

DAVIS PARTNERSHIP ARCHITECTS

DENVER OFFICE
2901 Blake Street, Suite 100
Denver, CO 80205
303.861.8555



Issue Date: 04/17/2020

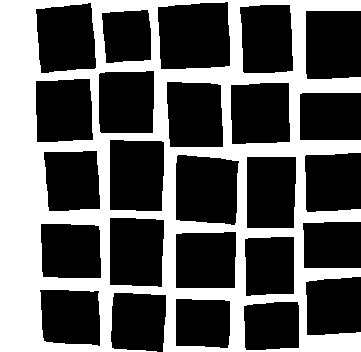
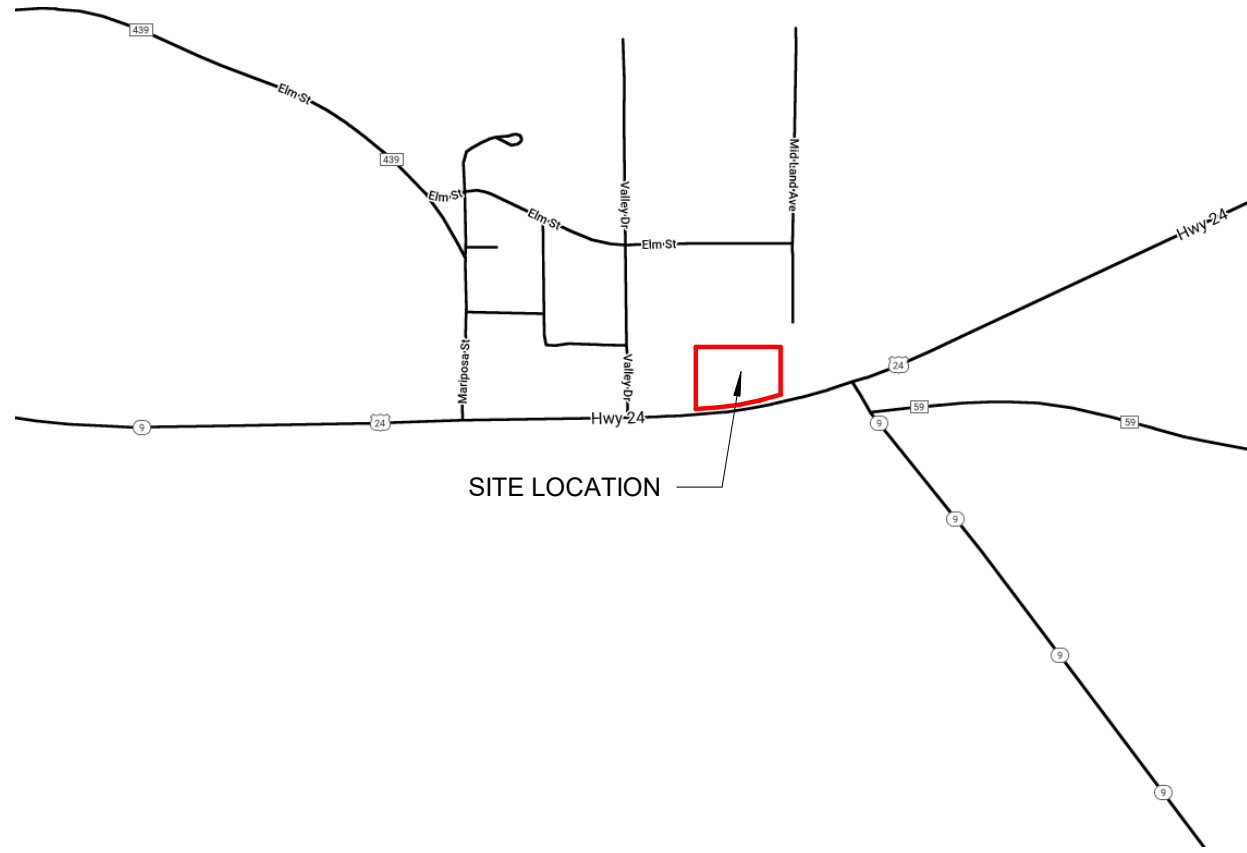
Project: 19716.00

SPAD - Hartsel Station

12855 Highway 24 Hartsel, CO 80449

Original Issuance: DESIGN DEVELOPMENT

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| Number | Sheet | | | | |
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| G-000 | COVER | DESIGN DEVELOPMENT | 04/17/2020 | | |
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| LS101 | LIFE SAFETY PLAN - LEVEL 1 | DESIGN DEVELOPMENT | 04/17/2020 | | |
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| E3 | ELECTRICAL LIGHT PLAN | DESIGN DEVELOPMENT | 04/17/2020 | | |
| E4 | ELECTRICAL LIGHTING PLAN | DESIGN DEVELOPMENT | 04/17/2020 | | |



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Original Issuance Date

DESIGN DEVELOPMENT 04/17/2020

Revision Date No.

Project Information

SPAD - Hartsel Station

12855 Highway 24 Hartsel, CO 80449

Sheet Information

Sheet Title:

SHEET INDEX
AND PROJECT
DATA

Sheet Number:

G-001

DPA Project: 19716.00

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D

C

B

A

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2

3

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5

PROJECT DESCRIPTION: THIS PROJECT IS A NEW 5,594 SF AMBULANCE STATION ON A PREVIOUSLY UNDEVELOPED SITE. THE BUILDING WILL CONTAIN THE AMBULANCE BAY, SLEEPING QUARTERS FOR FOUR STAFF, STAFF KITCHEN AND DINING SPACE, AND A SMALL CLINIC SPACE INCLUDING A WAITING ROOM AND ONE EXAM ROOM. PROJECT SCOPE ALSO INCLUDES SITE UPGRADES AND PARKING AREAS.

APPLICABLE BUILDING CODES:

| | |
|------|--|
| 2012 | INTERNATIONAL RESIDENTIAL CODE |
| 2015 | INTERNATIONAL BUILDING CODE |
| 2012 | INTERNATIONAL ENERGY CONSERVATION CODE |
| 2012 | INTERNATIONAL MECHANICAL CODE |
| 2012 | INTERNATIONAL FUEL GAS CODE |
| 2012 | INTERNATION PLUMBING CODE |
| 2017 | NATIONAL ELECTRICAL CODE |
| 2012 | INTERNATIONAL FIRE CODE |
| 2009 | ICC/ANSI A117.1 ACCESSIBILITY STANDARD |

IBC (2015)

| | |
|---------------------------------------|------------------------------------|
| CONSTRUCTION TYPE: | V-B |
| OCCUPANCY CLASSIFICATION: | B, R-3, S-2, UNSEPARATED MIXED USE |
| LIFE SAFETY SYSTEMS: | FIRE ALARM SYSTEM, UNSPRINKLED |
| MAX. TRAVEL DISTANCE ALLOWED TO EXIT: | 200' |
| OCCUPANT LOAD | 28 |
| NUMBER OF EXITS REQUIRED: | 2 |
| NUMBER OF EXITS PROVIDED: | 3 |

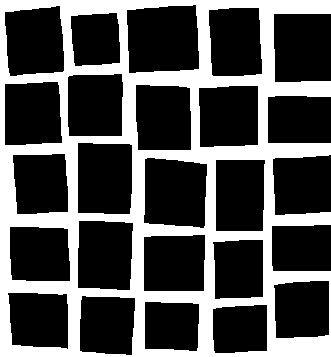
PLUMBING FIXTURES:

| | | | | |
|---------------------------|------------------------|---------------------|-------------------------------|--------------------------|
| WATER CLOSETS REQUIRED: 2 | LAVATORIES REQUIRED: 2 | SHOWERS REQUIRED: 2 | DRINKING FOUNTAIN REQUIRED: 1 | SERVICE SINK REQUIRED: 1 |
| WATER CLOSETS PROVIDED: 3 | LAVATORIES PROVIDED: 7 | SHOWERS PROVIDED: 2 | DRINKING FOUNTAIN PROVIDED: ? | SERVICE SINK PROVIDED: 1 |

EXISTING FIRE RESISTIVE REQUIREMENTS TO BE MAINTAINED: (RESTRAINED / UNRESTRAINED)

| CONSTRUCTION (TYPE V-B) | IBC RATING | | REMARKS |
|----------------------------------|------------|--|---------|
| STRUCTURAL FRAME | | | |
| BEAMS | 0 | | |
| COLUMNS | 0 | | |
| EXTERIOR BEARING WALLS | 0 | | |
| INTERIOR BEARING WALLS | 0 | | |
| EXTERIOR NONBEARING WALLS | 0 | | |
| FLOOR CONSTRUCTION | 0 | | |
| ROOF CONSTRUCTION & CANOPY | 0 | | |
| SHAFT & VERTICAL EXIT ENCLOSURES | 0 | | |
| EXTERIOR OPENINGS | 0 | | |
| EDGE OF SLAB | 0 | | |

NOTE : REFER TO PARTITION TYPES SCHEDULE ON A710 FOR UL ASSEMBLIES AT ADDITIONAL INTERIOR PARTITIONS AND WALL RATINGS AND SPECIFICATION SECTION 078413 PENETRATION FIRESTOPPING FOR USE OF UL ASSEMBLIES AT THROUGH-PENETRATION FIRESTOP CONDITIONS.



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DEVELOPMENT

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Project Information

SPAD - Hartsel Station
12855 Highway 24 Hartsel, CO 80449

Sheet Information

Sheet Title:
CODE ANALYSIS

Sheet Number:

LS000

DPA Project: 19716.00

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420.2 Separation walls. Walls separating dwelling units in the same building, walls separating sleeping units in the same building and walls separating dwelling or sleeping units from other occupancies contiguous to them in the same building shall be constructed as fire partitions in accordance with Section 708.

508.3 Nonseparated occupancies. Buildings or portions of buildings that comply with the provisions of this section shall be considered as nonseparated occupancies.

508.3.1 Occupancy classification. Nonseparated occupancies shall be individually classified in accordance with Section 302.1. The requirements of this code shall apply to each portion of the building based on the occupancy classification of that space. In addition, the most restrictive provisions of Chapter 9 that apply to the nonseparated occupancies shall apply to the total nonseparated occupancy area. Where nonseparated occupancies occur in a high-rise building, the most restrictive requirements of Section 403 that apply to the nonseparated occupancies shall apply throughout the high-rise building.

508.3.2 Allowable building area and height. The allowable building area and height of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1.

508.3.3 Separation. No separation is required between nonseparated occupancies.

1010.1.2.1 Direction of swing. Pivot or side-hinged swinging doors shall swing in the direction of egress travel where serving a room or area containing an occupant load of 50 or more persons or a Group H occupancy.

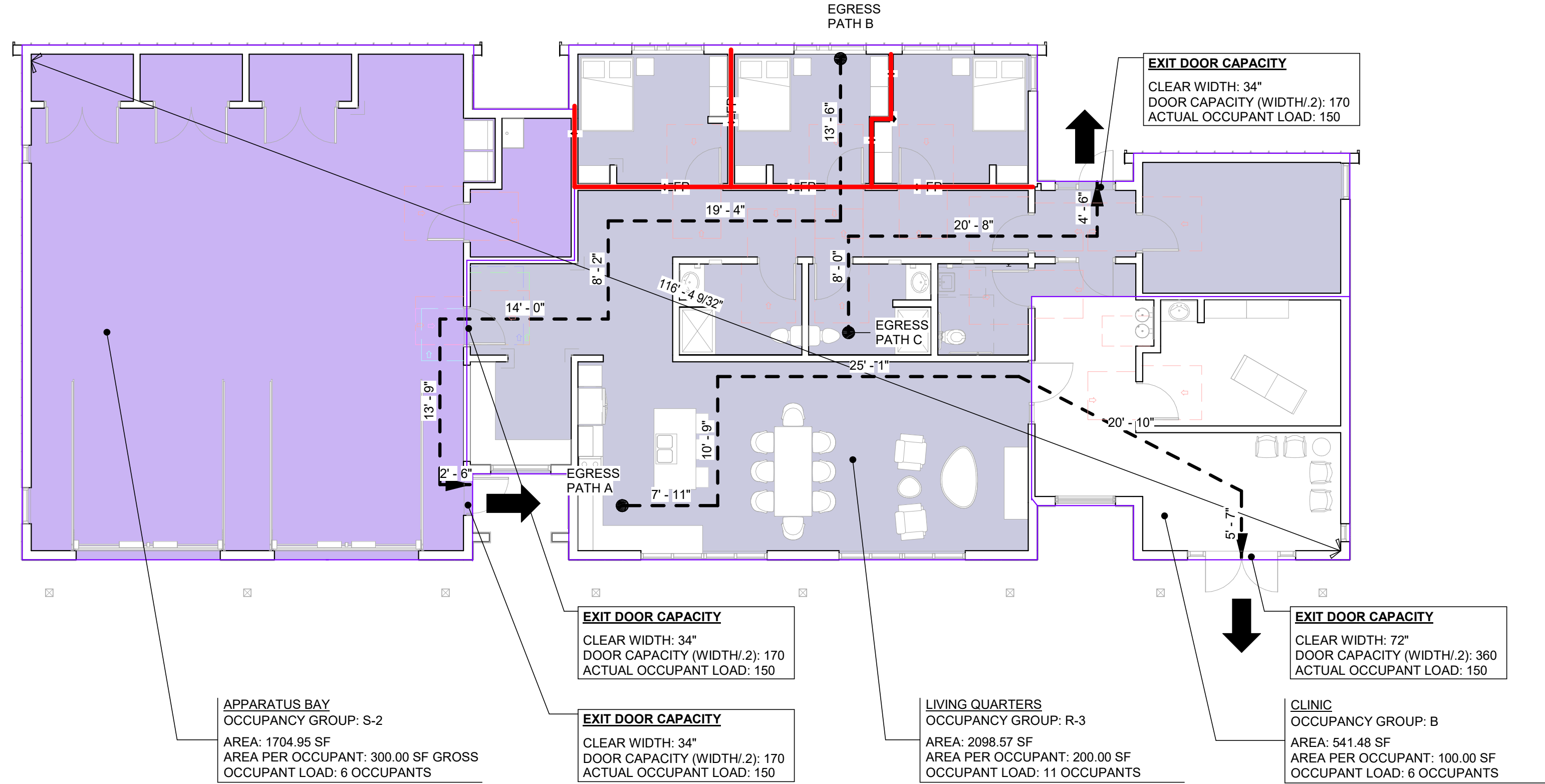
1010.1.8 Door arrangement. Space between two doors in a series shall be 48 inches (1219 mm) minimum plus the width of a door swinging into the space. Doors in a series shall swing either in the same direction or away from the space between the doors.

1016.2 Egress through intervening spaces. Egress through intervening spaces shall comply with this section.

2. Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas and the area served are accessory to one or the other, are not a Group H occupancy and provide a discernible path of egress travel to an exit.

| 02 - EGRESS DATA SUMMARY | | |
|--------------------------|---------------|------------------|
| Type | Comments | Path of Egress |
| 01 Start | EGRESS PATH A | 7' - 11 45/128" |
| 02 Middle | EGRESS PATH A | 25' - 0 223/256" |
| 02 Middle | EGRESS PATH A | 20' - 9 223/256" |
| 02 Middle | EGRESS PATH A | 10' - 9" |
| 03 End | EGRESS PATH A | 5' - 6 143/256" |
| EGRESS PATH A: 5 | | 70' - 1 21/32" |
| 01 Start | EGRESS PATH B | 13' - 6" |
| 02 Middle | EGRESS PATH B | 19' - 4" |
| 02 Middle | EGRESS PATH B | 8' - 2" |
| 02 Middle | EGRESS PATH B | 14' - 0" |
| 02 Middle | EGRESS PATH B | 13' - 9 7/16" |
| 03 End | EGRESS PATH B | 2' - 6" |
| EGRESS PATH B: 6 | | 71' - 3 7/16" |
| 01 Start | EGRESS PATH C | 8' - 0 27/64" |
| 02 Middle | EGRESS PATH C | 20' - 8 105/256" |
| 03 End | EGRESS PATH C | 4' - 6" |
| EGRESS PATH C: 3 | | 33' - 2 213/256" |
| Grand total: 14 | | 174' - 7 59/64" |

| FUNCTION OF SPACE | OCCUPANT LOAD | OCCUPANCY GROUP SF |
|-------------------|---------------|--------------------|
| BUSINESS AREAS | 0 | 541 SF |
| PARKING GARAGES | 0 | 1,705 SF |
| RESIDENTIAL | 0 | 2,099 SF |
| Grand total | 0 | 4,345 SF |



Wall Tape Legend

| | | FIRE DOOR PROTECTION RATINGS PER TABLE 715.4 |
|---|--|---|
| 1/2 HR FIRE PARTITION | | 1/3 HOUR AT FIRE PARTITIONS; 1/3 HOUR(b) AT CORRIDOR WALLS |
| 1 HR FIRE PARTITION | | 1/3 HOUR(b) AT CORRIDOR WALLS; 3/4 HOUR AT OTHER FIRE PARTITIONS |
| 2 HR FIRE WALL | | 1 1/2 HOUR |
| 3 HR FIRE WALL | | 3 HOUR(a) |
| 4 HR FIRE WALL | | 3 HOUR |
| 1 HR FIRE BARRIER | | 1 HOUR AT SHAFT, EXIT ENCLOSURE; EXIT PASSAGEWAY WALLS; 3/4 HOUR AT OTHER FIRE BARRIERS |
| 2 HR FIRE BARRIER | | 1 1/2 HOUR |
| 3 HR FIRE BARRIER | | 3 HOUR |
| 4 HR FIRE BARRIER | | 3 HOUR |
| SMOKE PARTITION | | (c) |
| 1 HR SMOKE BARRIER | | 1/3 HOUR(b) |
| WALL RESISTING THE PASSAGE OF SMOKE | | (d) |
| 1 HR EXTERIOR FIRE RESISTANCE RATED WALL | | |
| 2 HR EXTERIOR FIRE RESISTANCE RATED WALL | | |
| 3 HR EXTERIOR FIRE RESISTANCE RATED WALL | | |
| 1 HR LOAD BEARING EXTERIOR FIRE RESISTANCE RATED WALL | | |
| 2 HR LOAD BEARING EXTERIOR FIRE RESISTANCE RATED WALL | | |
| 3 HR LOAD BEARING EXTERIOR FIRE RESISTANCE RATED WALL | | |
| 1 HR LOAD BEARING INTERIOR FIRE RESISTANCE RATED WALL | | |
| 2 HR LOAD BEARING INTERIOR FIRE RESISTANCE RATED WALL | | |
| 3 HR LOAD BEARING INTERIOR FIRE RESISTANCE RATED WALL | | |

(a) IBC TABLE 715.4 - TWO DOORS, EACH WITH A FIRE PROTECTION RATING OF 1-1/2 HOURS, INSTALLED ON OPPOSITE SIDES OF THE SAME OPENING IN A FIRE WALL, SHALL BE DEEMED EQUIVALENT TO ONE 3 HR FIRE DOOR.

