

HUNTSVILLE TOWN CORPORATION WISHING WELL CONNECTION TO SYSTEM

HUNTSVILLE, WEBER COUNTY, UTAH

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PROJECT NO. 55-18-114
JUNE 2019

AGENCY REVIEW SET

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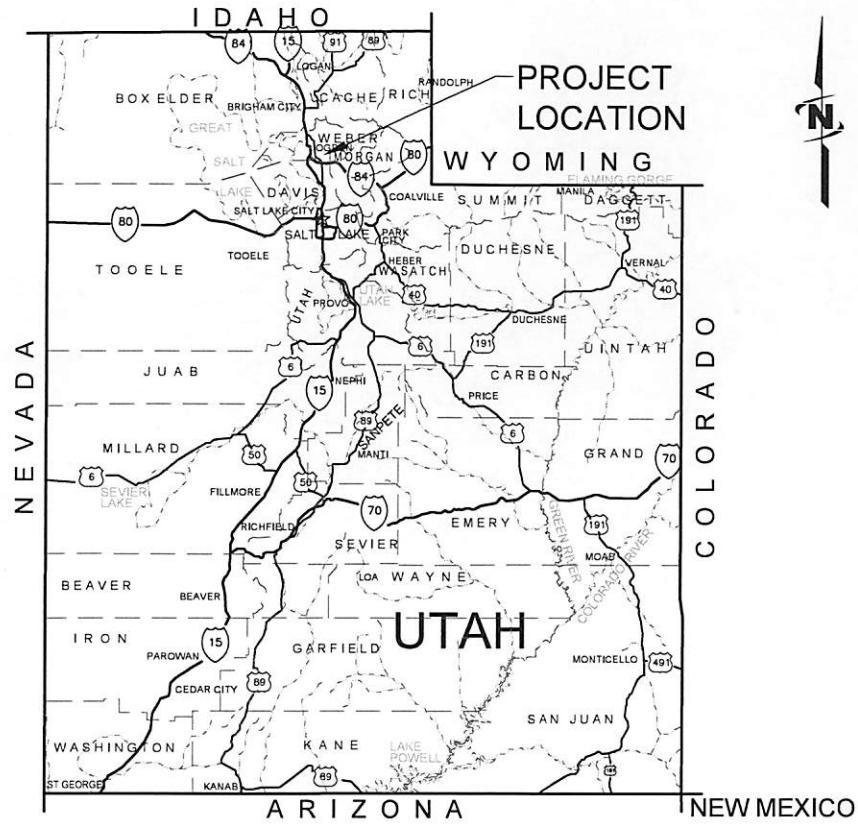
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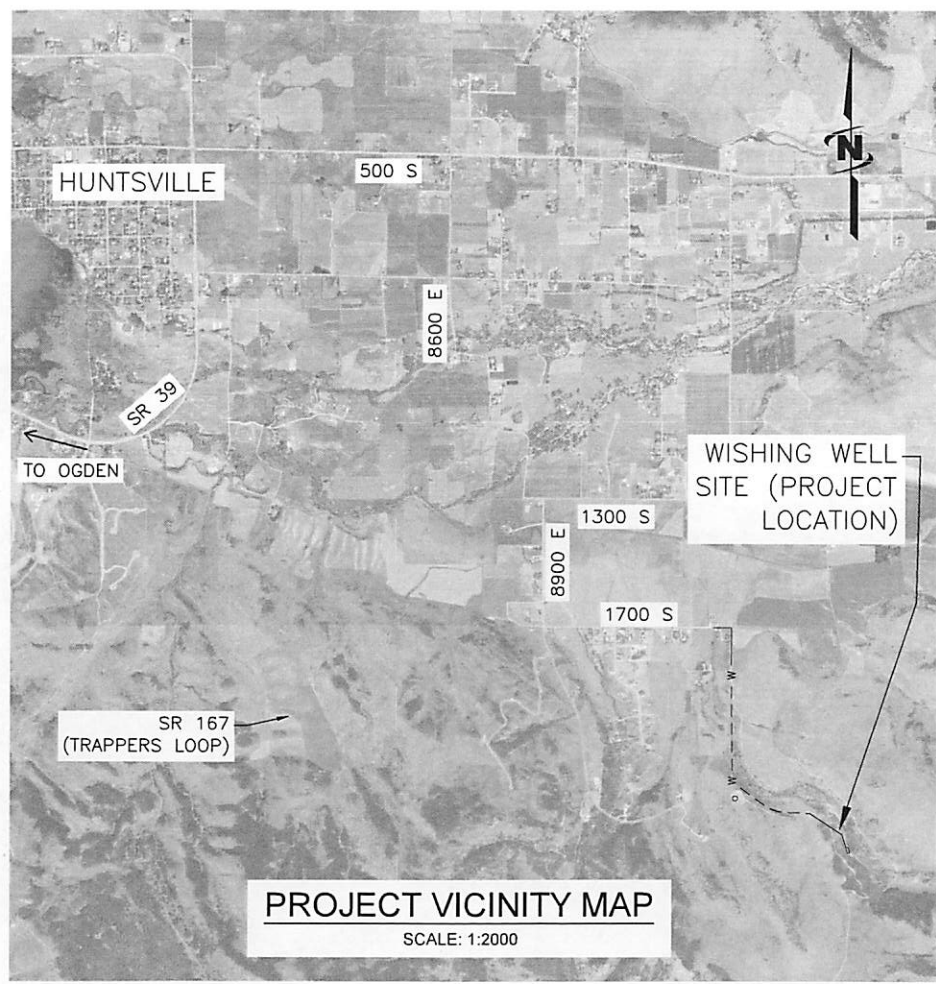
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SHEET NUMBER:
G-001

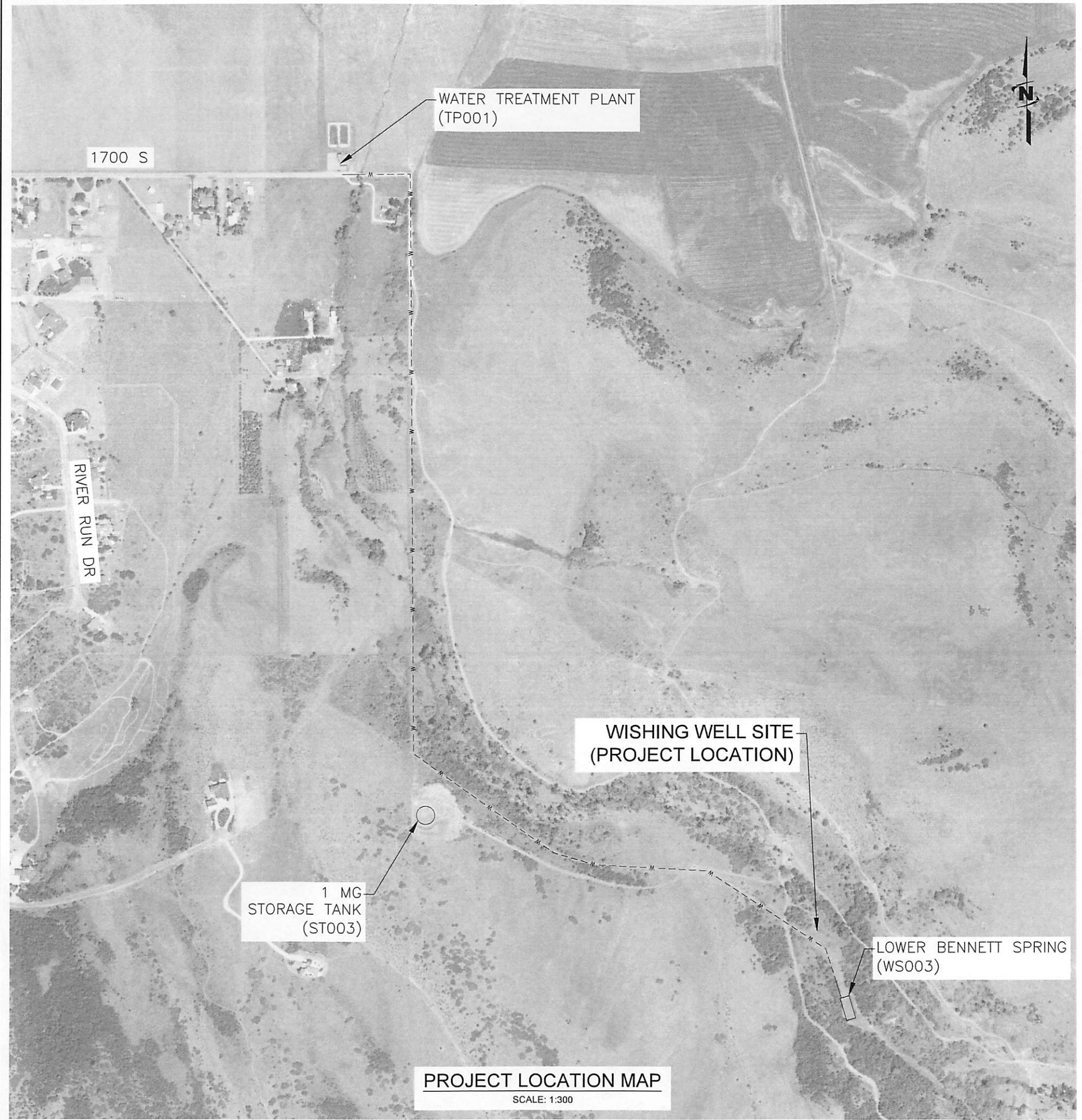


STATE OF UTAH



PROJECT VICINITY MAP

SCALE: 1:2000



PROJECT LOCATION MAP

SCALE: 1:300

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WISHING WELL CONNECTION TO SYSTEM
HUNTSVILLE TOWN CORPORATION
VICINITY MAP AND PROJECT LOCATION MAP

FILE: 55-18-114_G-001X
JUB PROJ #: 55-18-114
DRAWN BY: JRH
DESIGN BY: BRN
CHECKED BY: BRD
ONE INCH
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY
LAST UPDATED: 6/25/2019
SHEET NUMBER:
G-002

Plot Date: 02/25/2019 4:50 PM. Plotted By: Travis Green
Date Created: 6/10/2019. F:\PROJECTS\JUB\HUNTSVILLE TOWNSHIP\114-HUNTSVILLE-CULINARY WATER PROJECT\CAD\SHOOT\GENERAL\55-18-114_G-001X.DWG

GENERAL PROJECT NOTES

1. GENERAL:

- A. THE GENERAL NOTES AND SPECIFICATIONS SUPPLEMENT THE PROJECT WRITTEN TECHNICAL SPECIFICATIONS AND THE PROJECT DRAWINGS.
- B. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION BRACING, TEMPORARY SHORING, AND OTHER SITE SAFETY CONTROLS REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS, TO ENSURE THE STABILITY AND SAFETY OF ALL CONSTRUCTION UNTIL IT IS COMPLETED.
- C. DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION DETAILS AND METHODS FOR THIS PROJECT. DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR IN NATURE TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ENGINEER FOR CLARIFICATION OR INSTRUCTION.
- D. PRIOR TO IMPLEMENTING ANY CHANGES TO THESE PLANS, THE ENGINEER SHALL BE NOTIFIED IN WRITING FOR THEIR WRITTEN APPROVAL. CHANGES IMPLEMENTED WITHOUT THE ENGINEERS WRITTEN APPROVAL SHALL RELIEVE THE ENGINEER OF ANY CLAIM OR LIABILITY RESULTING FROM THAT PORTION OF THE PROJECT CHANGED OR AFFECTED BY THE CHANGE.

2. CONTRACTOR RESPONSIBILITY FOR COORDINATION:

- A. IT IS THE CONTRACTORS PRIME RESPONSIBILITY TO COORDINATE THE WORK SHOWN ON ALL OF THE PROJECT DRAWINGS, GENERAL, SPECIAL, AND TECHNICAL SPECIFICATIONS.
- B. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONSTRUCTION MATERIAL TYPES, DIMENSIONS, ELEVATIONS, AND CONDITIONS.
- C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CAREFULLY STUDY AND COORDINATE THE CONSTRUCTION REQUIREMENTS SHOWN ON THESE DRAWINGS. WHEN CONFLICTS OR DISCREPANCIES ARE FOUND IN THESE DRAWINGS, THE CONTRACTOR SHALL REPORT THEM IMMEDIATELY TO THE PROJECT ENGINEER FOR DIRECTION AND/OR CLARIFICATION.
- D. ANY CONSTRUCTION WORK DONE BY THE CONTRACTOR BEFORE OBTAINING SUCH CLARIFICATION FROM THE PROJECT ENGINEER SHALL BE AT THE CONTRACTOR'S OWN RISK AND COST. FURTHERMORE; ANY WORK REQUIRED TO CORRECT, REPLACE AND/OR RESTORE THE WORK AS DIRECTED BY THE ENGINEER SHALL BE AT THE CONTRACTOR'S OWN RISK AND COST.
- E. THE PROJECT WILL REQUIRE COORDINATION BETWEEN SEVERAL GOVERNMENT AND PRIVATE AGENCIES. FOR ANY COORDINATION EFFORTS, THE CONTRACTOR IS TO REFER TO THE LIST OF PROJECT AGENCIES FOR THE APPROPRIATE PERSONS TO CONTACT.

3. PROJECT NOTES:

- A. THE CONTRACTOR SHALL LIMIT ACTIVITIES TO IMMEDIATE PROJECT AREA TO FULLEST EXTENT POSSIBLE.
- B. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- C. THE ENGINEER WILL PROVIDE VERTICAL AND HORIZONTAL CONTROLS ON THE PROJECT SITE. ANY ADDITIONAL CONSTRUCTION STAKING REQUIRED TO COMPLETE THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- D. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES AND BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES AND EXISTING IMPROVEMENTS AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION ACTIVITIES.

4. EARTHWORK:

- A. STRIP AND REMOVE EXISTING VEGETATION, DEBRIS, AND OTHER DELETERIOUS MATERIALS FROM THE EXCAVATION LIMITS.
- B. IT IS ANTICIPATED THAT GROUNDWATER WILL BE FOUND DURING THE EXCAVATION. IN THE EVENT THAT GROUNDWATER IS PRESENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING DURING THE CONSTRUCTION PERIOD.
- C. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND CONSTRUCTING STABLE EXCAVATIONS AS REQUIRED TO MAINTAIN STABILITY OF BOTH EXCAVATION SIDES AND BOTTOM. ALL EXCAVATIONS SHOULD BE SLOPED OR SHORED IN THE INTEREST OF SAFETY FOLLOWING LOCAL, STATE, AND FEDERAL REGULATIONS, INCLUDING CURRENT OSHA EXCAVATION AND TRENCH SAFETY STANDARDS.
- D. THE CONTRACTOR SHALL EXCAVATE THE SITE TO THE LIMITS AND ELEVATIONS SHOWN ON THE PLANS.

5. EXISTING UTILITIES:

- A. THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY.
- B. DEPTHS AND ELEVATIONS OF UTILITIES ARE UNKNOWN UNLESS OTHERWISE SHOWN.
- C. UNDERGROUND UTILITY LOCATION AND VERIFICATION IS TO BE AN ONGOING PROCESS.
- D. CONTRACTOR IS RESPONSIBLE TO:
 - i. VERIFY EXACT LOCATIONS OF ALL UTILITIES PRIOR TO BEGINNING WORK IN THAT AREA
 - ii. FIELD VERIFY UTILITY LOCATION, DEPTHS, AND ELEVATIONS WHERE CONFLICTING UTILITIES MAY BE PRESENT A MINIMUM OF 500 FEET AHEAD OF TRENCHING OPERATIONS
 - iii. BRING ANY DISCREPANCIES AND/OR CONFLICTS TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
 - iv. NOTIFY APPROPRIATE UTILITY COMPANIES WHEN CONSTRUCTION MIGHT INTERFERE WITH NORMAL OPERATION OF ANY UTILITIES.
 - v. MAINTAIN SERVICE OF EXISTING UTILITIES.
 - vi. RESTORE ANY UTILITIES DAMAGED DUE TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

6. INSPECTION AND TESTING:

- A. THE OWNER SHALL BE RESPONSIBLE FOR MATERIALS TESTING INCLUDING BUT NOT LIMITED TO CONCRETE, ASPHALT, AND COMPACTION. ALL TESTS SHALL MEET MINIMUM ENGINEER REQUIREMENTS. SEE THE CONTRACT DOCUMENTS AND DRAWINGS FOR FREQUENCY OF TESTING. RESULTS ARE TO BE DELIVERED TO SPECIAL INSPECTOR, OWNER AND ENGINEER.
- B. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ENGINEER AND SPECIAL INSPECTOR FOR INSPECTIONS OF WORK AT APPROPRIATE INTERVALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ADDITIONAL INSPECTIONS THAT ARE THE RESULT OF HIS WORKMANSHIP.

7. PERMITTING AND COORDINATION:

- A. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND BUSINESS LICENSES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL LOCAL, STATE, AND FEDERAL PERMITS REQUIRED FOR STORM WATER POLLUTION PREVENTION AS A RESULT OF CONSTRUCTION ACTIVITIES. WHEN CALLED FOR IN THE CONTRACT DOCUMENTS, CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN FOR APPROVAL BY THE ENGINEER AND FOR SUBMITTAL TO LOCAL AUTHORITIES FOR REVIEW AND APPROVAL. IF THE CONSTRUCTION WILL DISTURB MORE THAN ONE ACRE, CONTRACTOR SHALL FILE A "NOTICE OF INTENT" FOR PERMIT COVERAGE UNDER THE STATE'S UPDES STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES (UTR300000) AND PAY ALL ASSOCIATED FEES. THE NOI MAY BE FILED ELECTRONICALLY AT THE FOLLOWING WEBSITE: [TTP://DEQ.UTAH.GOV/LEGACY/PERMITS/WATER-QUALITY/UTAH-POLLUTANT-DISCHARGE-ELIMINATION-STORM-WATER-GENERAL-CONSTRUCTION.HTM](http://DEQ.UTAH.GOV/LEGACY/PERMITS/WATER-QUALITY/UTAH-POLLUTANT-DISCHARGE-ELIMINATION-STORM-WATER-GENERAL-CONSTRUCTION.HTM) AND FOLLOWING THE DIRECTIONS GIVEN UNDER THE HEADING "ONLINE APPLICATION PROCESS AND SEARCH FOR EXISTING PERMITS". THE CGP DOES NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH OTHER REGULATIONS OR CONTRACT REQUIREMENTS REGARDING STORM WATER POLLUTION PREVENTION INCLUDING BUT NOT LIMITED TO: PROTECTION OF SURFACE WATERS, PREVENTION OF SOIL RUNOFF INTO DRAINS, DUST CONTROL, PREVENTION OF TRACKING SOILS TO ADJACENT STREETS, FUEL CONTAINMENT, SPILL CONTROL, ETC.
- B. ANY WORK DONE WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED WITH THE APPROPRIATE TRANSPORTATION AGENCY AND SHALL MEET THE REQUIREMENTS OF THAT AGENCY AND, IN PARTICULAR, REQUIREMENTS OF ANY RIGHT-OF-WAY SPECIAL USE PERMIT, OR OTHER PERMIT. ALL WORK SHALL MEET CURRENT OSHA REQUIREMENTS.
- C. WHERE WORK IS PERFORMED ON EASEMENTS, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO ELIMINATE ANY ADVERSE EFFECTS ON THE ADJACENT PROPERTY AND/OR TO RESTORE IT TO ITS ORIGINAL CONDITION.

8. MISCELLANEOUS:

- A. CONTRACTOR IS RESPONSIBLE FOR DUST ABATEMENT AND ANY LIABILITY ISSUES RELATED TO DUST AT ANY LOCATION WHICH MAY BE CAUSED BY THIS PROJECT.
- B. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL AND PROTECTION OF PEDESTRIANS IN AND AROUND THIS WORK. REFERENCE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD LATEST EDITION FOR WORK ZONE TRAFFIC CONTROL).
- C. THE CONTRACTOR SHALL PRESERVE EXISTING CITY, COUNTY, STATE, AND FEDERAL LAND MONUMENTS WHENEVER POSSIBLE. IF A MONUMENT MUST BE MOVED, THE ENGINEER SHALL BE CONTACTED 2 WEEKS PRIOR TO REMOVAL TO ARRANGE FOR RELOCATION.
- D. SHOULD CONSTRUCTION BE HALTED BECAUSE OF INCLEMENT WEATHER CONDITIONS, THE CONTRACTOR WILL COMPLETELY CLEAN UP ALL AREAS AND MAINTAIN THE SURFACE IN GOOD CONDITION DURING THE SHUT-DOWN PERIOD.

9. PROJECT CONTACT LIST:

| | | |
|-----------------------|------------------|----------------|
| HUNTSVILLE TOWN | SCOTT RICHARDSON | (801) 698-1867 |
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| J-U-B ENGINEERS, INC. | BRANDON NIELSEN | (801) 547-0393 |

| ABBREVIATIONS | |
|---------------|---------------------------|
| ABBREV. | TERM |
| ALUM | ALUMINUM |
| ASSY | ASSEMBLY |
| ∠ | ANGLE |
| ⊙ | AT (MEASUREMENTS) |
| BC | BEGINNING OF CURVE |
| BLDG | BUILDING |
| B.M. | BENCH MARK |
| BP | ALIGNMENT BEGINNING |
| BREAK | GRADE BREAK |
| BSC | BITUMINOUS SURFACE COURSE |
| BSW | BACK OF SIDEWALK |
| BVC | BEGIN VERTICAL CURVE |
| BVP | PROFILE START |
| B.W. | BOTH WAYS |
| C | CHANNEL (STRUCTURAL) |
| CJ | CONTROL JOINT |
| CL | CENTER LINE |
| CLR | CLEARANCE |
| CMP | CORRUGATED METAL PIPE |
| CO | CLEANOUT |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CPLG | COUPLING |
| CTR | CENTER |
| CU FT | CUBIC FEET |
| CU YD | CUBIC YARD |
| DEG OR ° | DEGREE |
| DIA OR Ø | DIAMETER |
| DI | DUCTILE IRON |
| DIST | DISTRIBUTION |
| DWG | DRAWING |
| EA | EACH |
| EC | END OF CURVE |
| ELB | ELBOW |
| ELEV OR EL. | ELEVATION |
| EOA | EDGE OF ASPHALT |
| EP | ALIGNMENT END |
| EVP | PROFILE END |
| E.W. | EACH WAY |
| EXIST | EXISTING |
| EVC | END VERTICAL CURVE |
| FF | FINISH FLOOR |
| FG | FINISH GRADE |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| FLG | FLANGE |
| FT OR ' | FEET |
| FTG | FOOTING |
| GALV | GALVANIZED |
| GB | GRADE BREAK |
| HORIZ | HORIZONTAL |
| HP | HIGH POINT |

| ABBREVIATIONS | |
|---------------|--------------------------------|
| ABBREV. | TERM |
| ID | INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| IN. OR " | INCH |
| INV. | INVERT |
| K | CURVE COEFFICIENT |
| L | LEFT |
| LB | LINE BEGINNING |
| LB OR # | POUND |
| LC | LEVEL CROWN |
| LE | LINE END |
| LF | LINEAL FEET |
| LN | LINEAL |
| LP | LOW POINT |
| MAN | MANUAL |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| NO. OR # | NUMBER |
| PC | POINT OF CURVATURE |
| PCC | POINT OF COMPOUND CURVATURE |
| PE | PLAIN END |
| PI | TANGENT-TANGENT INTERSECT |
| PL OR P | PLATE OR PROPERTY LINE |
| POLY | POLYETHYLENE |
| PRC | POINT OF REVERSE CURVATURE |
| PT | POINT OF TANGENCY |
| PVC | POLYVINYL-CHLORIDE |
| PVI | POINT OF VERTICAL INTERSECTION |
| R | RADIUS OR RIGHT |
| RC | REVERSE CROWN |
| REQ'D | REQUIRED |
| REV | REVISION |
| R/W | RIGHT-OF-WAY |
| S | SLOPE |
| SPEC | SPECIFICATION |
| STA | STATION |
| STD | STANDARD |
| STL | STEEL |
| ST STL | STAINLESS STEEL |
| TBC | TOP BACK OF CURB |
| TFC | TOP FACE OF CONCRETE |
| THD | THREADED |
| TOB | TOP OF BEAM |
| TOC | TOP OF CONCRETE |
| TOF | TOP OF FOOTING |
| TOP | TOP OF PIPE |
| TOW | TOP OF WALL |
| TYP | TYPICAL |
| W/ | WITH |
| W/O | WITHOUT |
| W/REQ'D | WHERE REQUIRED |



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WISHING WELL CONNECTION TO SYSTEM
HUNTSVILLE TOWN CORPORATION

GENERAL NOTES AND ABBREVIATIONS



Know what's below.
Call before you dig.

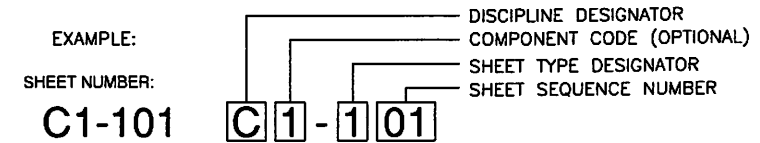
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE
YOU DIG, GRADE, OR EXCAVATE FOR THE
MARKING OF UNDERGROUND MEMBER
UTILITIES

FILE: 55-1B-114-G-001X
JUB PROJ. # 55-1B-114
DRAWN BY: JRH
DESIGN BY: BRN
CHECKED BY: BRD
ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY
LAST UPDATED: 8/25/2019
SHEET NUMBER:

G-003

| NO. | REVISION | DATE | BY | DATE |
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SHEET NUMBERING



| DISCIPLINE | DESIGNATOR | DESCRIPTION |
|----------------|------------|---------------------|
| GENERAL | G | ALL GENERAL |
| | GI | GENERAL INFORMATION |
| | GC | GENERAL CONTRACTUAL |
| | GR | GENERAL RESOURCE |
| SURVEY/MAPPING | V | ALL SURVEY |
| GEOTECHNICAL | B | ALL GEOTECHNICAL |
| CIVIL | C | ALL CIVIL |
| LANDSCAPE | L | ALL LANDSCAPE |
| STRUCTURAL | S | ALL STRUCTURAL |
| ARCHITECTURAL | A | ALL ARCHITECTURE |
| EQUIPMENT | Q | ALL EQUIPMENT |
| MECHANICAL | M | ALL MECHANICAL |
| ELECTRICAL | E | ALL ELECTRICAL |
| PLUMBING | P | ALL PLUMBING |
| PROCESS | D | ALL PROCESS |
| RESOURCE | R | ALL RESOURCE |

| DESIGNATOR | SHEET TYPE |
|------------|---|
| 0 | GENERAL (SYMBOLS, LEGENDS, NOTES, ETC.) |
| 1 | PLANS (HORIZONTAL VIEWS) |
| 2 | ELEVATIONS, PROFILES, COMBINED PLAN & PROFILES |
| 3 | SECTIONS (SECTIONAL VIEWS) |
| 4 | LARGE-SCALE VIEWS (PLANS, ELEVATIONS, ETC.) |
| 5 | DETAILS OR COMBINED DETAILS AND SECTIONS |
| 6 | USER DEFINED |
| 7 | USER DEFINED |
| 8 | USER DEFINED |
| 9 | 3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES, PHOTOS) |

SECTION AND DETAIL IDENTIFIERS

| | SECTION IDENTIFICATION | DETAIL IDENTIFICATION |
|-----------|------------------------|-----------------------|
| CALLOUT | | |
| LABEL | | |
| ALTERNATE | | |

NOTE:
A DASH MAY BE PLACED IN THE LOWER PORTION OF THE IDENTIFIER IF THE DETAIL DRAWING OR SECTION VIEW IS LOCATED ON THE SAME SHEET.

