PLYWOOD SHEATHING. PLYWOO GLUED AND SCREWED TO WOOD FRAMED FLOOR STRUCTURE. FLO SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS WITH # SCREWS AT 6" O.C. (EDGES) & 12" O.C. (INTERMEDIATE SUPPORTS). IN SHEATHING SHALL BE STAGGERED. ALL EDGES IN FLOOR SHEATH BE TONGUE & GROOVE.
- EXTERIOR WALL SHEATHING SHALL BE EXPOSURE 1, 7/16 (1/2" NOMI SPAN RATING APA STRUCTURAL I RATED PLYWOOD OR OSB WALL FASTEN TO SUPPORTING MEMBERS WITH 8d COMMON WIRE NAILS PENETRATION INTO STUDS) AT 6" O.C. (EDGES) & 12" O.C. (INTERME SUPPORTS), UNLESS NOTED GREATER AT SHEAR WALLS. PROVIDE 2 AT PANEL JOINTS.

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FOUNDATION NOTES

STANDARDS ALL FOUNDATION WORK SHALL CONFORM TO THE APPLICABLE CONCRETE WORK NOTES.

B. GEOTECHNICAL DATA

- 1. **REFERENCE:** FOUNDATIONS HAVE BEEN DESIGNED WITH CONFORMANCE TO THE GEOTECHNICAL ENGINEERING REPORT INDICATED IN FOUNDATION CRITERIA
- 2. SITE PREPARATION AND EXCAVATION WORK: SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.

FOUNDATION CRITERIA

| FOUNDATION CRITERIA | |
|-----------------------|-----------|
| GEOTECHNICAL ENGINEER | N/A |
| GEOTECH REPORT DATE | N/A |
| BEARING CAPACITY | 1,500 PSF |
| FROST DEPTH | 42" |

SHALLOW FOUNDATION

- . BEARING CAPACITY: BUILDING COLUMNS ARE TO BE SUPPORTED WITH SPREAD FOOTINGS. THE ADEQUACY OF THE BEARING STRATUM AND ALL FOOTING ELEVATIONS SHALL BE INSPECTED AND APPROVED, IN WRITING, BY A REGISTERED GEOTECHNICAL ENGINEER HIRED BY THE CONTRACTOR IMMEDIATELY PRIOR TO PLACING CONCRETE. WRITTEN APPROVAL SHALL SPECIFY THAT THE SOIL HAS THE CAPACITY TO SUPPORT THE DESIGNED BEARING PRESSURE
- 2. VERIFICATION OF SOIL CAPACITY: ALL FOOTING BOTTOMS SHALL BE INSPECTED AND APPROVED, IN WRITING, BY A REGISTERED SOILS ENGINEER PRIOR TO PLACING CONCRETE, WRITTEN APPROVAL SHALL SPECIFY THAT THE SOIL HAS THE CAPACITY TO SUPPORT THE DESIGNED BEARING PRESSURE. FOUNDATIONS SHALL NOT BEAR ON (OR ABOVE) EXISTING FILL MATERIALS.

FOUNDATION PLACEMENT

- **FROST DEPTH:** ALL EXTERIOR FOOTINGS SHALL BE PROTECTED FROM FROST BY EXTENDING BELOW THE FROST DEPTH PER FOUNDATION CRITERIA TABLE.
- 2. SUBGRADE: ALL FOUNDATION SUBGRADE PREPARATION AND CRUSHED STONE FILL BLANKETS BENEATH SLAB ON GRADE SHALL COMPLY WITH THE PROJECT'S GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- 3. DEWATERING: DEWATERING OF THE SITE. INCLUDING METHODS OF DEWATERING AND CALCULATIONS, DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL CONTROL SURFACE AND SUBSURFACE WATER DURING CONSTRUCTION SO THAT THE FOUNDATION WILL BE CONSTRUCTED ON DRY SOIL/ROCK.
- 4. FREEZING: NO FOUNDATION SHALL BE PLACED IN WATER OR FROZEN GROUND.
- 5. BACKFILL A. AROUND THE EXTERIOR OF WALLS (UNBALANCED) SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED (BRACED) BY THE COMPLETION OF THE
- INTERIOR FLOOR SYSTEMS AT BOTH THE BOTTOM AND TOP OF WALL B. DO NOT PROCEED WITH BACKFILL UNTIL SEVEN (7) DAYS AT A MINIMUM AFTER THE COMPLETION OF INTERIOR FLOOR SYSTEM INSTALLATION (CONCRETE)
- UNLESS WALLS ARE OTHERWISE TEMPORARILY SHORED/BRACED. 6. BACKFILL SHALL NOT BE PLACED UNTIL AFTER COMPLETION AND INSPECTION OF WATERPROOFING WHERE APPLICABLE.
- 7. MATERIAL ACCEPTANCE: ALL UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS AND BACKFILLED WITH ACCEPTABLE FILL ACCORDING TO THE SPECIFICATIONS AND COMPACTED TO THE SPECIFIED BEARING CAPACITY
- 8. REINFORCEMENT CONTINUITY: FOUNDATION WALLS AND FOOTINGS (OR CAPS) SHALL HAVE REINFORCEMENT KEPT CONTINUOUS THROUGH ELEMENTS SO ELEMENTS BEHAVE MONOLITHICALLY.
- 9. CENTERING: ALL FOOTINGS SHALL BE CENTERED DIRECTLY BELOW COLUMNS/WALLS WHICH THEY SUPPORT UNLESS OTHERWISE NOTED.

EXCAVATION SUPPORT - DESIGN AND PLACEMENT

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING ALL EXCAVATION PROCEDURES INCLUDING SHORING, BRACING SHEET PILING, LAGGING, UNDERPINNING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES PER LOCAL BUILDING DEPARTMENT REQUIREMENTS. PROJECT SPECIFIC CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER FOR REVIEW. INSTALLATION SHALL BE PERFORMED BY A SPECIALTY CONTRACTOR.

- 2. WALLS: PROVIDE ADEQUATE BRACING AND SHORING FOR BASEMENT, RETAINING AND PIT WALLS. BRACE BASEMENT AND PIT WALLS UNTIL SUPPORTING FLOORS ABOVE ARE IN PLACE AND HAVE ATTAINED DESIGN STRENGTH. DO NOT BACKFILL WALLS UNTIL AFTER FLOORS AT THE TOP AND BASE OF THE WALLS ARE IN PLACE. WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF A WALL, BACKFILL BOTH SIDES SIMULTANEOUSLY WITH THE GRADE DIFFERENCE NOT TO EXCEED 2'-0" AT ANY
- 3. UNDERCUTTING: IF EXCAVATION DEPTH AT FOOTING PROPOSED IS DEEPER THAN 2H:1V PROJECTED FROM EDGE OF ADJACENT EXISTING OR NEIGHBORING FOOTING, UNDERPINNING MAY BE REQUIRED. G.C. TO DETERMINE IF UNDERPINNING IS REQUIRED BEFORE CONSTRUCTION.
- 4. SURCHARGE: CANTILEVERED AND BASEMENT RETAINING WALLS ARE NOT DESIGNED FOR SURCHARGE LOADING ASSOCIATED WITH CONSTRUCTION TRAFFIC BEHIND THE WALL. PROVIDE ADEQUATE TEMPORARY BRACING TO RESIST LATERAL LOADS ASSOCIATED WITH MEANS AND METHODS OF CONSTRUCTION.

EXCAVATION SUPPORT - INSTALLATION

- 1. THE CONTRACTOR SHALL INSURE THAT EFFICIENT MEANS ARE PROVIDED TO PROPERLY TRANSFER EXTERNAL FORCES FROM THE SHEETING AND SHORING TO THE INTERNAL BRACING.
- 2. CONDITIONS OF NEARBY STRUCTURES THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE DOCUMENTED PRIOR TO SHEETING AND/OR SHORING, AND SHALL BE MONITORED DURING THE CONSTRUCTION.
- 3. ALL ABUTTING ENDS OF BRACING SHALL BE IN FULL BEARING ACROSS THE ENTIRE SECTION OF THE MEMBER.
- 4. BRACING SHALL BE INSTALLED (POSTED AND TIED) SO AS TO PREVENT SPREADING OR DISTORTION OF THE BRACED FRAMES.
- 5. BRACING SHALL CLEAR COLUMNS, FLOOR FRAMING ELEMENTS, AND OTHER PERMANENT WORK.
- 6. PROPERLY SUPPORT HORIZONTAL WALES TO PREVENT UNACCEPTABLE MOVEMENT OR OVERTURNING DUE TO THRUSTS FROM THE BRACING.
- 7. FILLERS AND WEDGES SHALL BE PROVIDED AS REQUIRED, BETWEEN THE SHEETING AND THE WALES AT THE TIME OF INSTALLATION OF EACH LEVEL OF BRACING, AND THE BRACING SYSTEM TO BE PROPERLY STRESSED AT ALL TIMES.
- 8. BRACING SHALL NOT BE CAST INTO PERMANENT CONCRETE, EXCEPT AS SPECIFICALLY APPROVED BY THE EOR. IN WHICH CASE, THE PROPER KEYS, CUTOFFS, WATERSTOPS AND WATERPROOFING MUST BE PROVIDED.
- 9. SHOULD IT BECOME NECESSARY TO MOVE A BRACE, A NEW BRACE SHALL BE INSTALLED PROPERLY PRIOR TO REMOVAL OF THE ORIGINAL BRACE.
- **EXCAVATION SUPPORT COMPLETION** 1. ALL BRACING SHALL BE MAINTAINED UNTIL STRUCTURAL ELEMENTS ARE RE-BRACED BY OTHER BRACING OR UNTIL THE PERMANENT FLOOR CONSTRUCTION IS ABLE TO WITHSTAND THE LATERAL EARTH AND GROUND WATER PRESSURES.
- 2. SHEETING AND SHORING RETAINING EARTH ON WHICH THE SUPPORT AND/OR STABILITY OF EXISTING STRUCTURES IS DEPENDENT, MUST BE LEFT IN PLACE AT THE COMPLETION OF THE WORK, AND SHALL BE STEEL OR CONCRETE.