(b) IBC TABLE 715.4 - TESTING REQUIREMENTS PER IBC 715.4.3 FOR CORRIDOR AND SMOKE BARRIER WALLS.

(c) IBC 711.5.2 SMOKE AND DRAFT CONTROL DOORS WHERE REQUIRED BY CODE. IBC 711.5.3 SELF OR AUTOMATIC CLOSING BY SMOKE DETECTION WHERE REQUIRED BY CODE.

(d) IBC 508.2.5.2 - SELF OR AUTOMATIC CLOSING UPON DETECTION OF SMOKE PER 715.4.8.3; NO TRANSFER OPENINGS & NOT UNDERCUT IN EXCESS OF NFPA 80

Life Safety General Notes

Life Safety Legend

FIRE SAFETY COMPONENTS

| | |
|--|---|
| | FIRE EXTINGUISHER BRACKET (COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT) |
| | FIRE EXTINGUISHER CABINET (COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT) |
| | FIRE VALVE CABINET (COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT) |
| | FIRE DEPARTMENT CONNECTION (COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT) |
| | STANDPIPE (COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT) |
| | HORIZONTAL EXIT CONSTRUCTED AS 2 HOUR FIRE BARRIER |
| | HORIZONTAL SHAFT WALL ASSEMBLY ABOVE |
| | HAZARDOUS AREAS |
| | B OCCUPANCY (NOT INCLUDED IN LIFE SAFETY PLANS) |

HEALTHCARE COMPONENTS

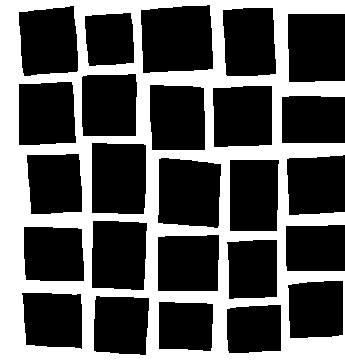
| | |
|--|--|
| | SMOKE COMPARTMENT |
| | SUITE |
| | 8'-0" CORRIDOR REQUIRED HEALTHCARE |
| | 6'-0" CORRIDOR ADJUNCT AREAS |

EGRESS COMPONENTS

| | |
|--|---|
| | LIFESAFETY NOTES |
| | INCIDENTAL ACCESSORY OCCUPANCY NOTES |
| | EXIT ACCESS |
| | EXIT DISCHARGE |
| | DIAGONAL DISTANCE TOOL |
| | Comments |
| | EGRESS PATH OF TRAVEL |

LIFE SAFETY NOTES

| # | comment |
|---|---------|
|---|---------|



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Sheet Information

Sheet Title:
LIFE SAFETY PLAN - LEVEL 1

Sheet Number:

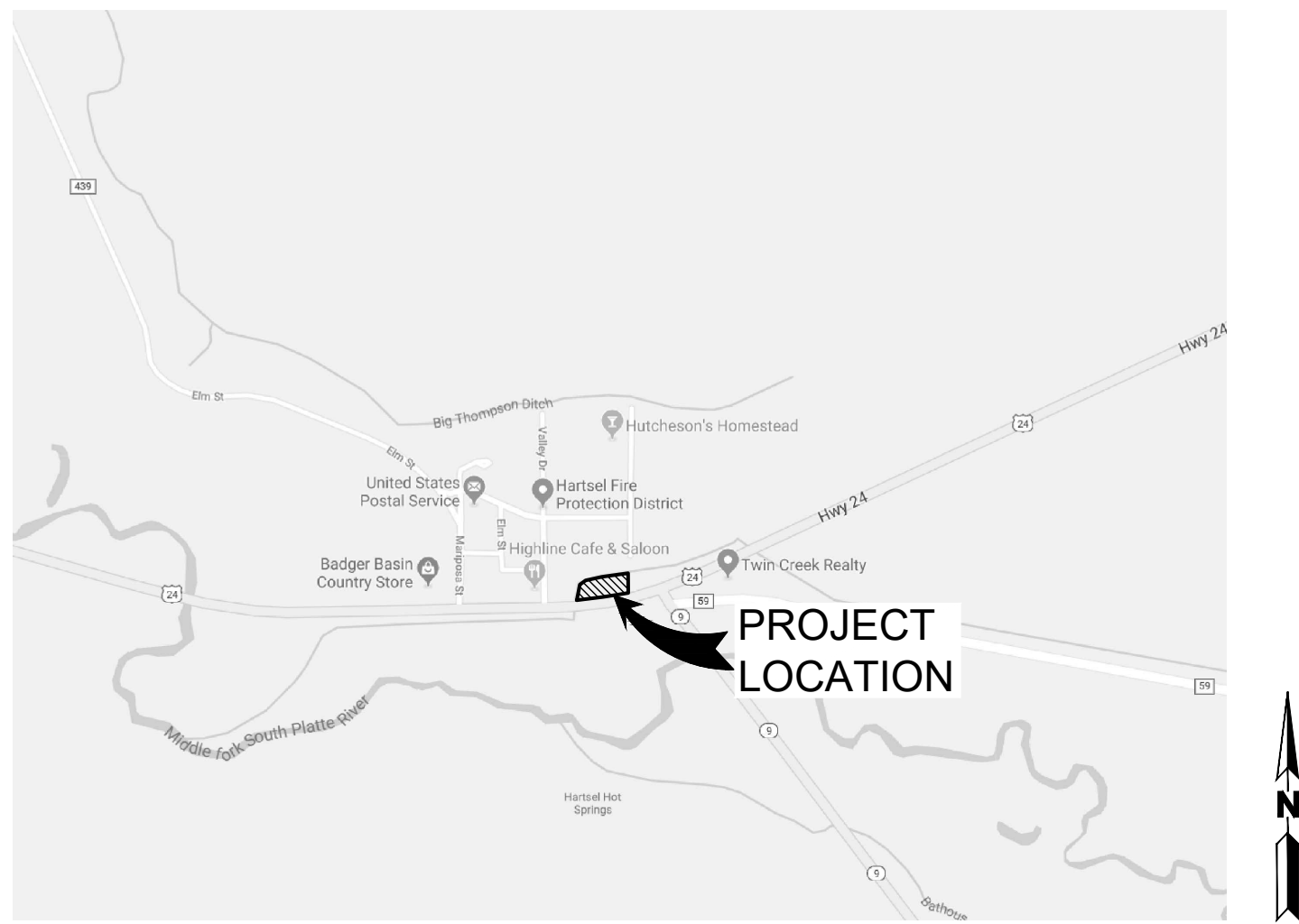
LS101

DPA Project: 19716.00

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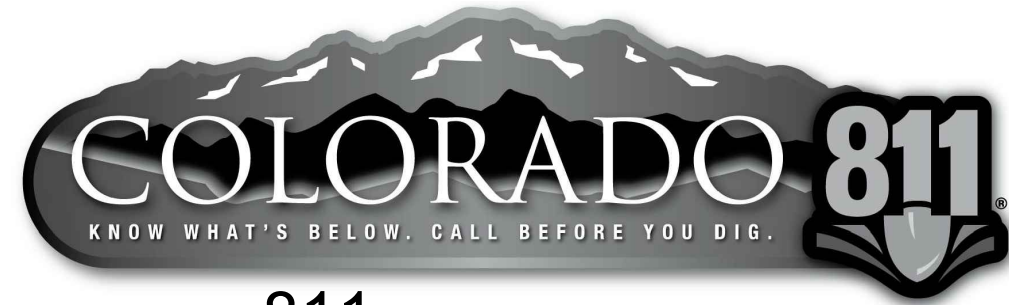
SITE CONSTRUCTION PLANS SOUTH PARK AMBULANCE FACILITY

A PARCEL OF LAND LOCATED IN THE NORTHEAST QUARTER OF SECTION 8,
TOWNSHIP 12 SOUTH, RANGE 75 WEST OF THE SIXTH PRINCIPAL MERIDIAN,
CITY OF HARTSEL, COUNTY OF PARK, STATE OF COLORADO
LOCATED AT: HWY 24 HARTSEL



| SHEET INDEX | |
|--------------|----------------------------|
| SHEET NUMBER | SHEET TITLE |
| C100 | COVER SHEET |
| C200 | EXISTING & DEMOLITION PLAN |
| C300 | HORIZONTAL CONTROL PLAN |
| C400 | GRADING PLAN |
| C500 | OVERALL UTILITY PLAN |
| C600 | DETAILS |
| C601 | DETAILS |

| EXISTING | | PROPOSED |
|----------|------------------------|----------|
| | PROPERTY LINE | |
| | RIGHT-OF-WAY LINE | |
| | SECTION LINE | |
| | EASEMENT | |
| | RETAINING WALL | |
| | CURB & GUTTER | |
| | CURB & GUTTER (SPILL) | |
| | CURB & GUTTER (CATCH) | |
| | HEAVY DUTY DRIVE LANES | |
| | CONCRETE/ SIDEWALK | |
| | HANDICAP RAMPS | |
| | CONTOURS | |
| | UTILITY CROSSING | |
| | STORM SEWER | |
| | STORM MANHOLE | |
| | ROOF DRAIN | |
| | STORM INLET | |
| | FLARED END SECTION | |
| | SANITARY SEWER | |
| | SANITARY MANHOLE | |
| | CLEAN OUT | |
| | WATER LINE | |
| | WATER VALVE | |
| | FIRE HYDRANT | |
| | WATER METER | |
| | IRRIGATION LINE | |
| | IRRIGATION CONTROL | |
| | OVERHEAD ELECTRIC | |
| | ELECTRIC LINE | |
| | LIGHT POLE | |
| | POWER POLE | |
| | ELECTRIC METER | |
| | TELEPHONE LINE | |
| | TELEPHONE PEDESTAL | |
| | CABLE TV | |
| | GAS LINE | |
| | FIBER OPTIC | |
| | MONITOR WELL | |
| | SIGN | |
| | DIRECTION OF FLOW | |
| | GRADING ARROW | |
| | DECIDUOUS TREE | |
| | EVERGREEN TREE | |
| | BUSH/SHRUB | |
| | SPOT ELEVATIONS | |
| DRIVE | DESCRIPTIONS | DRIVE |



CALL **811** 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES

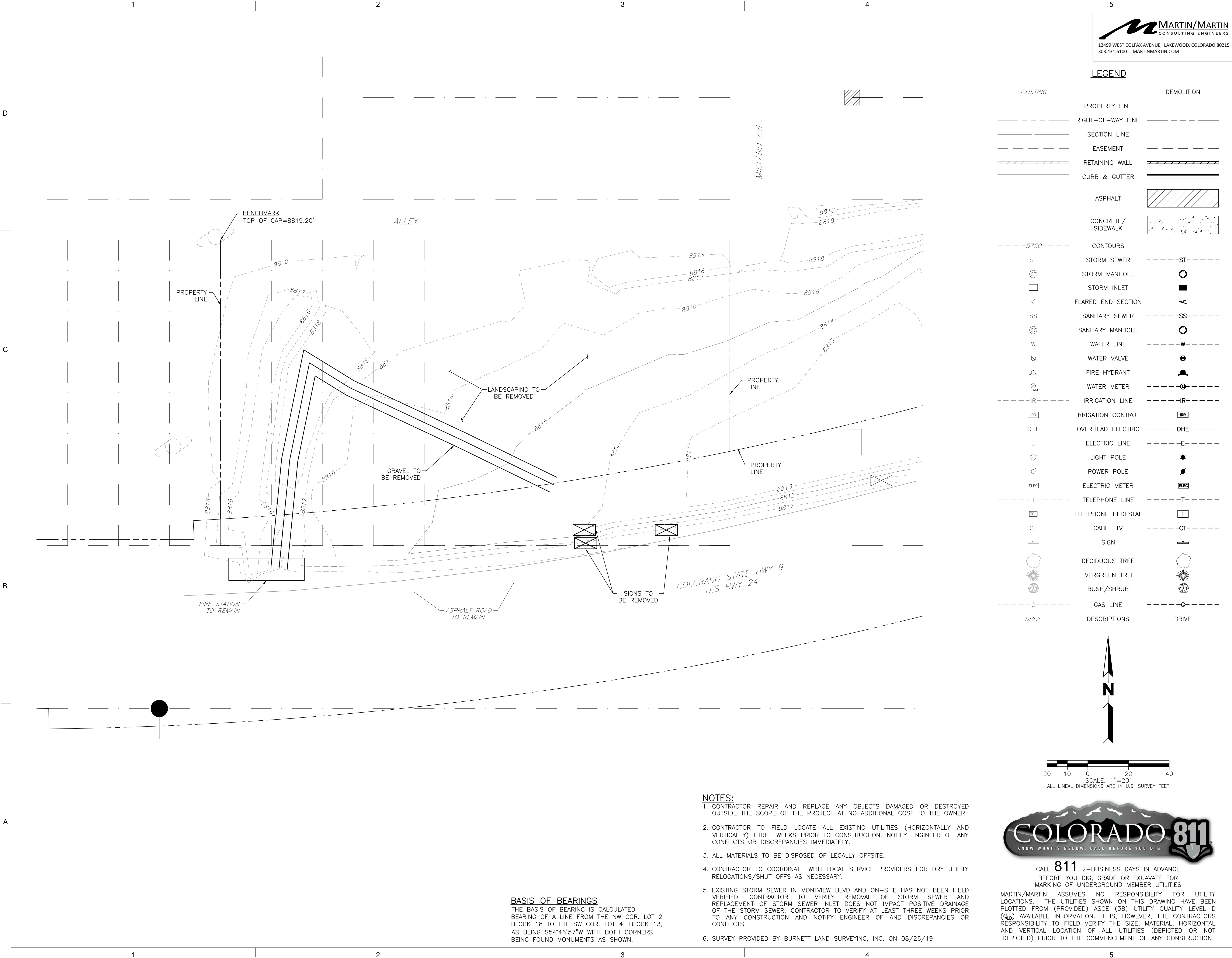
MARTIN/MARTIN ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM (PROVIDED) ASCE (38) UTILITY QUALITY LEVEL D (Q_u) AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

MARTIN/MARTIN, INC. GENERAL NOTES:

EXISTING UTILITIES DEPICTED HEREON, DO NOT COMPLY WITH ASCE 38 UTILITY LOCATE STANDARD QUALITY LEVEL A OR B, UNLESS A SEPARATE PLAN SHEET ENTITLED "ASCE 38 UTILITY QUALITY LEVEL B PLAN (A&B)", STAMPED BY A COLORADO PE, IS INCLUDED IN THE PLAN SET. THE UTILITY LOCATES SHOWN HEREON REPRESENT ASCE QUALITY LEVEL D, THUS THE CONTRACTOR IS REQUIRED TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL THE PROVISIONS OF SENATE BILL 18-167 THAT REQUIRE NOTIFICATION OF THE NOTIFICATION ASSOCIATION AND COMPLIANCE WITH CURRENT 811 PROGRAM REQUIREMENTS.