LINE LEGEND

| DESCRIPTION | EXIST. | PROP. |
|--------------------------|--------------|----------|
| STORM DRAIN | --- SD --- | — SD — |
| DRAIN LINE | --- DL --- | — DL — |
| SANITARY SEWER | --- SS --- | — SS — |
| WATER | --- W --- | — W — |
| IRRIGATION | --- IRR --- | — IRR — |
| NATURAL GAS | --- G --- | — G — |
| OVERHEAD POWER | --- OHP --- | — OHP — |
| UNDERGROUND POWER | --- UP --- | — UP — |
| OVERHEAD TELEPHONE | --- OHT --- | — OHT — |
| UNDERGROUND TELEPHONE | --- UT --- | — UT — |
| FIBER OPTIC | --- F/O --- | — F/O — |
| CABLE TELEVISION | --- CTV --- | — CTV — |
| FENCE | --- X --- | — X — |
| DITCH | --- | --- |
| MAJOR CONTOUR | --- 2520 --- | — 2520 — |
| MINOR CONTOUR | --- | --- |
| TOP OF BANK | --- TOB --- | — TOB — |
| TOE OF SLOPE | --- TOE --- | — TOE — |
| PROPERTY LINE | --- P/L --- | — P/L — |
| PROPERTY LINE (OPTIONAL) | --- | --- |
| RIGHT OF WAY | --- R/W --- | — R/W — |
| TEMPORARY EASEMENT | --- T/E --- | — T/E — |
| PERMANENT EASEMENT | --- P/E --- | — P/E — |
| ROAD SHOULDER | --- | --- |
| ROAD CENTERLINE | --- | --- |
| ROAD ASPHALT | --- | --- |
| ROAD GRAVEL | --- EG --- | — EG — |
| ROAD DIRT | --- | --- |
| CURB AND GUTTER | --- | --- |

SYMBOL LEGEND

| DESCRIPTION | EXIST. | PROP. | DESCRIPTION | EXIST. | PROP. |
|-----------------------|--------|-------|-----------------------------|--------|-------|
| SANITARY SEWER | | | IRRIGATION | | |
| CLEANOUT | ⊙ | ⊙ | IRRIGATION VALVE | ⊗ | ⊗ |
| SS MANHOLE | ⊙ | ⊙ | IRRIGATION VALVE BOX | ⊙ | ⊙ |
| SS VALVE | ⊗ | ⊗ | SPRINKLER | △ | △ |
| SS METER | ⊗ | ⊗ | IRRIGATION GATE | ⊗ | ⊗ |
| SEWER STUB | ⊙ | ⊙ | NATURAL GAS | | |
| STORM DRAIN | | | GAS METER | ⊗ | ⊗ |
| CATCH BASIN | ⊗ | ⊗ | GAS VALVE | ⊗ | ⊗ |
| DRY WELL | ⊗ | ⊗ | GAS MANHOLE | ⊙ | ⊙ |
| SD MANHOLE | ⊙ | ⊙ | UTILITIES | | |
| FLARE END | ∇ | ∇ | MANHOLE (GENERIC) | ○ | ● |
| GREASE TRAP | ⊙ | ⊙ | PRESSURE CLEAN OUT AT GRADE | ⊙ | ⊙ |
| COMMUNICATION | | | THRUST BLOCK | ▲ | ▲ |
| TELE. MANHOLE | ⊙ | ⊙ | VAULT | ⊗ | ⊗ |
| TELE. PEDESTAL | ⊙ | ⊙ | VALVE (GENERIC) | ⊗ | ⊗ |
| TELE. POLE | ⊙ | ⊙ | UTILITY POLE | ⊙ | ⊙ |
| TV PEDESTAL | ⊗ | ⊗ | SITE | | |
| GUY WIRE | ↑ | ↑ | BOLLARD | ■ | ■ |
| DOMESTIC WATER | | | BOULDER | ⊙ | ⊙ |
| FIRE HYDRANT | ⊙ | ⊙ | DRINKING FOUNTAIN | ⊗ | ⊗ |
| SPIGOT | ⊙ | ⊙ | FLAGPOLE | ⊙ | ⊙ |
| WATER MANHOLE | ⊙ | ⊙ | GATE | ⊗ | ⊗ |
| WATER METER | ⊗ | ⊗ | MAIL BOX | ⊗ | ⊗ |
| WATER VALVE | ⊗ | ⊗ | PARKING METER | ⊗ | ⊗ |
| YARD HYDRANT | ⊙ | ⊙ | POST | ○ | ● |
| ELECTRIC | | | SIGN | ⊙ | ⊙ |
| ELEC. MANHOLE | ⊙ | ⊙ | SPOT ELEVATION | ⊗ | ⊗ |
| ELEC. METER | ⊗ | ⊗ | TREE (SHRUB) | ⊙ | ⊙ |
| ELEC. TRANS. | ⊗ | ⊗ | TREE | ⊙ | ⊙ |
| JUNCTION BOX | ⊗ | ⊗ | TEST HOLE | ⊗ | ⊗ |
| GUY WIRE | ↑ | ↑ | WELL | ⊗ | ⊗ |
| POWER STUB | ⊙ | ⊙ | WELL (MONITORING) | ⊗ | ⊗ |
| POWER POLE | ⊙ | ⊙ | SURVEY | | |
| STREET LIGHT | ⊙ | ⊙ | CAP | ⊙ | ⊙ |
| STREET LIGHT WITH ARM | ⊙ | ⊙ | CTRL PT | ⊙ | ⊙ |
| TRAFFIC SIGNAL POLE | ⊙ | ⊙ | NAIL | ⊙ | ⊙ |
| | | | BOLT | ● | ● |
| | | | REBAR | ○ | ● |

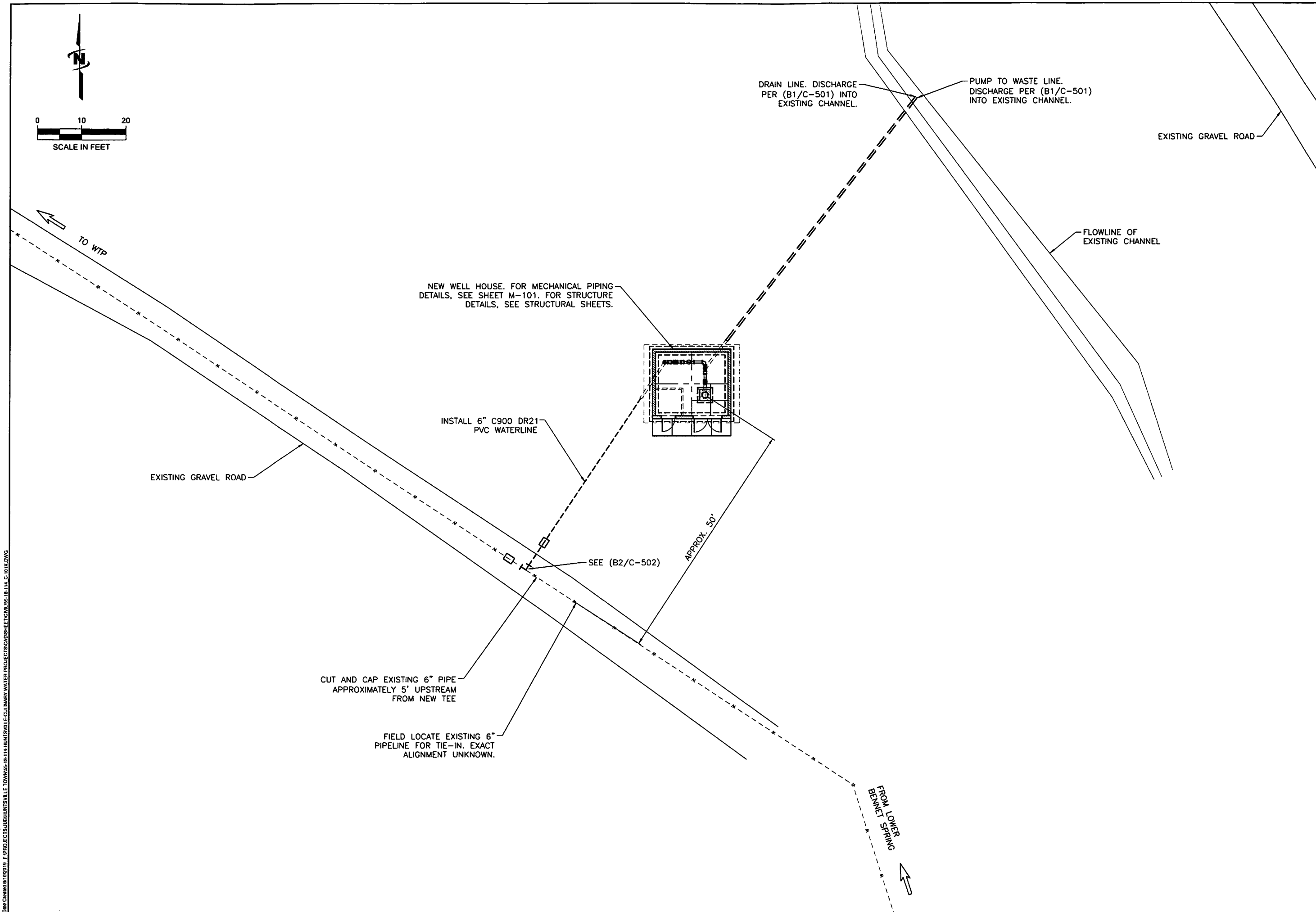
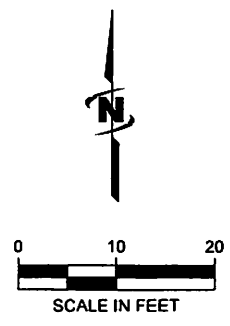
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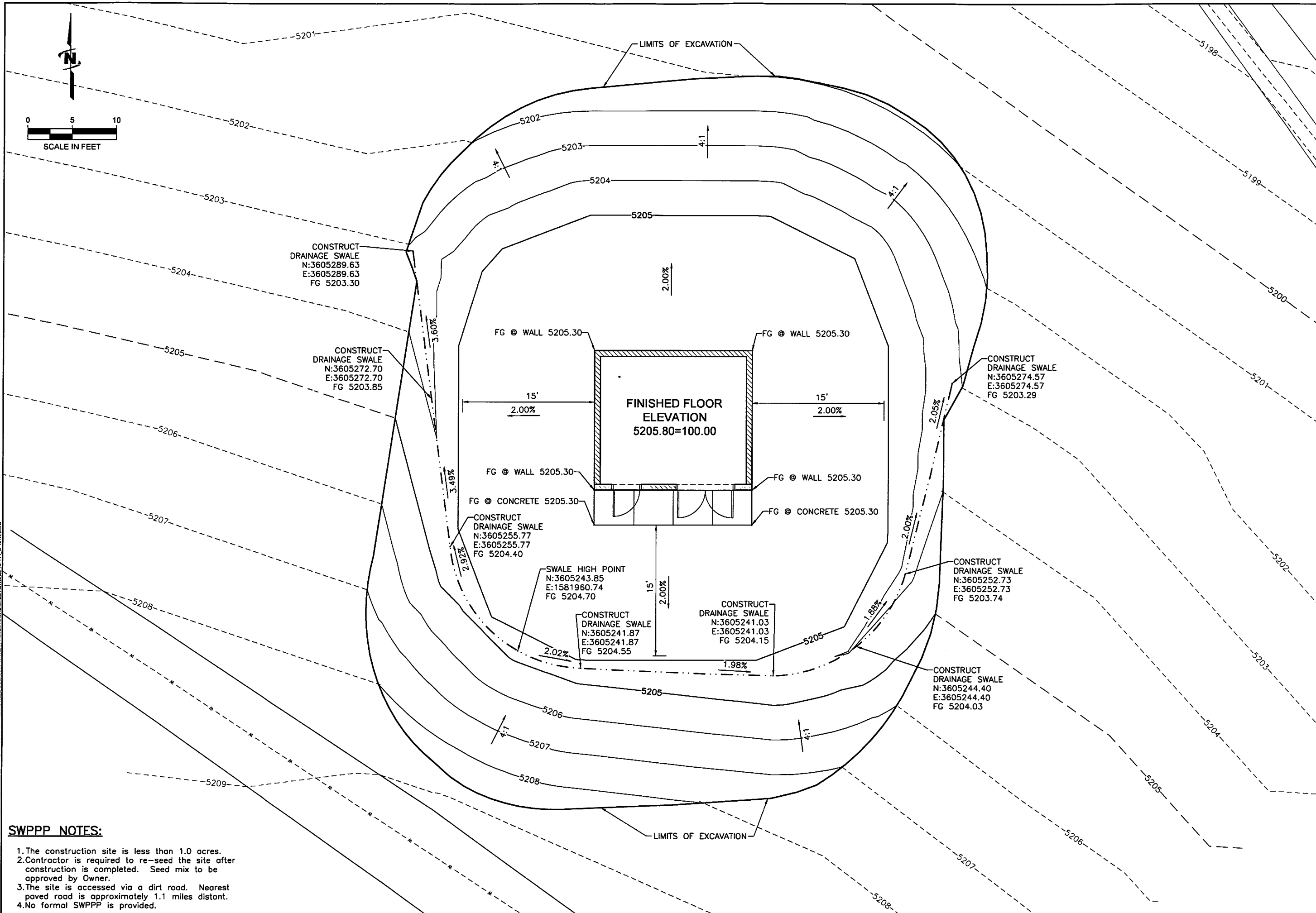
WISHING WELL CONNECTION TO SYSTEM
HUNTSVILLE TOWN CORPORATION

SITE PLAN

| |
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| FILE: 55-18-114_C-101X |
| JUB PROJ. #: 55-18-114 |
| DRAWN BY: JRH |
| DESIGN BY: BRN |
| CHECKED BY: BRD |
| DATE: 01/12/2019 |

SHEET NUMBER:
C-101



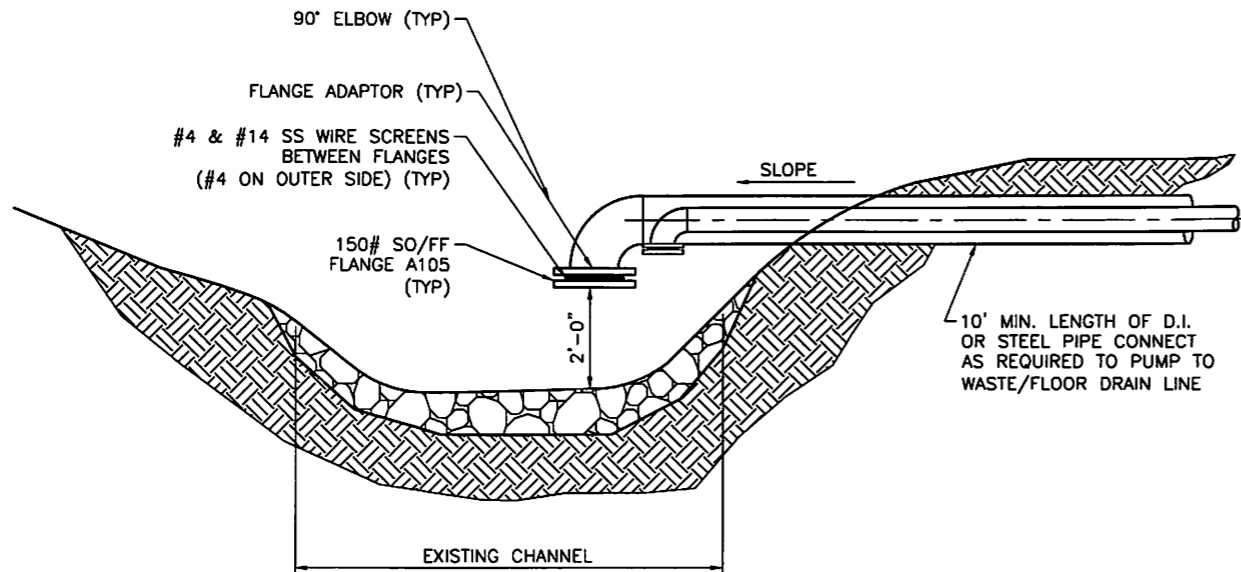


Plot Date 8/25/2019 5:08 PM Plotted By: Travis Green
 Date Created 8/10/2019 10:45:18 AM Project Path: C:\Users\trgreen\Documents\Projects\55-18-114_C-101X.DWG

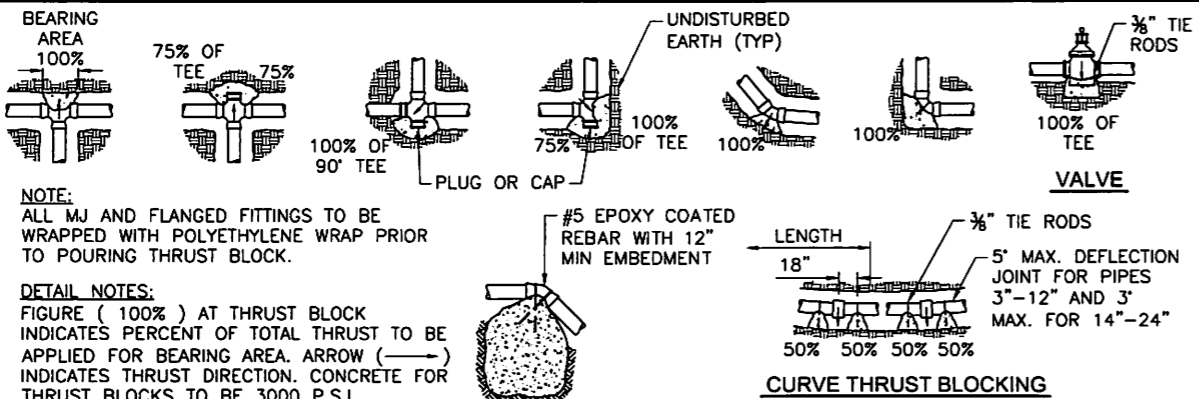
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B1 WASTE/FLOOR DRAIN OUTLET DETAIL
SCALE:N.T.S.



NOTE:
ALL MJ AND FLANGED FITTINGS TO BE WRAPPED WITH POLYETHYLENE WRAP PRIOR TO POURING THRUST BLOCK.

DETAIL NOTES:
FIGURE (100%) AT THRUST BLOCK INDICATES PERCENT OF TOTAL THRUST TO BE APPLIED FOR BEARING AREA. ARROW (→) INDICATES THRUST DIRECTION. CONCRETE FOR THRUST BLOCKS TO BE 3000 P.S.I.

GRAVITY THRUST BLOCK SIZES

| PIPE SIZE | GRAVITY BLOCK SIZE (CY) | | |
|-----------|-------------------------|------------|----------|
| | 11.25° BEND | 22.5° BEND | 45° BEND |
| 4" | 0.2 | 0.5 | 0.9 |
| 6" | 0.5 | 0.9 | 1.8 |
| 8" | 0.8 | 1.6 | 3.2 |
| 10" | 1.2 | 2.4 | 4.8 |
| 12" | 1.7 | 3.4 | 6.7 |
| 14" | 2.3 | 4.6 | 9.0 |

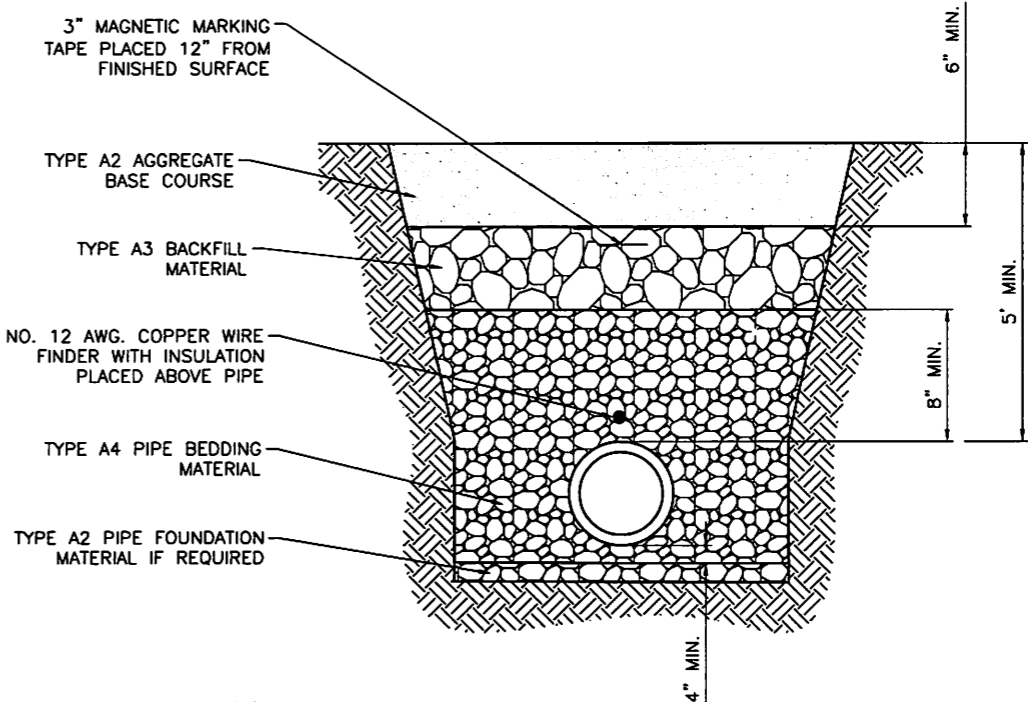
DESIGN PRESSURE = 200 PSI
SOIL BEARING CAPACITY = 2000 LB/SF
WEIGHT OF CONCRETE TO RESIST 100% OF TOTAL THRUST

THRUST ON FITTINGS IN LBS @ 1 PSI OF WATER PRESSURE *

| PIPE SIZE | DEAD END OR TEE | 90° ELBOW | 45° ELBOW | 22½° ELBOW |
|-----------|-----------------|-----------|-----------|------------|
| 4" | 25 | 35 | 20 | 10 |
| 6" | 51 | 72 | 39 | 20 |
| 8" | 88 | 123 | 64 | 34 |
| 10" | 142 | 201 | 110 | 56 |
| 12" | 202 | 284 | 155 | 80 |
| 14" | 273 | 385 | 210 | 107 |
| 16" | 354 | 498 | 272 | 142 |
| 18" | 351 | 494 | 269 | 137 |
| 20" | 565 | 795 | 433 | 220 |
| 24" | 810 | 1142 | 622 | 318 |

* (SF=1.5)

EXAMPLE:
8-INCH 90° ELBOW, PRESSURE = 200 LB./SQ. IN.
FROM TABLE: THRUST = 94 x 200 = 18,800 LB.
ASSUME BEARING STRENGTH OF SOIL = 2000 LB./SQ. FT.
18800 / 2000 = 9.4 SQ. FT. = AREA OF BEARING REQUIRED FOR THRUST BLOCK.



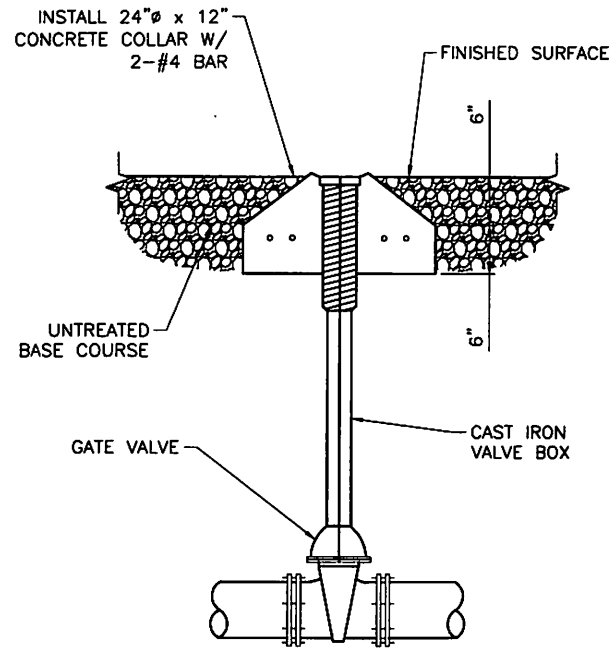
NOTES:
1. SEE SPECIFICATIONS FOR GRADATION & COMPACTION REQUIREMENTS.
2. TRENCH WIDTH SHALL BE O.D. + 12".
3. BACKFILL TO BE COMPACTED TO 95% MODIFIED PROCTOR PER ASTM D1557 IN ROADWAYS AND 93% IN LANDSCAPED AREAS.

D3 GRAVEL TRENCH SECTION
SCALE:N.T.S.

D1 TRUST BLOCK DETAIL
SCALE:N.T.S.

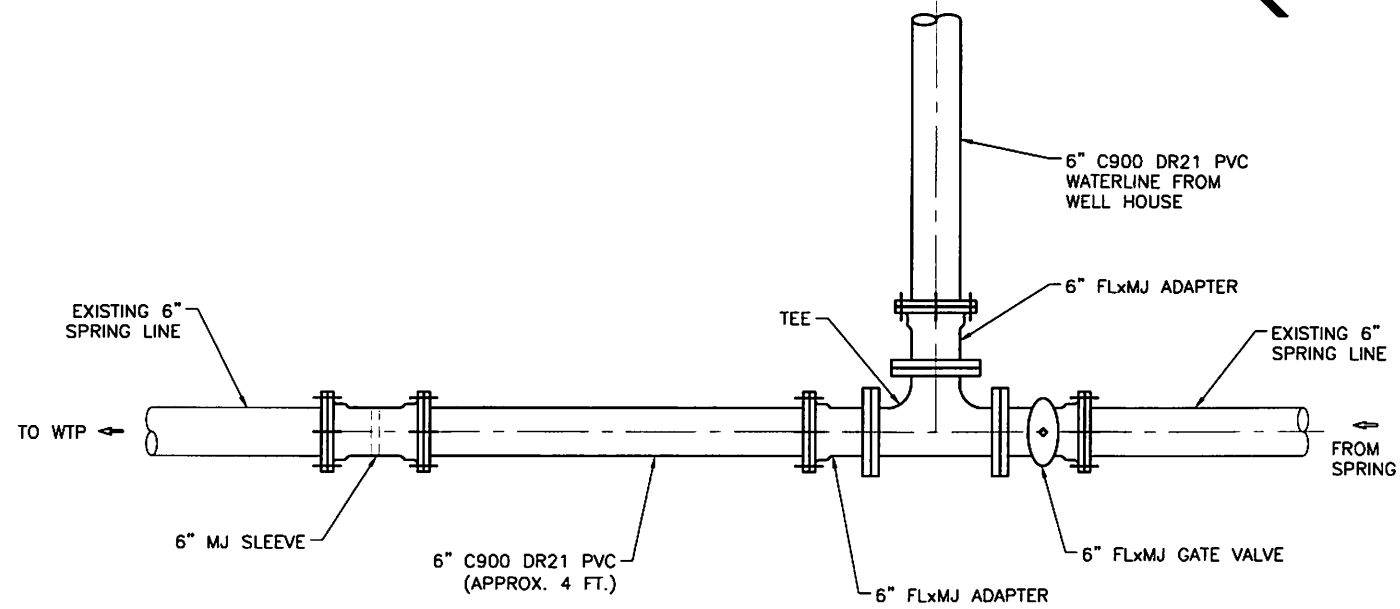
WISHING WELL CONNECTION TO SYSTEM
HUNTSVILLE TOWN CORPORATION

Plot Date: 02/20/2018 4:52 PM, Plotted By: Travis Green
 Date Created: 5/29/2018, P:\PROJECTS\HUNTSVILLE\TOWN\55-18-114\HUNTSVILLE_CULINARY_WATER_PROJECT\CADD\55-18-114_C-501X.DWG



NOTES:
 1. LID FOR CULINARY WATER TO BE D&L SUPPLY M-8044, STAMPED "WATER".

B1 VALVE DETAIL
 SCALE: N.T.S.



B2 CONNECTION DETAIL
 SCALE: 1"=1'-0"

REVIEW

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WISHING WELL CONNECTION TO SYSTEM
 HUNTSVILLE TOWN CORPORATION

DETAILS

Plot Date 05/20/19 4:59 PM Plotted By: Travis Green
 Date Created 5/20/19 F:\PROJECTS\HUNTSVILLE TOWNSHIP\18-114\HUNTSVILLE-CULINARY WATER PROJECT\CAD\DWG\C-502X.DWG

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WISHING WELL CONNECTION TO SYSTEM
 HUNTSVILLE TOWN CORPORATION

WELL HOUSE PIPING PLAN

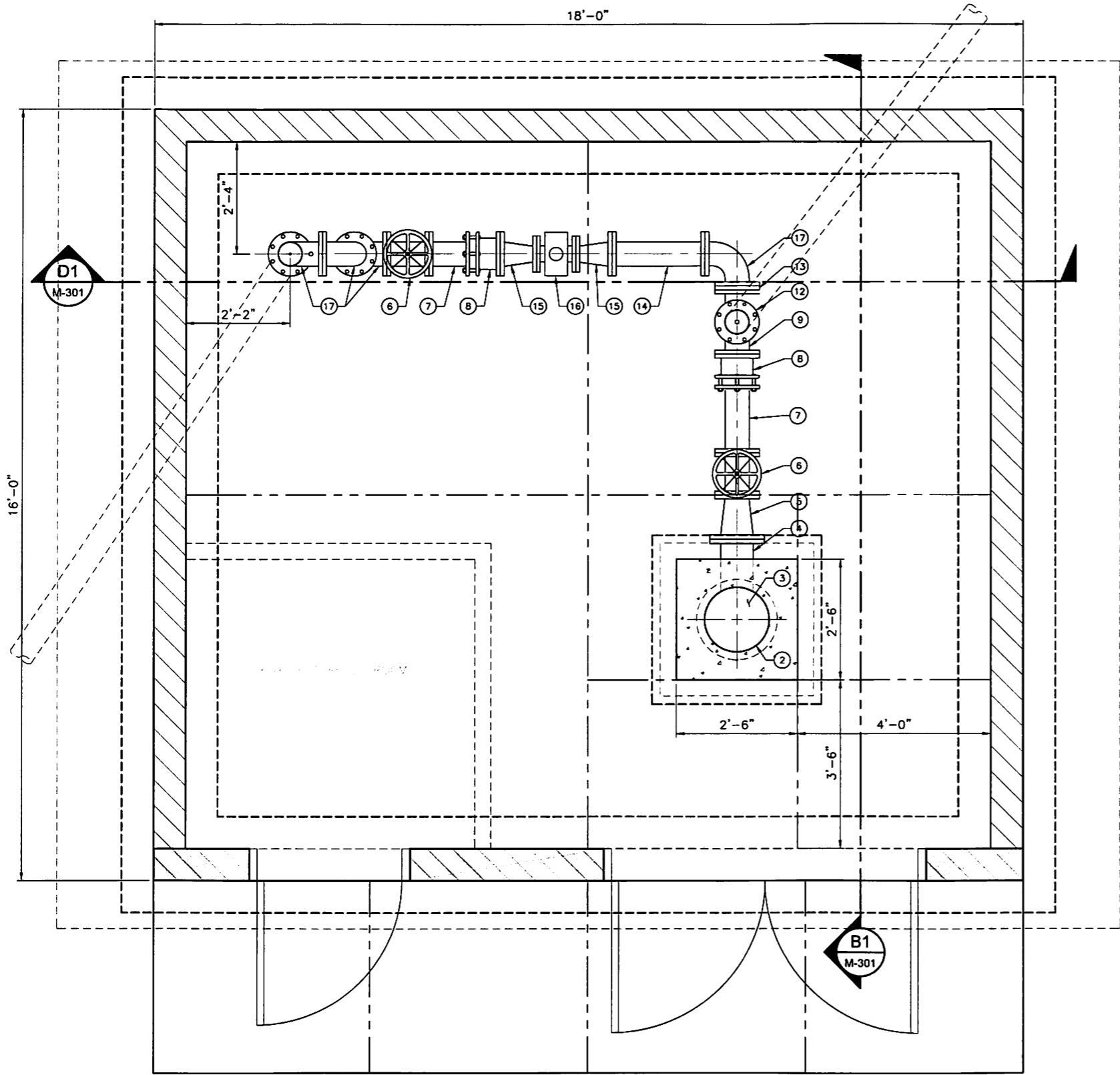
FILE: SS-18-114 M-101X
 JUB PROJ. # SS-18-114
 DRAWN BY: JRH
 DESIGN BY: BRN
 CHECKED BY: BRD

ONE INCH
 AT FULL SIZE. IF NOT ONE
 INCH SCALE ACCORDINGLY
 LAST UPDATED: 6/12/2018

SHEET NUMBER:
M-101

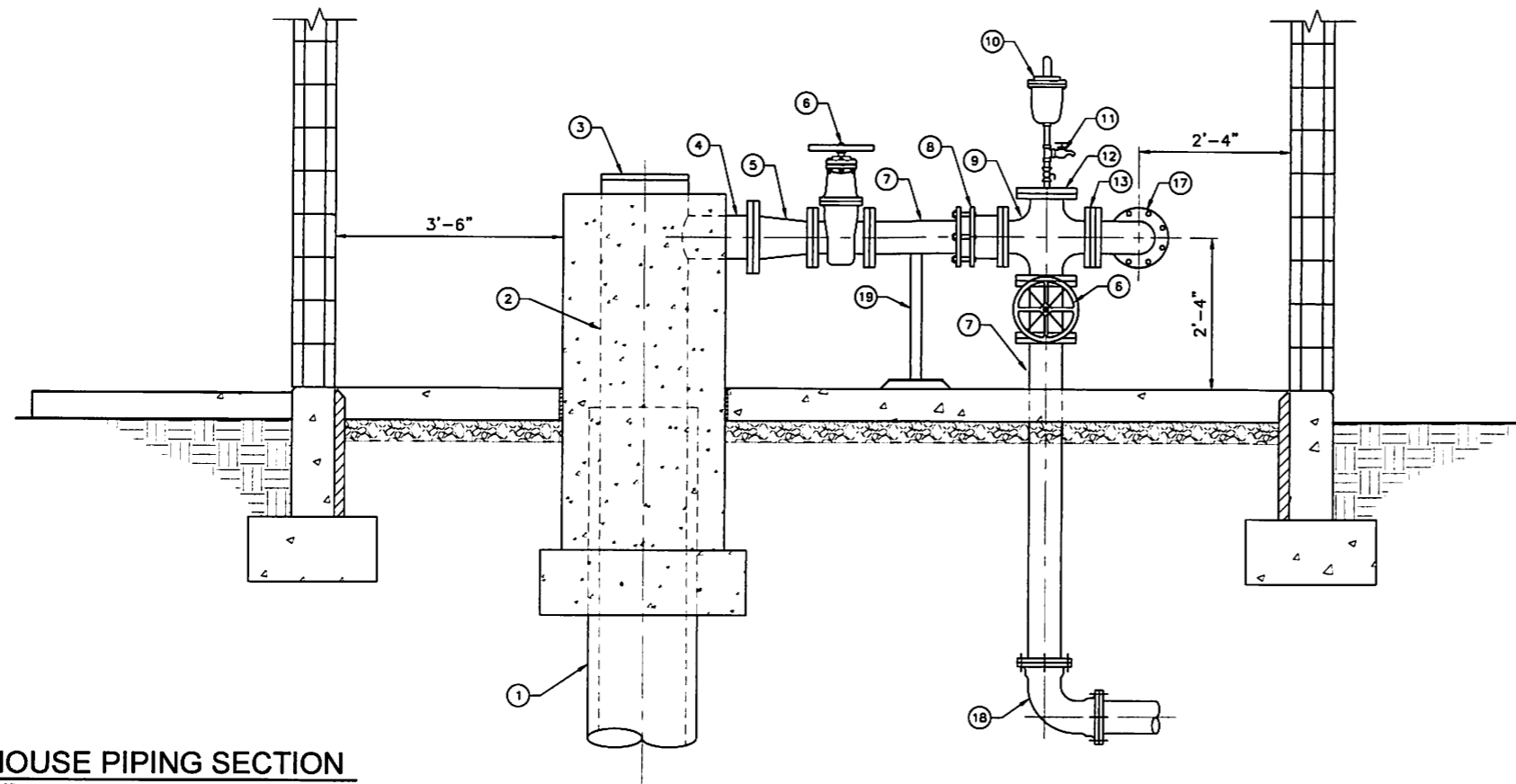
KEYED NOTES

- ① 20" WELL CASING.
- ② 16" WELL CASING.
- ③ WELL CASING CAP.
- ④ 8" WELL OUTLET PIPE W/ FLANGE.
- ⑤ 8"x6" CONC. REDUCER, FLxFL.
- ⑥ 6" GATE VALVE, FLxFL.
- ⑦ 6" SPOOL, FLxPE.
- ⑧ 6" FLANGE COUPLING ADAPTOR.
- ⑨ 6" CROSS, FLxFL.
- ⑩ COMBINATION AIR/VACUUM VALVE. PROVIDE WITH ISOLATION VALVE AND DISCHARGE PIPE WITHIN 12"-18" OFF FLOOR.
- ⑪ SMOOTH NOSE SAMPLING TAP.
- ⑫ 6" BLIND FLANGE.
- ⑬ 6" TIDE FLEX CHECK VALVE.
- ⑭ 6" SPOOL, FLxFL.
- ⑮ 6"x4" REDUCER, FLxFL.
- ⑯ 4" FLOW METER, FLxFL.
- ⑰ 6" 90° BEND, FLxFL.
- ⑱ 6" 90° BEND, MJxMJ.
- ⑲ PIPE SUPPORT.
- ⑳ 4" FLOOR DRAIN.