CONCRETE NOTES

- A. CODES / STANDARDS 1. STANDARDS: CONCRETE WORK SHALL COMPLY WITH THE LATEST EDIT 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS"; ACI 31 CODE REQUIREMENTS FOR REINFORCED CONCRETE"; AND ACI 315 "ACI MANUAL". AND CRSI "MANUAL OF STANDARD PRACTICE".
- 2. STEEL: ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORM ASTM A615, GRADE 60 AND DETAILED ACCORDING TO THE ACI MANUAL STANDARD PRACTICE (ACE 315 LATEST EDITION) EPOXY COATED BARS SHALL BE COATED CONFORMING TO ASTM A73 ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A1064.
- 3. GROUT: NON-SHRINK GROUT (NON-METALLIC) CRD-C-621, FACTORY PRE GROUT SHALL BE "MASTERFLOW 713" BY MASTER BUILDERS OR APPRO INSTALLATION AND CURING SHALL CONFORM TO SUPPLIER'S REQUIREM GROUT SHALL EXPERIENCE NO SHRINKAGE AND HAVE A MAXIMUM OF 4 EXPANSION WHEN TESTED UNDER ASTM C-827 WITH A MINIMUM COMPF STRENGTH OF 5.000 PSI WHEN TESTED PER ASTM C-109. GROUT SHALL MINIMUM INITIAL SET TIME OF 60 MINUTES WHEN TESTED PER ASTM C-
- 4. CURING: CURE CONCRETE IMMEDIATELY AFTER FINISHING PER ACI 301, ACI 306R, AND ACI 308.

B. SHOP DRAWINGS / SUBMITTALS

- . SHOP DRAWINGS INCLUDING THE FOLLOWINGS SHALL BE SUBMITTED F AND APPROVAL PRIOR TO ANY FABRICATION. • REINFORCING DETAILS INCLUDING CONCRETE COVER, STEEL SIZES, TYPES, LAPS AND DIMENSIONS
- LOCATIONS OF ALL ANCHOR BOLTS, CONTROL JOINTS, CURBS, SLAB DEPRESSIONS, SLEEVES, INSERTS, BOXES, OPENINGS, ETC.
- LOCATIONS OF ALL CONSTRUCTION JOINTS; ENGINEER MAY REQUIR ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS.
- 2. FORMWORK CALCULATIONS PREPARED AND SEALED, IN WRITING, BY A REGISTERED PROFESSIONAL ENGINEER HIRED BY THE CONTRACTOR
- 3. DESIGN MIXES FOR EACH TYPE AND STRENGTH OF CONCRETE SHALL E SUBMITTED BY EITHER LABORATORY TRAIL BATCH OR FIELD METHODS IN ACI 301. MIX DESIGNS SHALL BE PREPARED BY AN INDEPENDENT TES FACILITY AND SHALL NOT BE SAME AS USED FOR FIELD TESTING.
- 4. MASS CONCRETE DEFINED AS A PLACEMENT OF STRUCTURAL CONCRE MINIMUM DIMENSION EQUAL TO OR GREATER THAN 4 FT. THERMAL COM SHALL BE PREPARED AND EXECUTED PER SECTION 8 OF ACI 301 AND AC OWNER'S CONCRETE TESTING LABORATORY IS RESPONSIBLE FOR INST MONITORING OF THERMOCOUPLES.
- 5. NO CONCRETE WORK SHALL COMMENCE WITHOUT APPROVED SHOP DI
- C. CONCRETE MIX INFORMATION FREEZE-THAW: ALL CONCRETE EXPOSED TO FREEZING AND THAWING 3 NORMAL WEIGHT (ASTM C33) READY MIX CONCRETE (ASTM C94).
- 2. CONCRETE STRENGTH & MIX DESIGN: ALL CAST-IN-PLACE CONCRETE S CONFORM TO THE FOLLOWING: 1" MIN. SLUMP, A/C (AIR CONTENT) BASE ACCRECATE NORMAL WEIGHT UNLESS NOTED OTHERWISE

| AG | GREGATE, NORMAL WEIGHT | UNLESS NOTED O | I HERVVISE. | |
|----|--------------------------------|----------------|-------------|-------|
| | LOCATION: | f'c @ 28 DAYS | A/C | MAX W |
| • | RETAINING WALLS | 5,000 PSI | 6% | 0.45 |
| • | FOUNDATION WALLS/PIERS | 5,000 PSI | 6% | 0.45 |
| • | EXTERIOR SLAB ON GRADE* | 5,000 PSI | 6% | 0.45 |
| • | GRADE BEAMS/PILE CAPS | 4,000 PSI | 2% | 0.55 |
| • | MAT FOUNDATIONS | 4,000 PSI | 2% | 0.55 |
| • | FOOTINGS | 3,500 PSI | 2% | 0.55 |
| • | INTERIOR SLAB ON GRADE* | 3,500 PSI | 2% | 0.55 |
| • | NW SLABS ON METAL DECK* | 3,500 PSI | 2% | 0.55 |
| • | LW SLABS ON METAL DECK* | 3,500 PSI | 4 - 7% | 0.55 |
| • | PARKING STRUCTURE* | 5,000 PSI | 6% | 0.40 |
| | | | | |

2% A/C INDICATES ENTRAPPED AIR IN NON-AIR ENTRAINED CONCRE

* AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL CONTAIN A CORRC

INHIBITIVE ADMIXTURE, WR GRADE DCI-S OR EQUAL (3GAL/CY) 3. CALCIUM CHLORIDE: NO CALCIUM CHLORIDE SHALL BE USED IN ANY CC

- D. REINFORCEMENT
- REINFORCEMENT SHALL NOT BE FIELD CUT, UNLESS OTHERWISE INDIC REINFORCEMENT SHALL BE COLD BENT. HEATING REINFORCEMENT IS PROHIBITED. RE-BENDING REINFORCING IS PROHIBITED.
- 2. BAR SUPPORT: PROVIDE BAR SUPPORTS AND SPACERS PER ACI 315 AN "MANUAL OF STANDARD PRACTICE." ALL BAR SUPPORTS IN CONTACT V EXPOSED SUBSURFACE SHALL HAVE PLASTIC TIPPED FEET. CONTRAC EXERCISE CARE TO PREVENT EXPOSURE OF TIE WIRED OR OTHER MAT THAT MAY STAIN EXPOSED CONCRETE. ALL REINFORCEMENT SHALL MA PROPER COVER AND SECURELY HELD IN PLACE DURING CONCRETE PL/
- 3. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FO
- UNLESS NOTED OTHERWISE: ALL CONCRETE PERMANENTLY CAST AGAINST EARTH ALL CONCRETE EXPOSED TO EARTH/WEATHER (≥ #6)
- ALL CONCRETE EXPOSED TO EARTH/WEATHER (≤ #5) SLAB ON GRADE (WELDED WIRE FABRIC) BEAM STIRRUPS, COLUMN & PIER TIES, NOT EXPOSED
- SLABS, WALLS & JOISTS, NOT EXPOSED (≤ #11) CONCRETE ON METAL DECK, NOT EXPOSED
- 4. WELDED WIRE FABRIC (WWF) SHALL BE PROVIDED IN FLAT SHEETS SUP CONTINUOUS SLAB BOLSTERS AND LAPPED 1.5 X MESH SPACES OR MIN

5. DEVELOPMENT & LAP SPLICE TABLE: ALL LAP SPLICES SHALL BE CLAS UNLESS NOTED OTHERWISE.

| | TENSION L | AP SPLICE | COMPRES | SSION |
|-----|---------------|---------------|--------------|--------------|
| BAR | CLASS "A" | CLASS "B" | DOWEL EMBED. | LAP SPLICE |
| | <u>1.0*Ld</u> | <u>1.3*Ld</u> | <u>22*db</u> | <u>30*db</u> |
| #3 | 15 | 19 | 9 | 12 |
| #4 | 19 | 27 | 11 | 15 |
| #5 | 25 | 31 | 14 | 19 |
| #6 | 29 | 38 | 17 | 23 |
| #7 | 43 | 55 | 19 | 26 |
| #8 | 48 | 63 | 22 | 30 |
| #9 | 54 | 71 | 25 | 34 |
| #10 | 61 | 80 | 28 | 38 |
| | | | | |

TABULATED VALUES ARE BASED ON THE FOLLOWING ASSUMPTIONS NORMAL WEIGHT & 4,000 PSI CONCRETE STRENGTH A MINIMUM CLEAR COVER AS SHOWN IN GENERAL NOTES. • A MINIMUM CLEAR SPACING OF 3" BETWEEN ANY BARS.