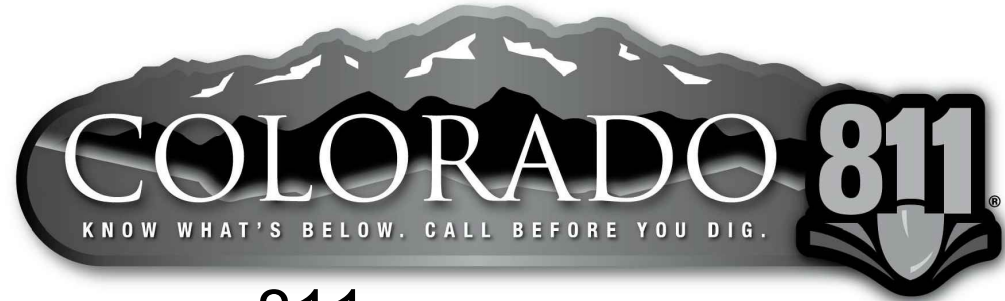
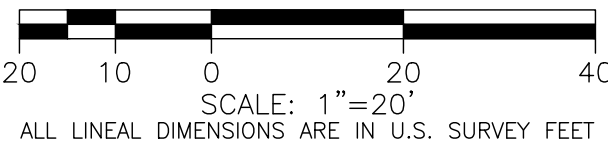
IN ADDITION TO THE CITY OF HARTSEL STANDARD NOTES, THE FOLLOWING SHALL APPLY:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF HARTSEL STANDARDS AND SPECIFICATIONS [LATEST REVISION]. ALL STREETS, WATER MAIN, STORM SEWER AND SANITARY SEWER CONSTRUCTION SHALL BE SUBJECT TO CITY OF HARTSEL INSPECTION.
2. THE CONTRACTOR SHALL HAVE ONE [1] SIGNED COPY OF PLANS APPROVED BY THE CITY OF HARTSEL AND ONE COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
3. [EDIT THE FOLLOWING PER LOCAL JURISDICTION] CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER AND THE CITY OF HARTSEL [48]-HOURS PRIOR TO THE START OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE CITY OF HARTSEL ENGINEERING INSPECTOR [24]-HOURS PRIOR TO START OF WORK.
4. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING, BUT NOT LIMITED TO, SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, TRENCH EXCAVATION AND SHORING, TRAFFIC CONTROL AND SECURITY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
5. THE CITY OF HARTSEL/OWNER/ENGINEER CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
6. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION [OSHA] "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION." THESE REGULATIONS ARE DESCRIBED IN SUBPART P, PART 1926 OF THE CODE OF FEDERAL REGULATIONS. SHEETING AND SHORING SHALL BE UTILIZED WHERE NECESSARY TO PREVENT ANY EXCESSIVE WINNING OR SLUGHING OF THE TRENCH WHICH MAY BE DETRIMENTAL TO HUMAN SAFETY, THE PILE BEING PLACED, OR TO ANY EXISTING SITE IMPROVEMENTS OR STRUCTURES. THE CONTRACTOR MAY BE REQUIRED TO USE AN APPROVED PILING INSTEAD OF SHEETING AND SHORING.
7. CONTRACTOR SHALL OBTAIN ALL PERMITS FOR STREET CUTS, UTILITY INTERRUPTIONS AND TRAFFIC CONTROL. [REMOVE THE FOLLOWING IF NOT IN CDOT RIGHT-OF-WAY] ANY CONSTRUCTION WITHIN THE COLORADO DEPARTMENT OF TRANSPORTATION [CDOT] RIGHT-OF-WAY WILL REQUIRE A CDOT CONSTRUCTION PERMIT PRIOR TO ANY WORK IN THEIR RIGHT-OF-WAY.
8. AT LEAST FIVE [5] WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO CITY OF HARTSEL. THE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A CERTIFIED TRAFFIC CONTROL SUPERVISOR AND SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. NO WORK SHALL BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES HAVE BEEN PLACED IN ACCORDANCE WITH THE PLAN. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THE TRAFFIC CONTROL DEVICES FOR THE ENTIRE DURATION OF THE PROJECT OR UNTIL THE ROADWAY HAS BEEN OPENED AND THE PERMANENT TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED.
9. ALL TRENCH BACKFILL AND SUBGRADE PREPARATION SHALL BE TESTED TO ENSURE COMPLIANCE WITH CITY OF HARTSEL STANDARDS AND SHALL BE TESTED AT CITY OF HARTSEL REQUIRED FREQUENCIES BY A CITY OF HARTSEL APPROVED PRIVATE SOILS TESTING FIRM. TEST RESULTS SHALL BE SUBMITTED TO, REVIEWED, AND APPROVED BY, THE CITY OF HARTSEL ENGINEERING DIVISION PRIOR TO INSTALLING BASE COURSE, ASPHALT OR CONCRETE ON PREPARED SUBGRADE. ALL BASE COURSE DENSITY SHALL ALSO BE TESTED BY THE PRIVATE SOILS FIRM AT CITY OF HARTSEL REQUIRED FREQUENCIES TO ENSURE COMPLIANCE WITH CITY OF HARTSEL REQUIREMENTS. BASE COURSE TEST RESULTS SHALL ALSO BE APPROVED BY THE CITY OF HARTSEL ENGINEERING DIVISION PRIOR TO INSTALLING PAVEMENT. ALL CONCRETE AND ASPHALT PLACED SHALL BE TESTED IN ACCORDANCE WITH CITY OF HARTSEL MINIMUM MATERIALS TESTING STANDARDS. TEST RESULTS SHALL BE REVIEWED AND APPROVED BY THE CITY OF HARTSEL ENGINEERING DIVISION PRIOR TO INITIATION OF THE REQUIRED [2] YEAR WARRANTY PERIOD.
10. CONTRACTOR SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY RULES AND REGULATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION AND FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANY FOR ANY UTILITY CROSSINGS REQUIRED. REPAIR OF DAMAGED UTILITIES SHALL BE AT THE CONTRACTORS EXPENSE, INCLUDING BUT NOT LIMITED TO UNKNOWN UNDERGROUND UTILITIES.
12. EXISTING FENCES, TREES, SIDEWALKS, CURBS AND GUTTERS, LANDSCAPING, STRUCTURES, AND IMPROVEMENTS DESTROYED, DAMAGED OR REMOVED DUE TO CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED OR RESTORED IN LIKE KIND AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE INDICATED ON THESE PLANS.
13. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING REASONABLE ACCESS TO AND FROM ALL OF THE ADJACENT PROPERTIES THROUGHOUT THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE REQUIRED TO MEET (INDIVIDUALLY OR COLLECTIVELY) WITH ALL ADJACENT PROPERTY OWNERS WHO'S DRIVEWAY ACCESS WILL BE AFFECTED BY THE WORK. AS CONSTRUCTION CONDITIONS CHANGE AND THE WORK PROGRESSES, THE CONTRACTOR SHALL BE REQUIRED TO PERIODICALLY UPDATE THOSE PROPERTY OWNERS SO THAT THEY ARE KEPT INFORMED ABOUT THEIR ACCESS.
14. OWNER/DEVELOPER SHALL OBTAIN A STORMWATER CONSTRUCTION PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, PRIOR TO CLEARING, GRADING, OR EXCAVATING A SITE OF ONE-HALF ACRE OR MORE, OR LESS THAN ONE-HALF ACRE AND PART OF A LARGER DEVELOPMENT. A COPY OF THE APPROVED PERMIT MUST BE SUBMITTED TO THE CITY OF HARTSEL ENGINEERING DIVISION PRIOR TO THE START OF CLEARING, GRADING OR EXCAVATING OF THE SITE. A COPY OF THE APPROVED PERMIT MUST ALSO BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
15. CONTRACTOR SHALL OBTAIN A COLORADO STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT FOR ALL AREAS WHERE DEWATERING IS REQUIRED FROM AN EXCAVATION AND WATER IS DISCHARGED INTO A STORM SEWER, CHANNEL, IRRIGATION DITCH OR ANY WATERS OF THE UNITED STATES. A COPY OF THE APPROVED PERMIT MUST BE SUBMITTED TO THE CITY OF HARTSEL ENGINEERING DIVISION PRIOR TO THE START OF ANY DEWATERING. A COPY OF THE APPROVED PERMIT MUST ALSO BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STORM RUNOFF AND ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ADJUTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. NO CONCRETE SHALL BE PLACED WHERE GROUNDWATER IS VISIBLE OR UNTIL THE GROUNDWATER TABLE HAS BEEN LOWERED BELOW THE PROPOSED IMPROVEMENTS. ANY UNSTABLE AREAS, AS A RESULT OF GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE STABILIZED AS AGREED UPON BY THE CONTRACTOR, THE CITY OF HARTSEL, AND THE GEOTECHNICAL ENGINEER AT THE TIME OF OCCURRENCE.
17. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ELEVATIONS OF ALL EXISTING SEWER MAINS, WATER MAINS, CURBS, GUTTERS AND OTHER UTILITIES AT THE POINT OF CONNECTION SHOWN ON THE PLANS, AND AT ANY UTILITY CROSSINGS PRIOR TO INSTALLING ANY OF THE NEW IMPROVEMENTS. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO MODIFY THE DESIGN.
18. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL UTILITIES TO COORDINATE SCHEDULES.
19. CONTRACTOR SHALL NOTIFY ALL BUSINESSES/RESIDENTS IN WRITING 48 HOURS PRIOR TO ANY SHUT-OFF IN SERVICE. THE NOTICES MUST HAVE CONTRACTOR'S PHONE NUMBER AND NAME OF CONTACT PERSON, AND EMERGENCY PHONE NUMBER FOR AFTER HOURS CALLS. ALL SHUT OFFS MUST BE APPROVED BY THE CITY OF HARTSEL UTILITY DIVISION, AND CITY OF HARTSEL VALVES AND APPURTENANCES SHALL BE OPERATED BY CITY OF HARTSEL PERSONNEL, UNLESS WRITTEN PERMISSION IS GIVEN OTHERWISE.



LEGEND

| EXISTING | | DEMOLITION |
|----------|-----------------------|------------|
| --- | PROPERTY LINE | --- |
| --- | RIGHT-OF-WAY LINE | --- |
| --- | SECTION LINE | --- |
| --- | EASEMENT | --- |
| --- | RETAINING WALL | --- |
| --- | CURB & GUTTER | --- |
| --- | ASPHALT | --- |
| --- | CONCRETE/ SIDEWALK | --- |
| --- | CONTOURS | --- |
| --- | STORM SEWER | --- |
| --- | STORM MANHOLE | --- |
| --- | STORM INLET | --- |
| --- | FLARED END SECTION | --- |
| --- | SANITARY SEWER | --- |
| --- | SANITARY MANHOLE | --- |
| --- | WATER LINE | --- |
| --- | WATER VALVE | --- |
| --- | FIRE HYDRANT | --- |
| --- | WATER METER | --- |
| --- | IRRIGATION LINE | --- |
| --- | IRRIGATION CONTROL | --- |
| --- | OVERHEAD ELECTRIC | --- |
| --- | ELECTRIC LINE | --- |
| --- | LIGHT POLE | --- |
| --- | POWER POLE | --- |
| --- | ELECTRIC METER | --- |
| --- | TELEPHONE LINE | --- |
| --- | TELEPHONE PEDESTAL | --- |
| --- | CABLE TV | --- |
| --- | SIGN | --- |
| --- | DECIDUOUS TREE | --- |
| --- | EVERGREEN TREE | --- |
| --- | BUSH/SHRUB | --- |
| --- | GAS LINE | --- |
| --- | DRIVE | --- |
| --- | DRIVE | --- |



CALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES

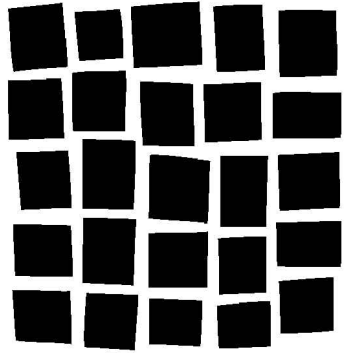
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NOTES:

1. CONTRACTOR REPAIR AND REPLACE ANY OBJECTS DAMAGED OR DESTROYED OUTSIDE THE SCOPE OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
2. CONTRACTOR TO FIELD LOCATE ALL EXISTING UTILITIES (HORIZONTALLY AND VERTICALLY) THREE WEEKS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES IMMEDIATELY.
3. ALL MATERIALS TO BE DISPOSED OF LEGALLY OFFSITE.
4. CONTRACTOR TO COORDINATE WITH LOCAL SERVICE PROVIDERS FOR DRY UTILITY RELOCATIONS/SHUT OFFS AS NECESSARY.
5. EXISTING STORM SEWER IN MONTVIEW BLVD AND ON-SITE HAS NOT BEEN FIELD VERIFIED. CONTRACTOR TO VERIFY REMOVAL OF STORM SEWER AND REPLACEMENT OF STORM SEWER INLET DOES NOT IMPACT POSITIVE DRAINAGE OF THE STORM SEWER. CONTRACTOR TO VERIFY AT LEAST THREE WEEKS PRIOR TO ANY CONSTRUCTION AND NOTIFY ENGINEER OF AND DISCREPANCIES OR CONFLICTS.
6. SURVEY PROVIDED BY BURNETT LAND SURVEYING, INC. ON 08/26/19.

BASIS OF BEARINGS

THE BASIS OF BEARING IS CALCULATED BEARING OF A LINE FROM THE NW COR. LOT 2 BLOCK 18 TO THE SW COR. LOT 4, BLOCK 13, AS BEING S54°46'57"W WITH BOTH CORNERS BEING FOUND MONUMENTS AS SHOWN.



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Project Information

SPAD - Hartsel Station
12855 Highway 24
Hartsel, CO 80449

Sheet Information

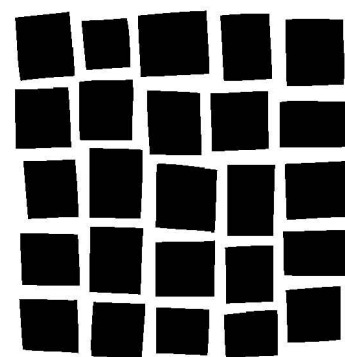
Sheet Title:
EXISTING &
DEMOLITION PLAN

Sheet Number:

C200

DPA Project: 19716.00

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Sheet Information

Sheet Title:
HORIZONTAL
CONTROL PLAN

Sheet Number:

C300

DPA Project: 19716.00

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D

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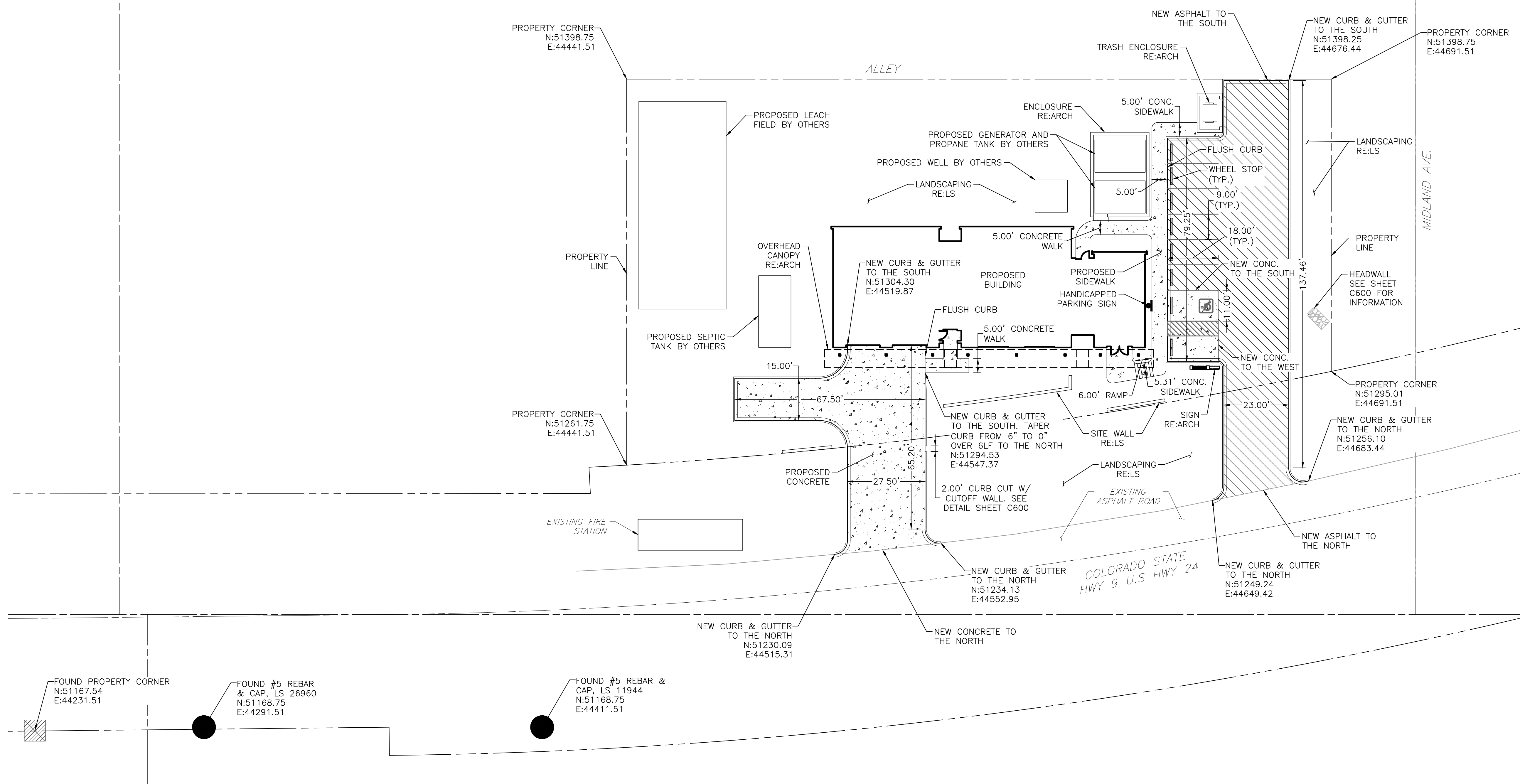
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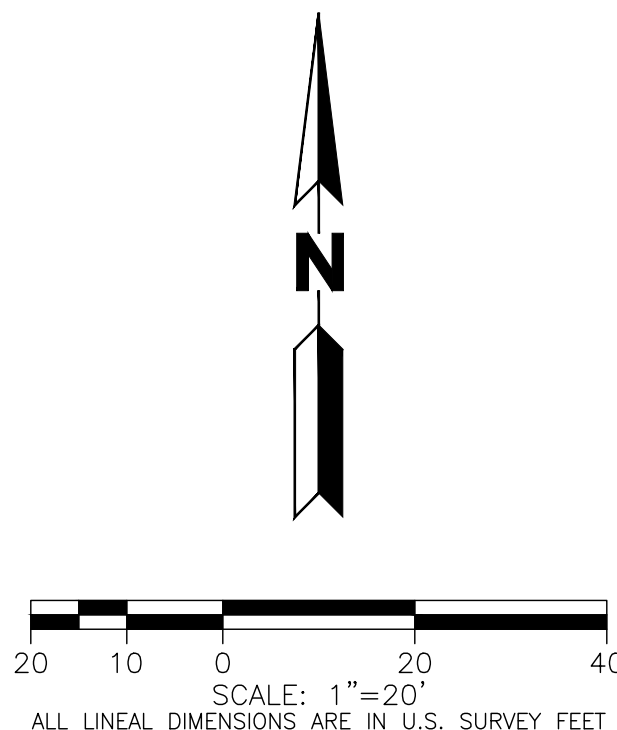
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A