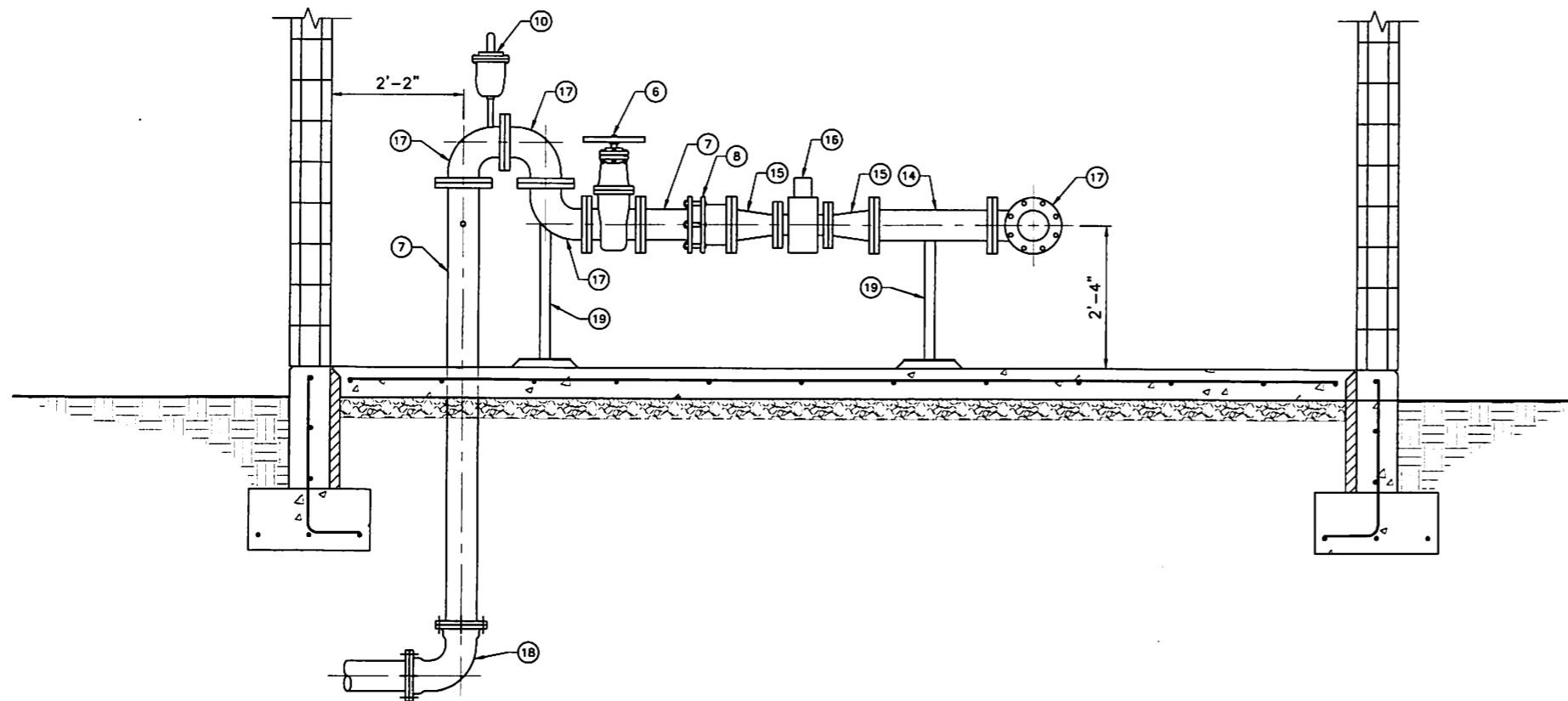


D1 WELL HOUSE PIPING PLAN
 SCALE: 3/4"=1'-0"

Plot Date: 05/20/18 4:54 PM Plotted By: Travis Green
 Date Created: 5/9/2018 P:\PROJECTS\SUBDIVISIONS\HUNTSVILLE TOWN\SS-18-114\HUNTSVILLE CULINARY WATER PROJECT\CAD\MECHANICAL\SS-18-114 M-101X.DWG



B1 WELL HOUSE PIPING SECTION
SCALE: 3/4"=1'-0"



D1 WELL HOUSE PIPING SECTION
SCALE: 3/4"=1'-0"

KEYED NOTES

- ① 20" WELL CASING.
- ② 16" WELL CASING.
- ③ WELL CASING CAP.
- ④ 8" WELL OUTLET PIPE W/ FLANGE.
- ⑤ 8"x6" CONC. REDUCER, FLxFL.
- ⑥ 6" GATE VALVE, FLxFL.
- ⑦ 6" SPOOL, FLxPE.
- ⑧ 6" FLANGE COUPLING ADAPTOR.
- ⑨ 6" CROSS, FLxFL.
- ⑩ COMBINATION AIR/VACUUM VALVE. PROVIDE WITH ISOLATION VALVE AND DISCHARGE PIPE WITHIN 12"-18" OFF FLOOR.
- ⑪ SMOOTH NOSE SAMPLING TAP.
- ⑫ 6" BLIND FLANGE.
- ⑬ 6" TIDE FLEX CHECK VALVE.
- ⑭ 6" SPOOL, FLxFL.
- ⑮ 6"x4" REDUCER, FLxFL.
- ⑯ 4" FLOW METER, FLxFL.
- ⑰ 6" 90° BEND, FLxFL.
- ⑱ 6" 90° BEND, MJxMJ.
- ⑲ PIPE SUPPORT.
- ⑳ 4" FLOOR DRAIN.



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WISHING WELL CONNECTION TO SYSTEM
HUNTSVILLE TOWN CORPORATION

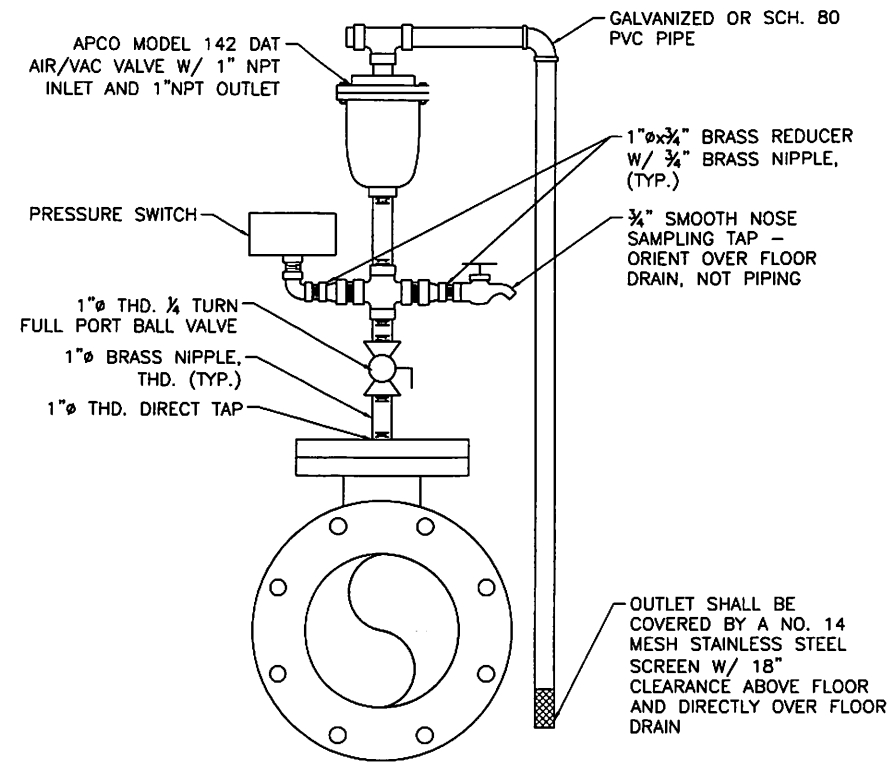
WELL HOUSE PIPING SECTIONS

| | |
|--------------|---|
| FILE | SS 18-114 M 101X |
| JUB PROJ # | SS 18-114 |
| DRAWN BY | JRH |
| DESIGN BY | BRN |
| CHECKED BY | BRD |
| SCALE | ONE INCH = AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY |
| LAST UPDATED | 6/12/2019 |

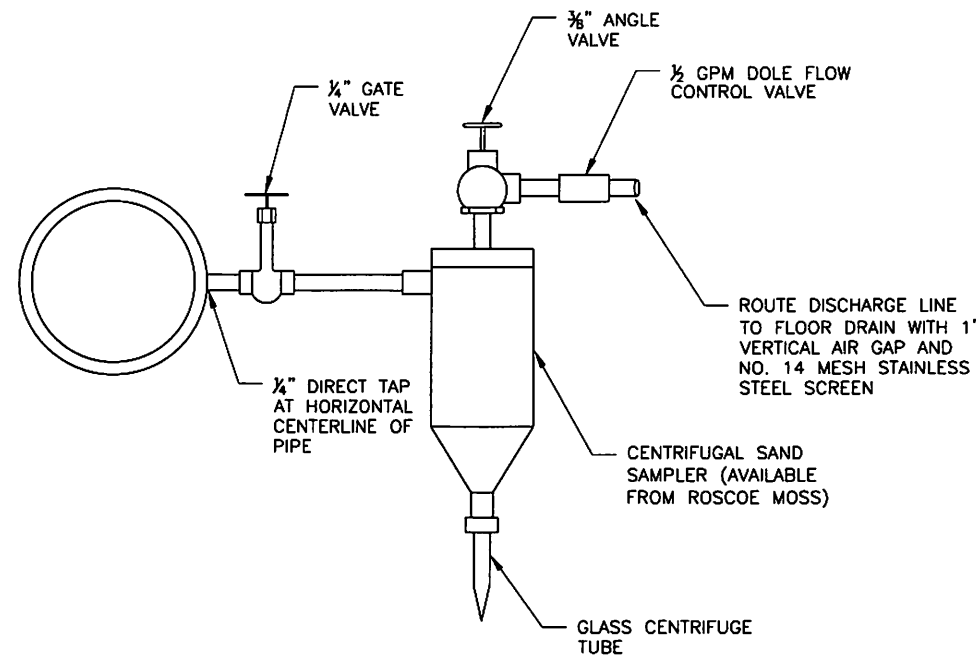
SHEET NUMBER:

M-301

Plot Date: 6/26/2019 4:55 PM, Plotted By: Trena Green
 Draw Name: SS2019.DWG, Project: SUBSUNSVILLE TOWNSS-18-114 HUNSVILLE CULINARY WATER PROJECT/ISSUESHEET/MECHANICAL/SS-18-114 M-101X.DWG



B1 DIRECT TAP W/ AIR-VAC, SAMPLING TAP, AND PRESSURE SWITCH
SCALE: N.T.S.



D1 CENTRIFUGAL SAND SAMPLER
SCALE: N.T.S.

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WISHING WELL CONNECTION TO SYSTEM
HUNTSVILLE TOWN CORPORATION

DETAILS

GENERAL STRUCTURAL NOTES

1. GENERAL
- A. These general structural notes and specifications supplement the project written technical specifications and the project structural drawings.
 - B. The contractor is responsible for all construction bracing, temporary shoring, and other site safety controls required during construction in accordance with all applicable local, state and federal regulations, to insure the stability and safety of all construction until it is completed and self-supporting.
 - C. The contractor is responsible for all water, both above and below ground, runoff and other environmental controls required during construction to insure the site is maintained in compliance with all applicable local, state and federal regulations.
 - D. Details on these plans are intended to depict the general construction details and methods for this structure. connection details and conditions not specifically shown that are similar in nature to those that are specified shall be assumed one and the same. if questions regarding the application of details are encountered, notify the engineer for clarification or instruction.
 - E. Prior to implementing any changes to these plans, the engineer shall be notified in writing for their written approval. changes implemented without the engineers written approval shall relieve the engineer of any claim or liability resulting from that portion of the structure changed or affected by the change.

2. CONTRACTOR RESPONSIBILITY FOR COORDINATION
- A. It is the Contractors Prime responsibility to coordinate the work shown on all of the Project Drawings, general, special and technical specifications.
 - B. The Contractor is responsible to verify all existing construction material types dimensions, elevations and conditions.
 - C. The Contractor shall verify and coordinate the dimensions among all drawings and in the field prior to proceeding with any work or fabrication, any discrepancy shall be immediately reported to the Engineer.
 - D. It is the Contractor's responsibility to carefully study and coordinate the construction requirements shown on the Architectural, Civil, Mechanical, Electrical, and the Structural Drawings. When conflicts or discrepancies are found between these plan sets and/or within these drawings, the Contractor shall report them immediately to the project Engineer for direction and/or clarification.
 - E. Any construction work done by the Contractor before obtaining such clarification from the Project Engineer shall be at the Contractor's own risk and cost. Furthermore; any work required to correct, replace and/or restore the work as directed by the Engineer shall be at the Contractor's own risk and cost.

3. CODES
- A. International Building Code, IBC 2015 Edition.
 - B. Minimum Design Loads for Buildings and Other Structures, ASCE 7; current edition.
 - C. American Concrete Institute, ACI 318, Building Code Requirements for Structural Concrete; current edition.
 - D. American Concrete Institute, ACI 530, Building Code Requirements and Specifications for Masonry Structures; current edition.
 - E. American Concrete Institute, ACI 301, Specifications for Structural Concrete.
 - F. National Design Specifications, NDS For Wood Construction; current edition.

4. SPECIAL INSPECTIONS. Special Inspections per IBC Chapter 17 are required for the following items: C indicates Continuous, P indicates Periodic.

| | |
|---|-----------|
| A. Soils. By Geotechnical Engineer. | Frequency |
| A.1. Site preparation: | P |
| A.2. Fill material verification: | C |
| A.3. Fill placement and compaction: | C |
| A.4. Lift thickness: | C |
| B. Concrete. | |
| B.1. Reinforcement placement: | P |
| B.2. Placement of cast-in-place anchors: | P |
| B.3. Verification of use of required mix: | P |
| B.4. Concrete placement: | C |
| B.5. Verification of in-situ concrete prior to removal of forms and shores from elevated slabs: | P |
| C. Post Installed Concrete Anchors. | |
| C.1. Installation: | C |
| D. Structural Masonry. | |
| D.1. Verification of site proportioned mortar & grout: | P |
| D.2. Observation of prism preparation: | C |
| D.3. Placement of masonry units & mortar joints: | P |
| D.4. Verification of size and location of structural elements: | P |
| D.5. Anchorage of masonry to structural members and diaphragms including type, size and location of anchors | P |
| D.6. Type, grade and size of reinforcing steel: | P |
| D.7. Reinforcing steel and connector placement: | P |
| D.8. Cold/Hot weather masonry protection: | P |
| D.9. Verify use of grout mix design: | C |
| D.10. Verify grout space is clean prior to grouting: | P |
| D.11. Grout placement: | C |
| E. Wood. | |
| E.1. Fabrication of pre-fabricated structural elements: | P |
| E.2. Material verification of structural panels and nails for diaphragms and shear walls with edge nailing: | P |
| E.3. Verification of framing size at diaphragm and shear wall panel edges with edge nailing less than or equal to 4": | P |
| F. All special inspection shall be performed by ICBO certified inspectors. | |

5. SUBMITTALS
- A. Submit required copies, four (4) minimum, of product or material design information to the Engineer for review for the following items:
 - A.1. Concrete mix designs and admixtures.
 - A.2. Non-shrink grout.
 - A.3. Expansion bolts.
 - A.4. Epoxy Anchors.
 - A.5. Structural masonry grout and mortar mix designs.
 - B. The following items to be designed by others are considered "Deferred Submittals". Deferred submittals shall be accompanied by design drawings, shop drawings and structural calculations, stamped and signed by a Professional Structural Engineer currently registered in the State of Utah.
 - B.1. Pre-engineered and shop fabricated wood joists and trusses.

- C. Submit required copies of shop drawings, four (4) minimum, to the Engineer for review prior to fabrication of the following items:
 - C.1. Reinforcing steel for all concrete.
 - C.2. Reinforcing steel for masonry walls.

6. DESIGN CRITERIA
- A. Live Load
 - A.1. Floor Live Load 150 psf
 - A.2. Roof Live Load 20 psf
 - A.3. Skylight Live Load 200 lb
 - B. Roof Snow Load
 - B.1. Ground Snow Load $P_g = 62$ psf
 - B.2. Flat Roof Snow Load $P_f = 47$ psf
 - B.3. Importance Factor $I_s = 1.1$
 - B.4. Snow Exposure Factor $C_e = 0.9$
 - B.5. Thermal Factor $C_t = 1.1$
 - C. Wind Load
 - C.1. Basic Wind Speed $V = 120$ mph
 - C.2. Wind Importance Factor $I_w = 1.0$
 - C.3. Wind Exposure C
 - D. Seismic Load
 - D.1. Occupancy Category III
 - D.2. Seismic Importance Factor $I_{eq} = 1.25$
 - D.3. Mapped Spectral Response Acceleration
 - D.3.1. Short Period Acceleration $S_s = 0.76$
 - D.3.2. 1-Second Acceleration $S_1 = 0.25$
 - D.4. Site Class (Soil Profile) D
 - D.5. Spectral Response Coefficients
 - D.5.1. Short Period Acceleration $S_{ds} = 0.60$
 - D.5.2. 1-Second Acceleration $S_{d1} = 0.32$
 - D.6. Seismic Design Category D
 - D.7. Basic Seismic Force Resisting System
 - D.7.1. Response Modification Coef. $R = 5.0$
 - D.7.2. System Overstrength Factor $\Omega_o = 2.5$
 - D.7.3. Deflection Amplification Factor $C_d = 3.5$
 - D.8. Analysis Procedure Equivalent Lateral Force

7. FOUNDATIONS
- A. All footings to be placed on 12" minimum compacted structural fill extending to firm, undisturbed, inorganic material. Proof roll sub-grade prior to placing structural fill where the material has been disturbed by the excavating equipment.
 - B. All piers and footings outside or at the perimeter of the structure, or in other unheated areas shall be set to a depth of at least 40" below finish grade, unless other wise noted on the plans.
 - C. Net allowable bearing pressure $Q_a = 1,500$ psf.
 - D. Local areas of soft and/or unacceptable material encountered at bottom of footing elevations indicated on the plans must be over-excavated and brought up to design grade with compacted "structural fill" or "lean concrete fill".
 - E. See specifications for structural fill requirements.
 - F. Design for the mitigation of subsurface water shall be the responsibility of the Contractor.
 - G. The Engineer shall be notified in writing if any clay type soils, debris or unconsolidated materials are encountered during excavations for foundations.

8. CONCRETE
- A. GENERAL. Concrete shall be proportioned to provide an average compressive strength, f_c , as prescribed in ACI 318 Section 26.4.3 and shall satisfy the durability criteria of ACI 318 Chapter 19.
 - B. PROJECT CONCRETE MIX TYPES: Concrete shall be proportioned and furnished for the various project uses as indicated on the plans and as follows:
 - B.1. M1: Footings: $f_c = 3,000$ psi, Absolute water-cement ratio by weight = 0.45, Air Content = 4-6%.
 - B.2. M2: Foundation Walls, slab on grade, and all other miscellaneous concrete: $f_c = 4,000$ psi, Absolute water-cement ratio by weight = 0.45, Air Content = 4-6%.
 - C. CONCRETE MIX COMPONENTS.
 - C.1. A water-reducing admixture conforming to ASTM C494, used in strict conformance with the manufacturer's instructions, shall be incorporated in all concrete mix designs. At Contractor's option, a high-range water-reducing (HRWR) admixture conforming to ASTM C494, Type F or G, may be used provided the total slump is less than 10".
 - C.2. Fly-ash conforming to ASTM C618 Type F or C, may replace up to 20% of the cement content, provided that the mix strength is substantiated by test data.
 - C.3. Cement: ASTM C150 Type II.
 - C.4. Water: Clean & Potable.
 - C.5. Air entraining agent: ASTM C260. Except where noted non-air entrained.
 - C.6. Aggregate: 0.75-inch Maximum aggregate per ASTM C33. Unless noted otherwise.
 - C.7. Mix Proportioning: ACI 211.1
 - D. CONCRETE ACCESSORIES:
 - D.1. REINFORCING STEEL: Reinforcing steel shall conform to ASTM A615 Grade 60; #3 bars may be Grade 40.
 - D.2. EXPANSION BOLTS: Bolts noted on the plans as Expansion Bolts shall be HILTI Kwik Bolt-II, stud anchors; size and embedment as noted on the drawings, installed per the manufacturers recommendations; or an approved equal.
 - D.3. EPOXY SET BOLTS & REBAR: Bolts and reinforcing steel bars noted on the plans as Epoxy or Construction Adhesive Set Bolts or Rebar shall be set in place utilizing the SIMPSON SET High Strength Epoxy system; size and embedment as noted on the drawings, installed per the manufacturers recommendations; or an approved equal.
 - E. CONCRETE PROPORTIONS. Concrete mix proportioning shall be in accordance with ACI 211.1; Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete.
 - F. CONCRETE MIX VERIFICATION: Concrete mix designs shall be verified by standard 28-day cylinder tests per ASTM C39.
 - G. EVALUATION AND ACCEPTANCE OF CONCRETE. Concrete shall be tested in accordance with the requirements of ACI 318 Section 26.12.
 - H. MIXING & PLACING CONCRETE. Concrete shall be prepared, mixed, placed and consolidated in accordance with ACI 318 Section 26.5 and as follows:
 - H.1. ACI 304; Guide for Measuring, Mixing, Transporting, and Placing Concrete.
 - H.2. ACI 309; Guide for Consolidation of Concrete.
 - I. CONCRETE CURING. Concrete shall be maintained above 50-degrees F and in a moist condition for at least 7 days after placement, except when cured in accordance with

- ACI 318 Section 26.5.3.
 - I.1. Curing of concrete shall be per the recommendations given in ACI 308; Guide to Curing Concrete.
- J. COLD WEATHER REQUIREMENTS. Adequate equipment shall be provided for heating concrete materials and protecting concrete during freezing or near-freezing weather. The recommended procedures listed in ACI 306; Cold Weather Concreting shall be followed.
 - J.1. Cold weather is defined as a period when, for more than 3 consecutive days, the following conditions exist:
 - J.1.1. The average daily air temperature is less than 40-degrees F and
 - J.1.2. The air temperature is not greater than 50-degrees F for more than one-half of any 24-hour period.
- K. HOT WEATHER REQUIREMENTS. During hot weather, proper attention shall be given to ingredients, production methods, handling, placing, protection, and curing to prevent excessive concrete temperatures or water evaporation that could impair required strength or serviceability of the member or structure. The recommended procedures listed in ACI 305; Hot Weather Concreting shall be followed.
 - K.1. Hot weather is any combination of the following conditions that tends to impair the quality of freshly mixed or hardened concrete by accelerating the rate of moisture loss and rate of cement hydration, or otherwise causing detrimental results:
 - K.1.1. High ambient temperature.
 - K.1.2. High concrete temperature.
 - K.1.3. Low relative humidity.
 - K.1.4. Wind speed.
 - K.1.5. Solar radiation.

9. FORMWORK AND FINISHING
- A. Forms shall result in a final structure that conforms to shapes, lines, and dimensions of the members as required by the design drawings and specifications.
 - A.1. Design of formwork shall be in accordance with ACI 318 Section 26.11.1.
 - A.2. Formwork shall be in accordance with ACI 347; Guide to Formwork for Concrete.
 - B. Tolerances for finished concrete surfaces shall meet the following requirements from ACI 117, class of surface is per section 4.8.3:
 - B.1. Footings: Class C
 - B.2. Foundation walls: Class B
 - B.3. Above grade concrete not visible to sight: Class B
 - B.4. Above-grade concrete visible to sight: Class A

- C. REMOVAL OF FORMS.
- C.1. Concrete forms shall not be removed until the retained concrete has reached the following minimum percentage of the required 28 day compressive strength:
 - C.1.1. Footings and base slabs on grade: 50% of f_c .
 - C.1.2. Foundation walls and columns: 67% of f_c .
 - C.2. Where concrete cylinder tests are not available for strength verification the following guide may be used when permitted by the Project Engineer:
 - C.2.1. Footings and base slabs on grade: 12 hours.
 - C.2.2. Foundation walls and columns: 24 hours.
- D. EMBEDMENTS IN CONCRETE.
- D.1. Conduits, pipes, and sleeves of any material not harmful to concrete and within limitations of ACI 318 Sections 20.7 and 26.8 shall be permitted to be embedded in concrete with approval of the Project Engineer, provided they are not considered to replace structurally the displaced concrete.
 - D.2. Conduits and pipes of aluminum shall not be embedded in structural concrete unless effectively coated or covered to prevent aluminum-concrete reaction or electrolytic action between aluminum and steel.
- E. CONSTRUCTION JOINTS.
- E.1. Construction joints shall only be placed where indicated on the project drawings or as approved by the Project Engineer.
 - E.2. Construction joints shall be constructed in accordance with ACI 318 Section 26.5.6
 - E.3. Sawn contraction joints. Conform to ACI 301 Section 5.3.5.
- F. CONCRETE FINISHING. All concrete surfaces shall be finished in accordance with ACI 301.

- G. Formed Concrete Surfaces. After removal of forms, give each formed surface one or more of the following finishes:
- G.1. Non-liquid Retaining Concrete Structures:
 - G.1.1. Concrete footings and foundations not exposed to view. Provide a surface finish SF-1.0 per Section 5.3.3.3a.
 - G.1.2. Foundation wall and other surfaces below grade and not exposed to view. Provide a surface finish SF-2.0 per Section 5.3.3.3.b.
 - G.1.3. Interior, exterior and top surfaces exposed to view to 6-inches below grade. Provide a surface finish SF-3.0 per Section 5.3.3.3.c.
 - G.2. Unformed Concrete Surfaces. Unformed concrete surfaces including the top surface of all concrete floor slabs shall be finished in accordance with ACI 301 Section 5.3.4 and ACI 302 Chapter 8.
 - G.2.1. For the top surfaces of walls, provide a "Scratched finish" per Section 5.3.4.2.a.
 - G.2.2. Interior floor surfaces shall receive a Troweled finish per Section 5.3.4.2c.



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WISHING WELL CONNECTION TO SYSTEM
 HUNTSVILLE TOWN CORPORATION
 GENERAL STRUCTURAL NOTES

FILE 55-18-114 S-001X
 JUB PROJ. # 55-18-114
 DRAWN BY JRH
 DESIGN BY BRN
 CHECKED BY BRD
 ONE INCH
 AT FULL SIZE. IF NOT ONE
 INCH SCALE ACCORDINGLY
 LAST UPDATED 8/12/2018
SHEET NUMBER:
S-001

Plot Date 05/26/2018 4:55 PM, Plotted By Irene Green
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GENERAL STRUCTURAL NOTES CONTINUED

10. DETAILS OF REINFORCEMENT

- A. Placement of all reinforcing steel within concrete structures shall be in conformance with ACI 318 Chapter 25.
- B. Reinforcing steel hooks, bends, ties, splices and other reinforcement details shall be in accordance with ACI 315; Details and Detailing of Concrete Reinforcement.
- C. Spacing limits for reinforcement shall be in conformance with ACI 318 Section 25.2.
- D. Concrete protection for reinforcement. Unless noted elsewhere on the drawings, all reinforcing steel shall have the following concrete cover:
 - D.1. For non-liquid containing concrete structures; per ACI 318 Section 20.6.1.3:
 - D.1.1. Concrete cast against earth: 3.00-inch
 - D.1.2. Concrete exposed to earth, or weather:
 - D.1.2.1. No. 5 or smaller bars: 1.50-inch
 - D.1.2.2. No. 6 or larger bars: 2.00-inch
 - D.1.3. Concrete not exposed to earth or weather:
 - D.1.3.1. No. 11 or smaller bars: 0.75-inch
 - D.1.3.2. No. 14 or larger bars: 1.50-inch
 - D.1.4. Beams and columns:
 - D.1.4.1. Primary reinforcement, ties, stirrups or spirals: 1.50-inch
- E. Concrete blocks or plastic-coated bar chairs shall be provided for support of all slab reinforcing steel, sufficient in number to prevent settlement or sagging, but in no case shall such support be continuous. Metal clips or supports shall not be placed in contact with the forms or the sub-grade.
- F. Dowels and anchor bolts shall be wired or otherwise held in correct position prior to placing concrete. Care shall be taken to insure that dowels and anchor bolts remain plumb after concrete is poured and vibrated. In no case shall dowels or anchor bolts be stabbed into freshly poured concrete.
- G. Provide dowels in footings and at construction joints to match vertical reinforcing bar size and spacing, unless otherwise noted on the drawings.
- H. Coordinate placement of dowels into masonry or brick walls with the masonry shop drawings.
- I. Where drilled in anchors are to be post-installed into concrete surfaces take care to locate reinforcing steel so that it will not interfere with the drilling operations. Move bars plus or minus 1 to 2 inches in order to avoid drilling conflicts.
- J. All bar bends, hooks, splices and other reinforcing steel details shall conform to the requirements of ACI 315.
- K. Unless otherwise noted on the plans all bars shall be spliced with a minimum Class A lap splice; lap splices of deformed bars and deformed wire in tension zones shall be Class B splices.
- L. At all corners and wall intersections provide bent bars to match the horizontal reinforcing steel and in accordance with the typical corner reinforcing details.
- M. Chamfer all exposed corners and fillet entrant angles 3/4" unless otherwise noted on the drawings.

11. STRUCTURAL MASONRY REQUIREMENTS

- A. GENERAL. All structural masonry construction shall be in accordance with ACI 530.1, Specifications for Masonry Structures; current edition.
- B. MASONRY: The masonry assemblage shall have a minimum 28 day compressive strength of 1,500 psi. Assembly shall be verified per IBC standards.
- C. STRUCTURAL MASONRY UNITS:
 - C.1. CONCRETE MASONRY UNITS: All concrete masonry units (CMU) shall conform to ASTM C-90, Grade N, with a minimum net area compressive strength of 1,900 psi.
 - C.2. All block shall be laid up with a standard running bond unless specifically noted otherwise on the drawings.
 - C.3. Place masonry units in accordance with ACI 530.1 Section 3.3, Masonry Erection.
- D. MORTAR:
 - D.1. All mortar for use with structural masonry units shall conform to ASTM C270, Class S and have a minimum 28 day compressive strength of 1,800 psi.
 - D.2. Mortar shall be in accordance with ACI 530.1, Section 2.1 - Mortar materials.
- E. GROUT:
 - E.1. All grout for use with structural masonry units shall conform to ASTM C476 and have a minimum 28 day compressive strength of 2,500 psi.
 - E.2. Grout shall be in accordance with ACI 530.1, Section 2.2 - Grout materials.
 - E.3. Place grout in accordance with ACI 530.1, Section 3.5 - Grout placement.
 - E.4. Grout Pour Height. Do not exceed the maximum grout pour height listed in ACI 530.1, Table 7.
 - E.5. Grout Lift Height. Do not exceed the maximum grout lift heights as defined by ACI 530.1, Section 3.5 D.
- F. CELLS: Fill all cells containing reinforcing steel and as directed on the drawings solid full height with grout.
- G. BOND BEAMS: All bond beams shall be grouted solid to a minimum height of 8-inches.
- H. LINTELS: All masonry lintels (units over wall openings greater than 8-inches in length) shall be grouted solid from the bottom of the lintel to a total structural depth as indicated on the plans, or 16" minimum. Extend the length of solid grouting past the edge of each opening as indicated on the plans or 8" minimum.
- I. REINFORCING:
 - I.1. REINFORCING STEEL: Reinforcing steel shall conform to ASTM A615 Grade 60; #3 bars may be Grade 40.
 - I.2. Fabricate bars used in masonry reinforcement in accordance with the fabricating tolerances of ACI 315, and in accordance with ACI 530.1, Section 2.7.
 - I.3. Place reinforcement in accordance with ACI 530.1, Section 3.4 B.
 - I.4. All reinforcing steel shall be in place and secured against displacement prior to grouting with wire ties, spacers or other suitable devices at tops and bottoms and intervals not exceeding 192 bar diameters nor 10-feet.
 - I.5. BAR PLACEMENT: Where one vertical bar is called for in each vertical core the bar is to be placed in the center of the masonry core. Where two vertical bars are called for they shall be placed near each wall face with 1/5-inch of clearance for fine grout and 1/2" of clearance for coarse grout.
 - I.6. LAPS: Lab all masonry reinforcing per bar size as follows:
 - I.6.1. Required lap lengths for single bars centered in each cell:

| | | |
|----------|----------|----------|
| #3 = 16" | #6 = 43" | #9 = 82" |
| #4 = 22" | #7 = 60" | |
| #5 = 26" | #8 = 72" | |
 - I.6.2. Required lap lengths for flush wall pilaster/column, 2 bars per cell with 2.5 cover:

| | | |
|----------|----------|----------|
| #3 = 16" | #6 = 54" | #9 = 82" |
| #4 = 22" | #7 = 63" | |
| #5 = 32" | #8 = 72" | |
- J. ANCHOR BOLTS: Anchor bolts shall be accurately set with templates or by approved equivalent means and held in place to prevent movement. Conform to ACI 530.1, Section 3.4 D.