MULTIPLY THE TABULATED VALUES BY MODIFICATION FACTORS BELOW APPLICABLE FOR OTHER CONCRETE TYPES, STRENGTHS AND CONDITIO MODIFICATION FACTORS ARE CUMULATIVE. • F'c= 3 ksi, x 1.16

- F'c= 5 ksi, x 0.90
- LIGHT WEIGHT CONCRETE, x1.3 EPOXY-COATED BARS, x1.5
- CLEAR SPACING < 2*db & CLEAR OVER < db, x1.5

| ST EDITIONS OF: ACI ACI 318 "BUILDING | E. | POST-INSTALLED ANCHORS REBAR: WHEN INSTALLING ANCHORS CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING/CUTTING ANY EXISTING REINFORCEMENT AND DESTRUCTION OF CONCRETE. HOLES SHALL BE CLEANED PER SUPPLIER REQUIREMENTS PRIOR TO SETTING/PLACEMENT. | A. <u>CODES / STANDARDS</u> : ALL CONCRETE MASONRY CONSTRUCTION SHALL COM |
|--|----|---|---|
| 15 "ACI DETAIL | | • EXPANSION BOLTS SHALL CONFORM TO HILTI KWIK BOLT TZ OR APPROVED EQUAL UNLESS NOTED OTHERWISE. | WITH: • THE "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD-I CONCRETE MASONRY" PUBLISHED BY THE NATIONAL CONCRETE MASO |
| ANUAL OF STM A775. | | ADHESIVE ANCHORS SHALL CONFORM TO HILIT HY-200 ADHESIVE ANCHORING SYSTEM OR APPROVED EQUAL WITH THREADED ROD A193 GRADE B7. | ASSOCIATION. • BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES"- ACI 530/ASCE 5-05/TMS 402 AND ACI 530.1/ASCE 6-05/TM |
| A1064. ORY PRE-MIXED APPROVED EQUAL. QUIREMENTS. ALL IM OF 4.0% COMPRESSIVE | F. | PLACEMENT 1. OPENINGS AND PENETRATION LOCATION AND DIMENSIONS SHALL BE VERIFIED AND COORDINATED <u>BEFORE</u> THE CONCRETE IS POURED. MINIMUM DISTANCE BETWEEN SLEEVES IS THE GREATER OF SLEEVE DIAMETER OR 6 INCHES. OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS REQUIRE APPROVAL FROM STRUCTURAL ENGINEER IN WRITING PRIOR TO FIELD CUTTING/CORING SINCE ADDITIONAL REINFORCEMENT MAY BE REQUIRED. | B. <u>SHOP DRAWINGS / SUBMITTALS</u> 1. REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS. C. <u>MATERIAL INFORMATION</u> 1. <u>f'm PRISM STRENGTH:</u> MASONRY ASSEMBLY SHALL HAVE A NET AREA COMPRESSIVE STRENGTH (f'm) OF <u>2,500 PSI</u> MINIMUM. |
| SHALL HAVE A STM C-191. ACI 301, ACI 305R, | | 2. CHAMFER: EXPOSED EDGES SHALL BE CHAMFERED 1/2", UNLESS NOTED OTHERWISE. | 2. BLOCK MATERIAL: ALL CONCRETE MASONRY UNITS SHALL BE <u>NORMAL V</u> <u>GRADE N</u> , COMPLYING WITH ASTM C90. NET AREA COMPRESSIVE STRENC INDIVIDUAL CONCRETE MASONRY UNIT SHALL BE <u>3,250 PSI</u> MINIMUM. |
| TTED FOR REVIEW | | 3. EMBEDDED ITEMS SHALL BE COORDINATED WITH OTHER TRADE DOCUMENTATION BY THE CONTRACTOR. NO CONDUITS MAY BE EMBEDDED IN CONCRETE. SET AND BUILD ANCHOR DEVICES AND EMBEDDED ITEMS REQUIRED FOR OTHER WORK THAT IS ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE CONCRETE. USE | MORTAR: MORTAR FOR ALL CONCRETE MASONRY MUST BE <u>TYPE S</u> CEME MORTAR PER ASTM C270. GROUT: GROUT FOR GROUT FILLED MASONRY SHALL BE A HIGH SLUMP M |
| . SIZES, BEND S, SLAB, | | SETTING DIAGRAMS, TEMPLATES, AND INSTRUCTIONS PROVIDED BY OTHERS FOR LOCATION AND SETTING. 4. FLOOR SLABS: | CONFORMING TO ASTM C476 AND SHALL ATTAIN A MINIMUM COMPRESSIV STRENGTH OF <u>3,000 PSI</u> AT 28 DAYS FROM FIELD OBTAINED TEST CYLINDE 5. JOINT REINFORCEMENT: CONCRETE MASONRY UNITS SHALL BE CONSTRU |
| REQUIRE | | a. COORDINATION: CONTRACTOR SHALL COORDINATE DEPRESSIONS FOR FLOOR FINISHES, FLOOR DRAINS, CURBS, CONCRETE PADS, INSERTS, AND WELDED PLATES WITH ALL OTHER TRADE DOCUMENTATION. | WITH HORIZONTAL JOINTS REINFORCED WITH HOT-DIPPED GALVANIZED <u>L</u> <u>TYPE</u> REINFORCEMENT (ASTM A153 CLASS B-2). |
| G, BY A CTOR. | | b. 28-DAY STRENGTH SHALL BE ATTAINED BEFORE POURING ANY TOPPING SLAB, OR BEFORE ANY MASONRY OR CONCRETE WALL IS ERECTED ON TOP. | REINFORCEMENT: SEE CONCRETE NOTES FOR REINFORCING STEEL REQUIREMENTS, STANDARDS AND SPECIFICATIONS FOR ADDITIONAL NOT PROVIDE LAP SPLICES OF NO LESS THAN 40 BAR DIAMETERS OR 24 INCHE REINFORCEMENT. |
| HALL BE THODS SPECIFIED NT TESTING | | c. FLATNESS & LEVELNESS OF CONCRETE FLOOR SHALL BE AS FOLLOWS U.N.O. <u>SLAB ON GRADE</u>: F(F) 35, F(L) 25, MINIMUM LOCAL F(F)=24, F(L) 18 <u>ELEVATED FLOOR</u>: F(F) 30 | BRICK MASONRY: ALL BRICK MASONRY UNITS SHALL BE GRADE SW PER A WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AND BONDED TO WITH TYPE S MORTAR. |
| ONCRETE WITH A IAL CONTROL PLAN AND ACI 207. THE | 5 | d. THE CONTRACTOR SHALL PROVIDE CORRECTIVE MEASURES TO MEET REQUIREMENTS FOR ASTM E1155 AND PROJECT SPECIFIC PARTITIONS. COLD JOINTS SHALL BE ROUGHENED TO AN AMPLITUDE OF 1/4 INCH FOR THE | D. <u>PLACEMENT</u>: LAY CONCRETE MASONRY UNITS AS FOLLOWS: A. GROUT SOLID ALL MASONRY BELOW GRADE. |
| OR INSTALLING AND | 0. | ENTIRE INTERSECTING SURFACE ACCORDING TO ACI RECOMMENDATIONS AND APPLY A BONDING AGENT AS REQUIRED. DO NOT LOCATE CONSTRUCTION JOINTS (COLD JOINTS) BELOW TERRAZZO FLOOR FINISHES. | B. GROUT SOLID MINIMUM OF (2) COURSES BELOW ALL BEARING POINTS ON WALL INCLUDING STAIR STRINGERS, LANDING BEAMS, AND ELEVATOR HO DIVIDER BEAMS. |
| AWING SHALL BE | 6. | WALL JOINTS: EXPANSION: WALLS EXCEEDING 90 FEET SHALL CONTAIN EXPANSION JOINTS AT | C. WITH FULL BED OF MORTAR COVERAGE ON HORIZONTAL AND VERTICAL F SHELLS FOR HOLLOW MASONRY UNITS/CAVITIES. |
| RETE SHALL | | 90 FEET ON CENTERS. CONTROL JOINTS: SHALL BE LOCATED AT RECOMMENDED SPACING BELOW, AT ABRUPT CHANGES IN WALL HEIGHT OR THICKNESS, BUT NOT EXCEEDING 30' - 0" O.C. | D. BED WEBS IN MORTAR IN STARTING COURSE ON FOOTING AND IN ALL COUPIERS, COLUMNS AND PILASTERS, AND WHERE ADJACENT TO CELLS OR CONTO BE FILLED WITH GROUT. |
| IT) BASED ON 3/4" AX W/C 45 | | WALL HEIGHT BETWEEN 8 FT AND 12 FT XWALL HEIGHT XWALL HEIGHT | E. FOR STARTING COURSE ON FOOTING WHERE CELLS ARE NOT GROUTED, OUT FULL MORTAR BED INCLUDING AREAS UNDER CELLS. |
| 45 | | 12 FT OR GREATER 1X WALL HEIGHT CONSTRUCTION JOINTS: SHALL BE LOCATED AT: 60' - 0" O.C. MAXIMUM FOR NON-EXPOSED WALLS | F. MAINTAIN JOINT WIDTHS INDICATED, EXCEPT FOR MINOR VARIATIONS REC MAINTAIN BOND ALIGNMENT. IF NOT INDICATED, LAY WALLS WITH 3/8" JO |