LEGEND

| EXISTING | PROPOSED |
|------------------------|------------------------|
| PROPERTY LINE | PROPERTY LINE |
| RIGHT-OF-WAY LINE | RIGHT-OF-WAY LINE |
| SECTION LINE | SECTION LINE |
| EASEMENT | EASEMENT |
| CURB & GUTTER | CURB & GUTTER |
| CURB & GUTTER (SPILL) | CURB & GUTTER (SPILL) |
| CURB & GUTTER (CATCH) | CURB & GUTTER (CATCH) |
| HEAVY DUTY DRIVE LANES | HEAVY DUTY DRIVE LANES |
| CONCRETE/ SIDEWALK | CONCRETE/ SIDEWALK |
| HANDICAP RAMPS | HANDICAP RAMPS |
| SIGN | SIGN |
| DRIVE | DRIVE |

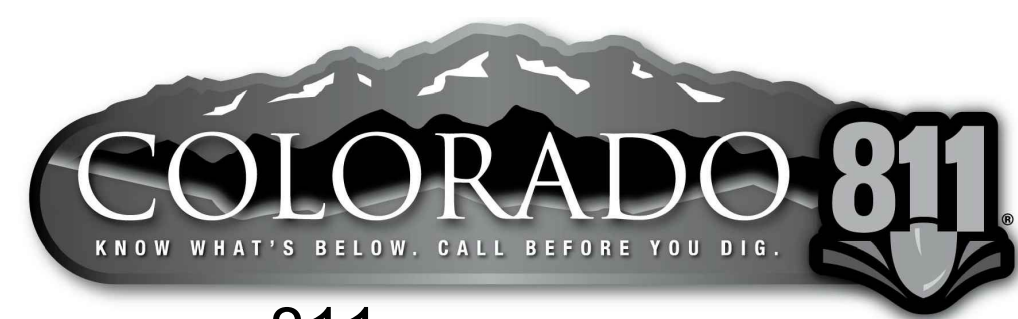


BASIS OF BEARINGS

THE BASIS OF BEARING IS CALCULATED BEARING OF A LINE FROM THE NW COR. LOT 2 BLOCK 18 TO THE SW COR. LOT 4, BLOCK 13, AS BEING S54°46'57"W WITH BOTH CORNERS BEING FOUND MONUMENTS AS SHOWN.

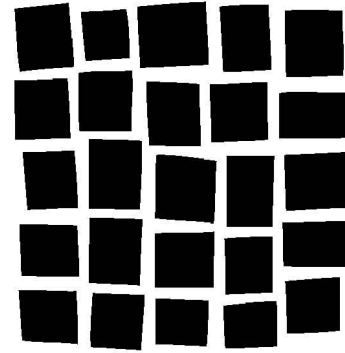
NOTES:

- CONCRETE SIDEWALK PAVEMENT THICKNESS SHALL BE MINIMUM 4" THICK. CONCRETE DRIVE LANES AND PARKING SPACES SHALL BE 8" THICK CONCRETE WITH #4 REBAR 18" O.C.E.W. ASPHALT DRIVE LANES AND PARKING SPACES SHALL CONSIST OF MINIMUM 7" THICK FILL DEPTH ASPHALT. CONTRACTOR TO VERIFY PAVEMENT THICKNESSES WITH GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.



CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

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12855 Highway 24
Hartsel, CO 80449

Sheet Information

Sheet Title:
GRADING PLAN

Sheet Number:

C400

DPA Project: 19716.00

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LEGEND

| EXISTING | | PROPOSED |
|----------|--------------------|----------|
| --- | PROPERTY LINE | --- |
| --- | RIGHT-OF-WAY LINE | --- |
| --- | SECTION LINE | --- |
| --- | EASEMENT | --- |
| /// | RETAINING WALL | /// |
| === | CURB & GUTTER | === |
| -5750- | CONTOURS | -5750- |
| -ST- | STORM SEWER | -ST- |
| ⊙ | STORM MANHOLE | ○ |
| -RD- | ROOF DRAIN | -RD- |
| □ | INLET | ■ |
| < | FLARED END SECTION | ◁ |
| → | SIGN | → |
| → | GRADING ARROW | → |
| ○ | DECIDUOUS TREE | ○ |
| ⊙ | EVERGREEN TREE | ⊙ |
| ⊙ | BUSH/SHRUB | ⊙ |
| DRIVE | DESCRIPTIONS | DRIVE |
| ELEV. | SPOT ELEVATIONS | ELEV. |

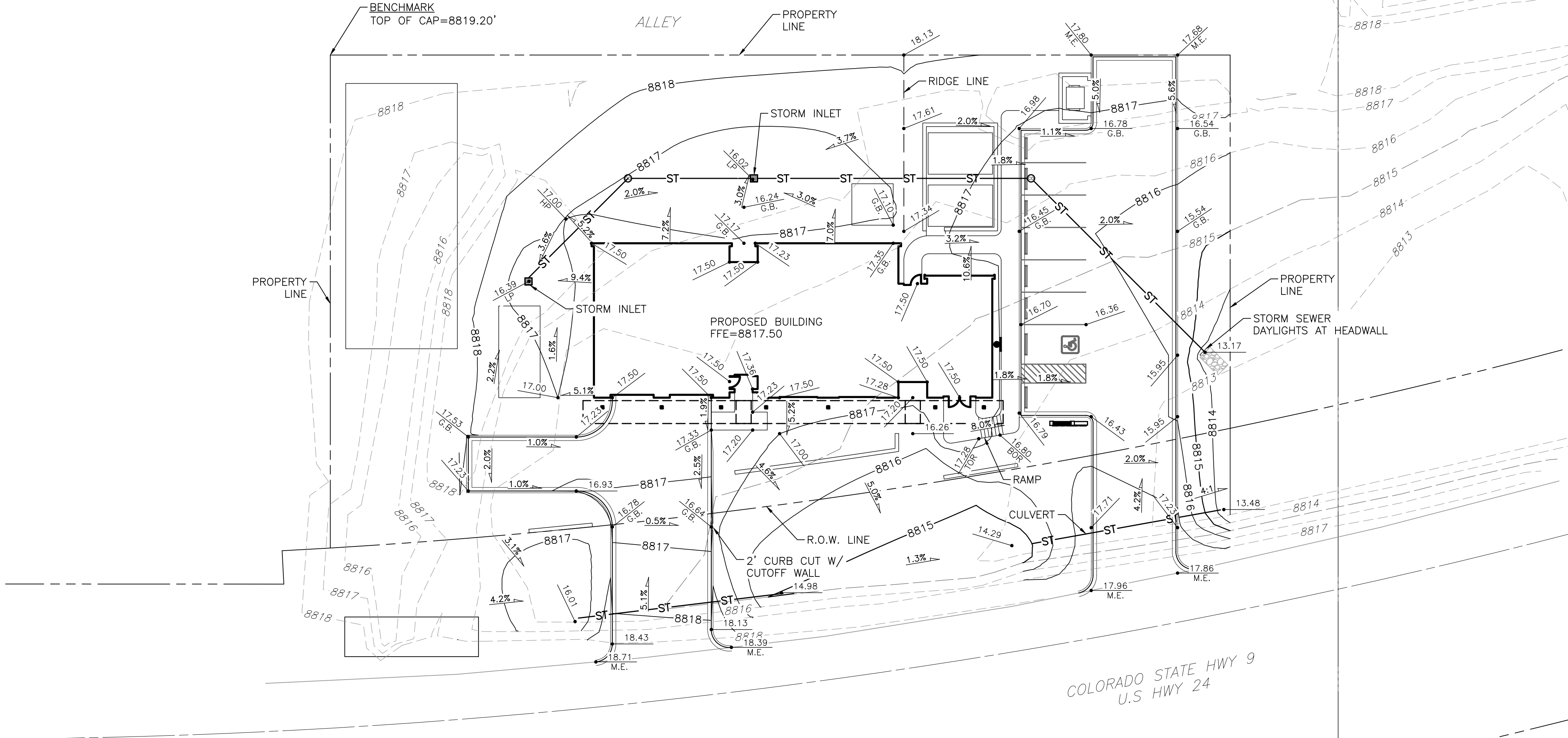


20 10 0 20 40
SCALE: 1"=20'
ALL LINEAL DIMENSIONS ARE IN U.S. SURVEY FEET



CALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
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NOTES:

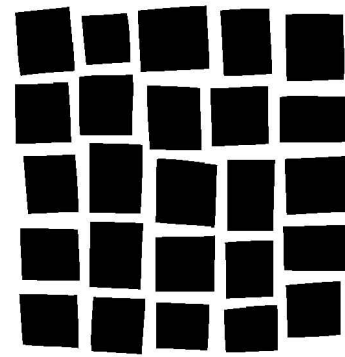
- ALL SPOT ELEVATIONS ARE TO FINAL FINISHED GRADE AT FLOWLINE UNLESS OTHERWISE NOTED.
- SIDEWALK TO SLOPE AWAY FROM BUILDING AT 1.8% FOR 5' MINIMUM.
- PROVIDE MINIMUM 5% SLOPE AWAY FROM BUILDING FOR A MINIMUM OF 10 FEET IN ALL LANDSCAPED AREAS ADJACENT TO THE BUILDING.
- CONTRACTOR TO NOTIFY ENGINEER AT LEAST THREE WEEKS PRIOR TO CONSTRUCTION IF MATCH EXISTING SPOT ELEVATIONS SHOWN ON PLANS VARY FROM FIELD ELEVATIONS BY MORE THAN 0.05'.
- EXISTING ELEVATIONS SHOWN ON THIS DRAWING HAVE BEEN DEPICTED FROM BEST AVAILABLE INFORMATION AND ARE SHOWN TO THE EXTENT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING GRADE CONDITIONS AT THE LIMITS OF CONSTRUCTION AND AT LOCATIONS THAT INTERFACE WITH EXISTING OR PROPOSED STRUCTURES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT CONTRADICT THE ENGINEERS INTENT FOR DRAINAGE PATTERNS, MAXIMUM AND MINIMUM SLOPES, AND PROPOSED ELEVATIONS AS SHOWN ON THE PLAN. THE ENGINEER WILL NOT BE LIABLE FOR ANY COSTS ASSOCIATED WITH CHANGES TO THE DESIGN WITHOUT PROPER NOTIFICATION.
- MAXIMUM SLOPE IN ANY DIRECTION IN ADA STALLS IS 2.0%.
- ALL SIDEWALKS AND ADA ROUTES TO HAVE MAXIMUM CROSS-SLOPE OF 2.0% AND LONGITUDINAL SLOPE OF 4.8%.

ABBREVIATIONS:

GB = GRADE BREAK
ME = MATCH EXISTING
HP = HIGH POINT
LP = LOW POINT
TOR = TOP OF RAMP
BOR = BOTTOM OF RAMP

BASIS OF BEARINGS

THE BASIS OF BEARING IS CALCULATED
BEARING OF A LINE FROM THE NW COR. LOT 2
BLOCK 18 TO THE SW COR. LOT 4, BLOCK 13,
AS BEING S54°46'57"W WITH BOTH CORNERS
BEING FOUND MONUMENTS AS SHOWN.



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12855 Highway 24
Hartsel, CO 80449

Sheet Information

Sheet Title:
OVERALL UTILITY
PLAN

Sheet Number:

C500

DPA Project: 19716.00

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DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

EXISTING

LEGEND

PROPOSED

PROPERTY LINE

RIGHT-OF-WAY LINE

SECTION LINE

EASEMENT

RETAINING WALL

CURB & GUTTER

HANDICAP RAMPS

UTILITY CROSSING

STORM SEWER

STORM MANHOLE

ROOF DRAIN

STORM INLET

FLARED END SECTION

SANITARY SEWER

SANITARY MANHOLE

CLEAN OUT

WATER LINE

WATER VALVE

FIRE HYDRANT

WATER METER

IRRIGATION LINE

IRRIGATION CONTROL

OVERHEAD ELECTRIC

ELECTRIC LINE

LIGHT POLE

POWER POLE

ELECTRIC METER

TELEPHONE LINE

TELEPHONE PEDESTAL

CABLE TV

GAS LINE

SIGN

MONITOR WELL

DESCRIPTIONS

PROPOSED

PROPERTY LINE

RIGHT-OF-WAY LINE

SECTION LINE

EASEMENT

RETAINING WALL

CURB & GUTTER

HANDICAP RAMPS

UTILITY CROSSING

STORM SEWER

STORM MANHOLE

ROOF DRAIN

STORM INLET

FLARED END SECTION

SANITARY SEWER

SANITARY MANHOLE

CLEAN OUT

WATER LINE

WATER VALVE

FIRE HYDRANT

WATER METER

IRRIGATION LINE

IRRIGATION CONTROL

OVERHEAD ELECTRIC

ELECTRIC LINE

LIGHT POLE

POWER POLE

ELECTRIC METER

TELEPHONE LINE

TELEPHONE PEDESTAL

CABLE TV

GAS LINE

SIGN

MONITOR WELL

DESCRIPTIONS

DRIVE

DAYLIGHT PIPE AT HEADWALL
INV.=13.17

MIDLAND AVE.

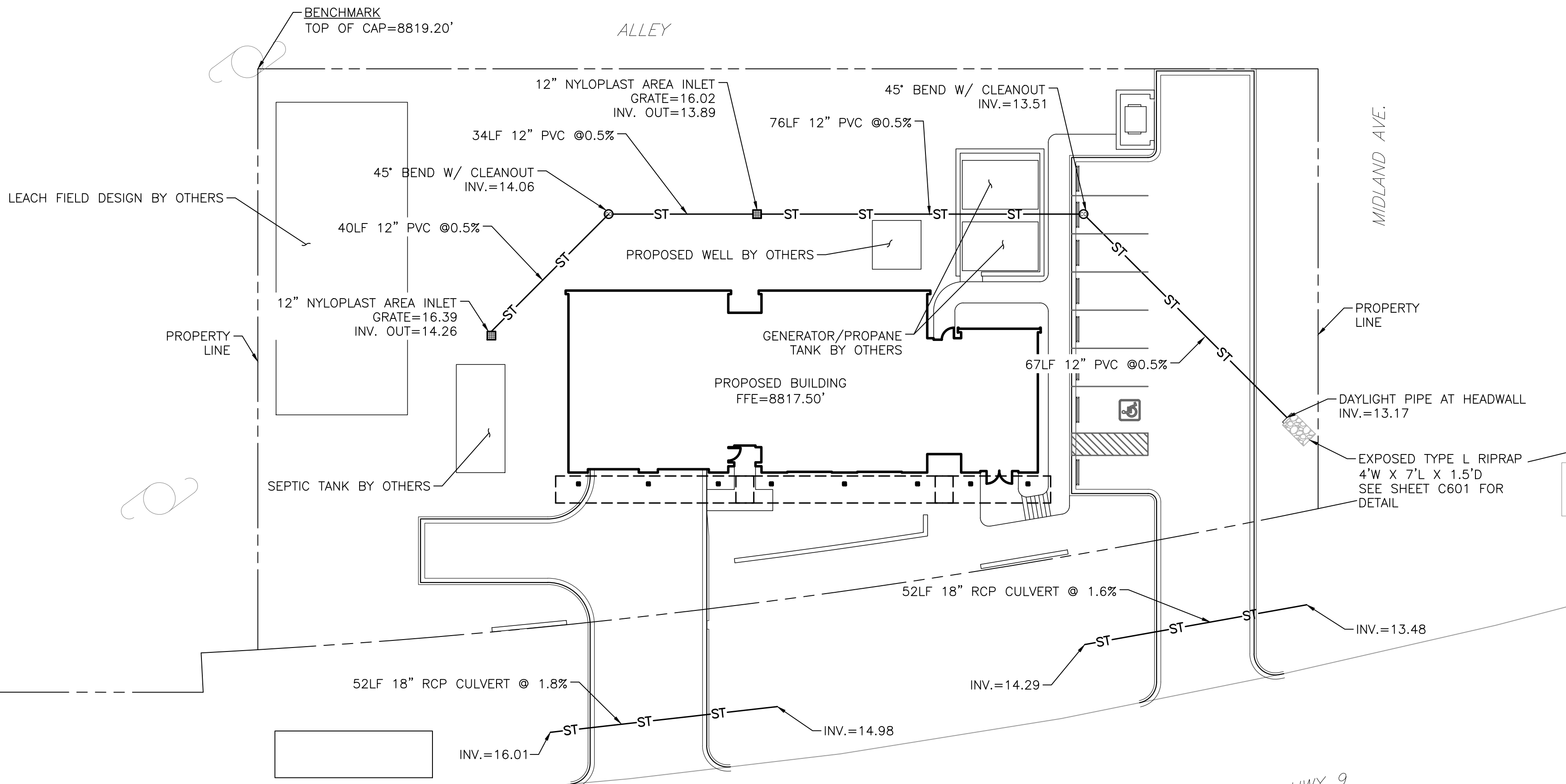
COLORADO STATE HWY 9
U.S HWY 24

BASIS OF BEARINGS

THE BASIS OF BEARING IS CALCULATED
BEARING OF A LINE FROM THE NW COR. LOT 2
BLOCK 18 TO THE SW COR. LOT 4, BLOCK 13,
AS BEING S54°46'57"W WITH BOTH CORNERS
BEING FOUND MONUMENTS AS SHOWN.

