GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS.
2. DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS. DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO CONTINUING WITH WORK.
3. ALL DIMENSIONS ON THE PLANS ARE TAKEN FROM THE FACE OF STUD, FACE OF FOUNDATION OR CENTERLINE OF COLUMN (UNLESS NOTED OTHERWISE).
4. ALL CONSTRUCTION SHALL COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE, AND ALL LOCAL GOVERNING AGENCY ADOPTED BUILDING CODES AND ORDINANCES.
5. THE GENERAL CONTRACTOR SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS HE OR SHE MAY DISCOVER. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY ERROR AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY THE ARCHITECT.
6. ALL REQUIRED CITY AND / OR COUNTY LICENSE SHALL BE ACQUIRED AND PAID FOR BY THE INDIVIDUAL TRADE.
7. THE ARCHITECT SHALL REVIEW SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT. THE ARCHITECT'S REVIEW OF A SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
8. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE. THE GENERAL CONTRACTOR SHALL BEAR ALL EXPENSES OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
9. APPROVED PLANS SHALL BE KEPT IN A SECURE LOCATION AND SHALL NOT BE USED BY WORKERS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE THAT ALL SUBCONTRACTOR'S CONSTRUCTION SETS REFLECT THE SAME INFORMATION. THE GENERAL CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE COMPLETE SET OF STAMPED APPROVED PLANS WITH ALL REVISIONS, ADDENDUMS, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT AND MUST BE MADE AVAILABLE TO THE BUILDING AND FIRE INSPECTORS FOR REFERENCE DURING CONSTRUCTION.
10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS AND UNTIL JOB COMPLETION.
11. ALL DEBRIS SHALL BE REMOVED FROM THE PREMISES AND ALL AREAS SHALL BE LEFT IN A BROOM CLEAN CONDITION AT ALL TIMES.
12. THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES.
13. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS AND SHALL MAINTAIN THE STRUCTURAL INTEGRITY OF ANY CONSTRUCTION UNTIL ALL FINAL LATERAL AND VERTICAL LOAD CARRYING SYSTEMS ARE COMPLETED.
14. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND REPLACE OR REMEDY ANY FAULTY, IMPROPER OR INFERIOR MATERIALS OR WORKMANSHIP WHICH SHALL APPEAR WITHIN ONE (1) YEAR AFTER COMPLETION AND ACCEPTANCE OF THE WORK UNDER THE SCOPE OF THIS CONTRACT.
15. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING.
16. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR PROPER REMOVAL TECHNIQUES AND DISPOSAL OF DEBRIS. CLEARING WORK SHALL BE COORDINATED WITH ALL AFFECTED UTILITY COMPANIES AND SHALL CONFORM WITH CITY, COUNTY AND STATE CODES FOR DISPOSAL OF DEBRIS.

VICINITY MAP

LIST OF DRAWINGS

ARCHITECTURAL DRAWINGS		
A-1.0	SITE REFERENCE PLAN	1
STRUCTURAL DRAWINGS		
S-0.0	GENERAL STRUCTURAL NOTES	2
S-1.0	FOOTING & FOUNDATION PLAN	3

FAY LANE

PROJECT LOCATION

SIDE OF BUILDING REQUIRING SETTLEMENT REMEDIATION

EXISTING SANDER BARN

TRUCK BARN

SAND SHED

SIGN PAINT SHOP

EQUIPMENT BARN

SANDER STORAGE

QUONSET HUT

TRUCK BARN

DIESEL ISLAND

BRIDGE HOUSE

GAS ISLAND

GATE 2

EMPLOYEE PARKING

RADIO TOWER

MECHANIC SHOP

SHOP

OFFICE

PARKING LOT

GATE 1

TOWER GENERATOR

RADIO TOWER

HIGHWAY 45

SCALE: 1"=45'-0"

0' 50' 100' 200' 300'

NORTH

NAMPA HIGHWAY DISTRICT SITE REFERENCE PLAN

SCALE: 1" = 45'-0"

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LICENSED ARCHITECT AR-1372

DEC. 16, 2025

RANDALL C HAVERFIELD STATE OF IDAHO

BUILDING SETTLEMENT REMEDIATION FOR THE

NAMPA HIGHWAY DISTRICT

4507 12TH AVENUE ROAD NAMPA, IDAHO 83686

Revisions

MRK	DATE	DESCRIPTION
1	"	"