- K. WALL TIES: Install wall ties in accordance with ACI 530.1, Section 3.4 C.
- L. FOUNDATION DOWELS: It is the Contractor's responsibility to coordinate placement of dowels projecting from concrete foundations into reinforced masonry or brick walls.
- M. Bond beams with one (1) #5 bars horizontally shall be provided at all floor and roof lines and at the top of walls. Provide a bond beam with one (1) #5 bars horizontally above and below all openings, and extend these bars 2'-0" past the opening edge. Provide full height vertical reinforcement, matching typical vertical reinforcing, each side of openings, at wall ends and intersections.
- N. COLD-WEATHER CONSTRUCTION. When ambient air temperature is below 40-degrees F, implement Cold Weather procedures in accordance with ACI 530.1, Section 1.8 C.
- O. FIELD QUALITY CONTROL: Provide special inspection and verification in accordance with ACI 530.1, Section 3.7.
- P. CLEANING: Clean all exposed masonry surfaces in accordance with ACI 530.1, Section 3.8.

12. WOOD

- A. LUMBER: Grading shall be to the Standard Grading Rules of the WWP. Typical structural lumber shall be Number 2 Douglas-Fir/Larch or better. Members noted as wood beams, posts or columns shall be Number 1 Douglas-Fir/Larch or better. Studs for interior non-bearing walls may be stud grade lumber. Lumber to be left exposed, without other finish and lumber in contact with concrete shall be pressure treated.
- B. TREATED LUMBER: Lumber, including wood sheathing, to be left exposed without other finish, located within 8" of finish grade, or in contact with concrete shall be pressure treated material. Contractor shall coordinate and verify that all steel items in contact with the treated material, including steel hangers, connectors and fasteners have a galvanized finish of sufficient thickness, or other type of protection, that is compatible with the specific treatment type selected.
- C. BOLTS & LAG SCREWS FOR WOOD CONSTRUCTION: Conform to ANSI/ASME Standards B18.2.1-1981 and the National Design Specification for Wood Construction (NDS) 1991 Edition Part VIII for Bolts and Part IX for Screws.
- D. WOOD SCREWS: Conform to ANSI/ASME Standards B18.6.1-1981 and the National Design Specification for Wood Construction (NDS) 1991 Edition Part XI.
- E. NAILS & SPIKES: Conform to Federal Specification FF-N-105B and the National Design Specification (NDS) 1991 Edition Part XII.
- F. NAILING: Where not otherwise specified on the plans, nailing shall conform to IBC Table 2304.9.1, Fastening Schedule. All nails shall be common wire nails or pneumatically driven nails with an equivalent cross-section and penetration, unless noted otherwise.
- G. LUMBER HARDWARE: Wood construction connectors shall be as manufactured by Simpson Strong-Tie Company; current catalog, or an approved equal. Hardware exposed to weather or view, in unheated portions of the structure, or as indicated on the drawings or in the specifications shall be hot-dipped galvanized with galvanized fasteners.
- H. ROOF SHEATHING: All roof sheathing shall be 15/32" nominal, Exterior APA rated Sheathing {32/16} installed with ply-clips.
- I. EXTERIOR WALL SHEATHING: All exterior wall sheathing shall be 1/2" nominal APA rated Exterior sheathing.
- J. All wood framing, blocking and nailing shall conform to the current local building code.
- K. All rafters, trusses and joists shall have full depth blocking, unless noted otherwise on the plans and details, at bearing supports, shear transfer supports, intermediate and cantilever supports and at mid-span, and as required by the building code or product supplier.
- L. All framing hardware including column caps and bases, joist hangers, truss anchors, straps, etc. shall be approved (i.e. Simpson Co. or equivalent) or custom fabricated specifically as detailed on the plans. They shall be installed with nails, screws or bolts exactly as called for by the manufacturer or as noted on the plans.
- M. WOOD SHEATHED ROOF DIAPHRAGMS:
 - M.1. Unless otherwise noted on the drawings, orient roof sheathing with face-grain perpendicular to supporting members, with joints in adjacent rows staggered 1/2 panel length.
 - M.2. Provide 2x4 flat blocking at unsupported panel edges in areas noted as "Blocked Roof Diaphragm".
 - M.3. Nail sheathing per roof sheathing schedule shown on drawings.
- N. WOOD SHEATHED SHEAR WALLS:
 - N.1. Shear wall sheathing to be oriented vertically.
 - N.2. All unsupported edges to be backed with 2x solid blocking.
 - N.3. Nail sheathing as shown on drawings.
 - N.4. Minimum nailing where not noted otherwise shall be 10d nails @ 6" o.c. to all panel edges and 12" o.c. at intermediate supporting members.

13. PRE-ENGINEERED/FABRICATED WOOD TRUSSES

- A. All pre-engineered/fabricated wood (PFT) trusses indicated on the drawings shall be metal press-plate connected wood trusses designed by a Professional Engineer registered in the State of Utah per these notes and the specifications.
- B. Design PFT trusses to the following deflection limits:
 - B.1. Roof Dead + Live Load: Span/240 or 1 in maximum
 - B.2. Roof Live Load only: Span/360 or 1/2-in maximum
- C. Design PFT trusses to support the concentrated and other distributed loads as shown on the plans in addition to the following loads:
 - C.1. Dead Load (Top Chord) = 10 psf
 - C.2. Dead Load (Bottom Chord) = 10 psf
 - C.3. Snow Load* (Top Chord) = 41 psf
 - C.4. Live Load** (Bottom Chord) = 10 psf

* Does not include loads caused by drifting, unbalanced or sliding snow
 ** Does not occur concurrently with top chord live load
- D. Design all PFT trusses and bearing attachments for wind uplift, assuming a dead load of 8 psf to resist uplift.
- E. Shop drawings and design calculations signed and stamped by the Design Engineer shall be submitted to the Engineer for review prior to fabrication.
- F. All necessary bridging, blocking, pre-notched or beveled plates, hangers, etc. shall be detailed or specified on the shop drawings and furnished by the truss manufacturer.
- G. Truss manufacturer shall verify all setbacks, dimensions, overhangs, vertical controls and dimensions prior to fabrication.
- H. Alteration of the truss layout shown on the plans may require supporting structural and foundation changes, therefore, prior approval by the Engineer is required for any proposed layout change.
 - I. Trusses shall not be field modified without written authorization from the truss manufacturer's Engineer of Record.
 - J. Trusses shall be handled, erected and braced as directed by the truss manufacturer and per the requirements of the Truss Plate Institute Manual HIB-91 or current edition.



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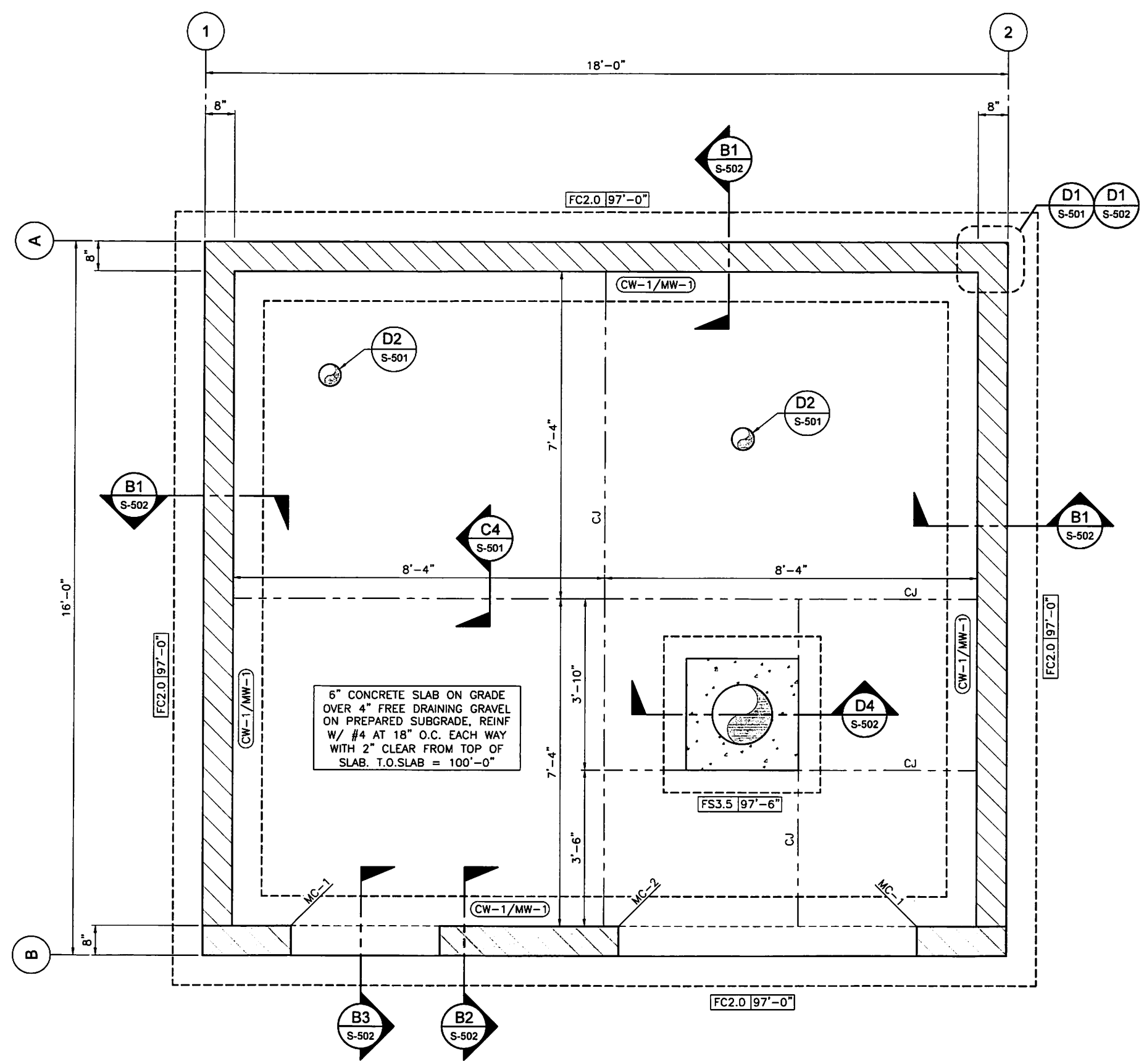
WISHING WELL CONNECTION TO SYSTEM
 HUNTSVILLE TOWN CORPORATION
 GENERAL STRUCTURAL NOTES

FILE 55-18-114_S-001X
 JUB PROJ. # 55-18-114
 DRAWN BY JRH
 DESIGN BY BRN
 CHECKED BY BRD
 1" = 1" ONE INCH
 AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY
 LAST UPDATED 6/12/2010

SHEET NUMBER:

S-002

Plot Date 05/20/2019 4:56 PM Plotted By: Treva Green
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FOUNDATION PLAN NOTES

1. SEE BUILDING FLOOR PLAN ON SHEET (A-101) FOR ALL BUILDING DIMENSIONS.
2. VERIFY FLOOR ELEVATIONS WITH ARCHITECTURAL ELEVATIONS.
3. COORDINATE LOCATION OF ALL PUMPS, PIPING, PIPE PENETRATIONS, AND DUCT PENETRATIONS WITH MECHANICAL AND ELECTRICAL DRAWINGS.
4. SEE ELECTRICAL DRAWINGS FOR ALL LIGHTING, ELECTRICAL APPARATUS, AND CONDUIT SIZE AND LOCATION.
5. SEE CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
6. SEE (B2/S-501) FOR COMPACTED STRUCTURAL FILL BENEATH FOOTINGS IF REQUIRED BY SITE SOIL CONDITIONS, SEE GENERAL STRUCTURAL NOTES.
7. SEE (D2/S-501) FOR REINFORCING AROUND MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
8. SEE (B3/S-501) & (B4/S-501) FOR BURIED PIPES RUNNING PARALLEL AND PERPENDICULAR TO FOOTINGS.
9. SEE (D4/S-501) FOR TYPICAL CONTROL JOINTS IN FLOOR SLABS.
10. SEE (B1/S-501) FOR CONCRETE REINFORCING STEEL LAP SCHEDULE.
11. SEE (D4/S-502) FOR REINFORCING AROUND MISCELLANEOUS OPENINGS IN MASONRY WALLS.
12. SEE (D2/S-502) FOR TERMINATION OF HORIZONTAL WALL REINFORCING AT ENDS OF WALLS AND OPENINGS.
13. SEE (D3/S-502) FOR MASONRY CONTROL JOINT DETAIL.

MARKS & SYMBOLS LEGEND

| MARK | DESCRIPTION |
|------|--|
| | SECTION MARK |
| | SHEET NUMBER |
| | FOOTING MARK |
| | TOP OF FOOTING ELEVATION |
| | DEPRESSED FOUNDATION WALL, POUR SLAB OVER, SEE (B3/S-502) |
| | CONCRETE WALL, SEE SCHEDULE ON (S-301) |
| | MASONRY WALL, SEE SCHEDULE ON (S-301) |
| | CONCRETE WALL, SEE SCHEDULE ON (S-301) |
| | MASONRY WALL, SEE SCHEDULE ON (S-301) |
| | CONCRETE WALL BELOW AND MASONRY WALL ABOVE, SEE SCHEDULES ON (S-301) |
| | MASONRY COLUMN, SEE SCHEDULE ON (S-301) |
| | MASONRY COLUMN, SEE SCHEDULE ON (S-301) |
| | CONTROL JOINT, SEE (C4/S-501) |
| | CONTINUOUS FOOTING SEE SCHEDULE ON (S-301) |
| | MASONRY CONTROL JOINT, SEE DETAIL (D3/S-502) |
| | INDICATES FLOOR DRAIN, SEE MECH DRAWINGS |

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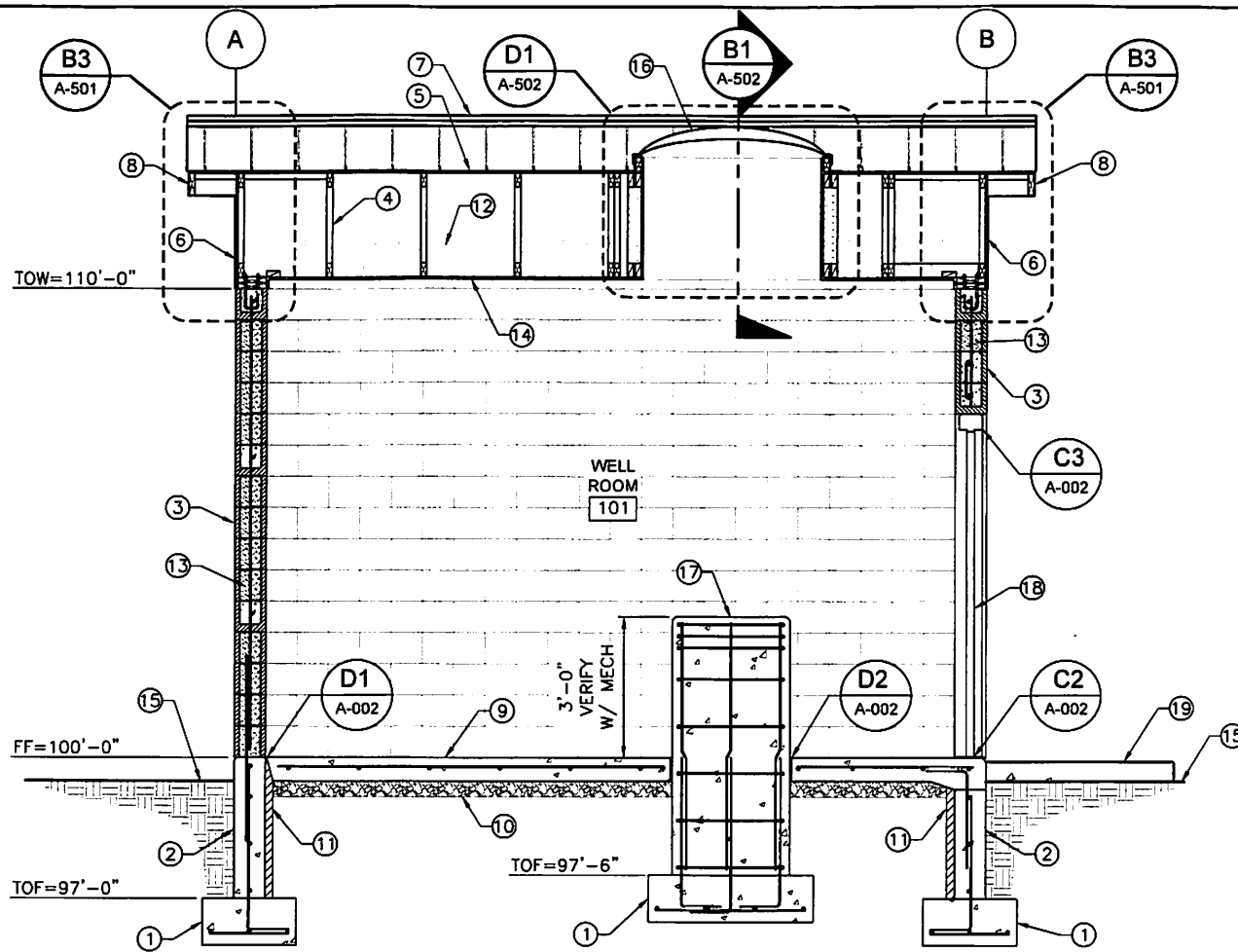
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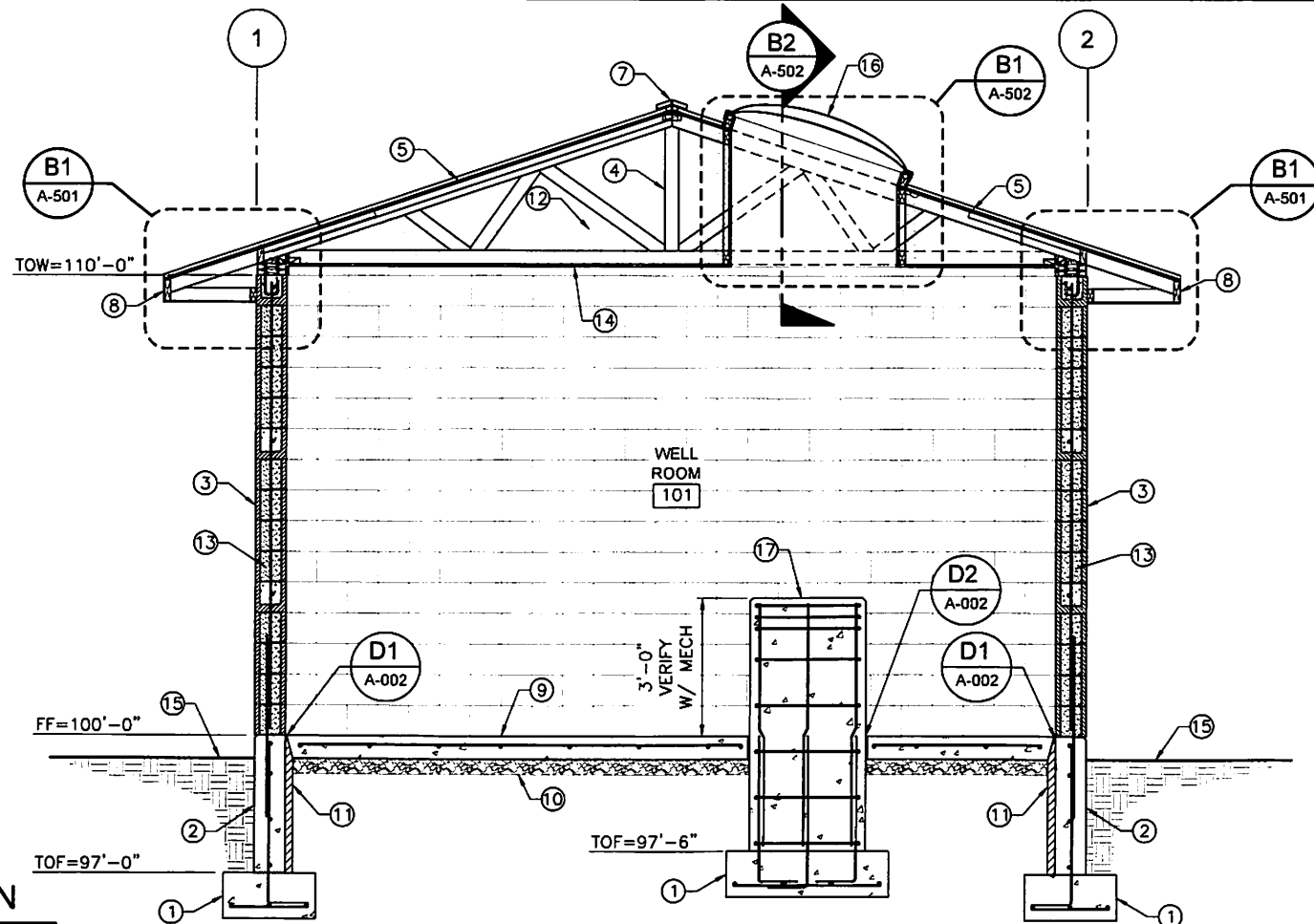
WISHING WELL CONNECTION TO SYSTEM
 HUNTSVILLE TOWN CORPORATION
 FOOTING AND FOUNDATION PLAN

D1 FOOTING AND FOUNDATION PLAN
SCALE: 3/4" = 1'-0"

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| JUB PROJ # | SS-18-114 |
| DRAWN BY | JRH |
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| LAST UPDATED 6/12/2019 | |
| SHEET NUMBER: S-101 | |



B1 BUILDING SECTION
SCALE: 1/2" = 1'-0"



D1 BUILDING SECTION
SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL TRIMS, FLASHING, AND FINISH PIECES TO PRESENT A FINISHED APPEARANCE.

KEY NOTES

- 1 CONCRETE FOOTING, SEE STRUC DRAWINGS
- 2 CONCRETE FOUNDATION WALL, SEE STRUC DRAWINGS
- 3 SPLIT-FACE CONCRETE MASONRY WALL, SEE STRUC DRAWINGS
- 4 PRE-FABRICATED WOOD TRUSS, SEE STRUC DRAWINGS
- 5 ROOF WITH STANDING SEAM SYSTEM, SEE ROOF PLAN
- 6 SIDING WITH STANDING SEAM SYSTEM
- 7 CONTINUOUS PRE-FINISHED METAL RIDGE VENT, SEE (D1/A-501)
- 8 METAL VENTED SOFFIT AND FACIA (MBCI FLUSH SEAM PANEL SYSTEM OR APPROVED EQUAL) MECHANICALLY FASTEN TO STRUCTURE
- 9 CONCRETE SLAB ON GRADE, SEE STRUC DRAWINGS
- 10 4" FREE DRAINING GRAVEL BASE, SEE STRUC DRAWINGS
- 11 2" RIGID INSULATION
- 12 R-38 BATT INSULATION
- 13 LOOSE FILL INSULATION IN ALL UNGROUTED CELLS
- 14 5/8" GYPSUM BOARD CEILING
- 15 APPROXIMATE FINISHED GRADE, SEE CIVIL DRAWINGS
- 16 4'-0"x4'-0" SKYLIGHT, SEE ROOF PLAN
- 17 WELL PEDESTAL, SEE STRUCTURAL
- 18 DOOR AND FRAME, REFER TO DOOR SCHEDULE
- 19 EXTERIOR CONCRETE FLATWORK, SEE CIVIL DRAWINGS



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WISHING WELL CONNECTION TO SYSTEM
HUNTSVILLE TOWN CORPORATION

BUILDING SECTIONS

FILE 55-18-114 A-101X
JUB PROJ. # 55-18-114
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DESIGN BY BRN
CHECKED BY BRD
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LAST UPDATED 6/12/2019

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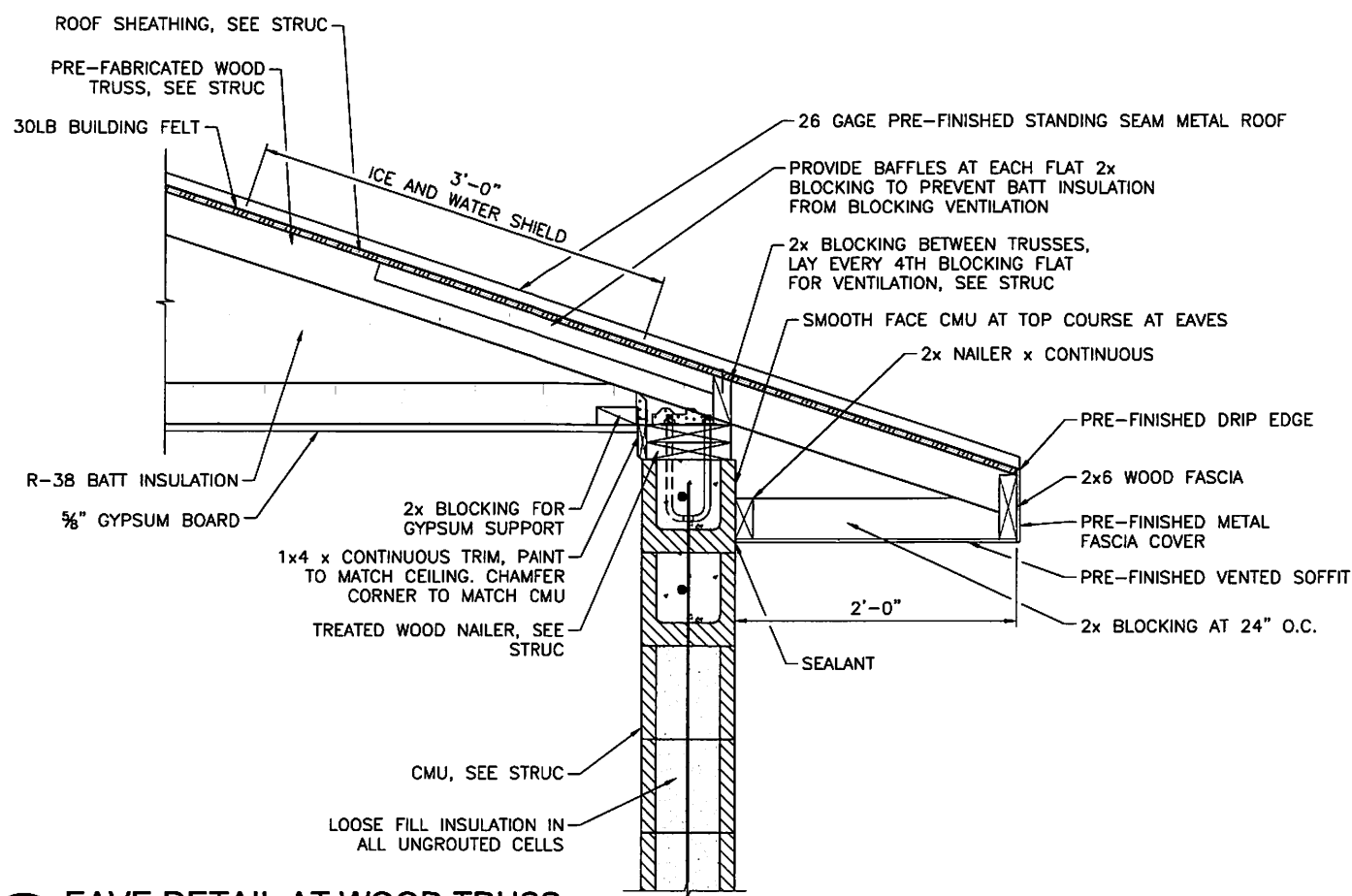
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WISHING WELL CONNECTION TO SYSTEM
 HUNTSVILLE TOWN CORPORATION
 ARCHITECTURAL DETAILS

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 JUB PROJ. # 55-18-114
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 DESIGN BY: BRN
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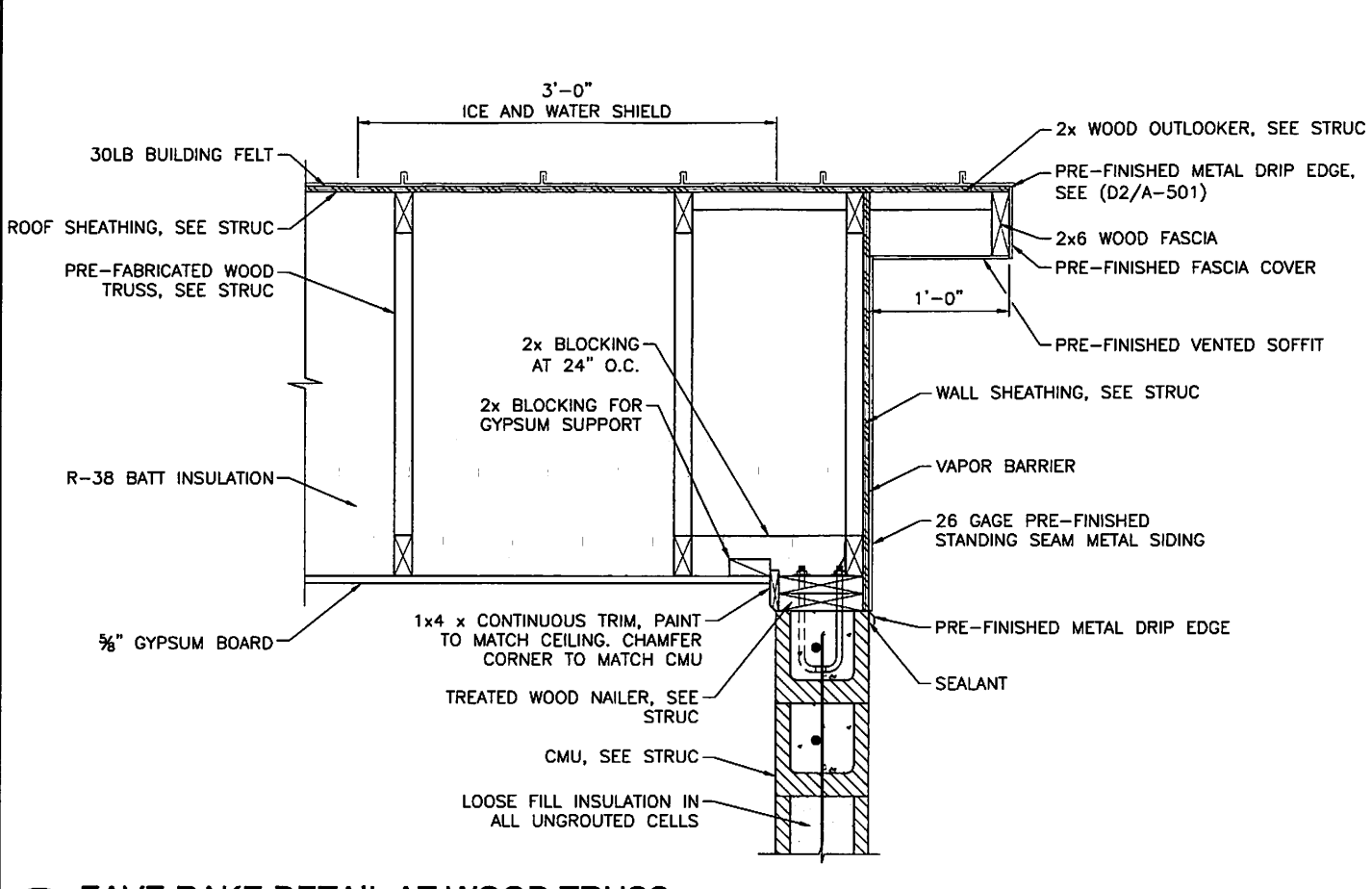
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A-501



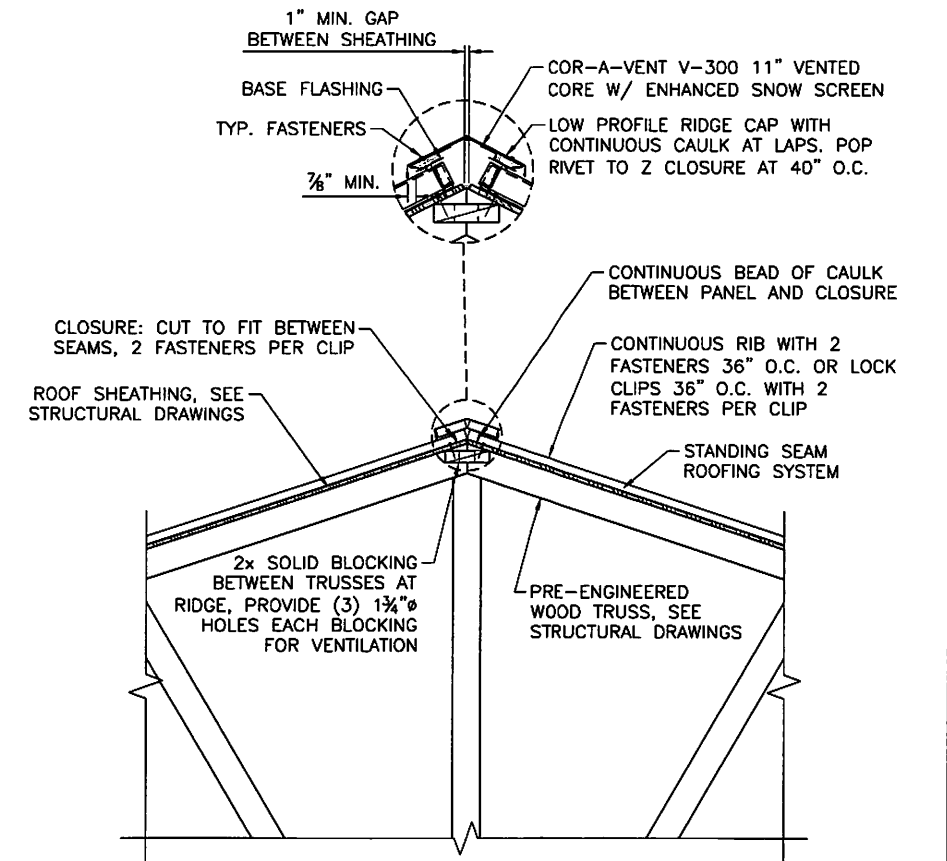
B1 EAVE DETAIL AT WOOD TRUSS

SCALE: 1-1/2" = 1'-0"



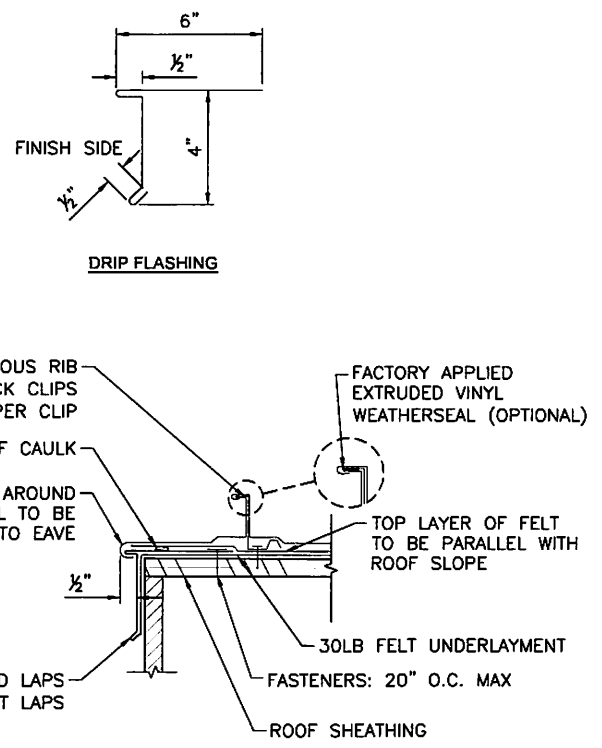
B3 EAVE RAKE DETAIL AT WOOD TRUSS

SCALE: 1-1/2" = 1'-0"



D1 RIDGE DETAIL AT WOOD TRUSS

SCALE: 1" = 1'-0"



D2 GABLE TURNDOWN DETAIL

SCALE: N.T.S.