NOTES:

1. CONTRACTOR TO PROVIDE MINIMUM 18" CLEARANCE AT UTILITY CROSSINGS.
2. ALL PVC PIPE SHALL BE SDR 35 UNLESS OTHERWISE SPECIFIED.
3. SEE DESIGN INFORMATION BY OTHERS FOR SEPTIC TANK, LEACH FIELD, WELL, GENERATOR, AND PROPANE TANK.



BENCHMARK
TOP OF CAP=8819.20'

ALLEY

12" NYLOPLAST AREA INLET
GRATE=16.02
INV. OUT=13.89

45' BEND W/ CLEANOUT
INV.=13.51

34LF 12" PVC @0.5%

76LF 12" PVC @0.5%

45' BEND W/ CLEANOUT
INV.=14.06

40LF 12" PVC @0.5%

PROPERTY LINE

SEPTIC TANK BY OTHERS

GENERATOR/PROPANE
TANK BY OTHERS

PROPOSED BUILDING
FFE=8817.50'

67LF 12" PVC @0.5%

PROPERTY LINE

EXPOSED TYPE L RIPRAP
4'W X 7'L X 1.5'D
SEE SHEET C601 FOR
DETAIL

52LF 18" RCP CULVERT @ 1.6%

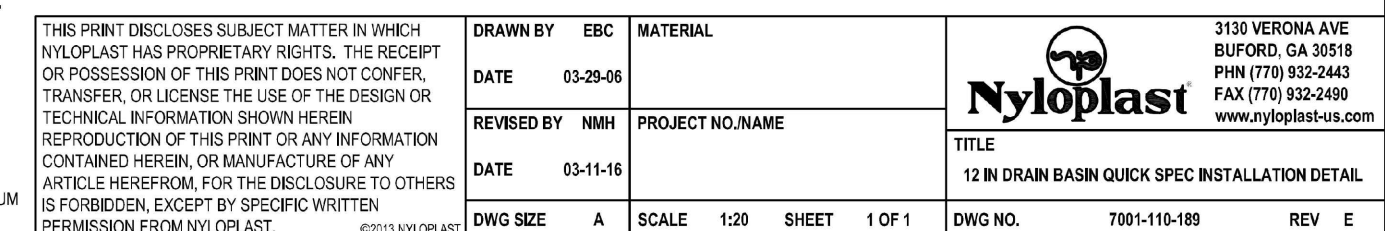
52LF 18" RCP CULVERT @ 1.8%

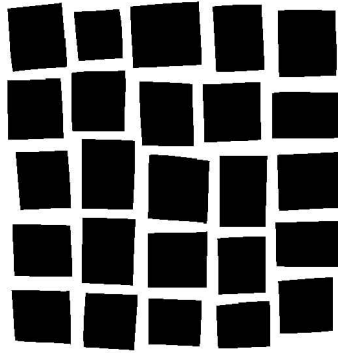
INV.=16.01

INV.=14.29

INV.=13.48

INV.=14.98





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1/30/2020 9:18:42 AM

Original Issuance Date

Revisions Date No.

Project Information

SPAD - Hartsel Station
12855 Highway 24
Hartsel, CO 80449

Sheet Information

Sheet Title:
DETAILS

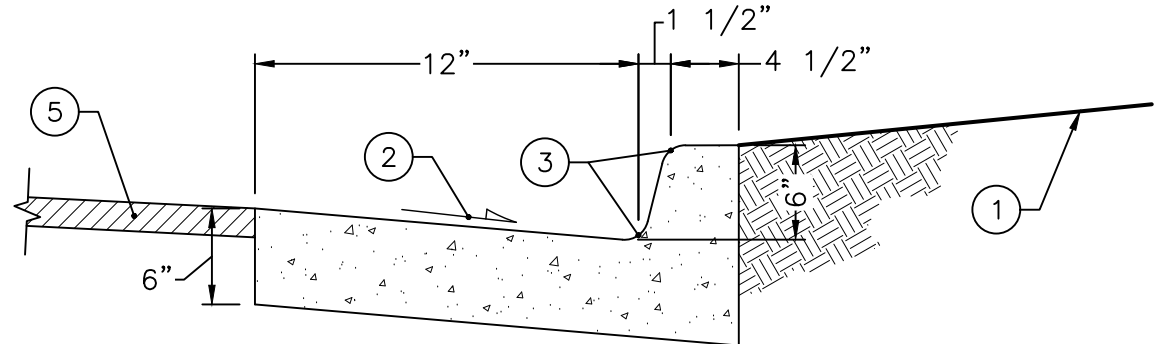
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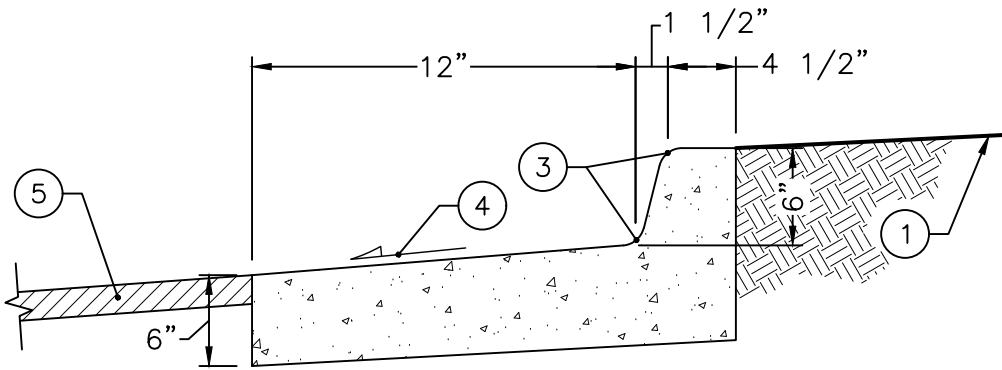
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NOTES:

1. BACKFILL, SEE DETAIL OF CUT/FILL SLOPE
2. SLOPE AT 1" PER FOOT
3. 1 1/2" RADIUS TYPICAL
4. SLOPE AT 1/2" PER FOOT.
5. PAVEMENT, SEE TYPICAL PAVEMENT SECTION

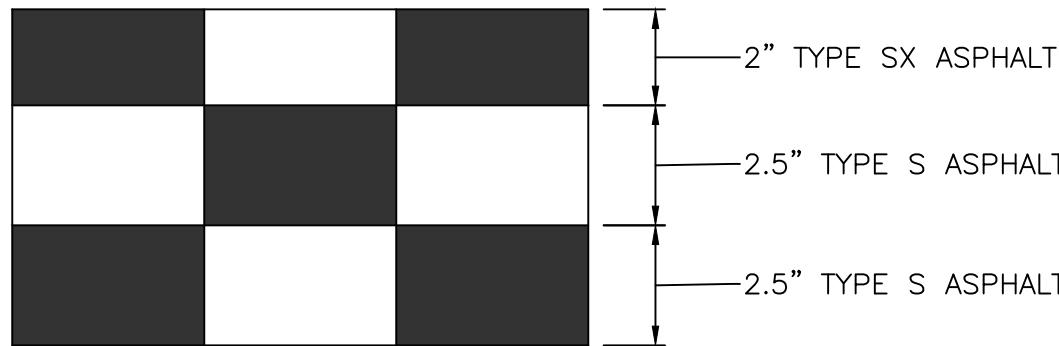


STANDARD SECTION



SPILL SECTION

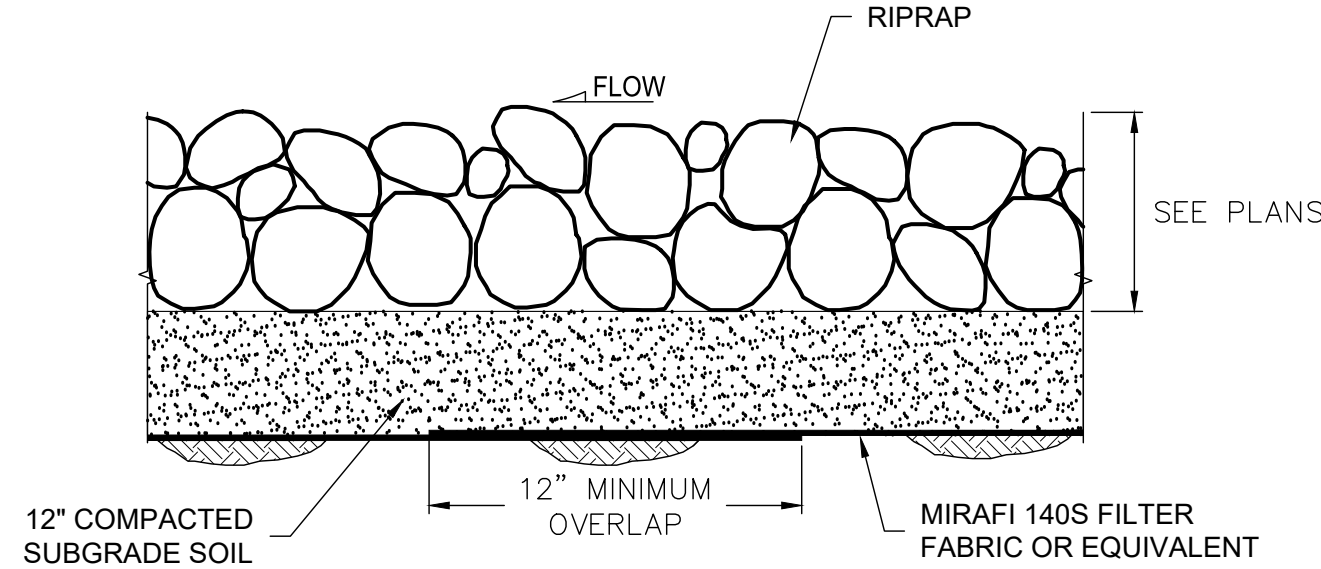
PRIVATE 6 INCH VERTICAL CURB AND GUTTER
NOT TO SCALE



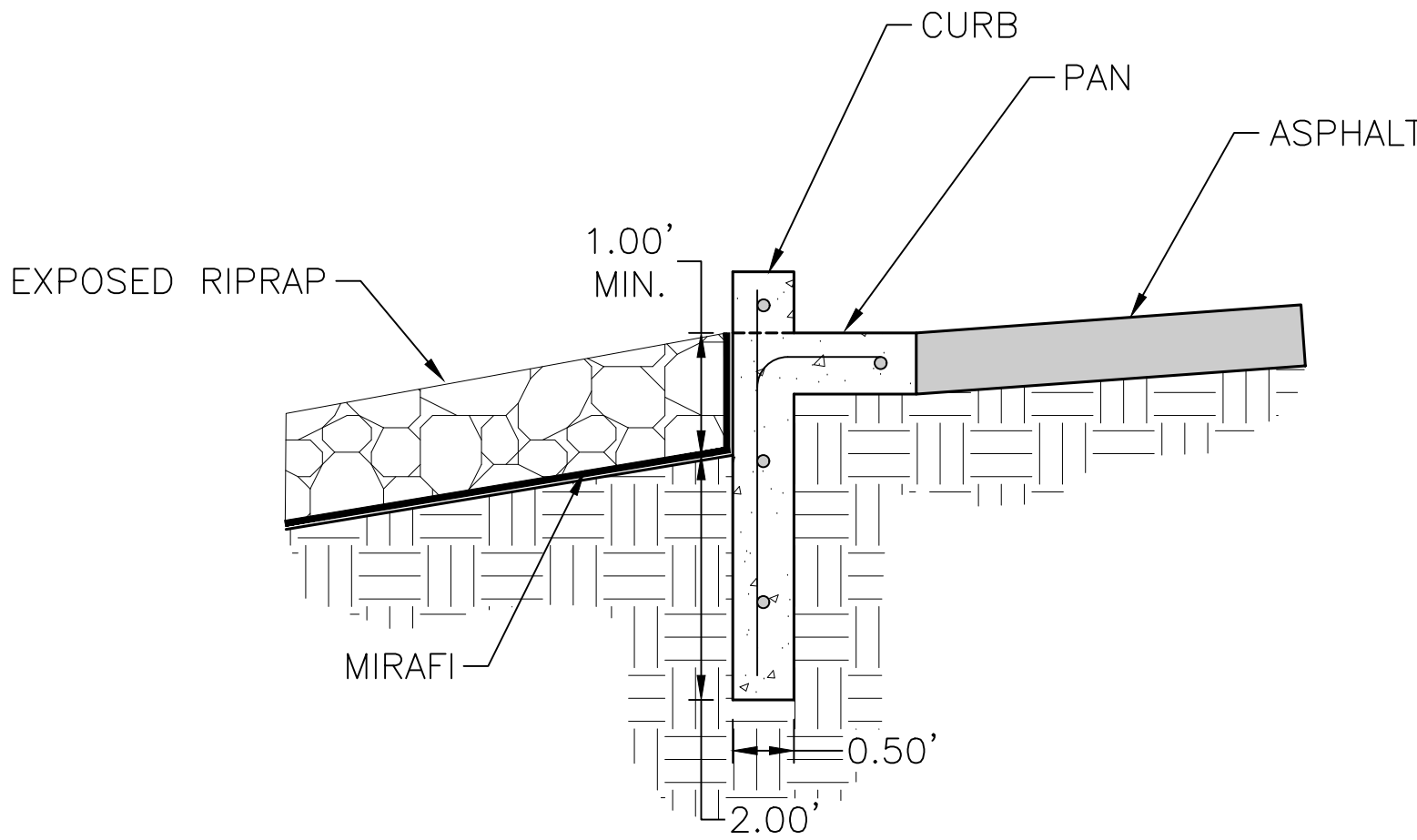
PRIVATE ASPHALT PAVEMENT SECTION
NOT TO SCALE

NOTES:

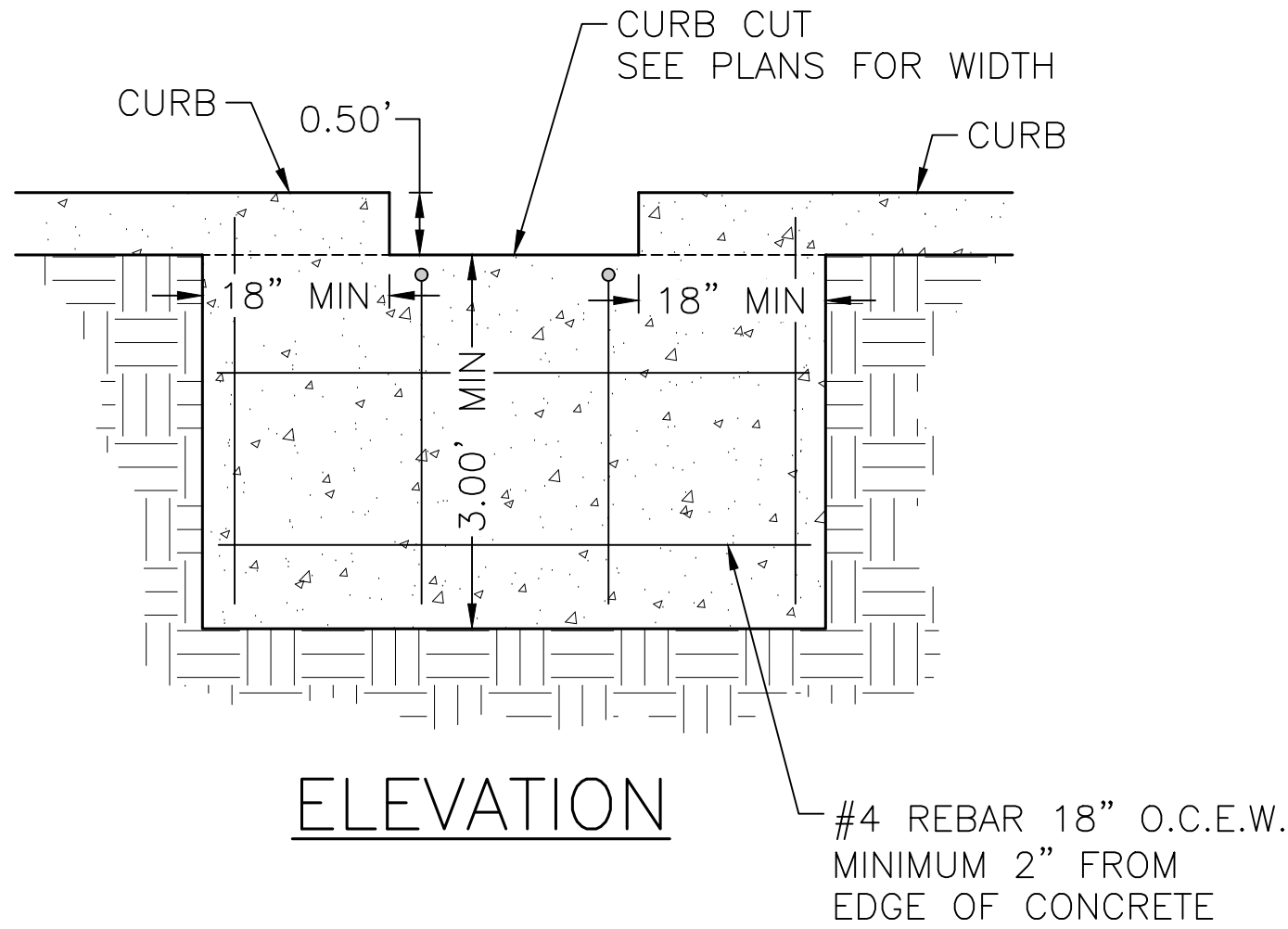
1. ALWAYS PLACE FILTER FABRIC STARTING DOWNSTREAM AND WORK UPSTREAM.
2. CONTRACTOR TO "OVER EXCAVATE" CHANNEL SO THAT THE TOP OF RIPRAP IS AT THE FINISHED GRADE OF THE CHANNEL.



RIPRAP PLACEMENT DETAIL
N.T.S.



SECTION



ELEVATION

NOTES:

1. POUR CUTOFF WALL MONOLITHIC WITH CURB AND GUTTER

POND CURB CUT
CUTOFF WALL
N.T.S.

PLANTING NOTES

1. THIS PLAN DESCRIBES THE LANDSCAPE PORTION OF THE PROJECT ONLY. SEE OTHER SHEETS FOR SITE IMPROVEMENT INFORMATION.
2. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK. THE CONTRACTOR SHALL CONTACT THE UTILITIES NOTIFICATION CENTER OF COLORADO (UNCC) AND ANY LOCAL UTILITIES NOT IN THE UNCC SYSTEM AT LEAST 48 HOURS BEFORE ANY EXCAVATION OR CONSTRUCTION TO REQUEST EXACT FIELD LOCATIONS OF ALL UTILITIES.
3. MINIMIZE DISTURBANCE OUTSIDE SCOPE OF WORK. ANY DAMAGE OUTSIDE SCOPE OF WORK INCURRED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR TO LIKE NEW CONDITION.
4. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL PLANTING PLANS. SHOULD DISCREPANCIES EXIST BETWEEN THE QUANTITIES OR S.F. AREAS PROVIDED IN THE LABEL AND THOSE DRAWN ON THE PLAN, THE PLAN SHALL GOVERN.
5. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, AND THE COLORADO NURSERY ACT, OR EQUIVALENT.
6. NO PLANT SHALL BE INSTALLED BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT, OR EQUAL.
7. ALL PLANTS SHALL HAVE THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING, UNLESS OTHERWISE SPECIFIED OR DETAILED.
8. ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL SHALL BE REMOVED COMPLETELY AT TIME OF PLANTING.
9. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN AT LEAST TWO VERTICAL LOCATIONS.
10. ALL TREES SHALL BE REVIEWED AND APPROVED AT NURSERIES BY THE PROJECT LANDSCAPE ARCHITECT. CONTRACTOR SHALL PROVIDE A MAXIMUM OF 2 NURSERIES WHERE A SELECTION OF PLANT MATERIAL IS AVAILABLE TO CHOOSE FROM. CONTRACTOR SHALL VISUALLY INSPECT AND TAG THE BEST SPECIMENS OF PLANT MATERIAL PRIOR TO LANDSCAPE ARCHITECT REVIEW AND APPROVAL.
11. THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES SHALL BE STAKED AND SHRUBS LOCATED, STILL IN CONTAINERS, PER PLAN LAYOUT FOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT. NOTIFY LANDSCAPE ARCHITECT ONE WEEK PRIOR TO DATE OF SITE VISIT.
12. CONTRACTOR SHALL HAVE EXISTING AND NEW UTILITY LOCATIONS MARKED, FOR REFERENCE, DURING APPROVAL OF FINAL TREE PLANTING LAYOUT.
13. DO NOT PLANT TREES WITHIN 10 FEET OF CENTERLINE OF UTILITIES OR WITHIN WATER EASEMENTS.
14. REFER TO THE DETAILS AND THE CONTRACT SPECIFICATIONS FOR REQUIRED PLANTING METHODS, SOIL PREPARATION, AND OTHER INFORMATION REGARDING PLANTING.
15. ALL PLANTS AND STAKES SHALL BE SET PLUMB, WITH THE GREEN SIDE UP, UNLESS OTHERWISE SPECIFIED.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING NECESSARY FOR INITIAL ESTABLISHMENT OF LANDSCAPE. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR MORE OFTEN, IF NECESSARY, DURING THE FIRST GROWING SEASON. CONTRACTOR SHALL ALSO BE REQUIRED TO MAINTAIN LANDSCAPE THROUGH SUBSTANTIAL COMPLETION AND FOR 1 YEAR AFTER SUBSTANTIAL COMPLETION. MAINTENANCE SHALL INCLUDE (BUT IS NOT LIMITED TO) WATERING, MOWING, PRUNING, AND WEEDING.
17. THE LANDSCAPE CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR SEASONAL REQUIREMENTS AND OTHER RESTRICTIONS RELATED TO THE TIME OF PLANTING.
18. PLANT MATERIAL SHALL NOT BE PRUNED UNLESS OTHERWISE INDICATED IN PLANTING SCHEDULE.
19. ALL PLANTING AREAS TO BE COVERED 4" DEEP WITH A MIXTURE OF 1" SCREENED DECORATIVE LANDSCAPE ROCK IN SANTA FE GOLD OR 1 3/4" SCREENED DECORATIVE LANDSCAPE ROCK IN BURGUNDY LAVA, PLACE OVER WEED CONTROL FABRIC, UNLESS OTHERWISE NOTED.
20. AREAS TO RECEIVE LANDSCAPE SHALL BE TILLED TO A DEPTH OF 12-INCHES. THEN APPLY SPECIFIED SOIL AMENDMENT OVER SURFACE AT A RATE OF FOUR CUBIC YARDS PER THOUSAND SQUARE FEET. TILL AREAS AGAIN TO A MINIMUM DEPTH OF 8-INCHES.
21. FINISH GRADES IN PLANTING AREAS SHALL BE SET TO INCLUDE THE APPLICATION OF TOPSOIL IN MEETING SPOT ELEVATIONS ON CONTOURS SHOWN ON PLANS. SLOPES SHALL BE SMOOTH AND WORKED. SOIL SHALL NOT BE LEFT IN CLUMP FORM. HOLD FINISHED GRADE OF MULCH A MINIMUM OF 4" BELOW EDGE OF WALK, EDGING, OR CURB.
22. PROVIDE AT LEAST (2) 4" DIAMETER SCHEDULE 40 PVC SLEEVES UNDER ALL WALKS AND DRIVES FOR IRRIGATION PIPING AND WIRING, PRIOR TO INSTALLATION OF WALKS AND DRIVES. SITE CONTRACTOR SHALL COORDINATE INSTALLATION OF SLEEVES WITH LANDSCAPE CONTRACTOR. REFER TO APPROVED IRRIGATION PLANS FOR LOCATIONS WHERE SLEEVES ARE REQUIRED.
23. STEEL EDGER WITH A ROLLED TOP SHALL SEPARATE ALL SODDED AREAS, BED AREAS, MINERAL MULCH AREAS, NATIVE SEED AREAS, AND AREAS OF POLYMER BOUND AGGREGATE SURFACES.
24. ANY PLANT SPECIES SUBSTITUTIONS MUST BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT AND THE JURISDICTION HAVING AUTHORITY PRIOR TO INSTALLATION.
25. TRANSPLANTED TREES SHALL HAVE THE SAME ASPECT IN FINAL LOCATION (I.E. EXISTING NORTH ASPECT SHALL FACE NORTH IN FINAL LOCATION).

LAYOUT AND MATERIAL NOTES

1. THE SURVEY FOR THIS WORK HAS BEEN PROVIDED BY THE OWNER FOR USE IN THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THIS SURVEY.
2. THE LANDSCAPE DRAWING SERIES (L-SHEETS) SHALL BE USED IN CONJUNCTION WITH THE CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS TO PROVIDE COMPLETE INFORMATION REGARDING SITEWORK.
3. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING SITE CONDITIONS PRIOR TO COMMENCING ANY WORK. INSPECT EXISTING SITE CONDITIONS AFFECTING WORK FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. PRIOR TO COMMENCING LANDSCAPE WORK ADVISE THE PROJECT LANDSCAPE ARCHITECT OF ANY INCONSISTENCIES WITH SAID CONDITIONS FOR RESOLUTION.
4. COORDINATE LANDSCAPE WORK WITH OTHER CONSTRUCTION TO ENSURE PROPER SEQUENCING OF WORK, TO MINIMIZE CONFLICTS, AND TO PROTECT IN-PLACE WORK FROM DAMAGE.
5. MINIMIZE DISTURBANCE OUTSIDE APPROXIMATE LIMITS OF WORK. DAMAGED WORK SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR, TO A LIKE NEW CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
7. THE CONTRACTOR MUST COORDINATE UTILITY CAPPING OR ABANDONMENT WITH THE UTILITY COMPANY AND OWNER.
8. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE EROSION CONTROL STANDARDS.
9. EXISTING AND NEW UTILITIES SHOWN FOR REFERENCE ONLY. REFER TO CIVIL FOR UTILITY PLANS.
10. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING IRRIGATION WATER SOURCE, ZONES, CONTROLS, COVERAGE, ETC. TO ENSURE THAT CONSTRUCTION DOES NOT IMPACT IRRIGATED LANDSCAPE AREAS THAT ARE TO REMAIN. ALL IRRIGATION AND LANDSCAPE DISTURBED BY THE WORK OF THIS PROJECT ARE TO BE RESTORED TO A LIKE NEW CONDITION ACCEPTABLE TO THE OWNER AND ARCHITECT.
11. EXCAVATION AND OTHER GROUND DISTURBANCE IS NOT ALLOWED WITHIN THE DRIP-LINE OF TREES TO REMAIN UNLESS SPECIFICALLY NOTED. CONTRACTOR SHALL PROTECT TREES TO REMAIN WITH FENCE.
12. ANY MISCELLANEOUS ITEMS OR MATERIALS NOT SPECIFICALLY NOTED, BUT REQUIRED FOR THE PROPER EXECUTION, INSTALLATION, OR PERFORMANCE OF THE WORK, SHALL BE PROVIDED BY THE CONTRACTOR.
13. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED EACH DAY AND THE SITE SHALL BE MAINTAINED IN A NEAT, CLEAN CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR ALL PHASES OF SECURING, HANDLING, TRANSPORTATION, AND DISPOSAL OF DEBRIS.
14. CONTRACTOR SHALL PROVIDE PROTECTION FOR NEWLY INSTALLED WORK AND FINISHES.
15. THE LIMITS OF WORK DESCRIBED IN THE DRAWINGS ARE APPROXIMATE. WORK REQUIRED OUTSIDE THESE LIMITS WHICH IS NEEDED TO MEET THE INTENT OF THE DRAWING IS THE RESPONSIBILITY OF THE CONTRACTOR.
16. SEALED EXPANSION JOINTS SHALL BE INSTALLED WHERE NEW CONCRETE PAVING MEETS EXISTING PAVING, BUILDING WALL, SITE WALLS, COLORED CONCRETE, AND WHERE NOTED ON PLAN.
17. ALL CONNECTIONS TO EXISTING WORK SHALL BE SMOOTH AND CONTINUOUS, AND MAINTAIN POSITIVE DRAINAGE, RE: CIVIL.
18. DIMENSIONS ARE FROM BACK OF CURB (BOC) UNLESS OTHERWISE NOTED.
19. ALL CONTROL JOINTS ARE TO BE SAW CUT.
20. SCORE JOINTS IN SIDEWALKS SHALL BE LOCATED AT CRITICAL POINTS AND SPACED EVENLY BETWEEN THOSE CRITICAL POINTS AS SHOWN ON THE PLAN.
21. ALL RAMPS SHALL BE STIFF BROOM FINISHED PERPENDICULAR TO PEDESTRIAN FLOW.
22. 1:12 MAXIMUM SLOPE ON ALL HANDICAP RAMPS.
23. ALL CONCRETE IS STANDARD GRAY WITH A MEDIUM BROOM FINISH, UNLESS OTHERWISE NOTED.
24. POINTS OF TANGENCY FOR ALL RADII TO BE SMOOTH AND CONTINUOUS, FIELD ADJUST IF NECESSARY.
25. REFER TO CIVIL AND GEOTECHNICAL REPORT FOR ASPHALT AND CONCRETE PAVING THICKNESS.
26. ALL SIDEWALK RADII ARE 5.00' UNLESS OTHERWISE NOTED ON THE PLAN.
27. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SPECIFICATIONS AND DETAILS. HORIZONTAL CONTROL FOR EACH FIXTURE IS LOCATED ON L-SHEETS. REFER TO CIVIL DRAWINGS FOR VERTICAL CONTROL OF EACH FIXTURE
28. ALL SITE FURNISHINGS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR PER THE DRAWINGS AND SPECIFICATIONS.