JOB NO:	2025-17
DATE:	16 DEC 2026
DRAWN BY:	RH
CHECKED BY:	RH

Drawing Title

SITE REFERENCE PLAN

Sheet Number

A-1.0

SHEET 2 OF 3

GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
2. The structural drawings are not all-inclusive and do not contain all dimensions, elevations, openings, mechanical shafts, and penetrations needed to build the structure. The contractor shall coordinate these items with the Architectural, Mechanical and Electrical drawings.
3. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
4. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions, or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
5. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
6. The contractor shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed.
7. The contractor shall not cut or core any holes in masonry or concrete walls without prior review by the architect/engineer.
8. Site observations by BHB Consulting Engineers' field representative shall not be construed as approval of construction procedures nor special inspection.
9. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical, and electrical drawings.
10. Contractor shall review shop drawings for compliance with contract documents, and stamp shop drawings with review stamp prior to submission to architect for review. Review of shop drawings by BHB Consulting Engineers is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents. Fabrication shall not begin until shop drawings review process is complete. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
11. Only an authorized representative of BHB Consulting Engineers may make changes to these contract drawings. BHB Consulting Engineers shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers.
12. Bidding, pricing or construction done prior to receiving final building permits from the authorities having jurisdiction is at the contractor's own risk. Changes to the drawings may be required as part of the plan check process. BHB Consulting Engineers will not be held liable for, nor compensate for, changes to these drawings before final jurisdiction approval is obtained.

EXISTING CONDITIONS

1. Structural connections and the framing systems shown in the structural drawings are based on a limited site survey. The contractor shall verify the existing conditions of exposed framing systems, connections, walls, and other structural elements within the project area. If existing conditions vary from the information in the contract documents, the contractor shall notify the architect/engineer prior to proceeding with the fabrication or construction of any affected elements.
2. Existing framing systems and foundations taking new loads are assumed to be in good condition, unless noted otherwise in the contract documents. The contractor shall immediately notify the architect/engineer of any deficiencies in the existing structure that are observed or revealed during construction (e.g. corrosion of steel members, cracking or crumbling of concrete, checking or splitting of wood members) prior to proceeding with the fabrication or construction of any affected elements.
3. The contractor shall use the foundation systems indicated on the plans for reference only, and shall field verify foundation sizes, locations, and thicknesses during construction. The contractor shall notify the architect/engineer if existing foundations vary from the information in the contract documents prior to proceeding with the fabrication or construction of any affected elements.
4. While performing work adjacent to existing structures, the contractor shall be responsible for adequate shoring and protection of all existing structures, utilities, and services which will be affected by the work in the contract documents.

CONCRETE

1. Materials, unless noted otherwise:
   a. Normal weight aggregates — ASTM C 33
      i. Combined aggregate gradation for slabs on grade and other designated concrete shall be 8% - 18% for large top size aggregates (1.1/2") or 8% - 22% for smaller top size aggregates (1" or 3/4") retained on each sieve below the top size and above the No. 100. The range for the No. 30 and No.50 sieves shall be 8% - 15% retained in each. To avoid gap gradation the following shall occur:
         1. The percent retained on two adjacent sieves shall not fall below 5%.
         2. The percent retained on three adjacent sieves shall not fall below 8%.
         3. When the percent retained on two adjacent sieves is less than 8%, the total retained on either of these sieves and the adjacent outside sieve shall be at least 13%. See ACI 302 Section 5.4.3.3 for more information.
      ii. Maximum Aggregate Size shall not be larger than:
         1. 3.1/2" or 1/5 the narrowest dimension of the forms
         2. 1/3 the depth of the slab
         3. 3/4 the minimum clear spacing between bars
   b. Reinforcing Steel — ASTM 615 Grade 60 (Fy = 60 ksi)
      Use Grade 40 (Fy = 40 ksi) for field bent dowels with
   c. Admixtures:
      i. Air-entraining admixtures shall comply with ASTM C 260 (when used).
      ii. Calcium chloride shall not be added to the concrete mix.
      iii. Water-reducing admixture shall comply with ASTM C 494/C 494M, Type A (when used)
      iv. Retarding admixture shall comply with ASTM C 494/C 494M, Type B (when used).
      v. Water-reducing and retarding admixture shall comply with ASTM C 494/C 494M, Type D (when used).
      vi. High-range, water-reducing admixture shall comply with ASTM C 494/C 494M, Type F (when used).
      vii. High-range, water-reducing and retarding admixture shall comply with ASTM C 494/C 494M Type G (when used).
      viii. Admixture manufacturer shall have ISO 9001 Quality Certification. To ensure compatibility all admixtures shall be from the same manufacturer.
   d. Type I/II cement complying with ASTM C-150 shall be used for all concrete. Cement source shall remain the same for the entire job. Alternatively blended hydraulic cement complying with ASTM C595, or performance based hydraulic cement manufactured to meet the requirements of ASTM C1157 can be used with GU designation.
   e. The water/cementitious materials ratios shall meet the requirements of Table 19.3.2.1 of ACI 318-14.
   f. Cementitious Materials – Limit percentage, by weight, of cementitious materials other than portland cement as follows:
      i. Fly Ash - ASTM C618, Class C or F – 35% maximum cementitious content.
      ii. Slag Cement – ASTM C989, Grade 100 or 120 – 50% maximum cementitious content.
   g. Provide air entraining as recommended by Table 19.3.3.1 of ACI 318-14. Concrete that extends above grade and is exposed to freezing and thawing while moist shall be air entrained. Concrete in unconditioned spaces shall be considered site concrete.
   h. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
2. Compressive strengths of concrete at 28 days shall meet the follow performance requirements (see ACI-318-14; Chapter 19):
   a. Exterior Footings & Pier Caps
      Strength — 3,500 psi
      Classification — F1, S0, W0, C0
   b. Slabs on Grade
      Strength — 5,000 psi
      Classification — F3, S0, W1, C2
3. Reinforcement for concrete slabs on grade:
   a. 5" thick concrete slab on grade. Reinforce slab with #3 bars at 21" o.c. each way with 1.3/4" max cover below the top surface of the concrete.
4. Only one grade or type of concrete shall be poured on the site at any given time.
5. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
   a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
6. Reinforcement shall have the following concrete cover:

a. Cast-in-place Concrete	Clear Cover
i. Cast against and permanently exposed to earth	3"
ii. Formed concrete exposed to earth or weather:	
#6 thru #18 bars	2"
#5 and smaller bars	1.1/2"
iii. Concrete not exposed to weather or in contact with ground:	
Slabs, Walls and their piers, Joists; #11 bars and smaller	3/4"
Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals	1.1/2"

SCREW PIERS

1. Screw piers shall be designed and installed to resist the design loads shown in these drawings.
2. Contractor shall assume that piers need to be driven down 40 ft below existing grade in order to develop the design loads. The contractor shall include in his bid a credit per foot for piers that are shorter 40 ft as well as an additional cost per foot for piers that are driven further than 40 ft.
3. All work shall be performed in accordance with all applicable safety codes in effect at the time of installation.
4. The screw pier sections and extensions shall consist of square tubular steel shaft or rounded corner steel shaft configuration with one or more bearing plates welded to the shaft.
5. All screw piers and all connecting elements shall be galvanized protected. Galvanization shall meet ASTM A153 or ASTM B633.
6. All welding shall meet requirements of AWS", Structural Welding Code", D1.1, latest edition. All welders shall be AWS certified.
7. Shop drawings indicating shaft sizes, helix sizes, underpinning brackets, etcetera shall be submitted along with manufacturer's catalog cuts and data sheets.
8. Stamped calculations indicating that pier and underpinning brackets capacities (in compression and tension) meet required loads, as indicated on plans, shall be submitted for review by engineer of record. The calculations must be stamped by a professional engineer licensed in the same state as the project location.
9. The installer shall keep a written record for each screw pier installed. This record shall include the following:
   a. Project name and location
   b. Name of authorized and certified dealer and installer
   c. Name of installer's foreman or representative witnessing the installation.
   d. Date of installation
   e. Location of screw piers
   f. Description of lead section including number and diameter of helices and extensions used
   g. Overall depth of installation from finished floor
   h. Installation torque at termination of pier
   i. Load transfer device
   j. Capacity of each pier

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PROFESSIONAL ENGINEER — IDAHO — 16702 — 12/04/2023 — STATE OF IDAHO — ANDREW S. MORGAN

NAMPA HIGHWAY DISTRICT
4507 12TH AVENUE ROAD NAMPA, IDAHO 83686

Revisions

MRK	DATE	DESCRIPTION
1	"	"