NOTES:
 1. FIELD CUT AND FORM LAST PANEL AROUND DRIP FLASHING. PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE.

P:\DWG\2019\18-114\HUNTSVILLE-CULINARY WATER PROJECT\SCADSHED\ARCHITECTURAL\55-18-114 A-101X.DWG
 Date Created: 04/20/19 4:59 PM
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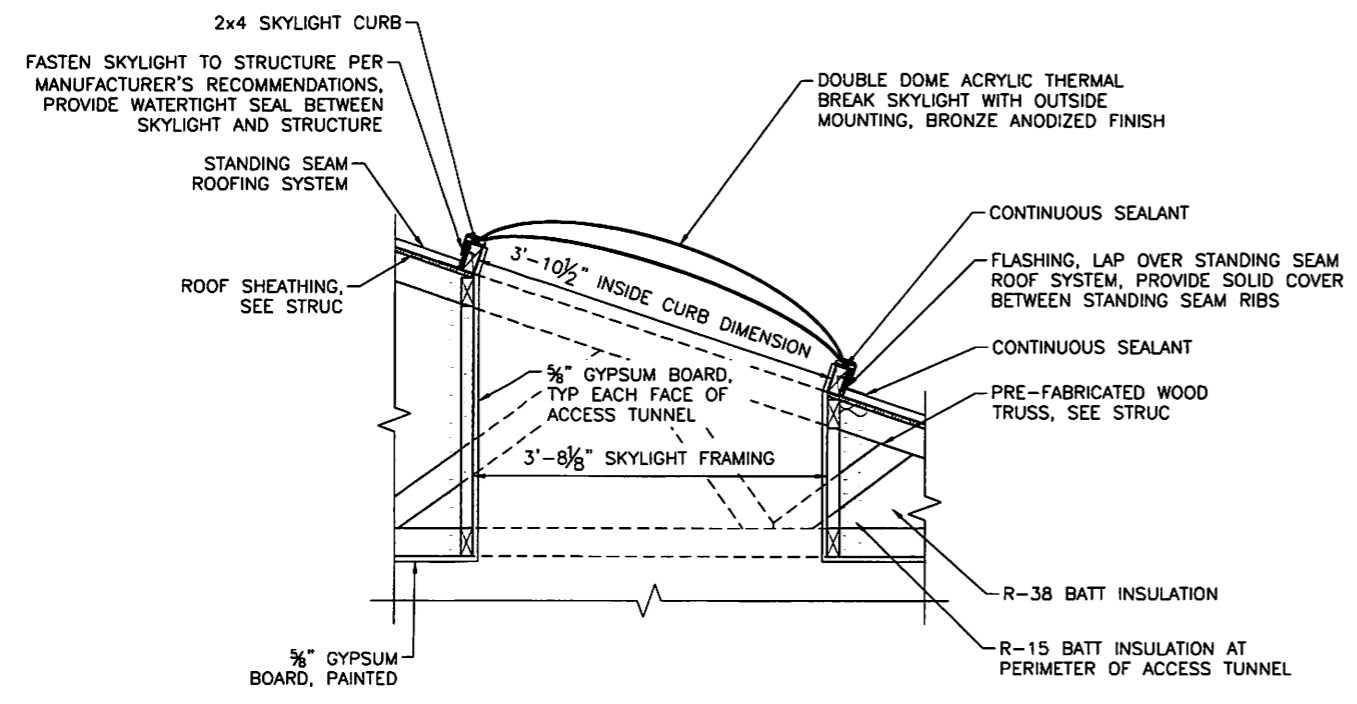
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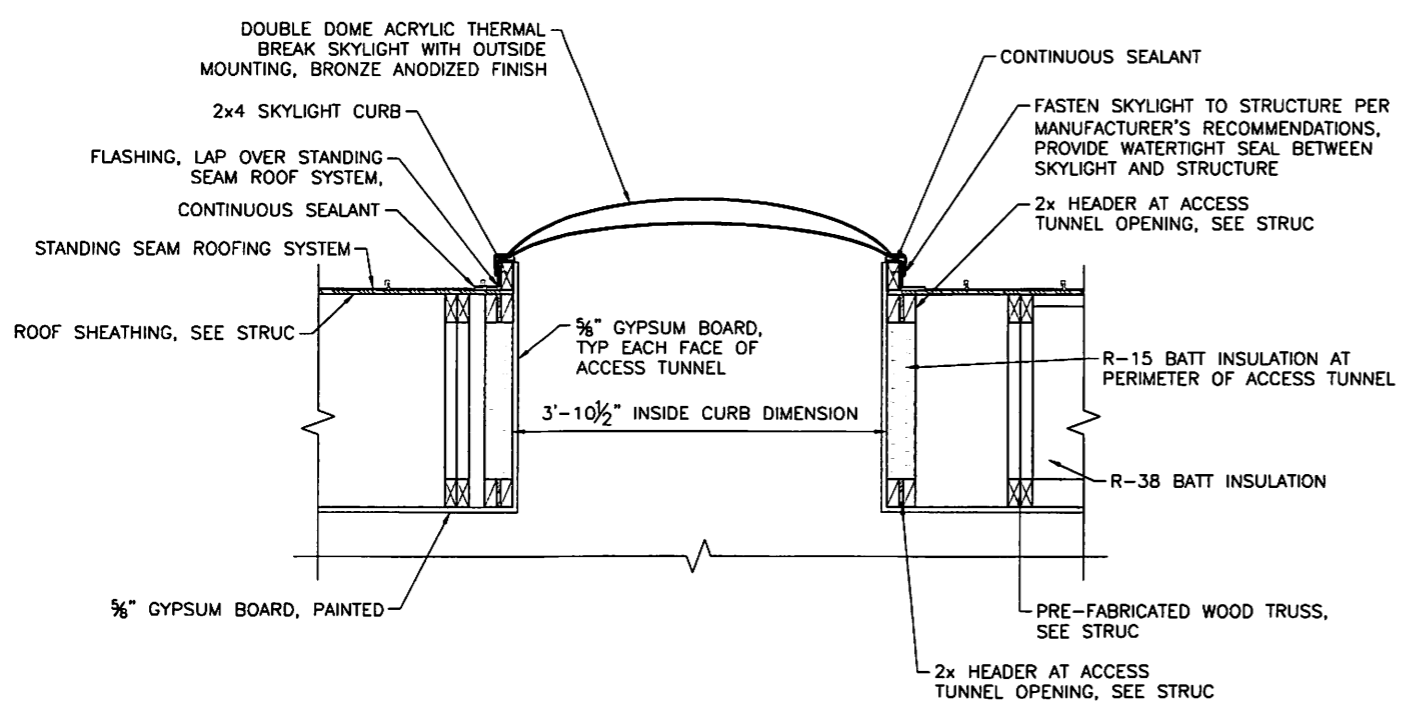
WISHING WELL CONNECTION TO SYSTEM
 HUNTSVILLE TOWN CORPORATION
 ARCHITECTURAL DETAILS

| | |
|--------------|---|
| FILE | 55-18-114 A-101X |
| JUB PROJ # | 55-18-114 |
| DRAWN BY | JRH |
| DESIGN BY | BRN |
| CHECKED BY | BRD |
| SCALE | ONE INCH = AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY |
| LAST UPDATED | 6/12/2019 |

SHEET NUMBER:
A-502



B1 ACCESS TUNNEL SECTION - PERPENDICULAR TO ROOF TRUSS
 SCALE: 1" = 1'-0"

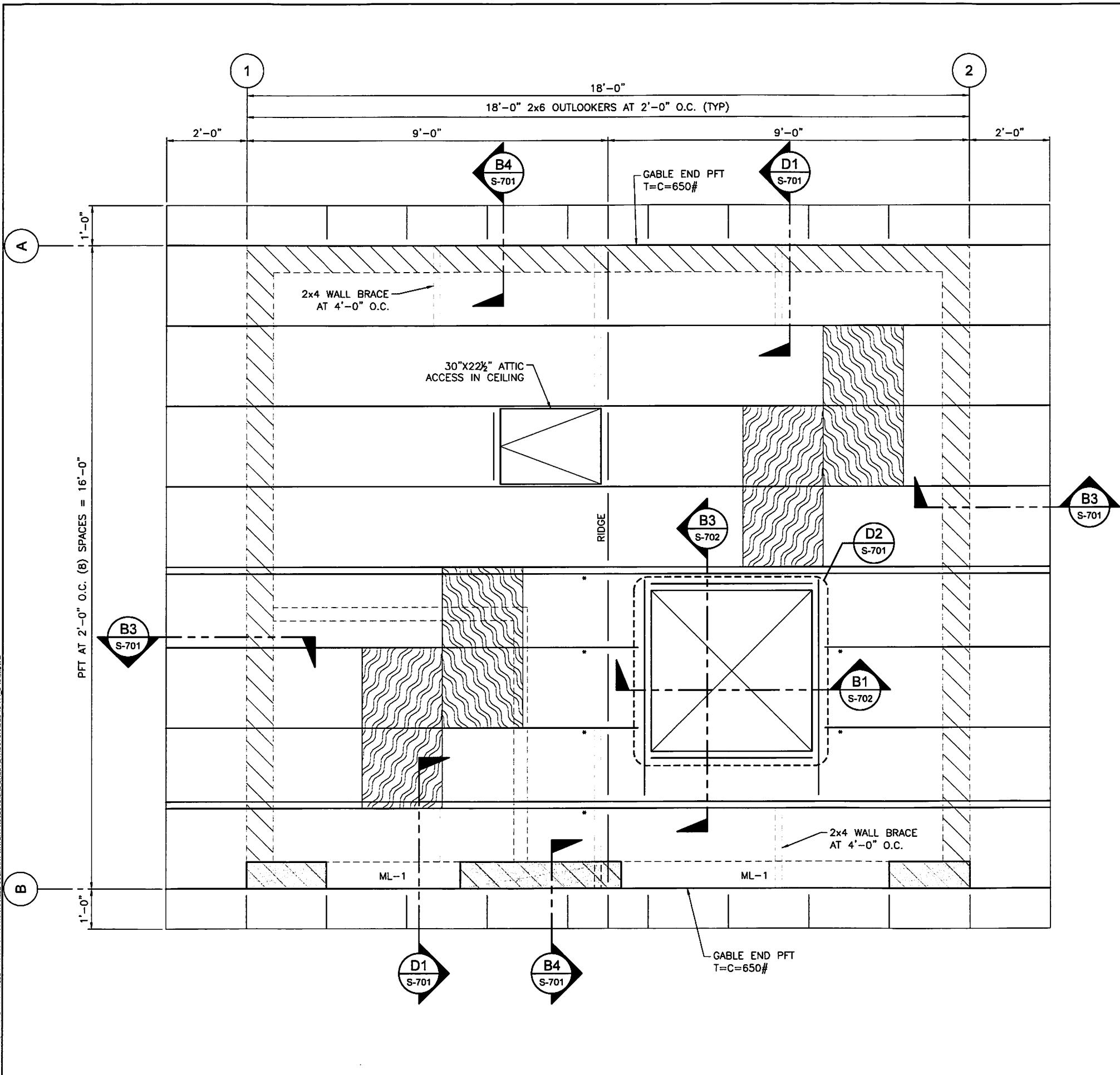


D1 ACCESS TUNNEL SECTION - PARALLEL TO ROOF TRUSS
 SCALE: 1" = 1'-0"

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 Date Created: 04/20/19. P:\PROJECTS\HUNTSVILLE_TOWN\55-18-114-HUNTSVILLE-COMMUNITY-WATER-PROJECT\CADD\55-18-114-A-101X.DWG

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D1 ROOF FRAMING PLAN
SCALE: 3/4" = 1'-0"

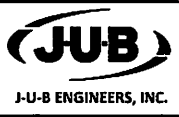


ROOF FRAMING PLAN NOTES

1. VERIFY ROOF SLOPES, DRAINS, AND DECK BEARING ELEVATIONS WITH ARCHITECTURAL ELEVATIONS.
2. SEE ARCHITECTURAL ELEVATIONS FOR ALL CEILING, AND SOFFIT ELEVATIONS AND DETAILS.
3. ALL ROOF SHEATHING SHALL HAVE FACE GRAIN PERPENDICULAR TO FRAMING MEMBERS, UNLESS NOTED OTHERWISE. SEE SCHEDULE ON SHEET (S-301) FOR SHEATHING TYPE AND NAILING REQUIREMENTS.
4. WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE SUBMITTED TO ENGINEER IN WRITING FOR REVIEW PRIOR TO PLACEMENT OF ROOF FRAMING.
5. TRUSS MANUFACTURER TO SUBMIT SHOP DRAWINGS FOR REVIEW OF ALL FRAMING WORK.
6. SEE GENERAL STRUCTURAL NOTES ON SHEET (S00-2) FOR DESIGN LOADS OF PREFABRICATED WOOD TRUSSES.
7. ALL TRUSS DETAILS, AND TRUSS TO GIRDER TRUSS DETAILS SHALL BE PROVIDED BY THE TRUSS MANUFACTURER.
8. TRUSS MANUFACTURER SHALL VERIFY ALL CEILING ELEVATIONS AND SPECIAL CONDITIONS PRIOR TO FABRICATION.
9. CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY BRACE BEAMS, TRUSSES, ETC. AS REQUIRED DURING CONSTRUCTION.
10. * - INDICATES THAT THESE JOISTS SHALL BE DESIGNED FOR AN ADDLOAD OF 200# AT ANY TOP CHORD PANEL POINT. THIS LOAD IS TO BE ADDED TO THE GIRDER TOP CHORD LOAD. MULTIPLE "*" ARE ADDITIVE.
11. SEE (D4/S-502) FOR REINFORCING AROUND MISCELLANEOUS OPENINGS IN MASONRY WALLS.
12. SEE (D2/S-502) FOR TERMINATION OF HORIZONTAL WALL REINFORCING AT ENDS OF WALLS AND OPENINGS.
13. SEE (D3/S-502) FOR MASONRY WALL CONTROL JOINTS.
14. SEE (B1/S-701) FOR TYPICAL ROOF OPENINGS LESS THAN 24" SQUARE.

MARKS & SYMBOLS LEGEND

| MARK | DESCRIPTION |
|------|--|
| | SECTION MARK |
| | SHEET NUMBER |
| | ROOF SHEATHING ORIENTATION, SEE SCHEDULE ON (S-301) |
| | MASONRY WALL BELOW |
| | MASONRY COLUMN, SEE SCHEDULE ON (S-301) |
| | MASONRY LINTEL, SEE SCHEDULE ON (S-301) |
| | PFT TOP CHORD SHALL BE DESIGNED FOR AN ADDITIONAL LOAD OF "x" # IN TENSION AND COMPRESSION. LOADS PROVIDED ARE AT SERVICE LEVEL. |



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WISHING WELL CONNECTION TO SYSTEM
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 ROOF FRAMING PLAN

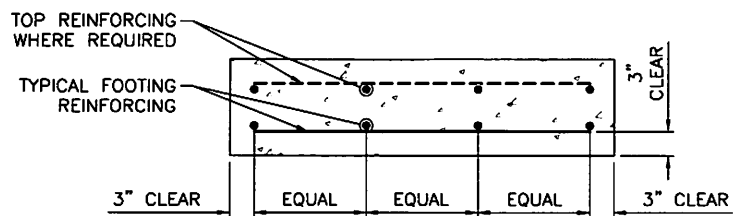
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 DRAWN BY: JRH
 DESIGN BY: BRM
 CHECKED BY: BRD
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 AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY
 LAST UPDATED 6/12/2015
 SHEET NUMBER:
S-102

CONCRETE FOOTING SCHEDULE

| FOOTING MARK | WIDTH | LENGTH | DEPTH | REINFORCING CROSSWISE | | | | REINFORCING LENGTHWISE | | | | REMARKS |
|--------------|-------|--------|-------|-----------------------|------|--------|---------|------------------------|------|--------|---------|---------|
| | | | | NO. | SIZE | LENGTH | SPACING | NO. | SIZE | LENGTH | SPACING | |
| FC2.0 | 2'-0" | CONT | 12" | - | - | - | - | 3 | #4 | CONT | EQ | |
| FC3.5 | 3'-6" | 3'-6" | 12" | 4 | #5 | 3'-0" | EQ | 4 | #5 | 3'-0" | EQ | |

CONCRETE FOOTING NOTES:

- PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER UNLESS OTHERWISE NOTED.
- TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
- IF FOOTINGS ARE EARTH FORMED, FOOTING WIDTH AND LENGTH SHALL BE 6" WIDER AND LONGER THAN SCHEDULED.
- NOT ALL FOOTINGS ARE USED, SEE FOUNDATION PLAN FOR FOOTING MARKS.
- RUN CONTINUOUS BARS IN "FC" FOOTING THROUGH INTERSECTED "FS" FOOTINGS.
- SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.
- CENTER SPOT FOOTINGS AT COLUMN LOCATIONS.



TYPICAL FOOTING SECTION

B1 CONCRETE FOOTING SCHEDULE

SCALE: NOT TO SCALE

CONCRETE WALL SCHEDULE

| WALL MARK | THICKNESS | REINFORCING | | WALL TYPE | REMARKS |
|-----------|-----------|-----------------|-----------------|-----------|---------|
| | | VERTICAL | HORIZONTAL | | |
| CW-1 | 8" | (1) #5 AT 16"oc | (1) #4 AT 12"oc | A | |

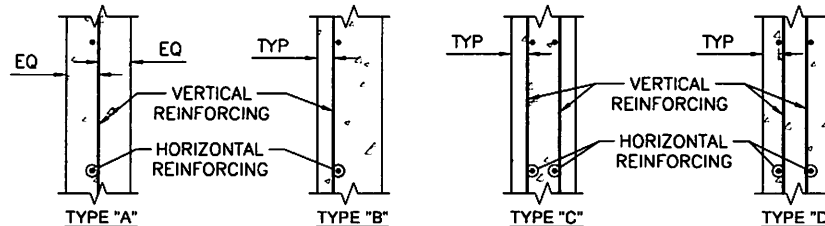
CONCRETE WALL NOTES:

- SEE GENERAL STRUCTURAL NOTES FOR REQUIREMENTS NOT SHOWN IN SCHEDULE.
- CONCRETE WALLS NOT DESIGNATED ON THE PLANS SHALL BE REINFORCED AS FOLLOWS:

| THICKNESS | VERTICAL REINFORCING | HORIZONTAL REINFORCING |
|-----------|-----------------------|------------------------|
| 6" | #4 AT 18"oc | #4 AT 16"oc |
| 8" | #4 AT 18"oc | #4 AT 12"oc |
| 10" | #4 AT 16"oc | #5 AT 15"oc |
| 12" | #4 AT 18"oc EACH FACE | #4 AT 16"oc EACH FACE |

- PLACE STEEL IN THE CENTER OF THE WALL (EXCEPT TYPE "B" AND RETAINING WALLS). WALLS THICKER THAN 10" SHALL HAVE TWO CURTAINS OF REINFORCEMENT (PLACED NEAR EACH FACE OF THE WALL) UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- TYPICAL HORIZONTAL BAR SHALL BE PLACED AT THE BOTTOM OF THE WALL (NEAR THE FOOTING) AT EACH FLOOR LEVEL, AT THE ROOF LEVEL, AND AT THE TOP OF WALL.

CONCRETE WALL PLACEMENT TYPES:



B2 CONCRETE WALL SCHEDULE

SCALE: NOT TO SCALE

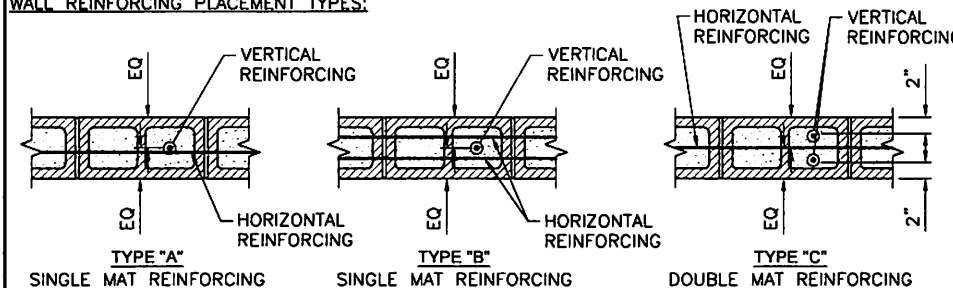
MASONRY WALL SCHEDULE

| WALL MARK | THICKNESS | f _m (psi) | SOLID GROUT | REINFORCING | | | SPECIAL INSPECTION |
|-----------|-----------|----------------------|-------------|-----------------|-----------------|------|--------------------|
| | | | | VERTICAL | HORIZONTAL | TYPE | |
| MW-1 | 8" | 1500 | NO | (1) #5 AT 32"oc | (1) #5 AT 40"oc | A | YES |

MASONRY WALL NOTES:

- DO NOT SOLID GROUT WALLS UNLESS NOTED OTHERWISE.
- INSTALL LOOSE FILL INSULATION IN ALL UNGROUTED CELLS WHERE NOTED.
- ALL MASONRY BELOW GRADE SHALL BE SOLID GROUTED.
- VERTICAL REINFORCING SHALL BE CENTERED IN THE WALL UNLESS NOTED OTHERWISE.
- (1) VERTICAL BARS MINIMUM AT ALL CORNERS AND END OF WALLS.
- HORIZONTAL WALL REINFORCING SHALL BE PLACED BETWEEN VERTICAL MASONRY COLUMN REINFORCING BARS.
- HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
- SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.

WALL REINFORCING PLACEMENT TYPES:



B3 MASONRY WALL SCHEDULE

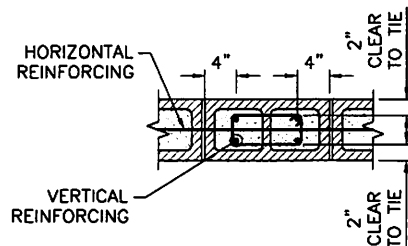
SCALE: NOT TO SCALE

MASONRY COLUMN SCHEDULE

| COLUMN MARK | COLUMN SIZE | REINFORCING | | | REMARKS |
|-------------|-------------|-------------|------------|---------------|---------|
| | | VERTICAL | TIES | CONFIGURATION | |
| MC-1 | 8"x24" | (3) #5 | #4 AT 8"oc | | |
| MC-2 | 8"x48" | (6) #5 | #4 AT 8"oc | | |

MASONRY COLUMN NOTES:

- THE CENTERLINE OF VERTICAL BARS SHALL BE LOCATED 2 1/4" FROM THE FACE OF THE MASONRY. HORIZONTAL WALL REINFORCING SHALL BE LOCATED TO THE INSIDE OF THE VERTICAL BARS. UNLESS NOTED OTHERWISE, VERTICAL REINFORCING AND TIES SHALL EXTEND TO FULL WALL HEIGHT.
- VERTICAL MASONRY COLUMN REINFORCING SHALL EXTEND INTO THE FOOTING AND TERMINATE WITH A STANDARD 90° HOOK.
- IN CONCRETE FOUNDATION WALLS, VERTICAL MASONRY COLUMN REINFORCING SHALL BE TIED WITH #3 TIES AT THE SAME SPACING AND CONFIGURATION AS MASONRY COLUMNS ABOVE.
- SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.



SCHEMATIC MASONRY COLUMN CONFIGURATION

D1 MASONRY COLUMN SCHEDULE

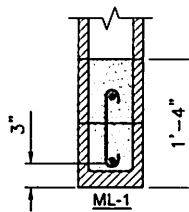
SCALE: NOT TO SCALE

MASONRY LINTEL SCHEDULE

| LINTEL MARK | LINTEL DEPTH | LINTEL SPAN MAXIMUM | REINFORCING | |
|-------------|--------------|---------------------|------------------------------|---------------|
| | | | HORIZONTAL | STIRRUPS |
| ML-1 | 1'-4" | 7'-0" | (1) #5 BAR CONT TOP & BOTTOM | #4 AT 8" O.C. |

MASONRY LINTEL NOTES:

- LINTEL WIDTH AND MATERIAL TYPE SHALL BE THE SAME AS THE WALL IN WHICH THE LINTEL IS CONSTRUCTED.
- GROUT MASONRY LINTELS MONOLITHICALLY WITH THE SUPPORT WALL OR COLUMN AT EACH END.
- MASONRY LINTELS ML-1 SHALL BE USED OVER OPENINGS IN MASONRY WALLS WHEN A SPECIFIC MASONRY LINTEL IS NOT OTHERWISE SPECIFIED. WHEN A LINTEL IS SPECIFIED ON THE PLANS, THE MAXIMUM SPAN AS NOTED IN THIS SCHEDULE SHALL NOT APPLY. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SPECIFIED ON THE PLANS WHICH HAVE A SPAN GREATER THAN 7'-0".
- EXTEND ALL HORIZONTAL REINFORCING 48 BAR DIAMETERS MINIMUM BEYOND THE EDGE OF ALL OPENINGS. IF HORIZONTAL REINFORCING CANNOT EXTEND 48 BAR DIAMETERS BEYOND EDGE OF OPENING, PROVIDE 90° STANDARD HOOK.
- SPLICE TOP BARS AT MID-SPAN OF LINTEL ONLY AND BOTTOM BARS OVER SUPPORTS ONLY.
- HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
- DOWEL VERTICAL REINFORCING OF WALL ABOVE LINTEL INTO THE FULL DEPTH OF LINTEL OR 48 BAR DIAMETERS, WHICHEVER IS LESS.
- SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.



D2 MASONRY LINTEL SCHEDULE

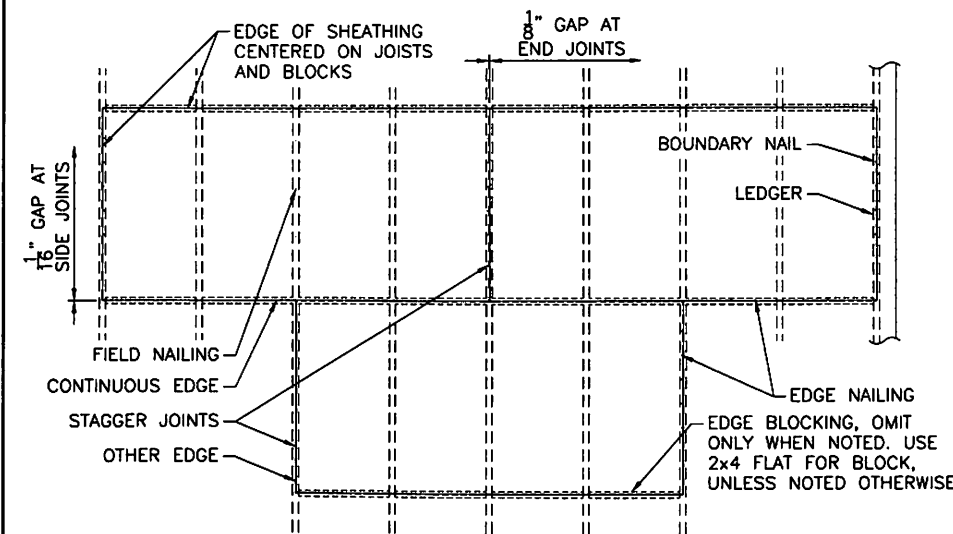
SCALE: NOT TO SCALE

ROOF SHEATHING SCHEDULE

| LOCATION | WOOD SHEATHING THICKNESS | NAIL SIZE | EDGE NAIL | | FIELD NAIL | BOUNDARY NAIL | EDGE BLOCK |
|----------|--------------------------|-----------|-----------|------------|------------|---------------|------------|
| | | | CONT EDGE | OTHER EDGE | | | |
| TYPICAL | 15/32" (32/16) | 8d | 6"oc | 6"oc | 12"oc | 6"oc | NO |

ROOF SHEATHING NOTES:

- MINIMUM NAIL PENETRATION INTO FRAMING: 8d-1 1/2", 10d-1 5/8"
- USE COMMON NAILS (8d DIAMETER=0.131", 10d DIAMETER=0.148")
- SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.