| 45 55 55 55 55 | | 30' - 0"' O.C. MAXIMUM FOR EXPOSED WALLS NOT LESS THAN 4' - 0" AWAY FROM FACE OF SUPPORTIVE PIER, BUTTRESS OR WALL OPENINGS. CORNERS: JOINTS SHALL BE LOCATED NO FURTHER THAN 15'-0" FROM | G. USE THE "HIGH LIFT" GROUTING METHOD WITH MAXIMUM LIFT HEIGHTS OF |
| 55 55 40 | 7 | CORNERS: JOINTS SHALL BE LOCATED NO FORTHER THAN 15-0 FROM CORNERS. HORIZONTAL JOINTS ARE NOT PERMITTED IN BEAMS, WALLS, AND SLABS UNLESS | AND HOLLOW MASONRY UNITS DESIGNATED AS SOLID GROUTED IN THE DRAWINGS. MORTAR <u>SHALL NOT</u> BE USED TO FILL CELLS. |
| DNCRETE. | | SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER PRIOR TO CONSTRUCTION. | I. ALL CUTTING OF MASONRY SHALL BE DONE WITH MASONRY SAWS. J. WALLS SHALL BE PROPERLY BRACED AGAINST LATERAL LOADS UNTIL THI |
| CORROSION () ANY CONCRETE. | | <u>DRMWORK AND SHORING</u> FORMWORK SHALL CONFORM TO THE LATEST EDITIONS OF ACI SPECIAL PUBLICATION NO. 4 "FORMWORK FOR CONCRETE" AND ACI 347 "STANDARD RECOMMENDED PRACTICE FOR CONCRETE FORMWORK". | PERMANENT LATERAL BRACES OR OTHER LATERAL SUPPORT SYSTEMS F INSTALLED. K. CONCRETE MASONRY SHALL BE PROTECTED FROM ABSORBING MOISTUR |
| E INDICATED. ENT IS | 2. | SUBMIT FORMWORK AND SHORING DESIGN AND DETAIL DRAWINGS CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER. | WATER WHILE AT THE PLANT, DURING SHIPMENT, AND AT THE SITE DURIN CONSTRUCTION. |
| I 315 AND CRSI | 3. | LOADS GREATER THAN THE DESIGN LIVE LOADS SHALL NOT BE PLACED ON ANY PART OF THE STRUCTURE. | L. MASONRY FACADE SUSPENDED FROM OR SUPPORTED ON CONCRETE SL BEAMS SHALL NOT BE ERECTED UNTIL PERMANENT ALIGNMENT AND ANC OF SHELF ANGLES AND SUSPENDED HARDWARE IS COMPLETED, ALL TEM AND PERMANENT BRACING (WHERE REQUIRED) IS INSTALLED AND ALL SH |
| TACT WITH NTRACTOR MUST ER MATERIALS HALL MAINTAIN | | SHORING AND WALL BRACING SHALL REMAIN UNTIL AT MINIMUM 75% OF 28-DAY DESIGN STRENGTH IS REACHED. | AND RE-SHORES ARE REMOVED. MASONRY SUPPORTED BY STEEL MEME SHALL NOT BE ERECTED UNTIL PERMANENT ANCHORAGE AND BRACING S HAVE BEEN INSTALLED. |
| ETE PLACEMENT. E AS FOLLOWS, 3" 2" 1 1/2" | 5. | UNTIL THE CONCRETE HAS ATTAINED FULL 28-DAY DESIGN STRENGTH AND VERIFIED BY AN APPROPRIATE ASTM STANDARD TEST METHOD, DO NOT REMOVE FORMWORK OR SHORING OF HUNG STRUCTURE BELOW. RE- SHORE HUNG STRUCTURE AS NEEDED. DO NOT REMOVE RE-SHORING. DO NOT PLACE FULL DESIGN LOAD ON THE STRUCTURE. DO NOT PLACE MASONRY WALLS, PARAPETS, ETC. ON ANY PART OF THE STRUCTURE. | E. <u>WALL JOINTS</u> 1. PROVIDE VERT. CONTROL JOINTS IN BEARING & NON-LOAD BEARING CON MASONRY WALLS AT FOLLOWING: SPACED 25' - 0" O.C. MAXIMUM THROUGHOUT LENGTH OF WALL AT CHANGES IN WALL HEIGHT OR THICKNESS AT PILASTERS, PIERS OR COLUMNS ADJACENT TO CORNERS AND INTERSECTIONS (WITHIN 12' - 6") |
| 2" 1 1/2" 3/4" 1" | 6. | AT LEAST 1 FLOOR SHALL BE FULLY FORMED AND SHORED WITH A MINIMUM OF 3 FLOORS BELOW RE-SHORED AT ANY GIVEN TIME. ADDITIONAL SHORING AND RE- SHORING SHALL BE PROVIDED AS INDICATED BY THE SHORING DESIGN REQUIREMENTS. | AT OPENINGS WITH MASONRY LINTELS AT LEAST 2' - 0" AWAY EA. SIDE AT EACH END OF STEEL LINTELS (ABOVE ONLY). 2. CONTROL JOINTS SHALL EXTEND THROUGH ENTIRE WALL THICKNESS FC WALL HEIGHT. |
| TS SUPPORTED ON OR MINIMUM OF 6". | 7. | REQUIREMENTS. RE-SHORE POSTS SHALL BE PLACED AT THE INTERSECTION OF THE COLUMN AND MIDDLE STRIP LINES IN EACH DIRECTION, WITH INTERMEDIATE POSTS AS | BOND BEAM REINFORCEMENT TO BE CONTINUOUS, WRAP BARS IN GREAS COATED WRAP OR PROIVDE JOINT STABILZER ANCHORS. |
| E CLASS "B", | | REQUIRED. VERTICALL ALIGN RE-SHORE'S TO PROVIDE CONTINUOUS SUPPORT FROM FLOOR TO FLOOR. RE-SHORES MUST BE SNUG TO SLABS, BUT NOT TIGHT ENOUGH TO ADD ADDITIONAL LOADS. RE-SHORING SHALL SUPPORT EACH PANEL INDEPENDENTLY AS IT IS STRIPPED BEFORE REMOVING FORMS FROM ADJACENT PANELS OR RE-STORES SHALL BE INSTALLED PRIOR TO REMOVAL OF SHORES AND | 4. HORIZONTAL JOINT REINFORCEMENT SHALL BE INTERRUPTED. F. VERTICAL REINFORCEMENT 1. PROVIDE VERTICAL REINFORCEMENT IN GROUTED CELLS AS FOLLOWS: |
| ŀ | | ELD TESTING UNLESS OTHERWISE PER CONTRACT DOCUMENTS, CAST THREE (3) CONCRETE TEST CYLINDERS (4" DIA x 8" HIGH) FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED FOR TESTING AT 7, 14 AND 28 DAYS AND ONE SET OF ONE CYLINDER FOR | MINIMUM WALL REINFORCEMENT OF #4@48" O.C SHALL BE PROVIDED. DETAILS AND SHEET NOTES FOR INCREASED REINFORCEMENT BASED SPAN/LOADING. VERTICAL REINFORCING SHALL BE ANCHORED INTO SUPPORTING SLA BEAMS BELOW WITH TENSION EMBEDMENT LENGTH. ALL OTHER INTERIOR NON-LOAD BEARING WALLS SHALL BE DETAILED AND |
| | | 56 DAY VERIFICATION. ADDITIONAL CYLINDERS MAY BE TAKEN AND TESTED FOR HIGH EARLY STRENGTH REQUIREMENTS SHOULD THE CONTRACTOR REQUIRE THEM (IE WALL STRENGTH OR SHORING REMOVAL). | REINFORCED PER THE TYPICAL DETAILS SHEET. G. <u>HORIZONTAL REINFORCEMENT</u> 1. PROVIDE JOINT REINFORCEMENT AS FOLLOWS: |
| ONS | 2. | AT THE TIME OF CASTING EACH SET OF TEST CYLINDERS, SAMPLE CONCRETE PER ASTM C172 AND MEASURE THE FOLLOWING AT THE POINT OF CONCRETE PLACEMENT: • AMBIENT TEMPERATURE | <u>8" CMU</u>: LADDER REINFORCEMENT WITH 9 GAUGE SIDE RODS AND CRO <u>12" CMU</u>: LADDER REINFORCEMENT WITH 3/16"Ø SIDE RODS AND 9 GAU CROSS RODS. |
| BELOW AS ONDITIONS. | - | CONCRETE TEMPERATURE UNIT WEIGHT PER ASTM C-138 SLUMP PER ASTM C-143 | LOCATIONS: JOINT REINFORCEMENT SHALL BE PROVIDED AT FOLLOWING COORDINATE WITH CONTROL JOINT LOCATIONS ON ARCHITECTURAL AND STRUCTURAL DRAWINGS. TYPICAL 16" O.C. CONTINUOUS AT ALL CMULWALLS (U.N.O. AT SHEAR WALLS) |
| | | AIR CONTENT PER ASTM C-173 OR ATM C-231 EVALUATE SLAB FLOOR FLATNESS AND PER ASTM E1155. | TYPICAL 16" O.C. CONTINUOUS AT ALL CMU WALLS (U.N.O. AT SHEAR W AT FLOOR OR ROOF: @ 8" O.C. FOR 3 COURSES AT PARAPETS: @ 8" O.C. AT CORNERS & TINTERSECTIONS: 2' - 8" LONG E W @ 8" O.C. REINEOR |
| | 5. | POST-INSTALLED ANCHORS SHALL BE INSPECTED PER IBC SPECIAL INSPECTION REQUIREMENTS AND BE CONTINIOUSLY INSPECTED DURING PLACEMENT. | AT CORNERS & T INTERSECTIONS: 2' - 8" LONG E.W. @ 8" O.C. REINFOF SHALL BE SHOP FABRICATED AND CONTINUOUS AROUND ALL CORNEF INTERSECTIONS. |