STANDARD ABBREVIATIONS

| KEY NAME | | COMMENTS |
|---|--|--|
| NOTE: FOR ADDITIONAL ABBREVIATIONS; REFER TO SPECIFICATION 01 4200 FOR COMPLETE INDUSTRY STANDARD ABBREVIATION LIST | | |
| A | | |
| ADD | | ADDENDUM |
| ALT | | ALTERNATE |
| APPROX | | APPROXIMATE(LY) |
| ARCH | | ARCHITECT or ARCHITECTURAL |
| ASI | | ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS |
| B | | |
| BLDG | | BUILDING |
| C | | |
| CD | | CONSTRUCTION DOCUMENTS or CONTRACT DOCUMENTS |
| CJ | | CONSTRUCTION JOINT or CONTROL JOINT |
| CLR | | CLEAR |
| CMU | | CONCRETE MASONRY UNIT |
| D | | |
| DEMO | | DEMOLISH or DEMOLITION |
| DIA | | DIAMETER |
| DIM | | DIMENSION or DIMENSIONAL |
| E | | |
| EA | | EACH |
| EJ | | EXPANSION JOINT |
| EL | | ELEVATION |
| ELEC | | ELECTRIC(AL) |
| EOC | | EDGE OF CONCRETE |
| EQ | | EQUAL |
| F | | |
| FDC | | FIRE DEPARTMENT CONNECTION |
| FFE | | FINISH FLOOR ELEVATION |
| G | | |
| GA | | GAUGE |
| GALV | | GALVANIZED |
| H | | |
| HB | | HOSE BIBB |
| HORIZ | | HORIZONTAL |
| HT | | HEIGHT |
| I | | |
| IBC | | INTERNATIONAL BUILDING CODE |
| J | | |
| JT | | JOINT |
| L | | |
| LOW | | APPROXIMATE LIMITS OF WORK |
| M | | |
| MAX | | MAXIMUM |
| MECH | | MECHANICAL |
| MEP | | MECHANICAL, ELECTRICAL and PLUMBING |
| MIN | | MINIMUM |
| MISC | | MISCELLANEOUS |
| N | | |
| NA | | NOT APPLICABLE |
| NIC | | NOT IN CONTRACT |
| NTS | | NOT TO SCALE |
| O | | |
| O.C. | | ON-CENTER |
| P | | |
| PL | | PROPERTY LINE |
| POB | | POINT OF BEGINNING |
| POC | | POINT OF CURVATURE |
| PSF | | POUNDS PER SQUARE FOOT |
| PSI | | POUNDS PER SQUARE INCH |
| PT | | POST-TENSIONED SLAB |
| Q | | |
| QTY | | QUANTITY |
| R | | |
| R | | RADIUS |
| RD | | ROOF DRAIN |
| RE | | REFER TO or REFERENCE |
| REV | | REVISE, REVISED or REVISION |
| ROW | | RIGHT-OF-WAY |
| S | | |
| SAN | | SANITARY |
| SF | | SQUARE FOOT (FEET) |
| SHT | | SHEET |
| SIM | | SIMILAR |
| SPEC | | SPECIFICATION(S) |
| SQ | | SQUARE |
| T | | |
| TOC | | TOP BACK OF CURB |
| TOW | | TOP OF WALL |
| TYP | | TYPICAL |

LANDSCAPE SYMBOLS LEGEND

SECTION REFERENCE

EXTERIOR ELEVATION REFERENCE

DETAIL CALLOUT

DIMENSION LINE

CENTERLINE

NOTE AND LEADER

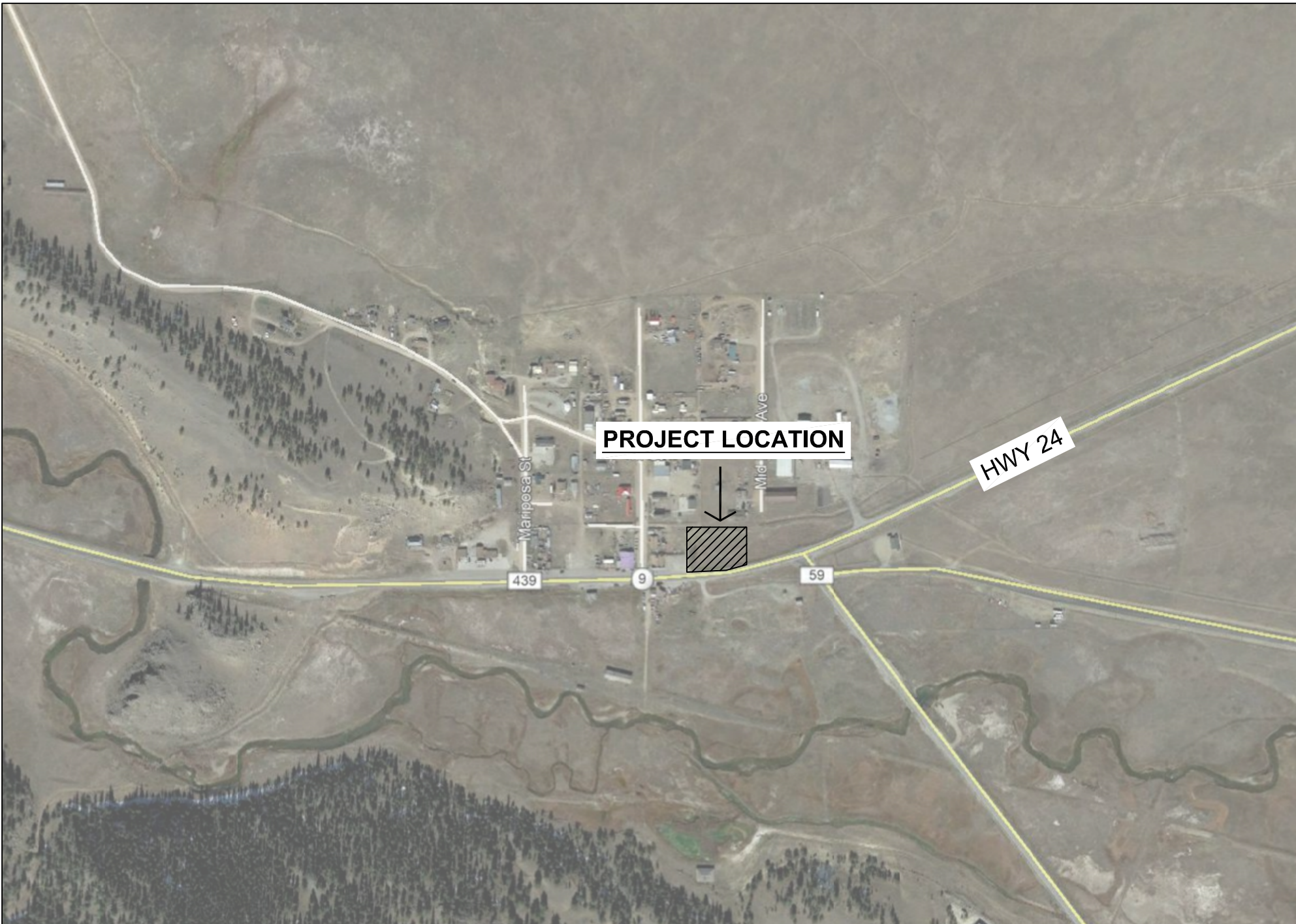
REVISION CLOUD AND TAG

NORTH ARROW

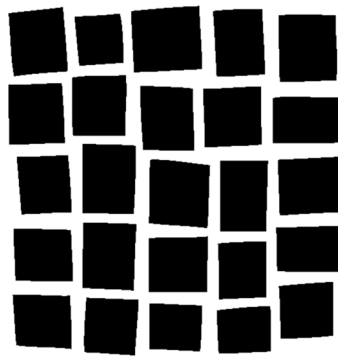
GRAPHIC SCALE

DETAIL NUMBERING BATTLESHIP GRID ORDER

HATCHED DETAIL LOCATION WOULD BE NUMBERED "A2" ON THE DETAIL SHEET



VICINITY MAP
Not To Scale



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DESIGN 04/17/2020
DEVELOPMENT

Revisions Date No.

Project Information

SPAD - Hartsel Station

12855 Highway 24
Hartsel, CO 80449

Sheet Information

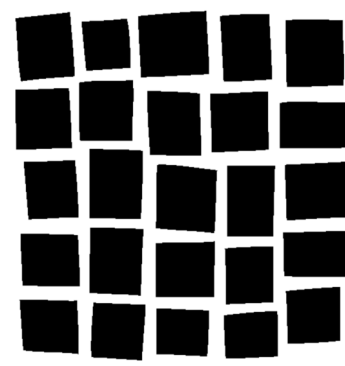
Sheet Title:
SYMBOLS AND
ABBREVIATIONS

Sheet Number:

L-000

DPA Project: 19716.00

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Sheet Information

Sheet Title:
SITE MATERIALS
AND LAYOUT
PLAN

Sheet Number:

L-100

DPA Project: 19716.00

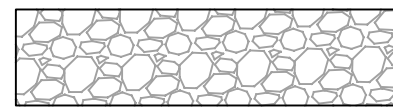
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SITE MATERIALS AND LAYOUT PLAN

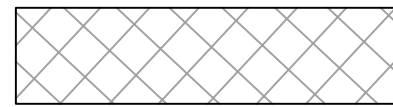
SCALE: 1" = 10' - 0"

LEGEND

- PROPERTY LINE
- SETBACK LINE
- BUILDING CANOPY OVERHANG
- STEEL EDGER
- STANDARD GRAY CONCRETE
- NATIVE SEED MIX, TYP.



INORGANIC MULCH TYPE 1 - BASIS OF DESIGN
PIONEER SAND AND GRAVEL - DECORATIVE
LANDSCAPE ROCK - COLOR: SANTA FE GOLD -
SIZE 1" SCREENED



INORGANIC MULCH TYPE 2 - BASIS OF DESIGN
PIONEER SAND AND GRAVEL - DECORATIVE
LANDSCAPE ROCK - COLOR: BURGUNDY LAVA
ROCK - SIZE 1½" SCREENED



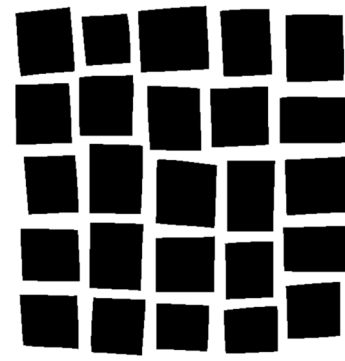
BBQ GRILL, TYP.

0' 5' 10' 20'



NORTH

COLORADO STATE HIGHWAY 9
U.S HIGHWAY 24



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Hartsel, CO 80449

Sheet Information

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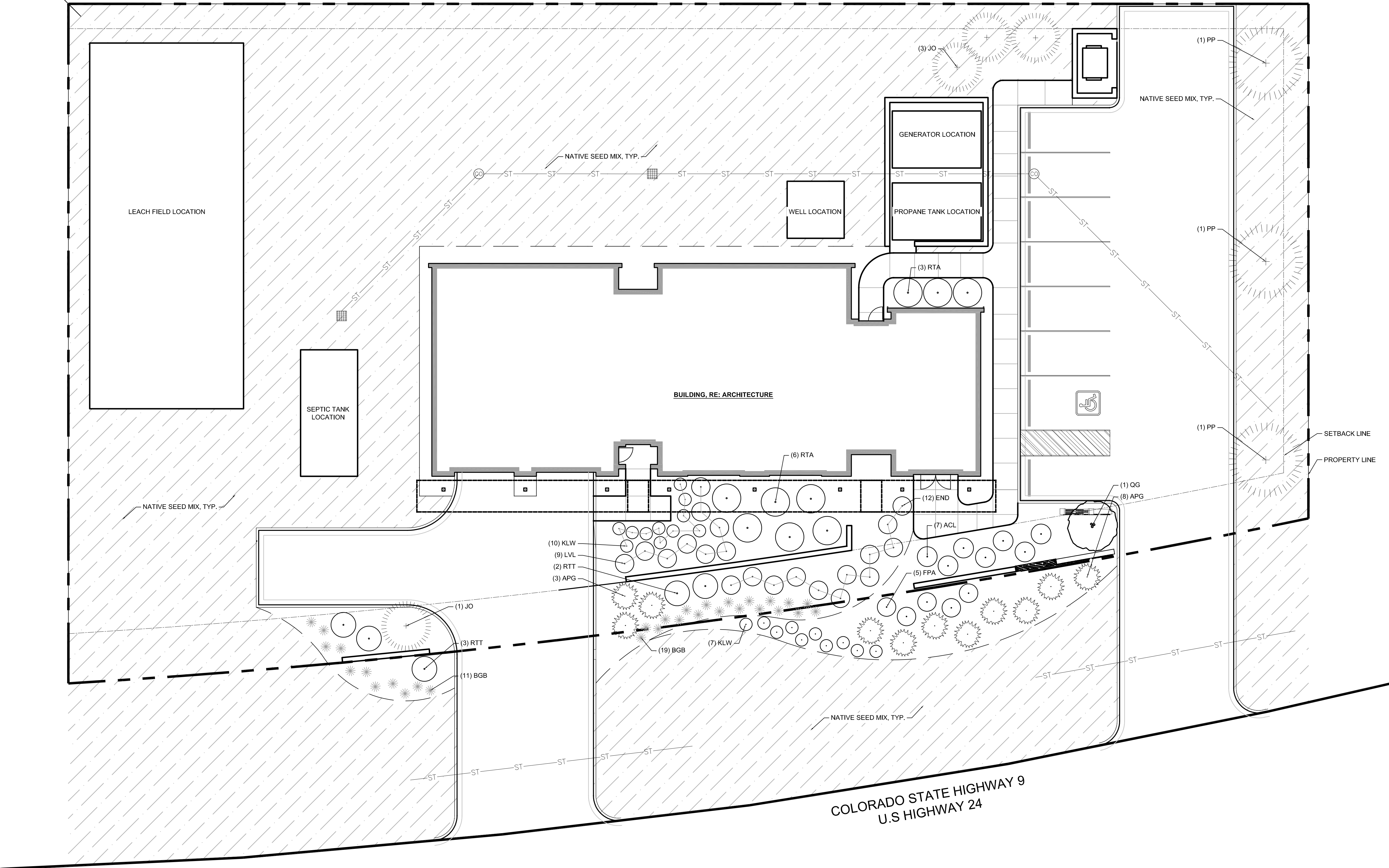
LANDSCAPE PLAN

Sheet Number:

L-150

DPA Project: 19716.00

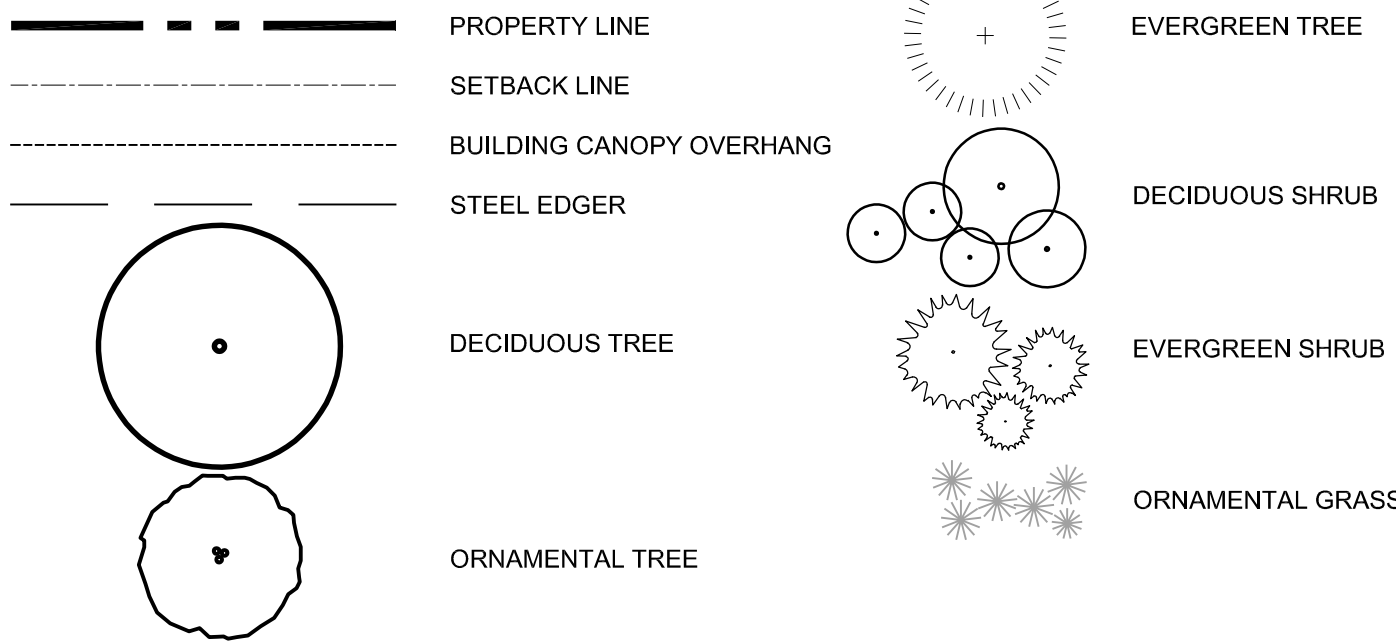
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LANDSCAPE PLAN

SCALE: 1" = 10' - 0"