D3 ROOF SHEATHING SCHEDULE

SCALE: NOT TO SCALE



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HUNTSVILLE TOWN CORPORATION

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JUB PROJ. # 55-18-114
DRAWN BY: JRH
DESIGN BY: BRN
CHECKED BY: BRD
ONE INCH
AT FULL SIZE. IF NOT ONE
INCH SCALE ACCORDINGLY
LAST UPDATED: 8/12/2018

SHEET NUMBER:

S-301

Per Date: 05/25/2018 4:50 PM. Plotted By: Travis Green
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CONC REINFORCING LAP SCHEDULE

| BAR SIZE | LAP CLASS | f _c = 3,000 psi | | f _c = 4,000 psi | | f _c = 4,500 psi | | f _c = 5,000 psi | |
|----------|-----------|----------------------------|--------|----------------------------|--------|----------------------------|--------|----------------------------|--------|
| | | CAT. 1 | CAT. 2 | CAT. 1 | CAT. 2 | CAT. 1 | CAT. 2 | CAT. 1 | CAT. 2 |
| #4 | A | 22" | 33" | 19" | 28" | 18" | 27" | 17" | 25" |
| | B | 28" | 43" | 25" | 37" | 24" | 35" | 22" | 33" |
| #5 | A | 27" | 41" | 24" | 36" | 23" | 34" | 21" | 32" |
| | B | 36" | 53" | 31" | 46" | 30" | 44" | 28" | 41" |
| #6 | A | 33" | 49" | 28" | 43" | 27" | 41" | 25" | 38" |
| | B | 43" | 64" | 37" | 55" | 36" | 53" | 33" | 50" |
| #7 | A | 48" | 72" | 42" | 62" | 40" | 59" | 37" | 56" |
| | B | 62" | 93" | 54" | 81" | 51" | 77" | 48" | 72" |
| #8 | A | 55" | 82" | 47" | 71" | 45" | 68" | 42" | 64" |
| | B | 71" | 106" | 61" | 92" | 58" | 88" | 55" | 83" |
| #9 | A | 62" | 92" | 53" | 80" | 51" | 76" | 48" | 72" |
| | B | 80" | 120" | 69" | 104" | 66" | 99" | 62" | 93" |
| #10 | A | 80" | 120" | 61" | 92" | 57" | 86" | 54" | 81" |
| | B | 90" | 135" | 79" | 119" | 74" | 111" | 70" | 105" |

CONCRETE REINFORCING LAP NOTES:

- FOR GRADE 60 REINFORCING BARS.
- ALL LAP SPLICES SHALL BE CLASS B, UNLESS NOTED OTHERWISE.
- CATEGORY 1: CLEAR COVER \geq db & CLR. SPACING \geq db, AND STIRRUPS OR TIES THROUGHOUT L_d ARE PROVIDED.
- CATEGORY 2: CLEAR COVER \geq db & CLR. SPACING \geq 2db.
- CATEGORY 3: CLEAR COVER $<$ db OR CLR. SPACING $<$ 2db.
- FOR TOP BARS MULTIPLY LAP LENGTH LISTED BY 1.30. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.

B1 CONCRETE REINFORCING LAP SCHEDULE

SCALE: NOT TO SCALE

B2 TYPICAL COMPACTED STRUCTURAL FILL

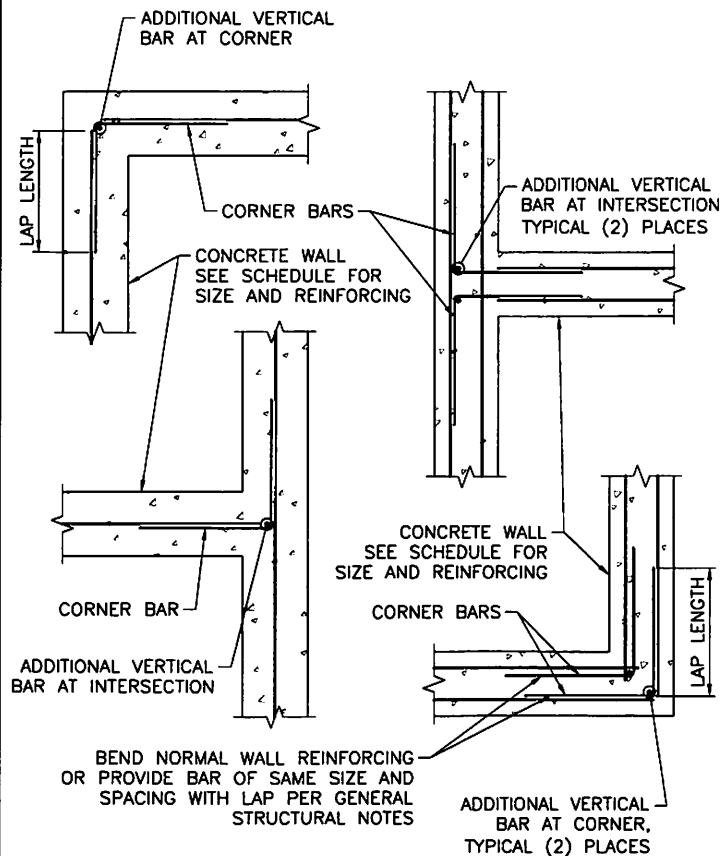
SCALE: NOT TO SCALE

B3 PIPE PARALLEL TO FOOTING DETAIL

SCALE: NOT TO SCALE

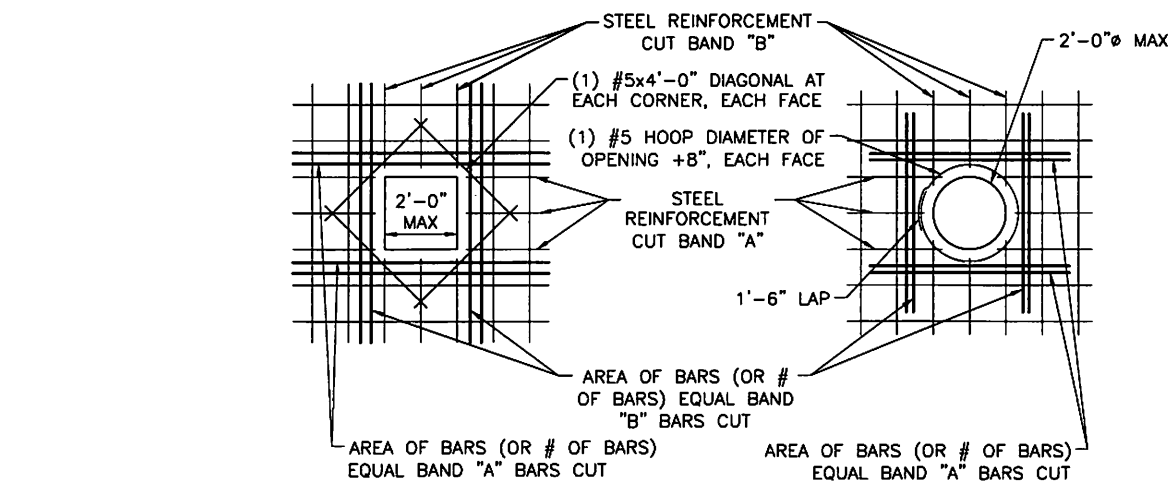
B4 PIPE PERPENDICULAR TO FOOTING DETAIL

SCALE: NOT TO SCALE



D1 CORNER REINFORCING DETAIL FOR CONCRETE WALLS

SCALE: NOT TO SCALE



SQUARE/RECTANGULAR OPENINGS

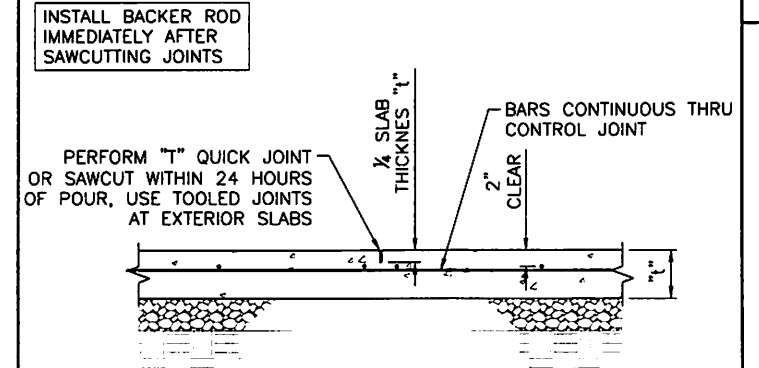
CIRCULAR OPENINGS

GENERAL NOTES:

- TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS UNLESS INDICATED OTHERWISE ON PLANS.
- COORDINATE PLACEMENT OF ALL PIPING AND REINFORCING STEEL SO THAT NO CONTACT EXISTS BETWEEN TWO METALS.
- DO NOT WELD REINFORCEMENT TO PIPE SLEEVES, INSERTS OR EMBEDMENTS.
- PROVIDE A MINIMUM OF TWO (2) "A" BARS AND TWO (2) "B" BARS EACH SIDE OF OPENING (1 EACH FACE).
- SPACE BARS AT 3 BAR DIAMETERS (OR 3" MIN) ON CENTER.
- IF OPENING REINFORCING TERMINATES AT THE EDGE OF THE SLAB PROVIDE A STANDARD HOOK ON THE "EDGE" SIDE OF THE REINFORCING.
- CONTINUE SPLICE REINFORCEMENT THROUGH ONE SPAN LENGTH PLUS REQUIRED EMBEDMENT LENGTH.
- AT CIRCULAR OPENING PIPE PENETRATIONS, CONTRACTOR SHALL CAST PIPE IN SEEP RING.

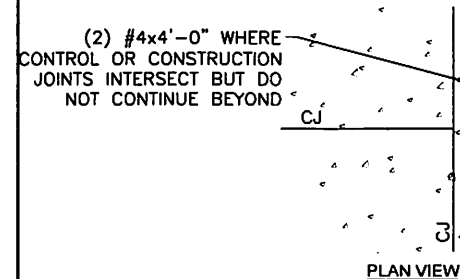
D2 TYPICAL OPENING REINFORCING DETAIL

SCALE: NOT TO SCALE



C4 TYPICAL CONTROL JOINT DETAIL

SCALE: 1" = 1'-0"



D4 ADDITIONAL SLAB REINF LOCATION

SCALE: NOT TO SCALE



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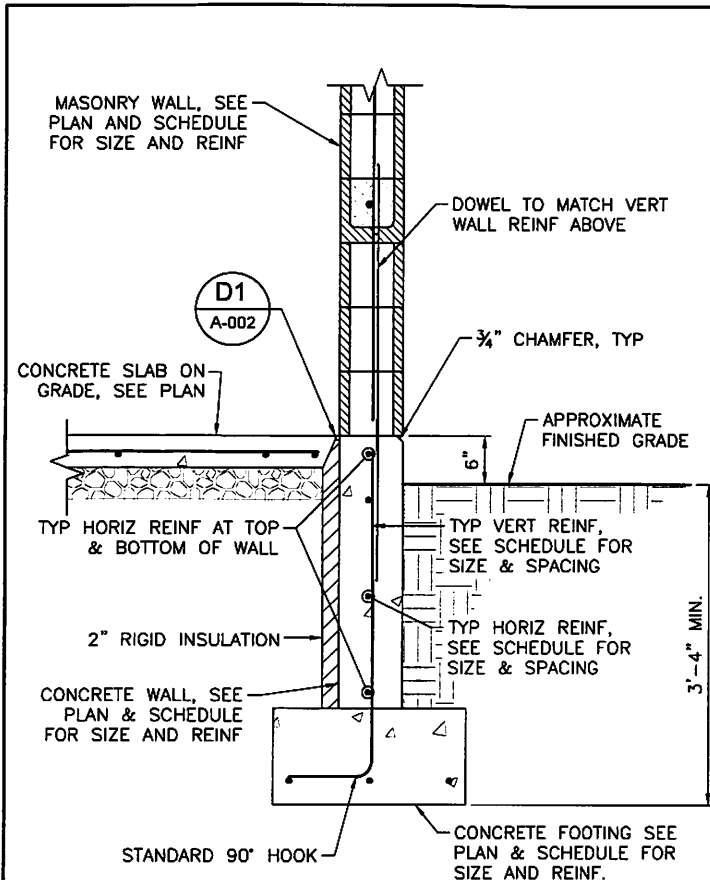
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DRAWN BY: JRH
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LAST UPDATED: 6/12/2019
SHEET NUMBER:

S-501

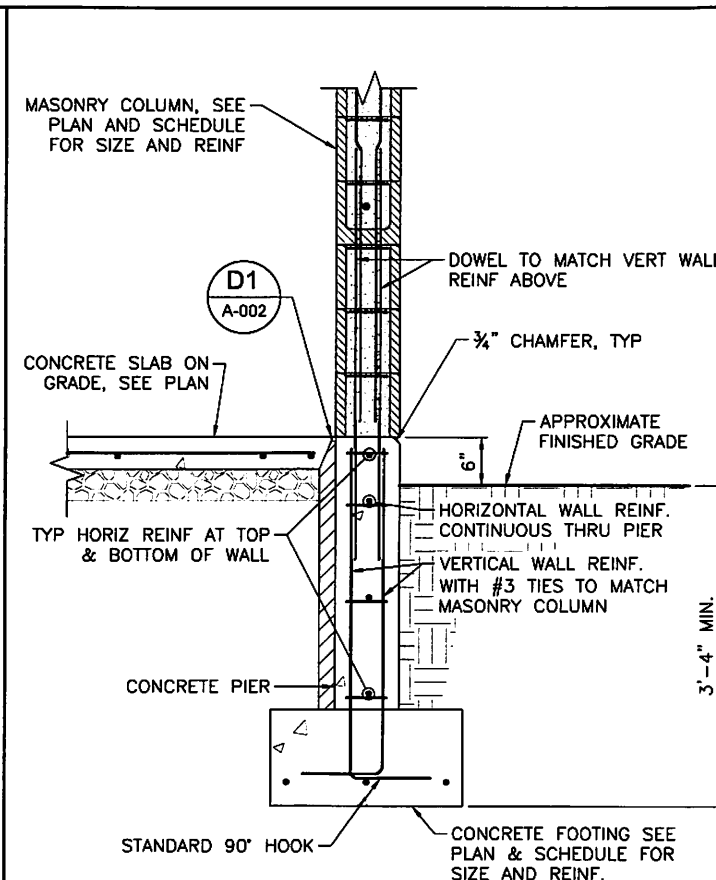
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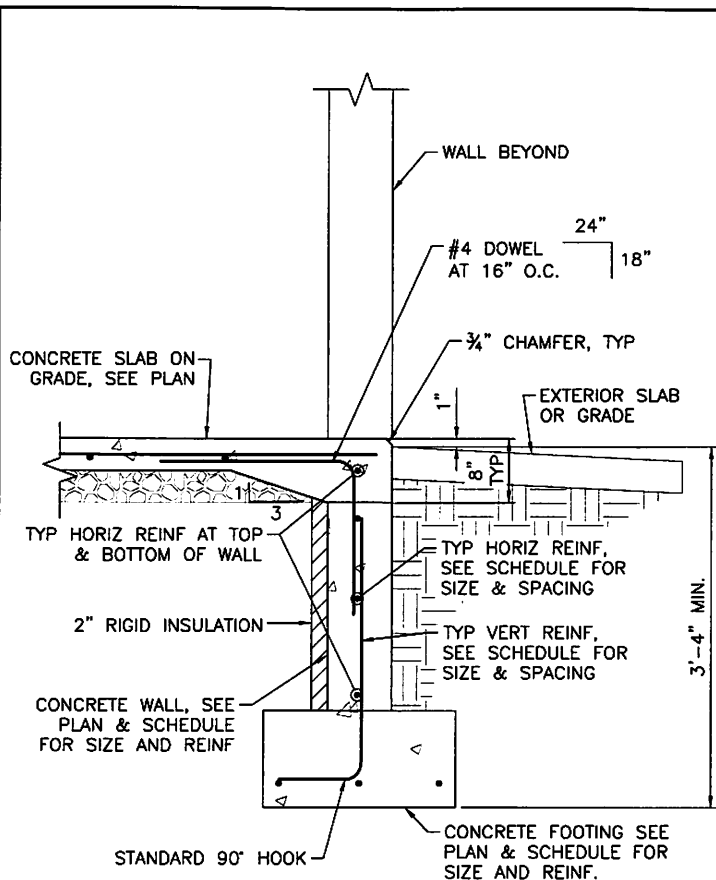
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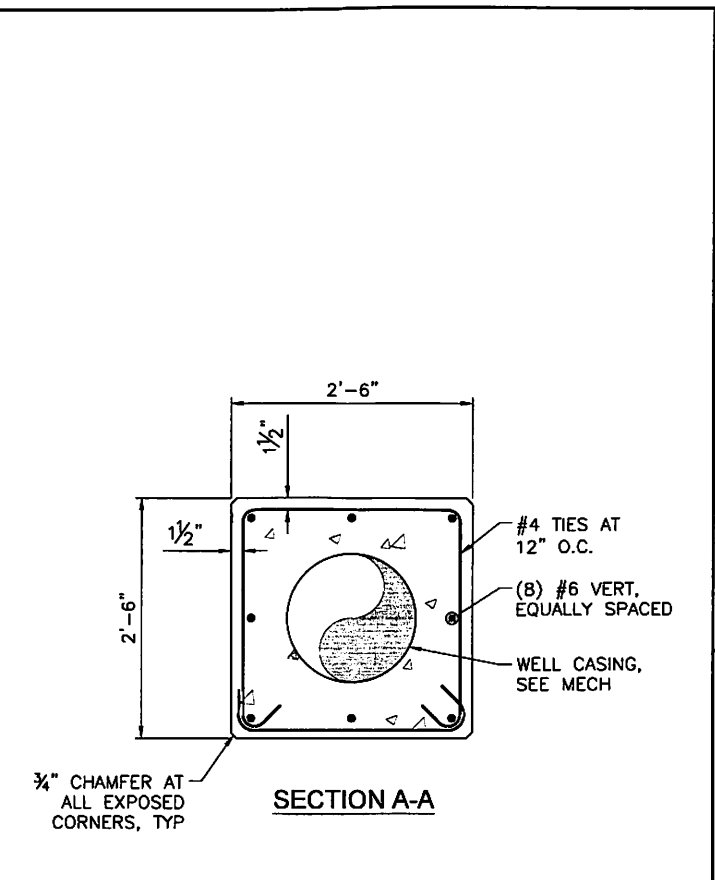
B1 CMU WALL BEARING AT EXTERIOR CONCRETE FOOTING
SCALE: 1" = 1'-0"



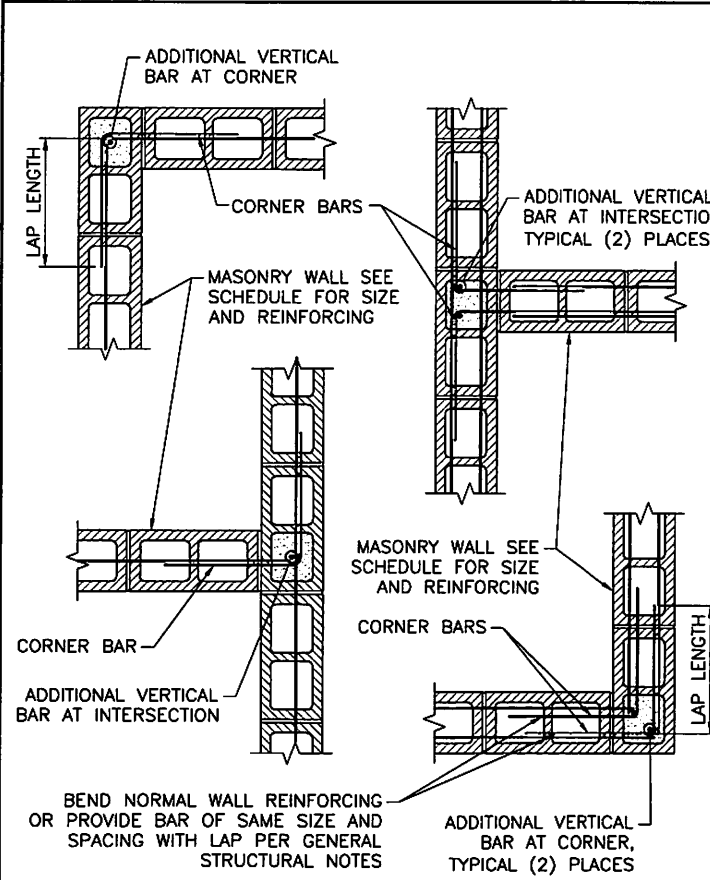
B2 CMU COLUMN BEARING AT EXTERIOR CONCRETE FOOTING
SCALE: 1" = 1'-0"



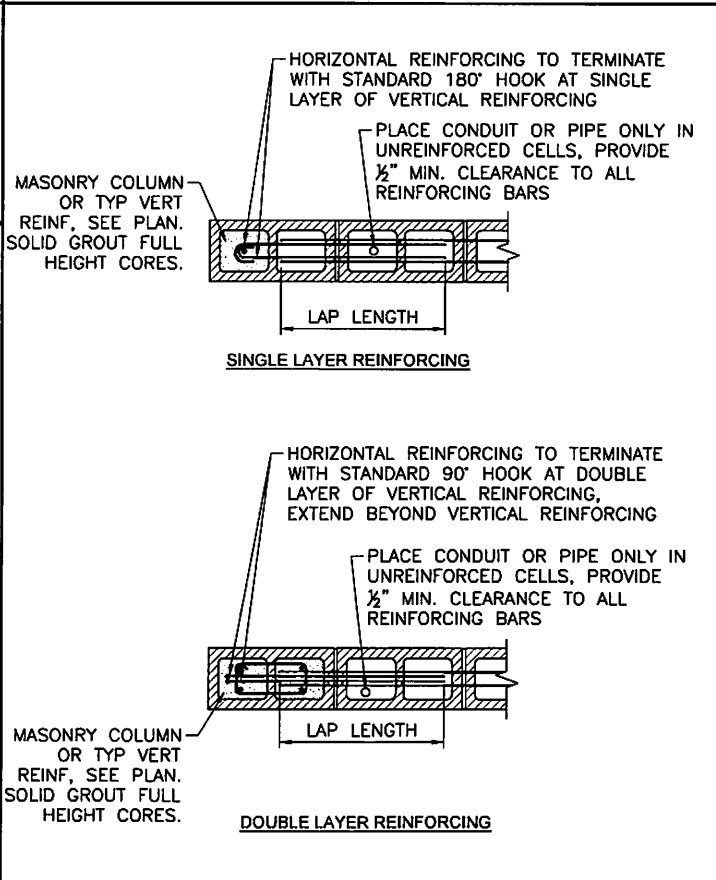
B3 CONCRETE FOUNDATION WALL AT OPENING
SCALE: 1" = 1'-0"



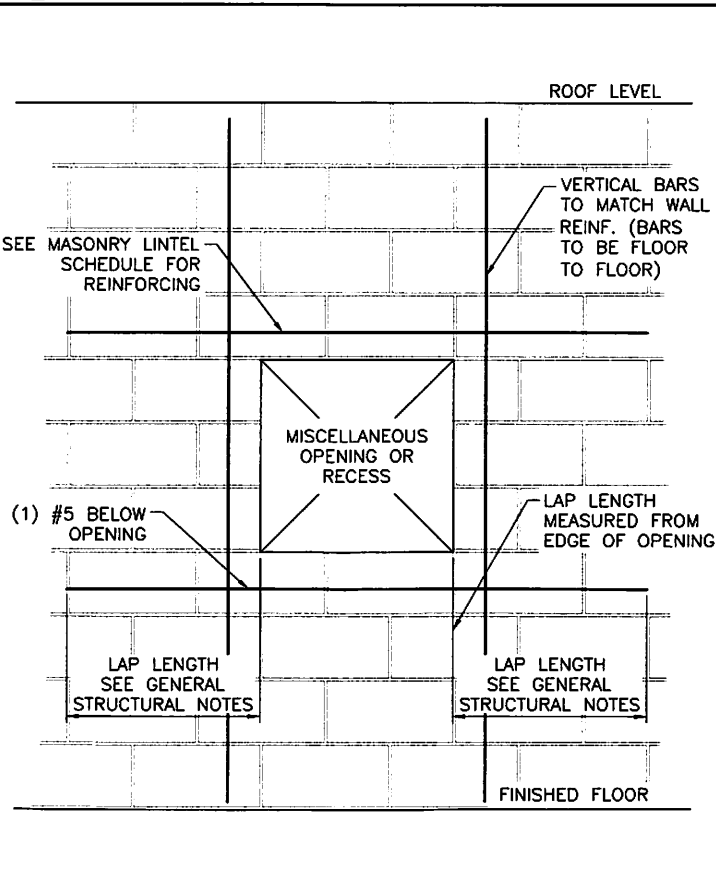
D4 CONCRETE WELL PEDESTAL
SCALE: 1" = 1'-0"



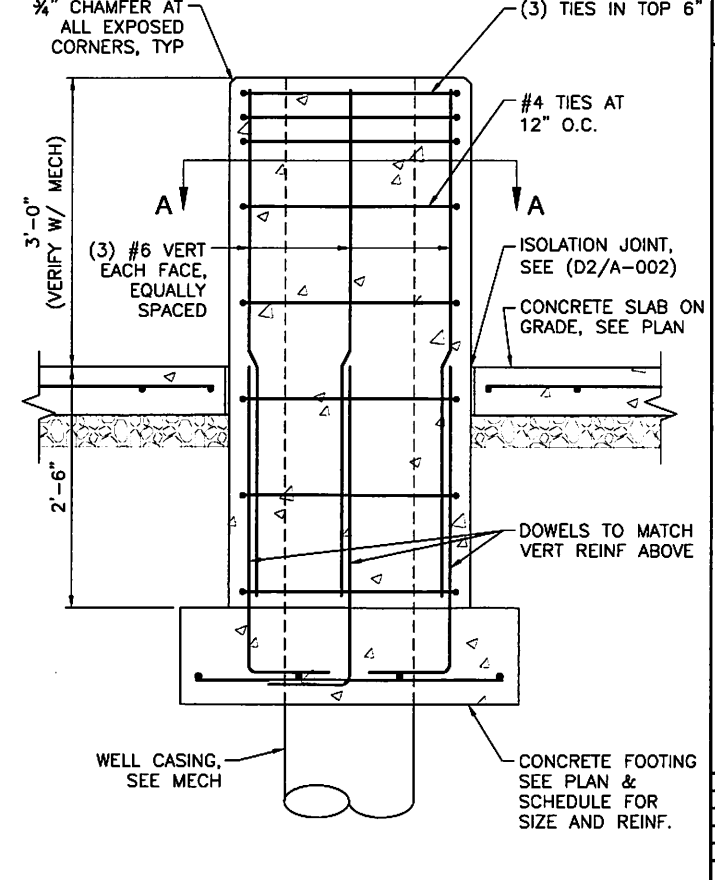
D1 CORNER REINFORCEMENT DETAIL FOR MASONRY WALLS
SCALE: NOT TO SCALE



D2 TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS
SCALE: NOT TO SCALE



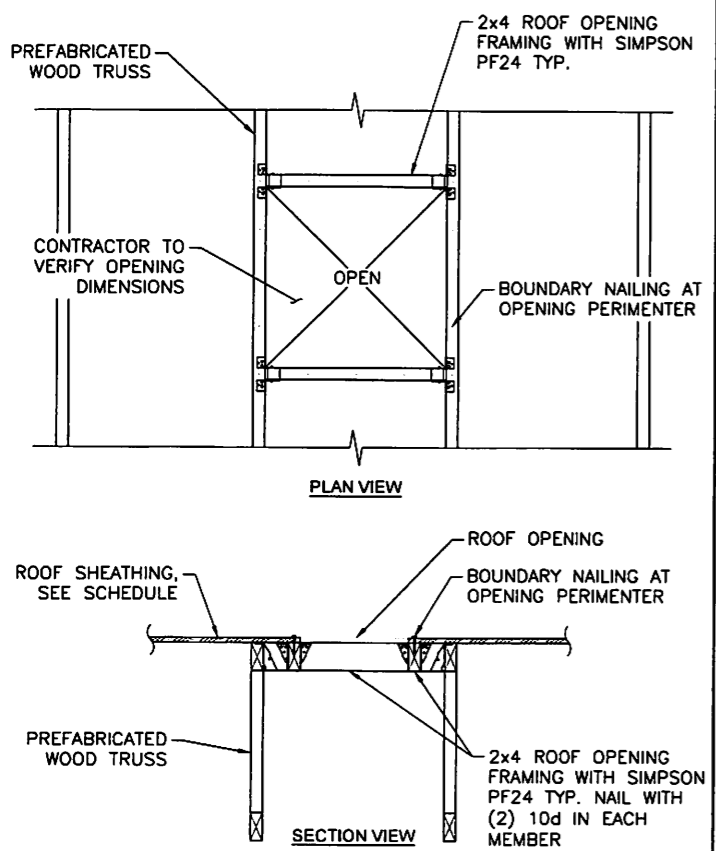
D4 REINFORCING FOR MISCELLANEOUS OPENINGS IN MASONRY WALLS
SCALE: NOT TO SCALE



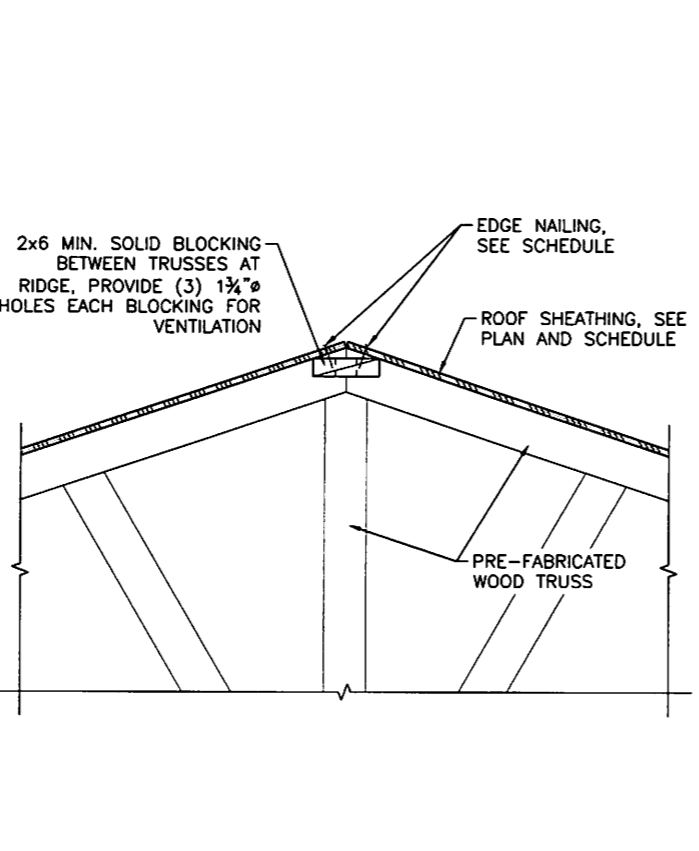
D4 CONCRETE WELL PEDESTAL
SCALE: 1" = 1'-0"