<u>MASONRY NOTES</u>

- **NDARDS: ALL CONCRETE MASONRY CONSTRUCTION SHALL COM** SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD-RETE MASONRY" PUBLISHED BY THE NATIONAL CONCRETE MAS
- CIATION ING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY CTURES"- ACI 530/ASCE 5-05/TMS 402 AND ACI 530.1/ASCE 6-05/TM
- <u>INGS / SUBMITTALS</u> SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

- **I STRENGTH:** MASONRY ASSEMBLY SHALL HAVE A NET AREA SSIVE STRENGTH (f 'm) OF 2,500 PSI MINIMUM.
- IATERIAL: ALL CONCRETE MASONRY UNITS SHALL BE NORMAL V . COMPLYING WITH ASTM C90. NET AREA COMPRESSIVE STREND AL CONCRETE MASONRY UNIT SHALL BE 3,250 PSI MINIMUM.
- : MORTAR FOR ALL CONCRETE MASONRY MUST BE **<u>TYPE S</u>** CEME PER ASTM C270.
- GROUT FOR GROUT FILLED MASONRY SHALL BE A HIGH SLUMP M MING TO ASTM C476 AND SHALL ATTAIN A MINIMUM COMPRESSIV H OF <u>3,000 PSI</u> AT 28 DAYS FROM FIELD OBTAINED TEST CYLINDE
- INFORCEMENT: CONCRETE MASONRY UNITS SHALL BE CONSTRU RIZONTAL JOINTS REINFORCED WITH HOT-DIPPED GALVANIZED I NFORCEMENT (ASTM A153 CLASS B-2).
- **CEMENT:** SEE CONCRETE NOTES FOR REINFORCING STEEL MENTS, STANDARDS AND SPECIFICATIONS FOR ADDITIONAL NOT LAP SPLICES OF NO LESS THAN 40 BAR DIAMETERS OR 24 INCHE CEMENT.
- ASONRY: ALL BRICK MASONRY UNITS SHALL BE GRADE SW PER / INIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AND BONDED TO PE S MORTAR.
- : LAY CONCRETE MASONRY UNITS AS FOLLOWS: OLID ALL MASONRY BELOW GRADE.
- OLID MINIMUM OF (2) COURSES BELOW ALL BEARING POINTS ON LUDING STAIR STRINGERS, LANDING BEAMS, AND ELEVATOR HO
- BED OF MORTAR COVERAGE ON HORIZONTAL AND VERTICAL I OR HOLLOW MASONRY UNITS/CAVITIES.
- IS IN MORTAR IN STARTING COURSE ON FOOTING AND IN ALL CO DLUMNS AND PILASTERS, AND WHERE ADJACENT TO CELLS OR C LED WITH GROUT.
- RTING COURSE ON FOOTING WHERE CELLS ARE NOT GROUTED, _ MORTAR BED INCLUDING AREAS UNDER CELLS.
- I JOINT WIDTHS INDICATED, EXCEPT FOR MINOR VARIATIONS REC
- BOND ALIGNMENT. IF NOT INDICATED, LAY WALLS WITH 3/8" JO
- HALL BE USED AS FILLING FOR VERTICAL CAVITIES, BOND BEAMS LOW MASONRY UNITS DESIGNATED AS SOLID GROUTED IN THE GS. MORTAR **SHALL NOT** BE USED TO FILL CELLS.
- TING OF MASONRY SHALL BE DONE WITH MASONRY SAWS.
- HALL BE PROPERLY BRACED AGAINST LATERAL LOADS UNTIL TH ENT LATERAL BRACES OR OTHER LATERAL SUPPORT SYSTEMS F
- TE MASONRY SHALL BE PROTECTED FROM ABSORBING MOISTUR /HILE AT THE PLANT, DURING SHIPMENT, AND AT THE SITE DURIN JCTION.
- ' FACADE SUSPENDED FROM OR SUPPORTED ON CONCRETE SL HALL NOT BE ERECTED UNTIL PERMANENT ALIGNMENT AND ANC ANGLES AND SUSPENDED HARDWARE IS COMPLETED, ALL TEM MANENT BRACING (WHERE REQUIRED) IS INSTALLED AND ALL SH HORES ARE REMOVED. MASONRY SUPPORTED BY STEEL MEMB OT BE ERECTED UNTIL PERMANENT ANCHORAGE AND BRACING S EN INSTALLED.

- VERT. CONTROL JOINTS IN BEARING & NON-LOAD BEARING CON WALLS AT FOLLOWING:
- ED 25' 0" O.C. MAXIMUM THROUGHOUT LENGTH OF WALL IANGES IN WALL HEIGHT OR THICKNESS
- ASTERS, PIERS OR COLUMNS
- CENT TO CORNERS AND INTERSECTIONS (WITHIN 12' 6") ENINGS WITH MASONRY LINTELS AT LEAST 2' - 0" AWAY EA. SIDE
- CH END OF STEEL LINTELS (ABOVE ONLY).
- JOINTS SHALL EXTEND THROUGH ENTIRE WALL THICKNESS FO
- AM REINFORCEMENT TO BE CONTINUOUS, WRAP BARS IN GREAS
- WRAP OR PROIVDE JOINT STABILZER ANCHORS.
- TAL JOINT REINFORCEMENT SHALL BE INTERRUPTED

INFORCEMENT

- VERTICAL REINFORCEMENT IN GROUTED CELLS AS FOLLOWS: UM WALL REINFORCEMENT OF #4@48" O.C SHALL BE PROVIDED. LS AND SHEET NOTES FOR INCREASED REINFORCEMENT BASED LOADING.
- CAL REINFORCING SHALL BE ANCHORED INTO SUPPORTING SLA S BELOW WITH TENSION EMBEDMENT LENGTH
- ER INTERIOR NON-LOAD BEARING WALLS SHALL BE DETAILED ANI CED PER THE TYPICAL DETAILS SHEET.