Drawing Title

STRUCT. NOTES

Sheet Number

S-0.0

NARRATIVE

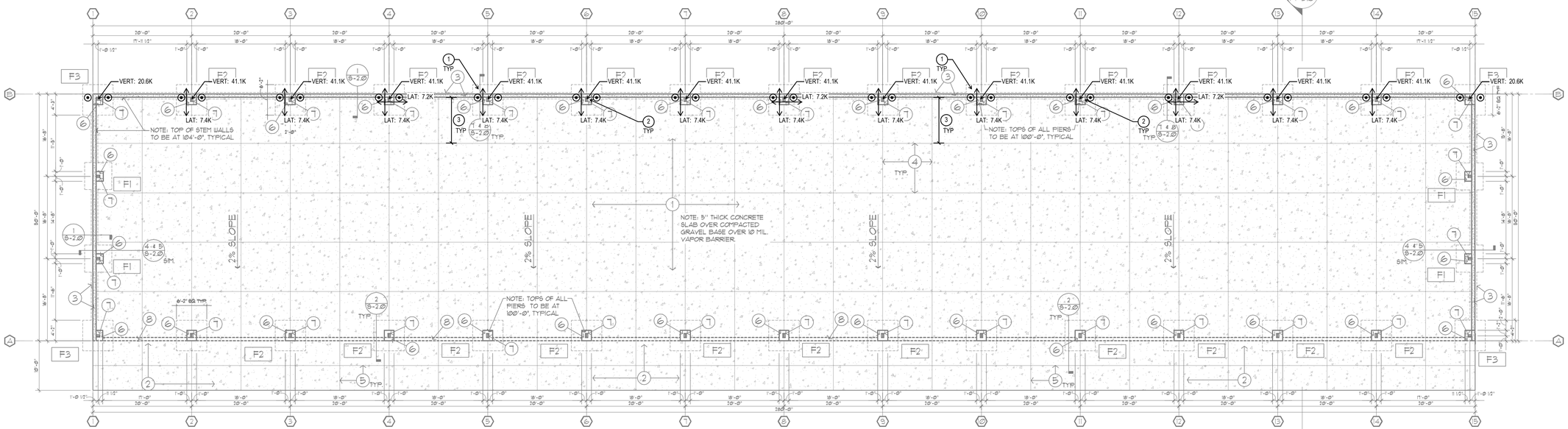
MOST OR ALL OF THE FOOTINGS ON THE WEST SIDE OF THE BUILDING (GRID B) HAVE FAILED DUE TO SETTLEMENT OF THE SOILS. GEOTECHNICAL INVESTIGATIONS INDICATE THIS IS LIKELY DUE TO LARGE AMOUNTS OF UNDOCUMENTED FILL. THEREFORE, WE ARE RECOMMENDING A REPAIR CONSISTING OF SCREW (OR HELICAL) PIERS TO BYPASS THE UNDOCUMENTED FILL AND BEAR ON COMPETENT SOIL.

THE CONTRACTOR WILL NEED TO SHORE UP THE EXISTING STRUCTURE AND THEN PROVIDE THE SCREW PIERS TO SUPPORT THE EXISTING FOOTINGS. ANY DAMAGE TO THE EXISTING CONCRETE PIERS, WALLS, OR SLABS WILL NEED TO BE REPAIRED.

SEE THE PLAN NOTES BELOW AND THE GENERAL NOTES ON THE PREVIOUS PAGE FOR MORE INFORMATION. IT IS TYPICAL IN REMEDIATION PROJECTS THAT UNFORESEEN ISSUES ARISE DURING THE COURSE OF THE REPAIR, PLEASE CONTACT THE STRUCTURAL ENGINEER IF ISSUES ARISE.

PIER LOADING PLAN

- ⦿ INDICATES APPROXIMATE LOCATION OF SCREW PIERS. PIER SUPPLIER TO PROVIDE EXACT LOCATIONS. SOME PIERS MAY NEED TO BE BATTERED OR BATTERED PIERS MAY NEED TO BE ADDED FOR LATERAL LOADS.
- (1) PROVIDE SCREW PEIRS WITH UNDERPINNING BRACKET AT EACH FOOTING TO SUPPORT THE LOADS INDICATED. ALL LOADS ARE IN ASD. SEE GENERAL STRUCTURAL NOTES FOR PIER REQUIREMENTS.
- (2) WHERE CONCRETE PIERS HAVE BEEN DAMAGED: REMOVE DAMAGED CONCRETE AND ROUGHEN SURFACE OF REMAINING CONCRETE, CLEAN ANY RUST OFF OF ANY EXPOSED REINFORCEMENT, AND PROVIDE A SUITABLE CONCRETE OR GROUT TO MATCH THE ORIGINAL PIER DIMENSIONS.
- (3) REMOVE AND REPLACE DAMAGED CONCRETE SLABS. PROVIDE #3 DOWELS AT 18" O.C. BETWEEN NEW AND EXISTING SLABS. CONFIRM WITH OWNER WHICH SLABS SHOULD BE REPLACED.



FOUNDATION PLAN

SCALE: 3/32" = 1'-Ø"

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NAMPA HIGHWAY DISTRICT

4507 12TH AVENUE ROAD NAMPA, IDAHO 83686

Revisions

MRK	DATE	DESCRIPTION
1	"	"

Drawing Title

FTG. & FOUND. PLAN

Sheet Number

S-1.0