Plot Date: 6/25/2019 4:56 PM
 Drawn By: Trena Green
 Date Created: 5/22/2019
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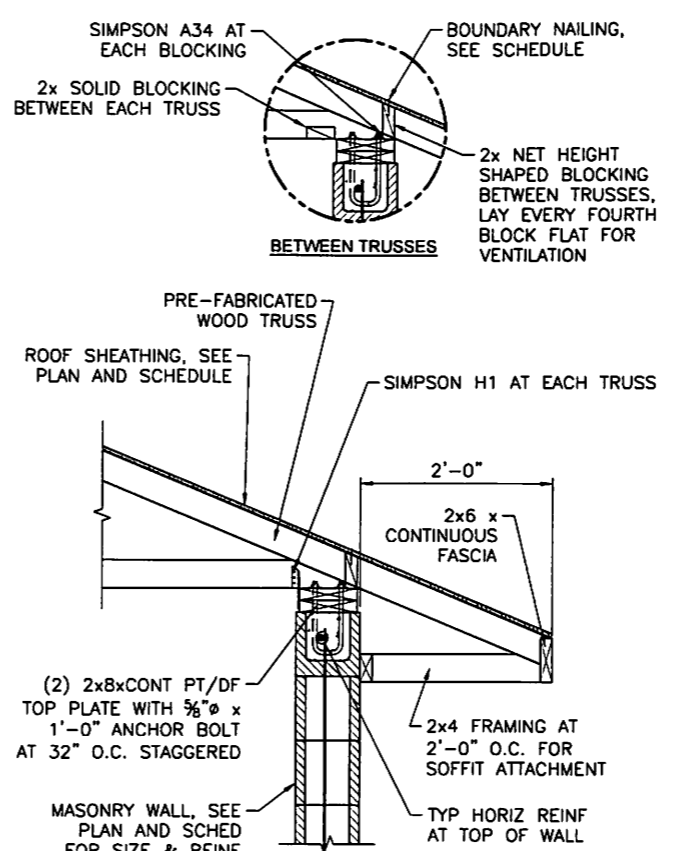
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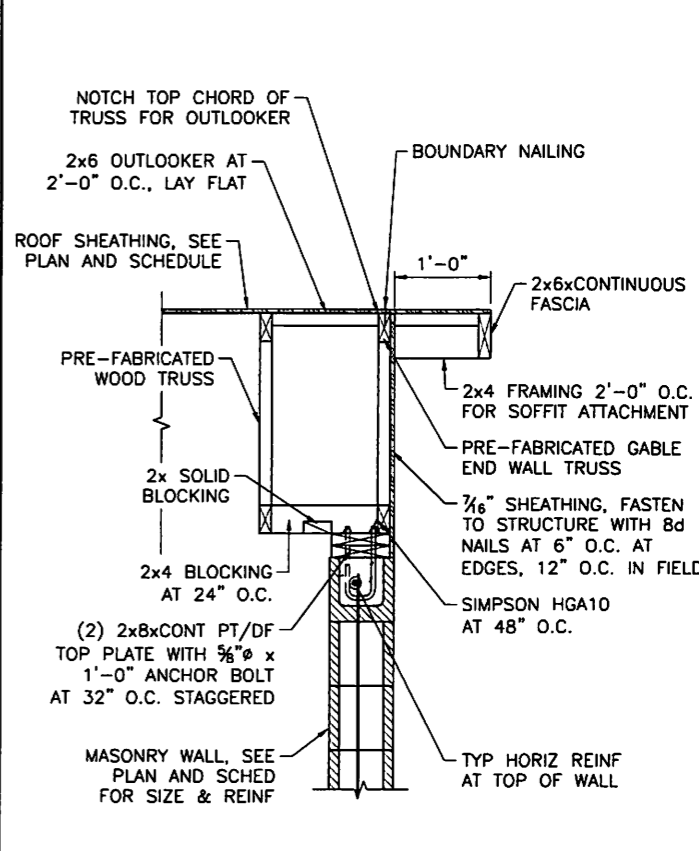
B1 TYP WOOD ROOF OPENING DETAIL
(OPENING LESS THAN 24" SQUARE)
SCALE: 1" = 1'-0"



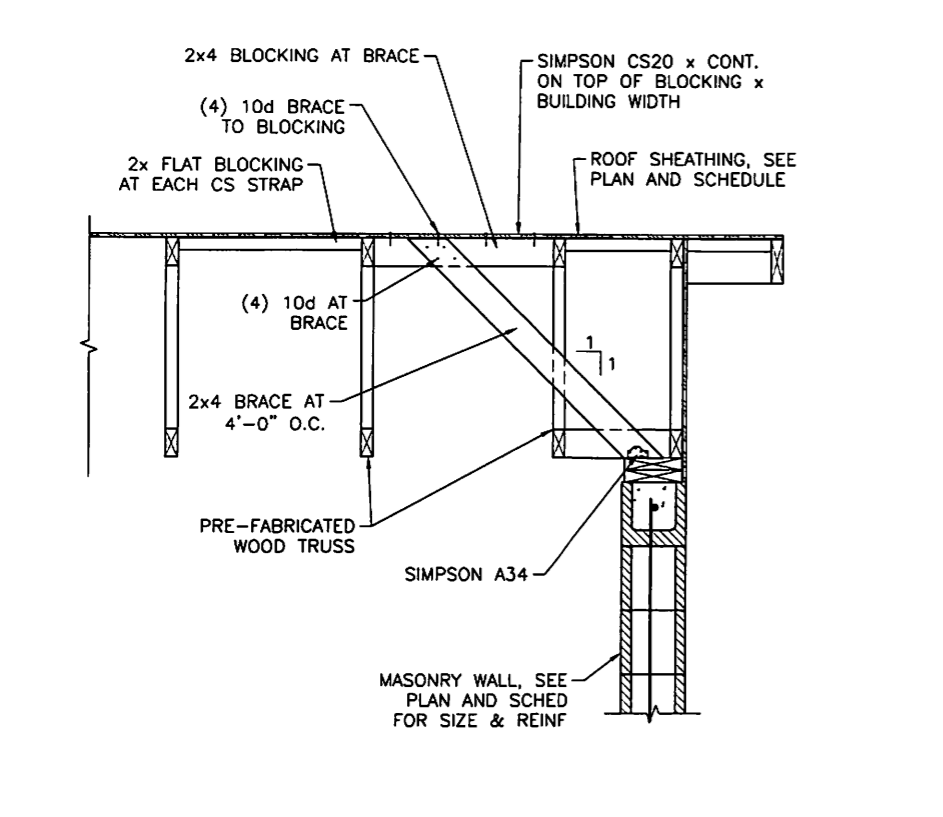
B2 RIDGE BLOCKING
SCALE: 1 1/2" = 1'-0"



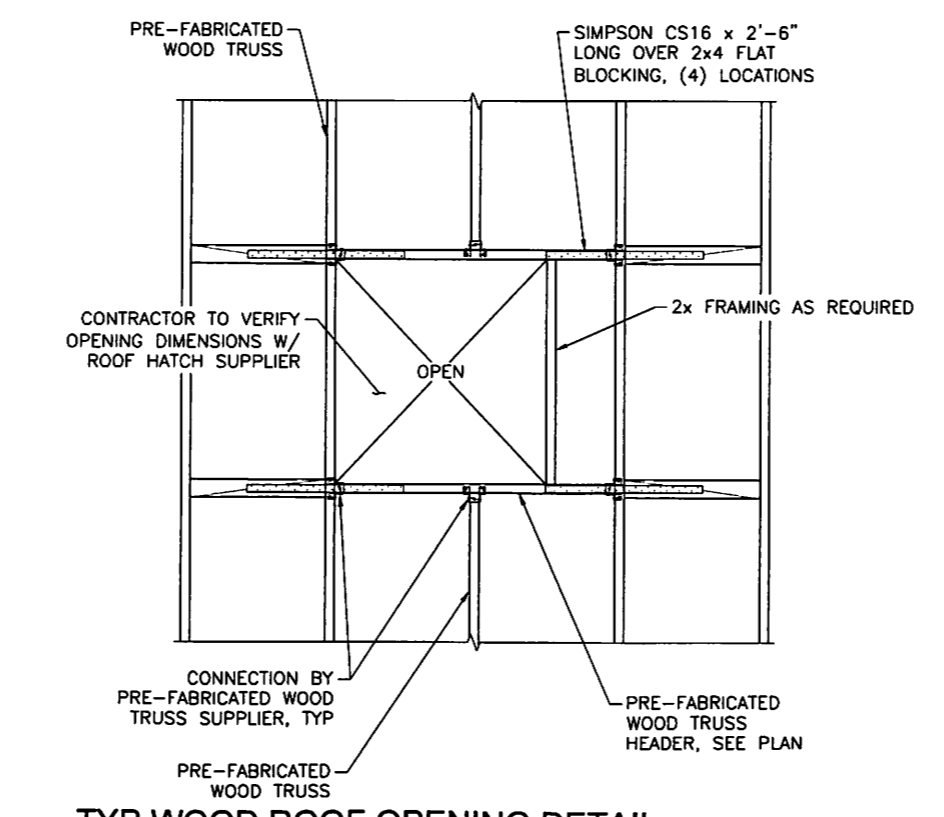
B3 PFT BEARING AT CMU WALL
SCALE: 1" = 1'-0"



B4 GABLE END PFT AT CMU WALL
SCALE: 1" = 1'-0"



D1 CMU WALL BRACE AT GABLE END
SCALE: 1" = 1'-0"



D2 TYP WOOD ROOF OPENING DETAIL
(OPENING GREATER THAN 24" SQUARE)
SCALE: 1" = 1'-0"

Plan Date: 02/26/2018 4:51 PM
 Drawn by: Travis Green
 Date Created: 02/26/2018 1:14 PM
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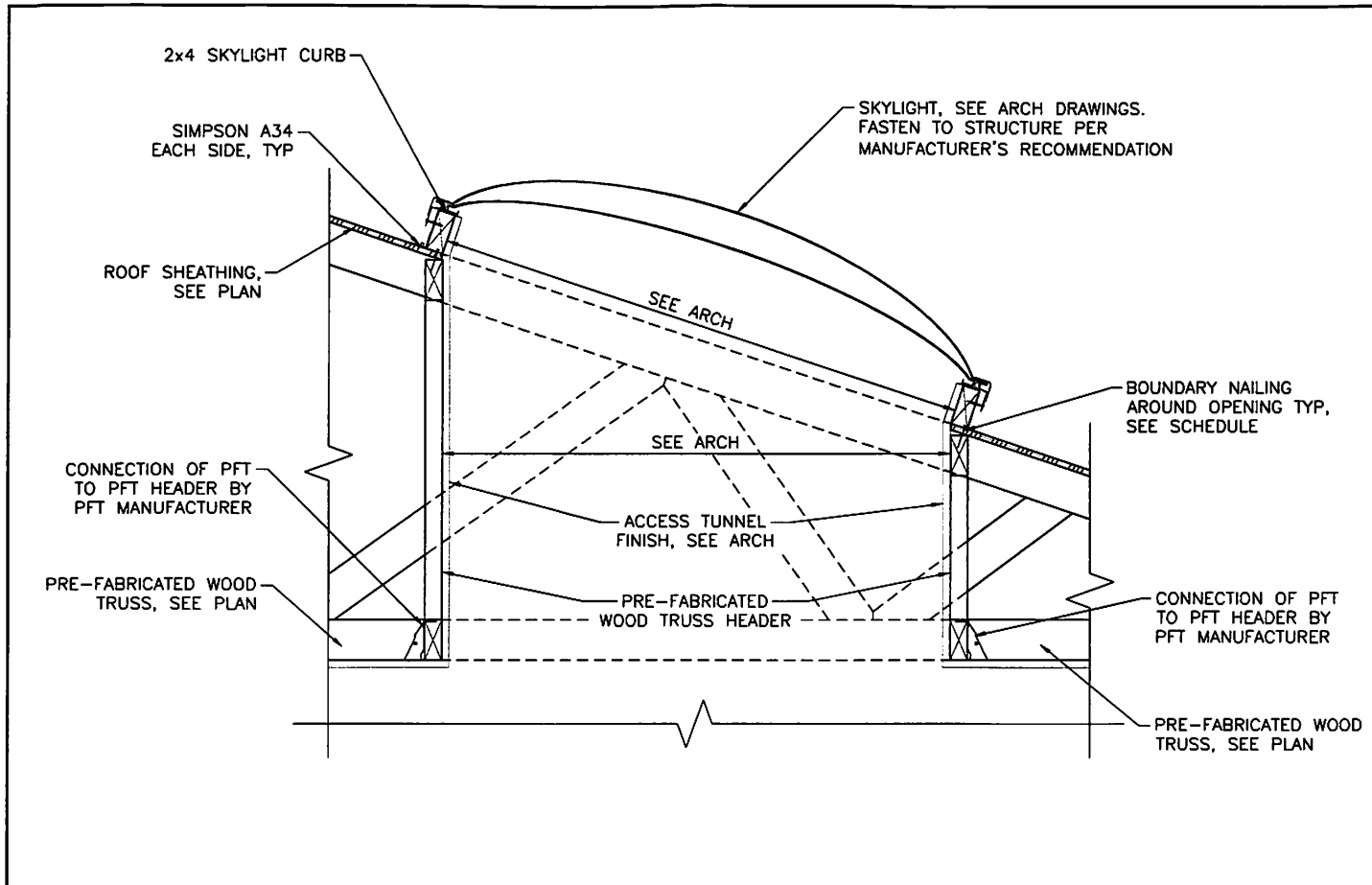
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WISHING WELL CONNECTION TO SYSTEM
 HUNTSVILLE TOWN CORPORATION

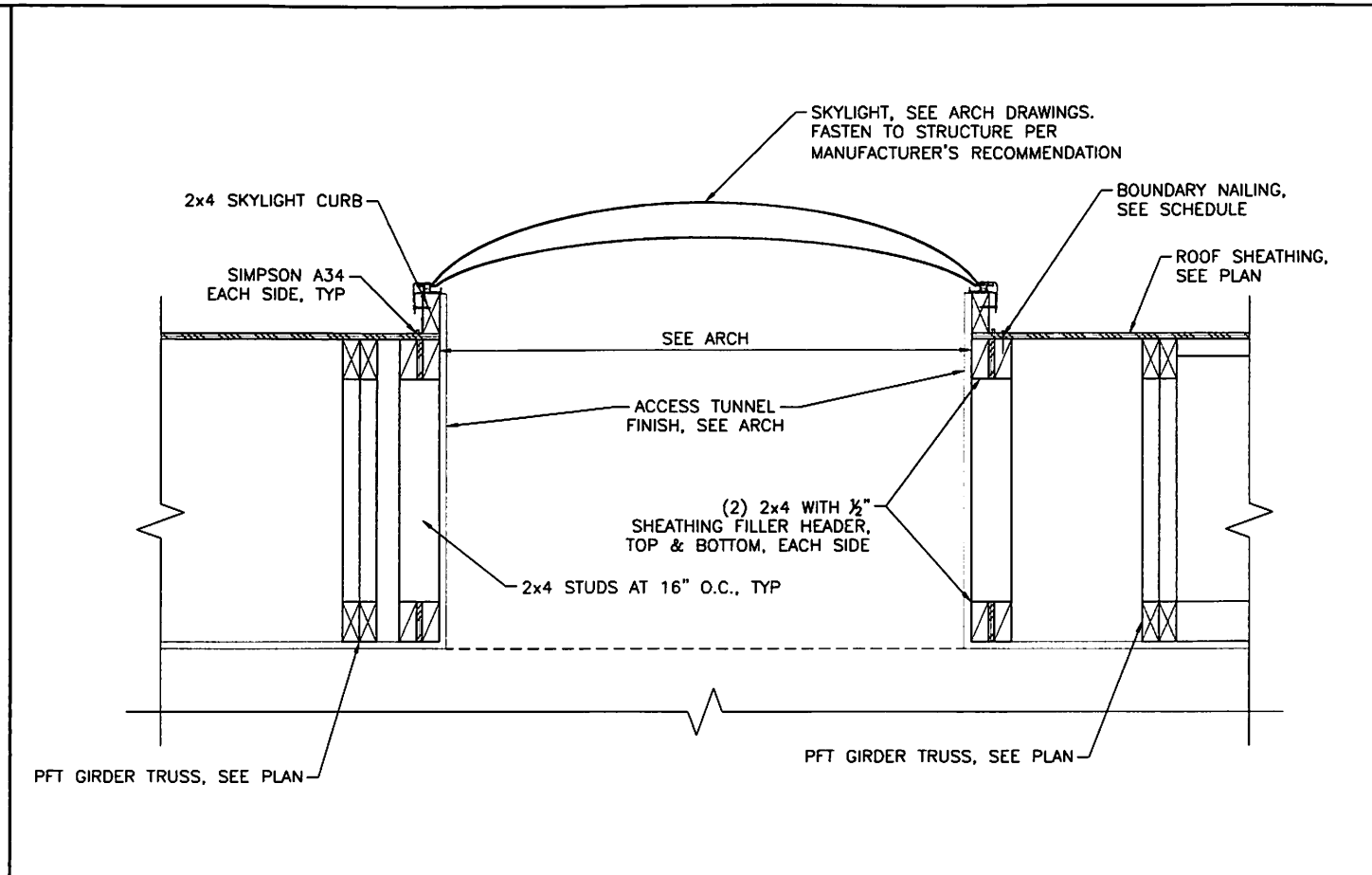
ROOF FRAMING DETAILS

FILE 55-18-114 S-101X
 JUB PROJ # 55-18-114
 DRAWN BY JRH
 DESIGN BY BRN
 CHECKED BY BRD
 ONE INCH
 AT FULL SIZE IF NOT ONE
 INCH SCALE ACCORDINGLY
 LAST UPDATED 8/12/2019
 SHEET NUMBER:

S-702



B1 ACCESS TUNNEL SECTION - PERPENDICULAR TO ROOF TRUSS
 SCALE: 1 1/2" = 1'-0"



B3 ACCESS TUNNEL SECTION - PARALLEL TO ROOF TRUSS
 SCALE: 1 1/2" = 1'-0"

Plot Date: 05/20/19 4:57 PM Plotted By: Travis Green
 Date Created: 5/22/2019 8:07:00 AM Project: S:\SUB\HUNTSVILLE_TOWN\55-18-114\HUNTSVILLE_CULINARY_WATER_PROJECT\SCAD\SHEDS\STRUCTURAL\55-18-114_S-101X.DWG

ABBREVIATIONS

| | | | | | | | |
|-----------|-------------------------|--------|---------------------------|---------|-----------------------|-------|-------------------|
| & | AND | F.D. | FLOOR DRAIN | N. | NORTH | T | TANGENT |
| ∠ | ANGLE | F.E. | FIRE EXTINGUISHER | N.I.C. | NOT IN CONTRACT | TEL. | TELEPHONE |
| A.B. | ANCHOR BOLT | F.E.C. | FIRE EXTINGUISHER CABINET | NO. | NUMBER | TEMP. | TEMPORARY |
| A.F.F. | ABOVE FINISHED FLOOR | F.F. | FINISHED FLOOR | N.T.S. | NOT TO SCALE | T.G. | TOP OF GRATE |
| ALUM. | ALUMINUM | F.G. | FINISHED GRADE | | | T.&G. | TONGUE AND GROOVE |
| APPROX. | APPROXIMATE | FIN. | FINISH | O.C. | ON CENTER | T.O. | TOP OF |
| | | F.S. | FINISHED SURFACE | O.D. | OUTSIDE DIAMETER | T.R. | TOP OF RIM |
| B.C. | BEGIN CURVE | FL. | FLOOR | OPP. | OPPOSITE | TYP. | TYPICAL |
| BD. | BOARD | F.L. | FLOW LINE | | | | |
| BLDG. | BUILDING | FTG. | FOOTING | P.I. | POINT OF INTERSECTION | VERT. | VERTICAL |
| BOT. | BOTTOM | | | PL. | PLATE | VEST. | VESTIBULE |
| BRG. | BEARING | | | P. LAM. | PLASTIC LAMINATE | | |
| | | GA. | GAUGE | | | W. | WEST/WATER |
| C.B. | CATCH BASIN | GALV. | GALVANIZED | | | W/ | WITH |
| C.I. | CAST IRON | G.I. | GALVANIZED IRON | R. | RADIUS | W.C. | WATER CLOSET |
| CL./C | CENTERLINE | GYP. | GYPSUM | R.D. | ROOF DRAIN | W.H. | WATER HEATER |
| CLG. | CEILING | | | REF. | REFRIGERATOR | W/O | WITHOUT |
| C.J. | CONSTRUCTION JOINT | HM. | HOLLOW METAL | REINF. | REINFORCING | W.R. | WATER RESISTANT |
| C.M.U. | CONCRETE MASONRY UNIT | HORIZ. | HORIZONTAL | REQ'D. | REQUIRED | | |
| COL. | COLUMN | HT. | HEIGHT | REV. | REVISED | | |
| CONC. | CONCRETE | H.W. | HOT WATER | RM. | ROOM | | |
| CONT. | CONTINUOUS | | | R.O. | ROUGH OPENING | | |
| CONTR. | CONTRACTOR | | | | | | |
| D.B.E. | DECK BEARING ELEVATION | I.D. | INSIDE DIAMETER | S. | SLOPE | | |
| DIA./∅ | DIAMETER | IMBED. | IMBEDDED/IMBEDMENT | S.C. | SOLID CORE | | |
| DD. | DECK DRAIN | IN. | INCH | SCHED. | SCHEDULE | | |
| DET. | DETAIL | INV. | INVERT | SDMH | STORM DRAIN MANHOLE | | |
| D.F. | DRINKING FOUNTAIN | INSUL | INSULATION | SHT. | SHEET | | |
| DN. | DOWN | | | SIM. | SIMILAR | | |
| DWGS. | DRAWINGS | J-BOX | JUNCTION BOX | SPEC'S | SPECIFICATIONS | | |
| | | JAN. | JANITOR | SQ. | SQUARE | | |
| | | JT. | JOINT | S.S. | STAINLESS STEEL | | |
| E. | EAST | | | STA. | STATION | | |
| EA. | EACH | L.F. | LINEAR FEET | STD. | STANDARD | | |
| E.C. | END CURVE | LAV. | LAVATORY | STL. | STEEL | | |
| E.G. | EXISTING GRADE | LOC. | LOCATION | STOR. | STORAGE | | |
| E.J. | EXPANSION JOINT | MAX. | MAXIMUM | STRUCT. | STRUCTURAL/STRUCTURE | | |
| ELEC. | ELECTRICAL | MECH. | MECHANICAL | SUSP. | SUSPENDED | | |
| EL./ELEV. | ELEVATION | MEZZ. | MEZZANINE | | | | |
| EQ. | EQUIPMENT | MFG. | MANUFACTURER | | | | |
| E.W.C. | ELECTRICAL WATER COOLER | MH. | MANHOLE | | | | |
| EXIST. | EXISTING | MIN. | MINIMUM | | | | |
| | | MISC. | MISCELLANEOUS | | | | |
| | | M.O. | MASONRY OPENING | | | | |
| | | MON. | MONUMENT | | | | |
| | | MTD. | MOUNTED | | | | |
| FND. | FOUNDATION | | | | | | |

SYMBOL LEGEND

| | | | |
|--|------------------|--|---------------------|
| | ACOUSTICAL TILE | | PARTICLE BOARD |
| | FINISH LUMBER | | PLYWOOD |
| | METAL STUD | | STEEL |
| | RIGID INSULATION | | CERAMIC TILE |
| | BATT INSULATION | | GYPSUM BOARD |
| | GLASS | | WOOD FRAMING |
| | CEILING TYPE | | ARCH ELEVATION |
| | CEILING HEIGHT | | GRID LINE INDICATOR |
| | ROOM NAME | | |
| | ROOM NUMBER | | |
| | DOOR NUMBER | | |
| | WINDOW NUMBER | | |
| | GLASS TYPE | | |
| | SECTION MARK | | |
| | SHEET NUMBER | | |
| | DETAIL MARK | | |
| | SHEET NUMBER | | |
| | ELEVATION MARK | | |
| | SHEET NUMBER | | |

BUILDING CODE DATA

APPLICABLE CODES:
 BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE
 ELECTRICAL CODE: 2014 NATIONAL ELECTRICAL CODE
 PLUMBING CODE: 2015 INTERNATIONAL PLUMBING CODE
 MECHANICAL CODE: 2015 INTERNATIONAL MECHANICAL CODE
 ENERGY CODE: 2015 INTERNATIONAL ENERGY CONSERVATION CODE
 ACCESSIBILITY CODE: 2015 INTERNATIONAL BUILDING CODE
 (ICC/ANSI A117.1-2003)
 FIRE CODE: 2015 INTERNATIONAL FIRE CODE

WELL BUILDING

OCCUPANCY: U IBC 312
 CONSTRUCTION TYPE: Vb IBC 601
 FIRE SPRINKLERS: NONE IBC 903
 STORIES: 1
 STORIES ALLOWED: 1 IBC 504.4
 BUILDING AREA: 288 SF
 BUILDING AREA ALLOWED: 5,500 SF IBC 506.2
 BUILDING HEIGHT: 13'-9" TOP OF ROOF RIDGE
 BUILDING HEIGHT ALLOWED: 40'-0" IBC 504.3
 OCCUPANT LOAD: 288 SF/300 = 1 OCCUPANTS
 DRINKING FOUNTAINS REQUIRED: 0 IBC 2902.1
 DRINKING FOUNTAINS PROVIDED: 0
 TOILETS REQUIRED: 0 IBC 2902.1
 TOILETS PROVIDED: 0
 SERVICE SINKS REQUIRED: 0 IBC 2902.1
 SERVICE SINKS PROVIDED: 0

EXTERIOR COLOR SCHEDULE

| TAG | MATERIAL | MANUFACTURER | FINISH | COLOR | REMARKS |
|------|---------------|--------------|--------------------|---------------------------------|--------------------------------------|
| EX-1 | CONCRETE | --- | SMOOTH FORM FINISH | NATURAL WITH DAMP PROOF COATING | CONCRETE STEM WALLS BELOW GRADE |
| EX-2 | CONCRETE | --- | SACK RUBBED FINISH | NATURAL | CONCRETE STEM WALLS ABOVE GRADE |
| EX-3 | CMU 8" HIGH | AMCOR | SPLIT FACE | JAVA | FIELD COLOR, CMU MORTAR TO MATCH CMU |
| EX-4 | STANDING SEAM | MBCI | PRE-FINISHED | KOKO BROWN | METAL ROOF, FASCIA, SOFFIT |
| EX-5 | VENTS | --- | PRE-FINISHED | MATCH ROOF COLOR | RIDGE VENTS |
| EX-6 | DOOR & FRAME | --- | PRE-FINISHED | MATCH ROOF COLOR | DOOR & FRAME |
| EX-7 | LOUVER | --- | PRE-FINISHED | ALUMINUM | LOUVERS |

- NOTES:
 1. CONTRACTOR TO VERIFY ALL COLOR SELECTIONS WITH OWNER & ARCHITECT. PROVIDE SAMPLES TO VERIFY COLOR.
 2. CONCRETE SEALER SHALL BE BASF MASTERPROTECT H1000 OR EQUAL.
 3. EXTERIOR MASONRY SEALER SHALL BE PROSOCCO SURE KLEAN WEATHER SEAL BLOCK-GUARD & GRAFFITI CONTROL II OR EQUAL.
 4. INTERIOR MASONRY SEALER SHALL BE BASF MASTERPROTECT H185, EVONIK PROTECTOSIL AQUA-TRETE EM, OR EQUAL.
 5. ALL EQUIPMENT HOUSE KEEPING PADS THROUGHOUT PROJECT SHALL BE THE SAME FINISH AS THE ADJACENT FLOOR FINISH.

INTERIOR COLOR SCHEDULE

| MARK | MATERIAL | MANUFACTURER | COLOR | STYLE NUMBER | REMARKS |
|------|-----------------|------------------|---------------------------|--------------|---|
| SM-1 | SEALED MASONRY | ---- | CLEAR | ---- | CLEAR SEAL MASONRY |
| SC-1 | SEALED CONCRETE | ---- | CLEAR | ---- | CLEAR SEAL CONCRETE, SMOOTH FORM FINISH |
| P1 | PAINT | SHERWIN WILLIAMS | MATCH ROOF COLOR | SEMI-GLOSS | DOORS & JAMBS |
| P2 | PAINT | SHERWIN WILLIAMS | WESTHIGHLAND WHITE SW7566 | SEMI-GLOSS | GYPSUM BOARD WALLS & CEILINGS |

FINISH AND FLOOR SCHEDULE

| ROOM NUMBER | ROOM NAME | FLOOR | WALLS, WAINSCOTS, BASES, DOORS | | | | | | | | | | | | DOOR JAMBS | | |
|-------------|-----------|-------|--------------------------------|----------|------|------|----------|------|-------|----------|------|------|----------|------|------------|---------|--------|
| | | | NORTH | | | EAST | | | SOUTH | | | WEST | | | | CEILING | |
| | | | WALL | WAINSCOT | BASE | WALL | WAINSCOT | BASE | WALL | WAINSCOT | BASE | WALL | WAINSCOT | BASE | | TYPE | HEIGHT |
| 101 | WELL ROOM | SC-1 | SM-1 | - | SM-1 | SM-1 | - | SM-1 | SM-1 | - | SM-1 | SM-1 | - | SM-1 | GYP BD P2 | 10'-2" | P1 |

JUB
 J-U-B ENGINEERS, INC.
 466 North 900 West
 Kaysville, Utah 84037
 Phone: 801.547.0393
 Fax: 801.547.0397
 www.jub.com

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REVISION

WISHING WELL CONNECTION TO SYSTEM
 HUNTSVILLE TOWN CORPORATION
 BUILDING CODE AND ARCHITECTURAL SCHEDULES

FILE: 55-18-114 A-101X
 JUB PROJ: # 55-18-114
 DRAWN BY: JRH
 DESIGN BY: BRN
 CHECKED BY: BRD
 ONE INCH
 AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY
 LAST UPDATED: 8/12/2019
 SHEET NUMBER:
A-001

Per Date: 08/05/2019 4:57 pm
 Drawn By: Trevi
 Date Created: 08/05/2019
 File Path: C:\PROJECTS\HUNTSVILLE\TOWN\55-18-114\HUNTSVILLE\CONNECTION TO SYSTEM\ARCHITECTURAL\55-18-114 A-101X.DWG

DOOR SCHEDULE

| TAG 000-X | DOOR SIZE | | | DOOR TYPE | DOOR MATERIAL | DOOR FINISH | OPENING DETAILS | | | | FRAME DETAILS | | | FIRE RATING | COMMENTS | HINGES | | | | | LOCKSETS | | | | | STOPS | | DOOR SEAL | | MISCELLANEOUS | | | | | | | | | | | | |
|--------------|-----------|--------|-----------|-----------|-----------------|-------------|-----------------|------------|-----------|----------------|---------------|----------|--------|-------------|---------------|--------|--------|--------------|----------------|-----------------|-----------|----------|-------------|--------|---------|---------|------------|-------------|-------------------|---------------|-----------|------------|-------------|---------------|----------|-------|-----------|--------|-----------|-------------|------------|-------------|
| | WIDTH | HEIGHT | THICKNESS | | | | HEAD | RIGHT JAMB | LEFT JAMB | SILL THRESHOLD | TYPE | MATERIAL | FINISH | | | NUMBER | PIVOTS | BALL BEARING | BRONZE / BRASS | STAINLESS STEEL | N.R. PINS | ENTRANCE | EXIT DEVICE | OFFICE | PASSAGE | PRIVACY | STORE ROOM | FLUSH BOLTS | DUST PROOF STRIKE | SURFACE BOLTS | WALL STOP | FLOOR STOP | SMOKE STRIP | WEATHER STRIP | ASTRAGAL | SWEEP | THRESHOLD | CLOSER | PUSH/PULL | COORDINATOR | KICK PLATE | ARMOR PLATE |
| 101-A | 3'-2" | 7'-0" | 1 3/4" | D-1 | INSULATED METAL | P1 | C3/A-002 | C4/A-002 | C4/A-002 | C2/A-002 | F-1 | HM | P1 | -- | PAIR OF DOORS | 6 | | X | | X | X | | | | X | X | X | | | | X | X | X | X | X | X | X | X | X | X | X | X |
| 102-B | 3'-0" | 7'-0" | 1 3/4" | D-1 | INSULATED METAL | P1 | C3/A-002 | C4/A-002 | C4/A-002 | C2/A-002 | F-1 | HM | P1 | -- | | 3 | | X | | X | X | | | | X | X | | | | X | X | X | X | X | X | X | X | X | X | X | X | |

- NOTES:**
- SECURE ALL DOOR HARDWARE SCREWS WITH "LOC-TIGHT" COMPOUND.
 - KEYING INFORMATION: MATCH OWNERS MASTER KEYS AND CYLINDER CORE, COORDINATE WITH CONSTRUCTION MANAGER.