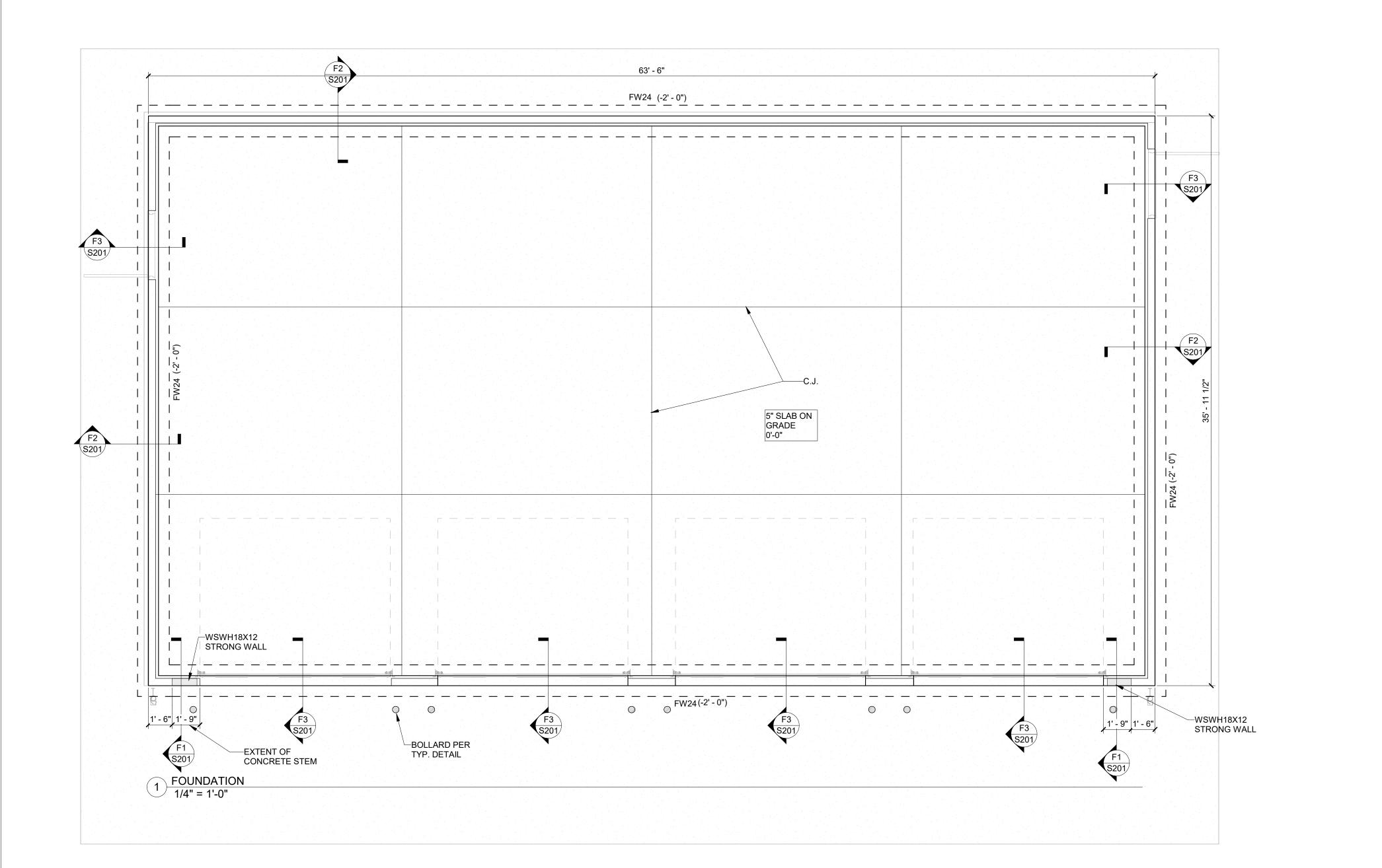
<u>REINFORCEMENT</u> JOINT REINFORCEMENT AS FOLLOWS:

- : LADDER REINFORCEMENT WITH 9 GAUGE SIDE RODS AND CRO IU: LADDER REINFORCEMENT WITH 3/16"Ø SIDE RODS AND 9 GAU
- NS: JOINT REINFORCEMENT SHALL BE PROVIDED AT FOLLOWING IATE WITH CONTROL JOINT LOCATIONS ON ARCHITECTURAL AND JRAL DRAWINGS.
- AL 16" O.C. CONTINUOUS AT ALL CMU WALLS (U.N.O. AT SHEAR W DOR OR ROOF: @ 8" O.C. FOR 3 COURSES
- RAPETS: @ 8" O.C. RNERS & T INTERSECTIONS: 2' - 8" LONG E.W. @ 8" O.C. REINFOF
- BE SHOP FABRICATED AND CONTINUOUS AROUND ALL CORNER SECTIONS. AT HORIZONTAL JOINTS

3. PLACEMENT:

- REINFORCEMENT SHALL BE COMPLETELY EMBEDDED IN MORTAR WITH MINIMUM COVER OF 5/8" WHEN EXPOSED TO EARTH OR WEATHER AND WHEN NOT EXPOSED TO EARTH OR WEATHER.
- REINFORCEMENT TO BE FURNISHED IN 10 TO 20 FEET LENGTH FLAT SE
- THE DISTANCE BETWEEN WELDED CONTACTS OF CROSS RODS (DIAG) WITH EACH LONGITUDINAL WIRE SHALL NOT EXCEED 6" AND 16" FOR S AND DEFORMED LONGITUDINAL WIRES RESPECTIVELY.

| | | DATE | ISSUED FOR | RE |
|--|--|---|--|-------|
| H MPLY BEARING | TIES : ADJUSTABLE ANCHORS FOR ATTACHING MASONRY VENEER TO THE STRUCTURAL FRAME OR WALL SHALL CONFORM TO: 1. TWO-PIECE ASSEMBLIES ALLOWING VERTICAL AND HORIZONTAL DIFFERENTIAL MOVEMENT BETWEEN WALL AND FRAME WORK PARALLEL TO PLANE OF WALL, BUT RESISTING TENSION OR COMPRESSION FORCES PERPENDICULAR TO IT | 2024-04-23 PI | ERMIT AND BID SUBMISSION | _ 1 |
| ONRY 1S 602. | IT MUST BE CAPABLE OF WITHSTANDING A <u>100 LB</u> LOAD IN EITHER TENSION OR COMPRESSION WITHOUT DEFORMING, OR DEVELOPING PLAY IN EXCESS OF 0.05 OF | | | |
| 10 002. | AN INCH. 3. SPACE ADJUSTABLE TIES AT 16" ON CENTER VERTICALLY AND HORIZONTALLY. | | | |
| I. | PROVIDE FLEXIBLE MASONRY TIES ON ALL STEEL BEAMS AND COLUMNS THAT INTERFACE OR ABUT ANY MASONRY. USE 3/16"Ø TRIANGULAR TYPE TIES. SPACE AT 16" VERTICALLY AND HORIZONTALLY. | | | |
| J. <u>WEIGHT,</u> GTH OF | LINTELS 1. MOVEMENT: TO FACILITATE LINTEL MOVEMENT, THE BEARING OF AT LEAST ONE END OF EACH LINTEL SHOULD BE BUILT TO SLIDE. PLASTIC, BITUMINOUS SHEETS, NEOPRENE OR OTHER SUITABLE MATERIAL SHOULD BE USED FOR A SLIP PLATE. | 4 | | 0 |
| ENT-LIME | 2. STEEL LINTELS: DOUBLE LINTELS & SPACERS SHALL BE WELDED TO EACH OTHER AT 12" O.C. MAX. | | been prepared solely for the use of | |
| /IX J. /E ERS. UCTED LADDER | EXPANSION & ADHESIVE ANCHORS 1. ANCHORING MATERIALS, INCLUDING NUTS & WASHERS, SHALL CONFORM TO THE SUPPLIER SPECIFICATIONS PERDRAWINGS. SUBSTITUTIONS MAY BE MADE PROVIDED THAT ALL MATERIAL PROPERTIES AND ALLOWABLE CAPACITIES ARE SHOWN TO BE EQUAL TO, OR IN EXCESS OF, THE SUPPLIER INDICATED ON DRAWINGS. SUBSTITUTIONS SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR APPROVAL. | of any kind made has not entered i This drawing sha | Il not be used for construction purpo | NORR |
| TES. ES FOR ALL | INSTALLATIONS PROCEDURES SHALL BE IN ACCORDANCE WITH SUPPLIER SPECIFICATIONS AND ALLOWABLE TOLERANCES. ALL EMBEDMENT DEPTHS SHALL BE "STANDARD" DEPTH PER SUPPLIER, U.N.O. | Architect or Engi Project Compone | | |
| ASTM C216 DGETHER | 3. CONTRACTOR IS TO LOCATE EXISTING REBAR PRIOR TO ANCHOR INSTALLATION AND/OR FABRICATION OF ASSOCIATED PLATE. ANY CHANGE TO ANCHOR LAYOUT SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR APPROVAL. CUTTING OF REBAR IS NOT PERMITTED. | Key Plan | | - 2 |
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FOUNDATION SHEET NOTES

 ELEVATION: TOP OF SLAB SHALL BE +0'-0" AS REFERENCED FROM DATUM OF <u>XXX.0'</u>. FOLLOWING ELEVATIONS ARE RELATIVE TO TOP OF SLAB ELEVATION = 0'-0":

- a. T.O. SLAB +/-x'-x" INDICATES TOP OF SLAB
- b. [+/-x'-x"] INDICATES TOP OF PIER, TYPICAL [-1'-0"] U.N.O.
 c. (+/-x'-x") INDICATES TOP OF FOOTING
- ALL INTERIOR FOOTINGS ARE TYPICAL (<u>-1'-0"</u>) U.N.O.,
 EXTERIOR FOOTINGS ARE PER PLAN MARKS.

 SLAB ON GRADE SHALL BE <u>5"</u> THICK REINFORCED WITH WELDED WIRE FABRIC <u>WWF 6x6-</u> <u>W2.9xW2.9</u> POURED OVER VAPOR BARRIER AND CLEAN COMPACTED STONE FILL PER GEOTECHNICAL RECOMMENDATIONS.

3. **REFERENCE:** FOUNDATIONS HAVE BEEN DESIGNED WITH CONFORMANCE TO THE GEOTECHNICAL ENGINEERING REPORT INDICATED IN FOUNDATION CRITERIA TABLE.

FOUNDATION CRITERIA

| GEOTECHNICAL ENGINEER | N/A |
|-----------------------|-----------|
| GEOTECH REPORT DATE | N/A |
| BEARING CAPACITY | 1,500 PSF |
| FROST DEPTH | 42" |

4. **BEARING CAPACITY:** ALL BOTTOM OF FOOTING ELEVATION AND STRATUM SHALL BE INSPECTED AND APPROVED BY A REGISTERED GEOTECHNICAL ENGINEER HIRED BY THE CONTRACTOR IMMEDIATELY PRIOR TO PLACING CONCRETE.

5. **FROST DEPTH:** ALL EXTERIOR FOOTINGS SHALL BE PROTECTED FROM FROST BY EXTENDING BELOW THE FROST DEPTH INDICATED ON FOUNDATION CRITERIA TABLE.

6. COORDINATE ALL DIMENSIONS AND SECTIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS.

 CJ INDICATES SLAB ON GRADE CONTROL JOINT SPACING NOT TO EXCEED 15 FT O.C.
 G.C. NOTE THAT FOUNDATION SIZES AND NUMBERS ARE APPROXIMATE AND MUST BE COORDINATED AGAINST FINAL COLUMN REACTIONS PROVIDED BY THE PRE-ENGINEERED BUILDING SUPPLIER <u>PRIOR</u> TO PLACEMENT/BID.

 PERIMETER FROST WALL FOUNDATIONS AND GRADE BEAMS SHALL HAVE REINFORCEMENT KEPT CONTINUOUS THROUGH INTERSECTIONS AND ALL OTHER FOUNDATION ELEMENTS.

FOUNDATION SYMBOLS & NOTATIONS:

 "FX.X INDICATES SPREAD FOOTING, FWX.X INDICATES CONTINUOUS WALL FOOTING. SEE FOOTING SCHEDULE THIS SHEET FOR SIZE AND REINFORCEMENT AND DETAILS FOR ADDITIONAL INFORMATION.

| MADELL | | | |
|--------|---------------------|--------------|---|
| CON | <u>FINUOUS FOOT</u> | ING SCHEDULE | Ē |

| Туре | WIDTH | THICKNESS | REINF. (MAJOR) | REINF. (MINOR) |
|------|---------|-----------|----------------|----------------|
| FW24 | 2' - 0" | 1' - 6" | 3 #5 | #4 @ 18" O.C. |
| | | | | |

WOOD WALL TYPE

SCHEDULE

TYPE 1ST FL TO ROOF

W1 2x6 @16" O.C.

WOOD WALL NOTES:

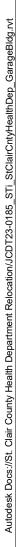
 ALL STUDS TO BE SPF NO. 1/NO. 2 OR BETTER U.N.O.
 ALL EXTERIOR WALLS ARE BEARING WALL SW1 U.N.O. ON PLAN AND SHALL BE SHEATHED W/ 7/16" STRUCTURAL PANEL AT THE EXTERIOR .

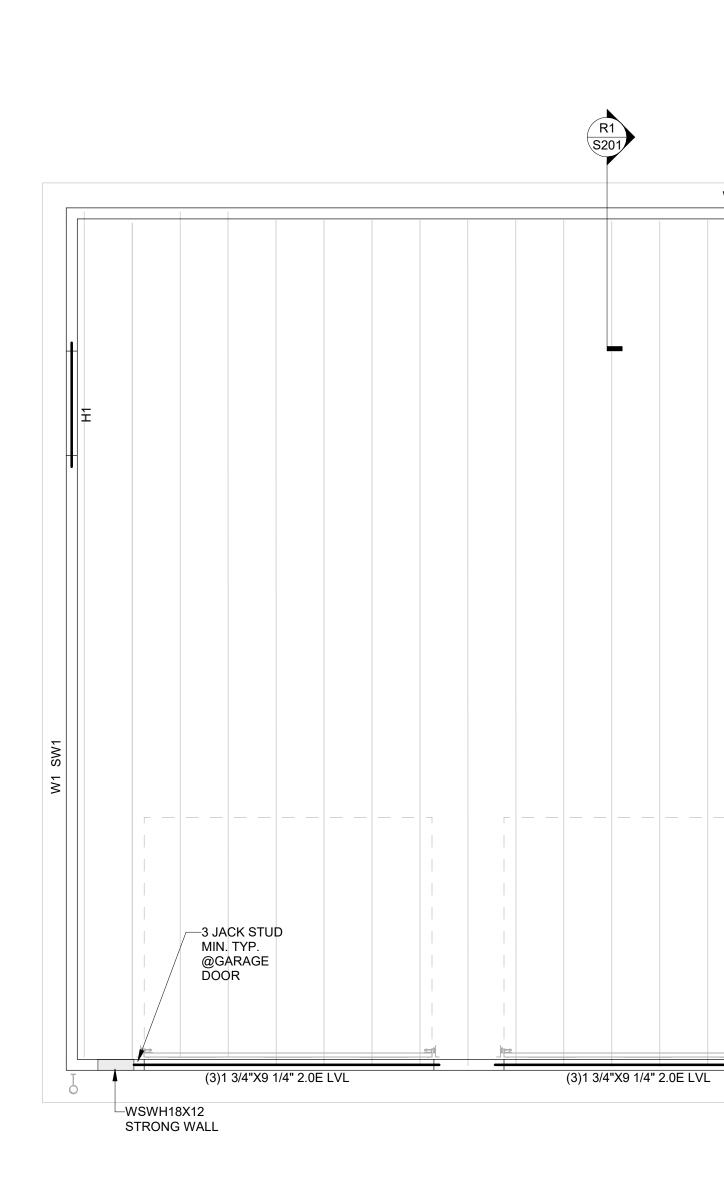
| <u>N</u> | <u>/OOD HEADER</u> SCHEDULE |
|----------|--------------------------------|
| TYPE | SIZE |
| H1 | (3) 2x8 |

WOOD HEADER NOTES: HEADERS SHALL BE BLOCKED OUT TO MATCH WALL THICKNESS. AS AN EXAMPLE (2) 2X MEMBERS IN A 2X6 WALL SHALL BE BLOCKED OUT TO 5 1/2" BY ADDITIONAL 2X MEMBER AND TWO LAYERS OF 1/2" PLYWOOD.

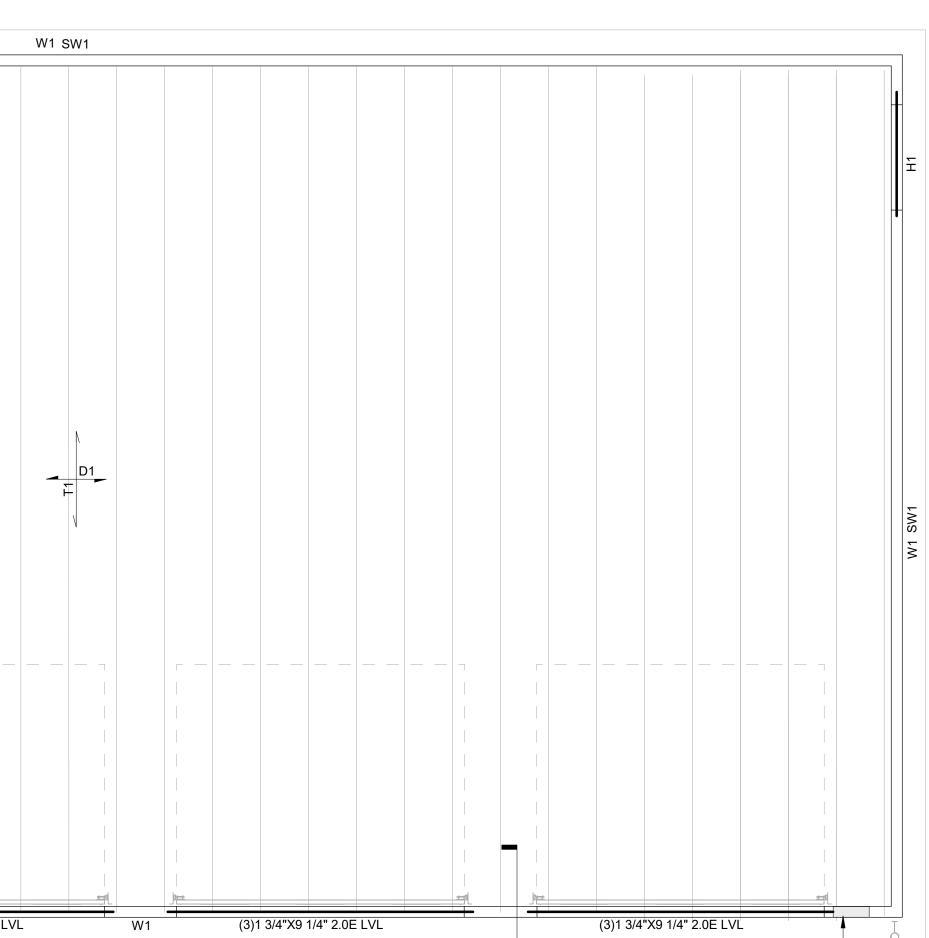
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1 ROOF FRAMING PLAN 1/4" = 1'-0"



R1 S201 SIM.