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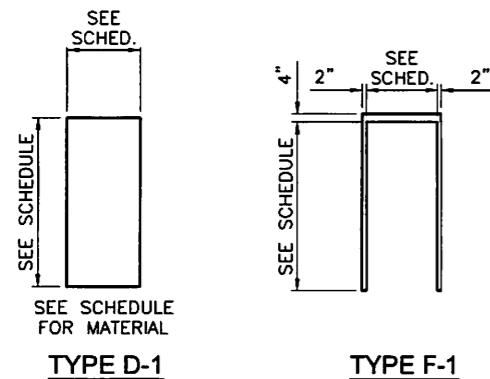
J-U-B ENGINEERS, INC.
466 North 900 West
Kaysville, Utah 84037

Phone: 801.547.0393
Fax: 801.547.0397
www.jub.com

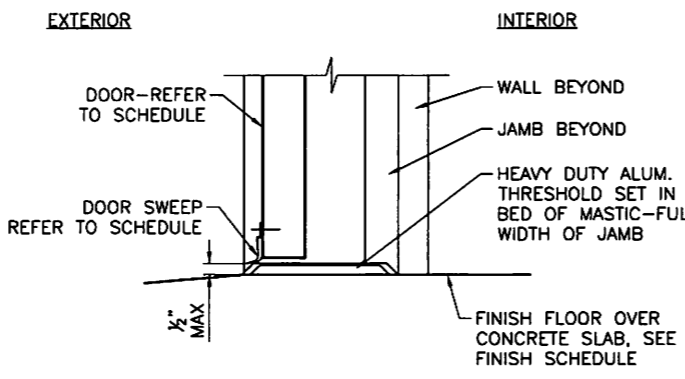
AGENCY

REVIEW

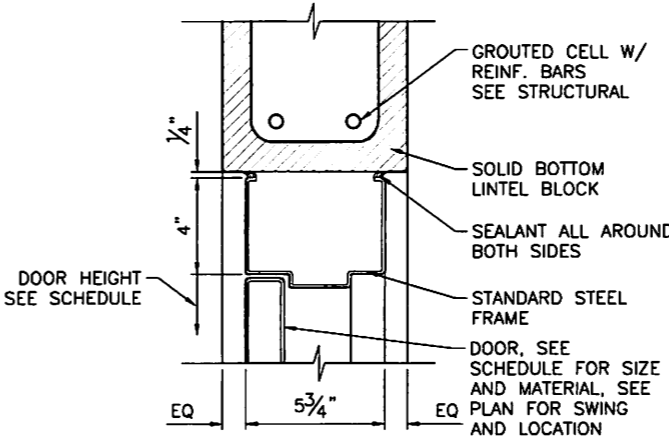
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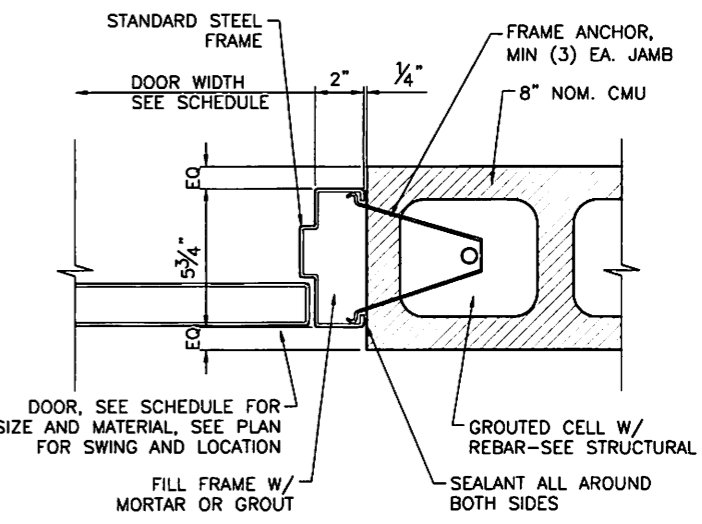
C1 DOOR & FRAME TYPES
SCALE: 1/4" = 1'-0"



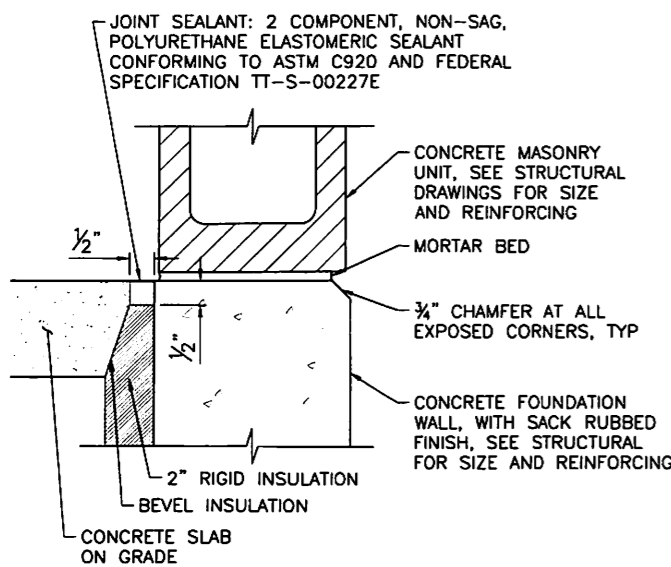
C2 DOOR THRESHOLD - CMU
SCALE: NOT TO SCALE



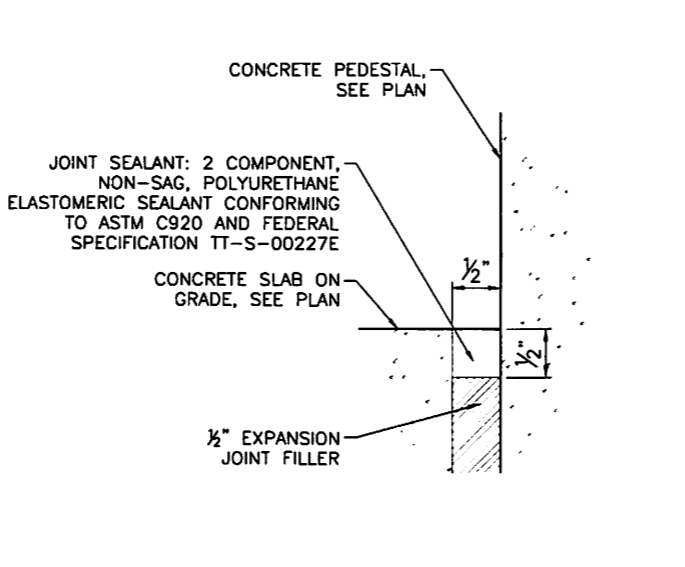
C3 DOOR HEAD - CMU
SCALE: NOT TO SCALE



C4 DOOR JAMB - CMU
SCALE: NOT TO SCALE



D1 CMU AT FOUNDATION WALL
SCALE: NOT TO SCALE



D2 ISOLATION JOINT DETAIL
SCALE: 6" = 1'-0"

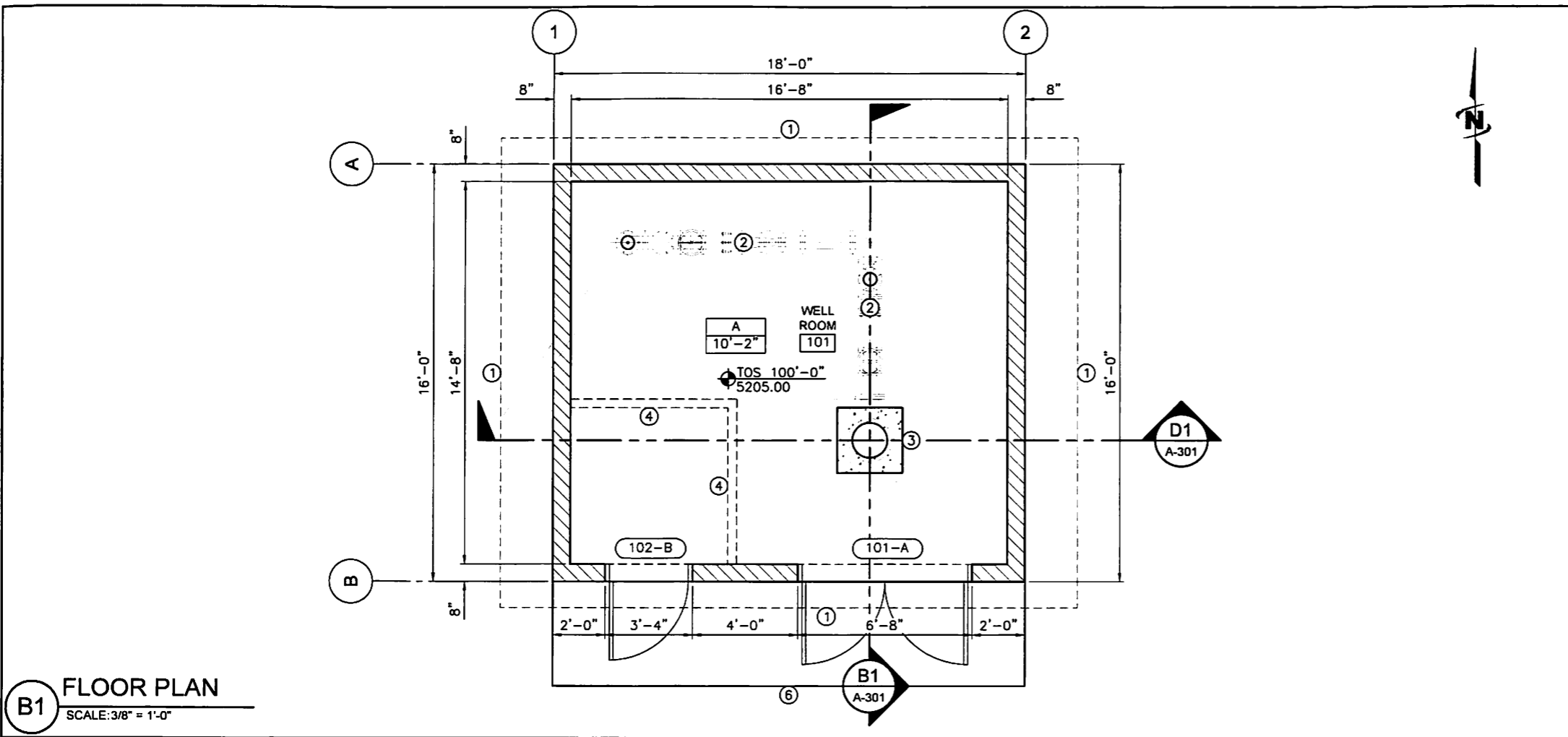
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WISHING WELL CONNECTION TO SYSTEM
 HUNTSVILLE TOWN CORPORATION
 DOOR SCHEDULE AND DETAILS

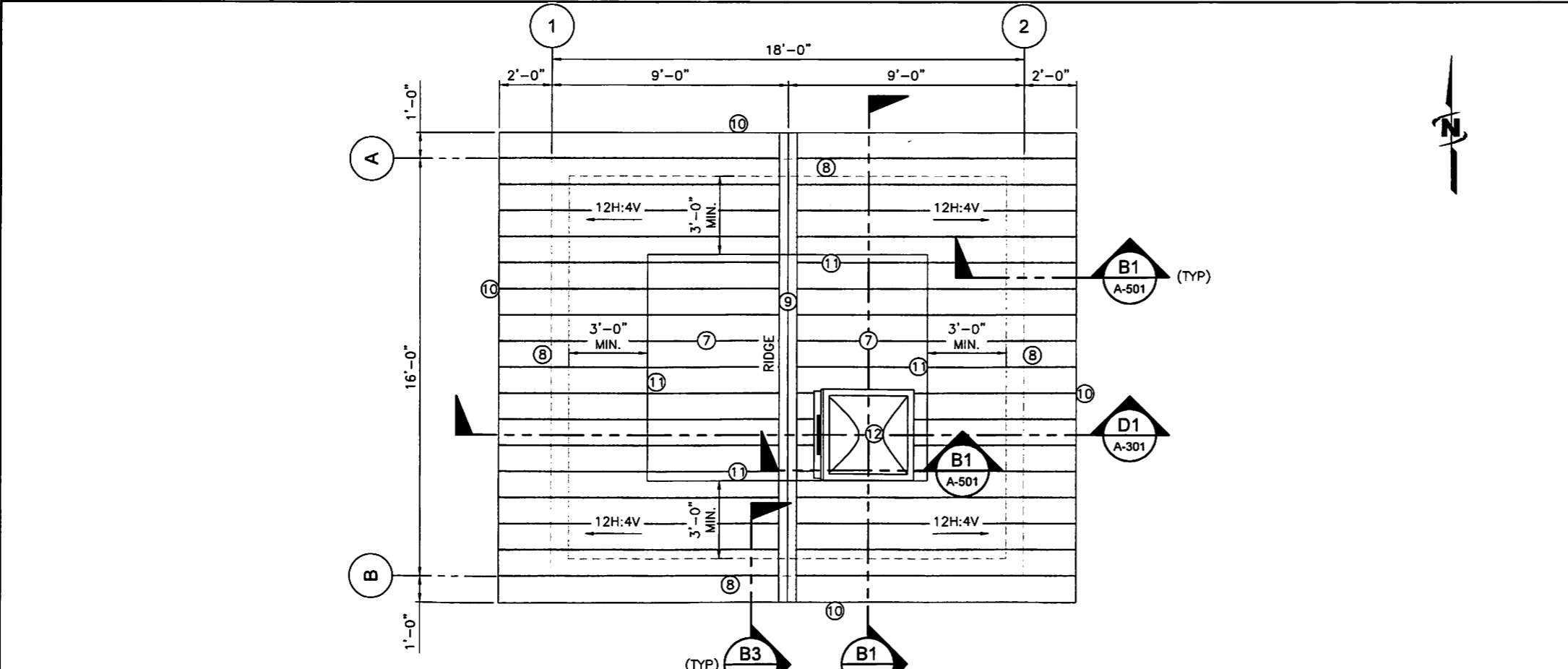
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 JUB PROJ. # 55-18-114
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 DESIGN BY: BRN
 CHECKED BY: BRD
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 AT FULL SIZE. IF NOT ONE INCH, SCALE ACCORDINGLY.
 LAST UPDATED: 8/12/2019
 SHEET NUMBER:
A-002

Plot Date: 02/26/2019 4:57 PM
 Plotted By: Travel Green
 Date Created: 04/24/2019
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Plot Date: 05/20/19 4:56 PM, Plotted By: Tiana Green
 Date Created: 04/20/19, Project: HUNTSVILLE CULINARY WATER PROJECT/SHEETS/ARCHITECTURAL/55-18-114-A-101.DWG



B1 FLOOR PLAN
SCALE: 3/8" = 1'-0"



D1 ROOF PLAN
SCALE: 3/8" = 1'-0"

GENERAL NOTES

1. ANY CONFLICTS BETWEEN ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS AND/OR DRAWINGS OF OTHER DISCIPLINES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ANY WORK.
3. THE CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES OR MODIFICATIONS OF THE CONTRACT DOCUMENTS, IN WRITING, TO THE ENGINEER BEFORE PROCEEDING WITH ANY ACTION.
4. WHERE SPECIFIC DETAILS ARE NOT PROVIDED, TYPICAL OR SIMILAR INDUSTRY STANDARD DETAILS SHALL APPLY. IF FURTHER DETAIL IS REQUIRED CONTACT THE ENGINEER.
5. DETAILS ARE PROVIDED FOR VISUAL REPRESENTATION OF DESIGN INTENT. OFTEN THE DETAILS ARE BASED ON A BASIS-OF-DESIGN PRODUCT AND/OR MATERIAL AND MAY BE DIAGRAMMATIC IN NATURE.
6. IF A DIFFERENT PRODUCT OR MATERIAL FROM THE INDICATED PRODUCT OR MATERIAL ON THE DRAWINGS OR SPECIFICATIONS IS SUBSTITUTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALTERNATE DETAILS AS REQUIRED FOR THE ARCHITECT/ENGINEER TO REVIEW.
7. GENERALLY, DIMENSIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE TAKEN FROM THE CORE STRUCTURE FACE (IE. CONCRETE WALL=FACE OF WALL; STUD WALL=FACE OF STUD).
8. ANY ADDITIONAL BLOCKING, BRACING, TRIM, FLASHING, SEALANTS, ETC. REQUIRED FOR INSTALLATION OF COMPLETE SYSTEMS PERTAINING TO DOORS, WINDOWS, OPENINGS, PENETRATIONS, ETC. ARE EXPECTED TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
9. PROVIDE SEALANT OR TRIM AS APPROPRIATE WHERE DISSIMILAR MATERIALS COME IN CONTACT.
10. PAINT ALL MISCELLANEOUS SURFACES, SUPPORTS, METALS, ETC. IF PERMANENTLY ATTACHED TO PAINTED SURFACE OR EXPOSED TO THE ELEMENTS.

KEY NOTES

- ① LINE OF ROOF ABOVE
- ② MECHANICAL PIPING, SEE MECHANICAL
- ③ WELL PEDESTAL, SEE STRUCTURAL
- ④ FUTURE INTERIOR PARTITION WALL FOR CHLORINE ROOM
- ⑤ FLOOR DRAIN, SEE MECHANICAL
- ⑥ EXTERIOR SITE CONCRETE, SEE CIVIL
- ⑦ STANDING SEAM METAL ROOF SYSTEM, OVER 30# FELT, MECHANICALLY FASTENED TO ROOF SHEATHING
- ⑧ LINE OF EXTERIOR WALL BELOW
- ⑨ CONTINUOUS METAL RIDGE VENT, SEE (D1/A-501)
- ⑩ METAL VENTED SOFFIT & FASCIA MECHANICALLY FASTENED TO STRUCTURE
- ⑪ SHADED AREA INDICATES: ICE & WATERSHIELD WATER PROOFING MEMBRANE, EXTEND 3'-0" MIN. FROM INTERIOR SIDE OF EXTERIOR WALL
- ⑫ 4'-0"x4'-0" ACRYLIC THERMAL BREAK SKYLIGHT WITH OUTSIDE MOUNTING.

CEILING TYPE

A
HEIGHT GYPSUM BOARD, PAINTED

WALL TYPE

ARCHITECTURAL CONCRETE FOUNDATION WALL WITH SACK RUBBED FINISH. REFER TO STRUCTURAL DWGS FOR SIZE AND REINFORCING.

EXTERIOR CMU MASONRY WALL: REFER TO EXTERIOR ELEVATIONS FOR COLOR AND FINISH. RUNNING BOND, REFER TO STRUC FOR SIZE AND REINF, WITH INTEGRAL WATER REPELLENT IN BLOCK AND MORTAR. EXTERIOR CLEAR SEALER & INTERIOR CLEAR SEALER, SEE FINISH SCHEDULE.

JUB
J-U-B ENGINEERS, INC.
466 North 900 West
Kaysville, Utah 84037
Phone: 801.547.0393
Fax: 801.547.0397
www.jub.com

AGENCY

REVIEW

| NO. | DESCRIPTION | BY | DATE |
|-----|-------------|----|------|
| | | | |
| | | | |
| | | | |

RELEASE OF DRAWINGS FOR CONSTRUCTION SHALL BE AT THE RISK OF THE USER. JUB SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THESE DRAWINGS AND THE SAME SHALL NOT BE REUSED WITHOUT JUB'S PRIOR WRITTEN CONSENT. ANY REUSE WITHOUT WRITTEN CONSENT BY JUB WILL BE AT CLIENT'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO JUB.

WISHING WELL CONNECTION TO SYSTEM
 HUNTSVILLE TOWN CORPORATION

FILE: 55-18-114-A-101X
 JUB PROJ. # 55-18-114
 DRAWN BY: JRH
 DESIGN BY: BRD
 CHECKED BY: BRD
 ONE INCH
 AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY
 LAST UPDATED: 6/12/2019
 SHEET NUMBER:
A-101

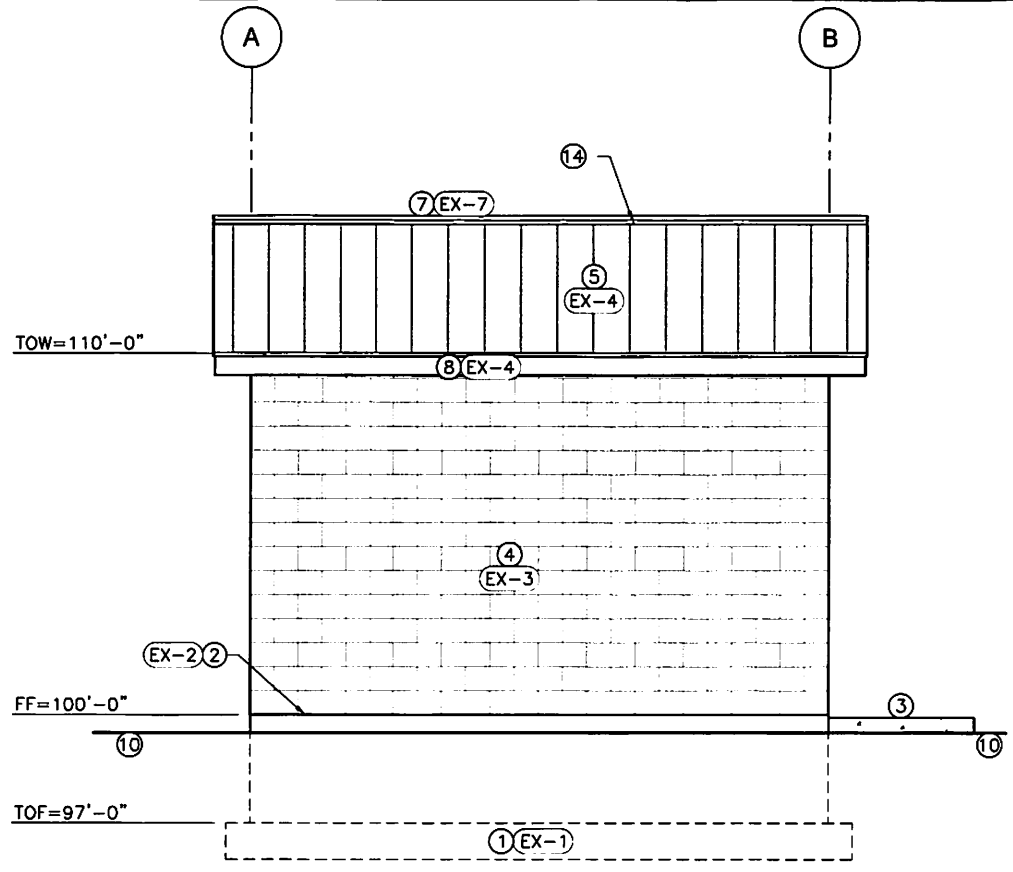
FLOOR AND ROOF PLAN

| NO. | DESCRIPTION | BY | DATE |
|-----|-------------|----|------|
| | | | |
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| | | | |

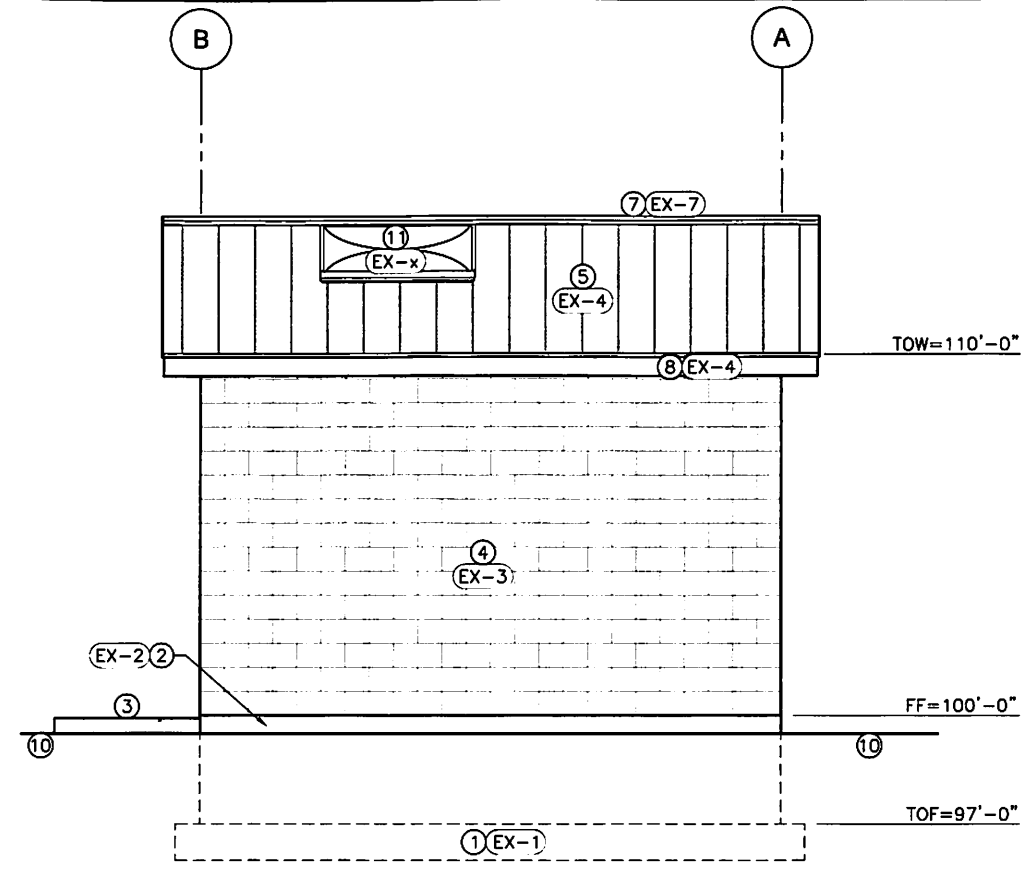
WISHING WELL CONNECTION TO SYSTEM
HUNTSVILLE TOWN CORPORATION

BUILDING ELEVATIONS

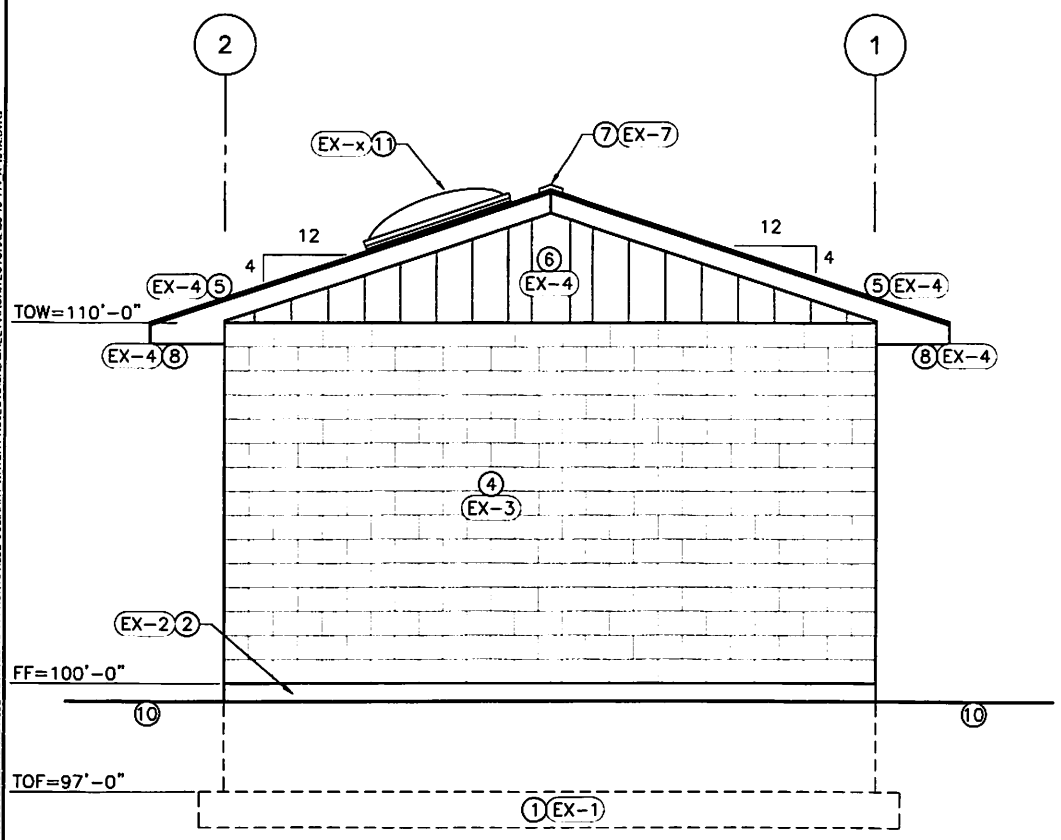
FILE: 55-18-114 A-101X
JUB PROJ. # 55-18-114
DRAWN BY: JRH
DESIGN BY: BRN
CHECKED BY: BRD
ONE INCH
AT FULL SIZE. IF NOT ONE
INCH SCALE ACCORDINGLY
LAST UPDATED: 6/12/2019
SHEET NUMBER:
A-201



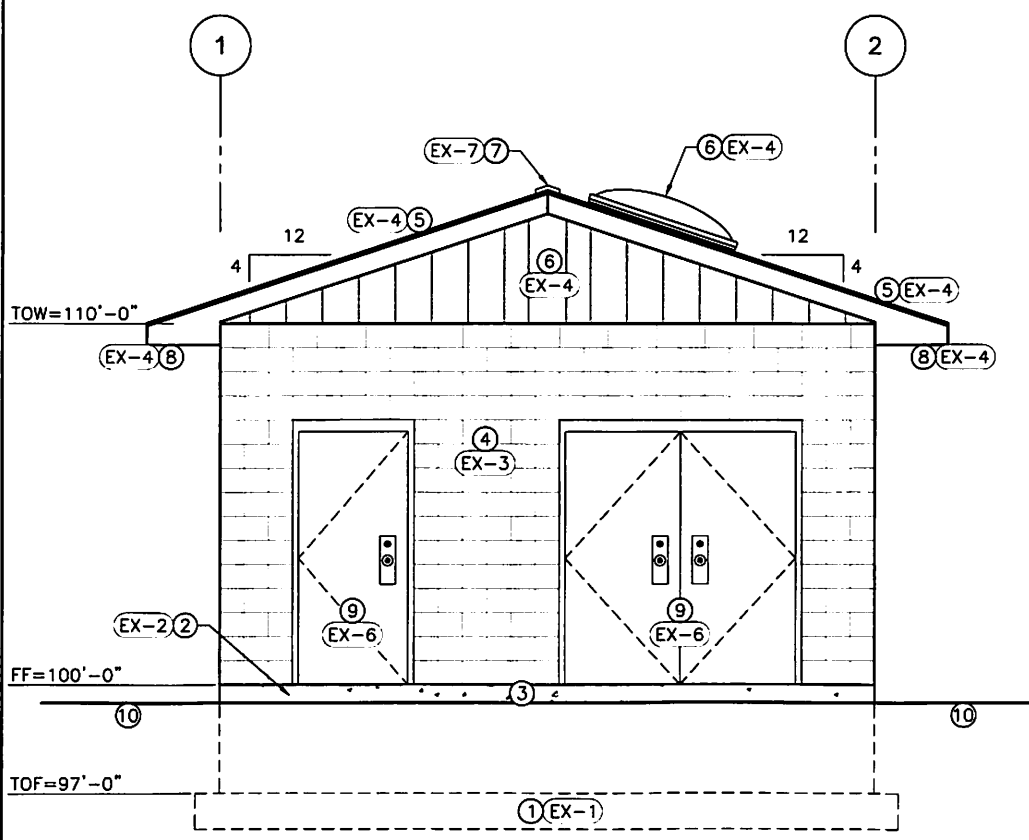
B1 EAST ELEVATION
SCALE: 3/8" = 1'-0"



B3 WEST ELEVATION
SCALE: 3/8" = 1'-0"



D1 NORTH ELEVATION
SCALE: 3/8" = 1'-0"



D3 SOUTH ELEVATION
SCALE: 3/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL TRIMS, FLASHING, AND FINISH PIECES TO PRESENT A FINISHED APPEARANCE.
2. (EX-X INDICATES EXTERIOR COLOR, SEE EXTERIOR COLOR SCHEDULE.

KEY NOTES

- 1 LINE OF FOOTING AND FOUNDATION, SEE STRUCTURAL DRAWINGS
- 2 ARCHITECTURAL CONCRETE FOUNDATION WALL
- 3 EXTERIOR CONCRETE FLATWORK, SEE CIVIL DRAWINGS
- 4 SPLIT-FACE CONCRETE MASONRY (FIELD). REFER TO WALL TYPES ON FLOOR PLAN.
- 5 ROOF WITH STANDING SEAM SYSTEM, SEE ROOF PLAN
- 6 SIDING WITH STANDING SEAM SYSTEM
- 7 CONTINUOUS PRE-FINISHED METAL RIDGE VENT
- 8 METAL VENTED SOFFIT AND FACIA (MBCI FLUSH SEAM PANEL SYSTEM OR APPROVED EQUAL) MECHANICALLY FASTEN TO STRUCTURE
- 9 DOOR AND FRAME, REFER TO DOOR SCHEDULE
- 10 APPROXIMATE FINISHED GRADE, SEE CIVIL DRAWINGS
- 11 4'-0"x4'-0" SKYLIGHT, SEE ROOF PLAN

Plot Date: 6/26/2019 4:58 PM, Plotted By: Travis Green
 Date Created: 04/20/19, P: PROJECTS\HUNTSVILLE\HUNTSVILLE_TOWN_CORP\55-18-114\HUNTSVILLE_CULINARY_WATER_PROJECT\SCADSH\DWG\ARCHITECTURAL\55-18-114_A-101X.DWG