- DETAIL.
- CONTRACTOR.
- SCHEDULE.

WSWH18X12 STRONG WALL

WOOD ROOF FRAMING NOTES

SEE ARCH DWGS. FOR ROOF SLOPES, ROOF ELEVATIONS, AND WALL TOP PLATE ELEVATION (TRUSS BEARING)

D1 INDICATES SPAN OF 5/8" T&G ROOF SHEATHING. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

 T1 INDICATES SPAN DIRECTION OF WOOD ROOF TRUSSES WITH SLOPING TOP CHORD @ 2-0" O.C. MAX. SEE ARCH DRAWINGS FOR TRUSS PROFILE. TRUSS SUPPLIER SHALL DESIGN TRUSSES FOR L/360 LIVE LOAD DEFLECTION CRITERIA AND THE SCHEDULED LOADS INDICATED ON <u>5001</u>. TRUSS SUPPLIER SHALL SUBMIT WOOD TRUSS AND HANGER SHOP DRAWINGS AND CALCULATIONS FOR APPROVAL.

4. UNLESS NOTED GREATER ON PLAN, PROVIDE (2) JAMB STUDS AT ENDS OF ALL HEADERS, FLOOR BEAMS AND GIRDER TRUSSES IN 2X6 WALLS AND (3) JAMB STUDS IN 2X4 WALLS. JAMB STUDS MUST CONTINUE THROUGH EACH LEVEL DOWN TO THE FOUNDATION. JAMB STUDS SHALL MATCH SIZE, GRADE AND WOOD SPECIES OF WALL STUDS IN THE BEARING WALL THEY ARE A PART OF, U.N.O.

5. "H_" INDICATES WOOD HEADER IN BEARING WALL BELOW. SEE TABLE AND TYPICAL

6. "_JS" INDICATES THE NUMBER OF JAMB STUDS AT ENDS OF HEADERS, FLOOR BEAMS AND GIRDER TRUSSES WHERE THE MINIMUM IS EXCEEDED.

7. TRUSS SUPPLIER TO COORDINATE LOCATION AND SIZE OF MECHANICAL CHASES AND DUCTS WITH MEP DRAWINGS. CENTER OPENINGS FOR PERPENDICULAR TRUSS PASS-THROUGHS SHALL BE PROVIDED PER TYPICAL DETAILS AND COORDINATED BY

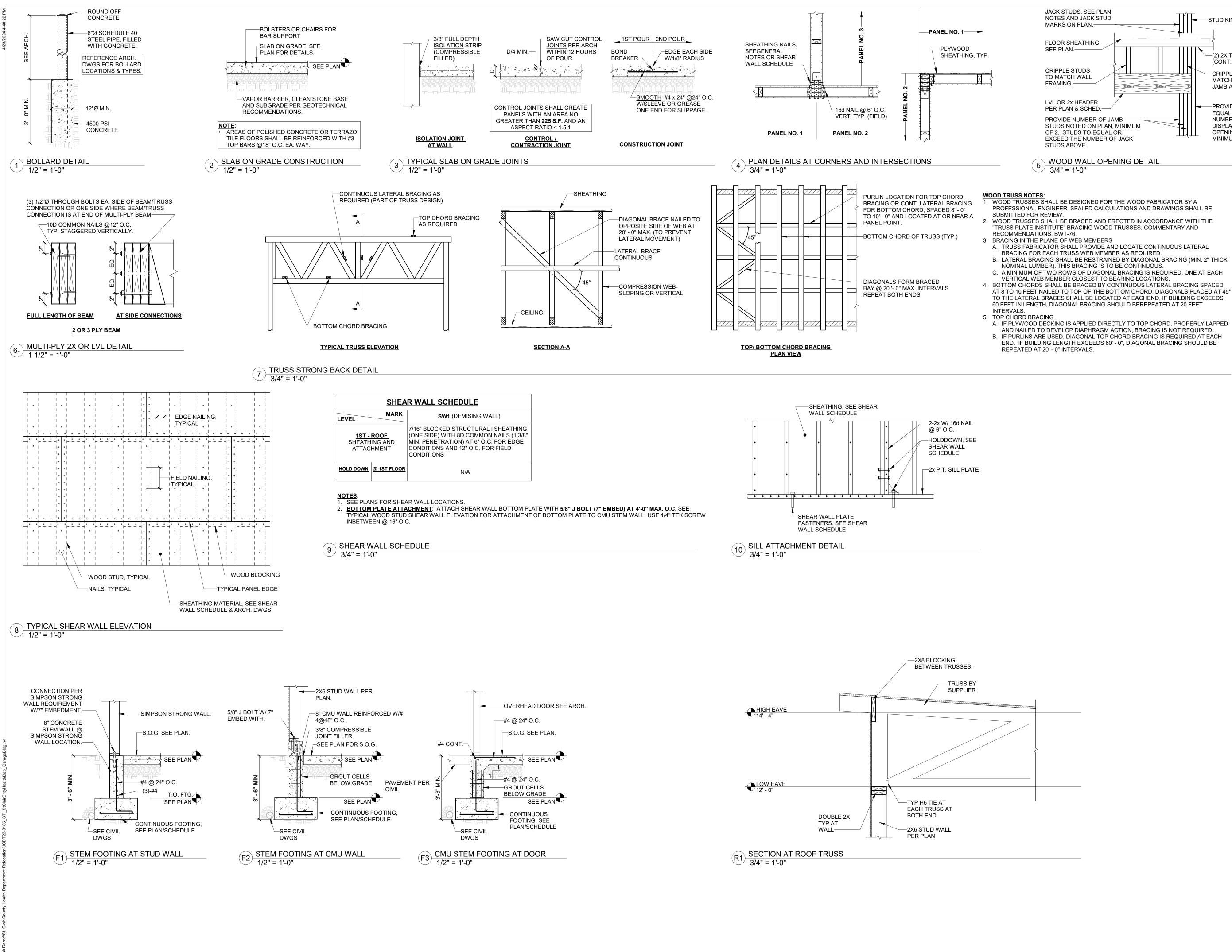
8. _____ INDICATES WOOD BEARING WALL BELOW, SEE BEARING WALL SCHEDULE FOR SIZE & STUD SPACING.

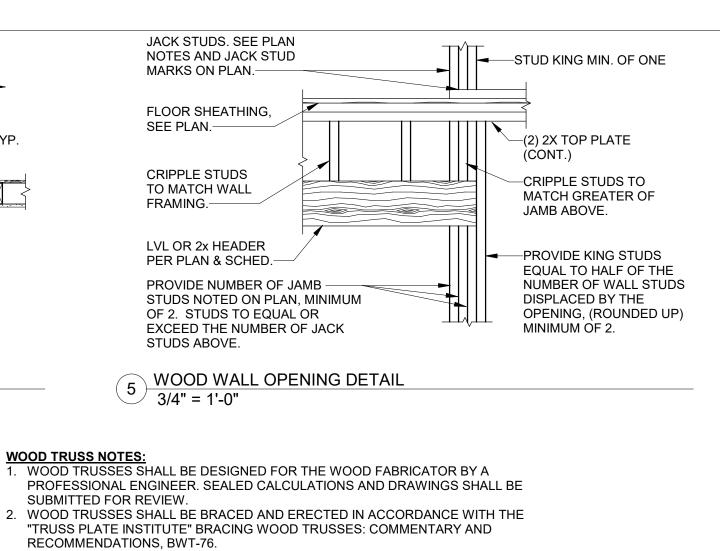
9. "SW_" INDICATES WOOD SHEAR WALL. SEE TYPICAL SHEAR WALL DETAILS AND

10. AT ALL INTERIOR LOAD BEARING WALLS AND ALL NON-LOAD BEARING WALLS OVER 8'-0" IN HEIGHT, PROVIDE ONE ROW OF WOOD BLOCKING AT MID-HEIGHT OF STUDS.

11. COORDINATE MECHANICAL UNITS ON ROOF WITH WEIGHTS REQUIRED. WEIGHTS SHALL BE ADDED TO THE ROOF TRUSSES.

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