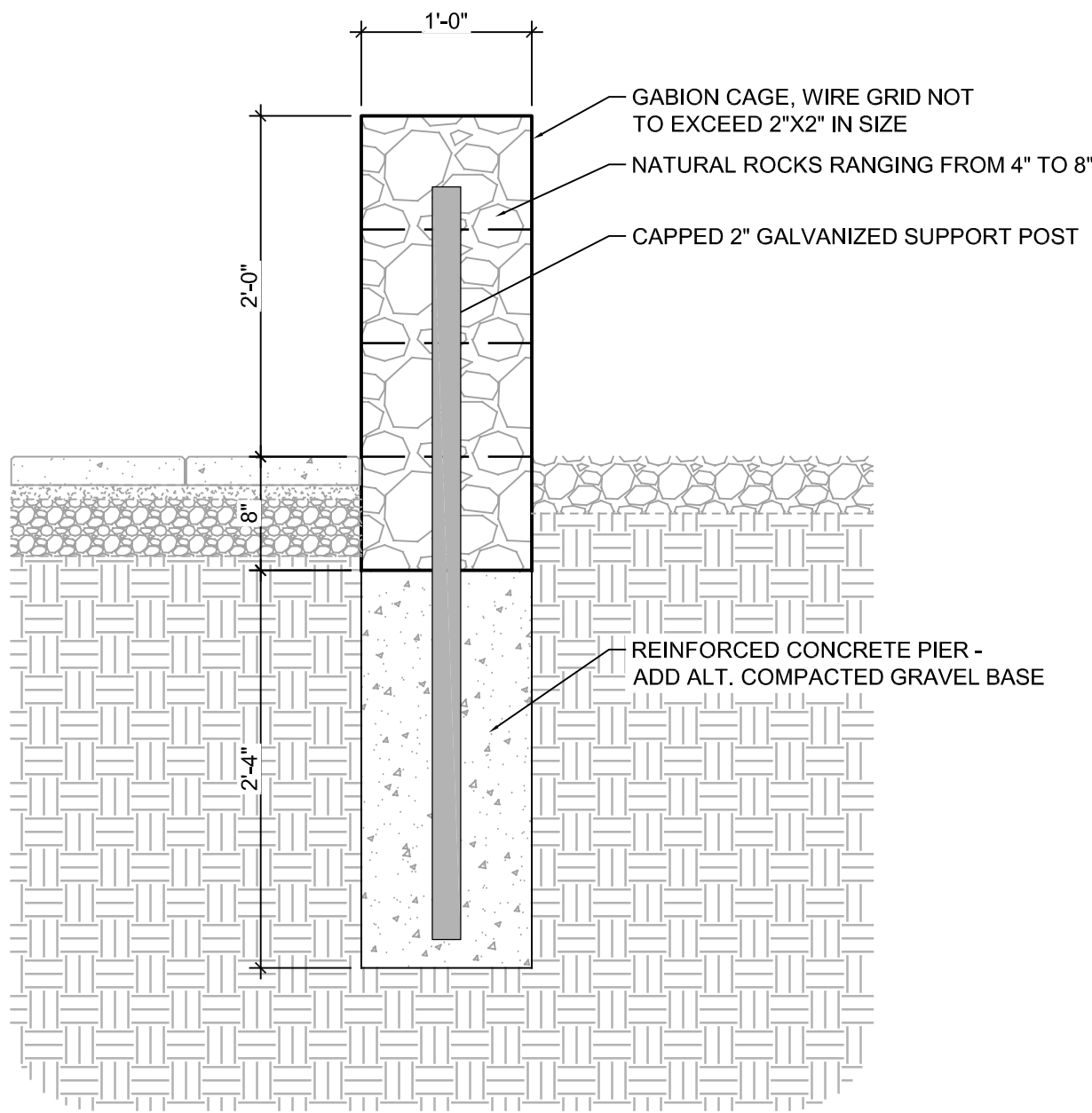
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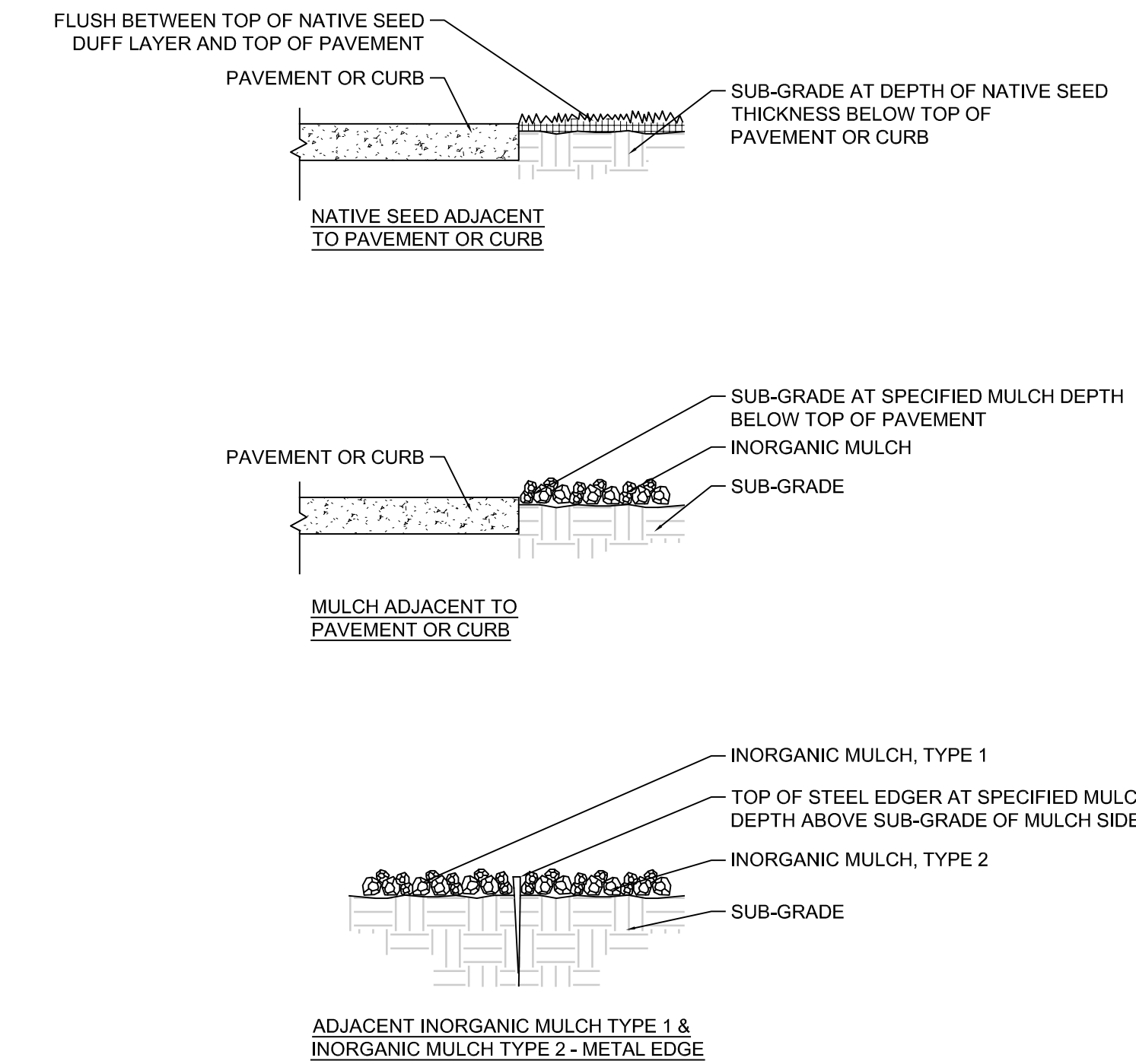
PLANT SCHEDULE

| SYM. | SCIENTIFIC / COMMON NAME | WATER USAGE | SIZE | NOTES |
|-----------------|--|-------------|--------|------------|
| ORNAMENTAL TREE | | | | |
| QG | Quercus gambelii / Gambel Oak | VERY LOW | #5 | MULTI-STEM |
| EVERGREEN TREE | | | | |
| PP | Pinus edulis / Pinyon Pine | VERY LOW | 6' MIN | |
| JO | Juniperus monosperma / One Seed Juniper | VERY LOW | #5 | |
| DECIDUOUS SHRUB | | | | |
| ACL | Amorpha canescens / Leadplant | VERY LOW | #5 | |
| END | Ericameria nauseosa var. nauseosa / Dwarf Blue Rabbitbrush | VERY LOW | #5 | |
| FPA | Fallugia paradoxa / Apache Plume | VERY LOW | #5 | |
| KLW | Krascheninnikovia lanata / Winterfat | VERY LOW | #5 | |

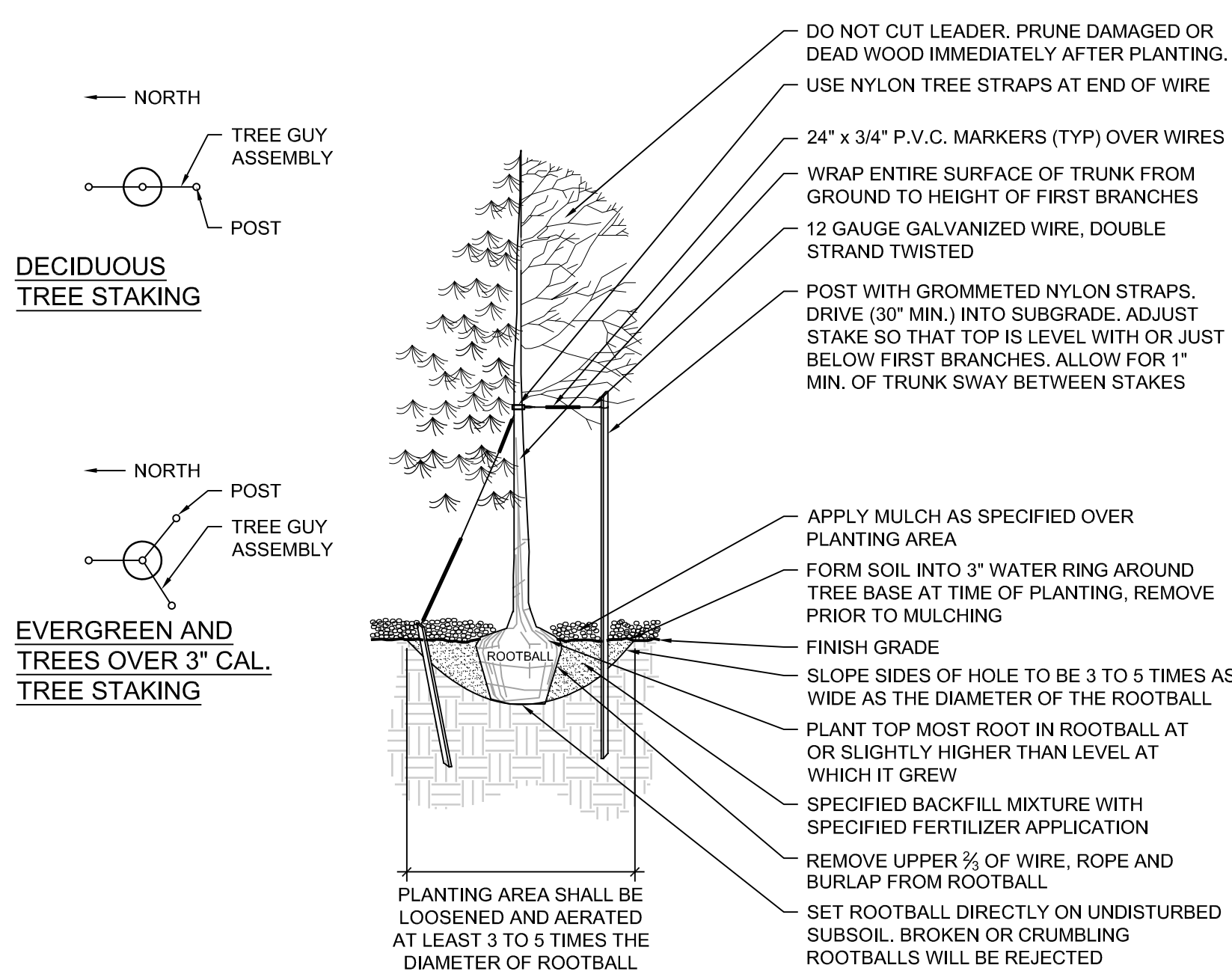
| | | | | |
|------------------|---|----------|----|--|
| DECIDUOUS SHRUB | | | | |
| LVL | Ligustrum vulgare 'Lodense' / Lodense Privet | LOW | #5 | |
| RTA | Rhus trilobata 'Autumn Amber' / Autumn Amber Sumac | VERY LOW | #5 | |
| RTT | Rhus trilobata / Three Leaf Sumac | VERY LOW | #5 | |
| EVERGREEN SHRUB | | | | |
| APG | Arctostaphylos patula / Greenleaf Manzanita | VERY LOW | #5 | |
| JCC | Juniperus communis / Common Juniper | LOW | #5 | |
| ORNAMENTAL GRASS | | | | |
| BGB | Bouteloua gracilis 'Blonde Ambition' / Blonde Ambition Gramma Grass | VERY LOW | #1 | |



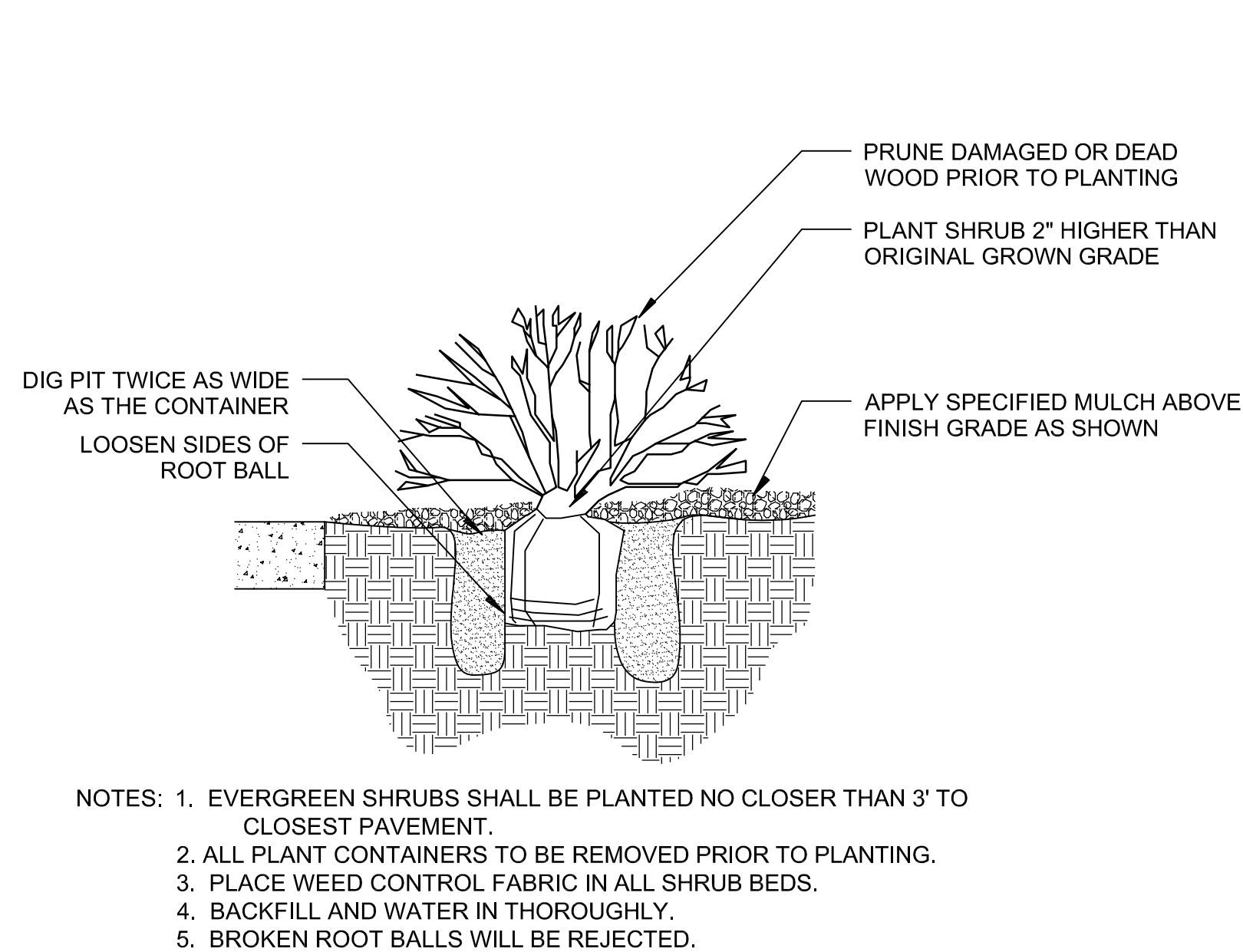
B1 GABION WALL, TYP.



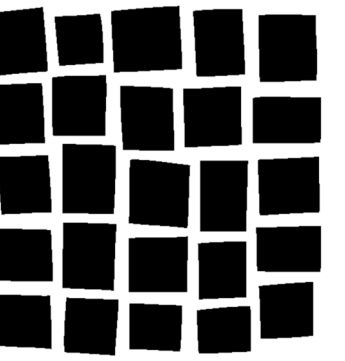
A1 EDGE CONDITIONS



A2 TREE PLANTING



A4 SHRUB PLANTING



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| SIGN /VELOPMENT | 04/17/202 | |
| Revisions | Date | No. |

Project Information

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Hartsel, CO 80449

Sheet Information

Sheet Title:

SITE DETAILS

Sheet Number:

L-500

DPA Project: 19716.00

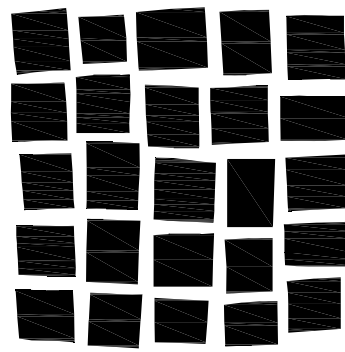
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| Issuance | Date |
|-------------|------------|
| DESIGN | 04/17/2020 |
| DEVELOPMENT | |

| Revisions | Date | No. |
|-----------|------|-----|
|-----------|------|-----|

Project Information

SPAD - Hartsel Station
12855 Highway 24 Hartsel, CO 80449

Sheet Information

Sheet Title:
GENERAL NOTES,
LEGEND, ABBREIATONS,
AND SHEET LIST
Sheet Number:

S-000

DPA Project: 19716.00

| SHEET NUMBER | SHEET NAME | CURRENT DATE | DESIGN DEVELOPMENT 04/17/2020 | | | |
|--------------|--|--------------|-------------------------------|--|--|--|
| S-000 | General Notes, Abbreviations, Sheet List, and Legend | 04-17-2020 | X | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| S-030 | Concrete Schedules and Typical Details | 04-17-2020 | X | | | |
| S-060 | Wood Schedules and Typical Details | 04-17-2020 | X | | | |
| | | | | | | |
| S-100 | Foundation Plan | 04-17-2020 | X | | | |
| S-110 | Mezzanine and Low Roof Framing Plan | 04-17-2020 | X | | | |
| S-120 | High Roof Framing Plan | 04-17-2020 | X | | | |
| | | | | | | |
| S-400 | Foundation Details | 04-17-2020 | X | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

1
STRUCTURAL DRAWING LIST

SCALE : NTS 1935DWGLIST

DISCLAIMER
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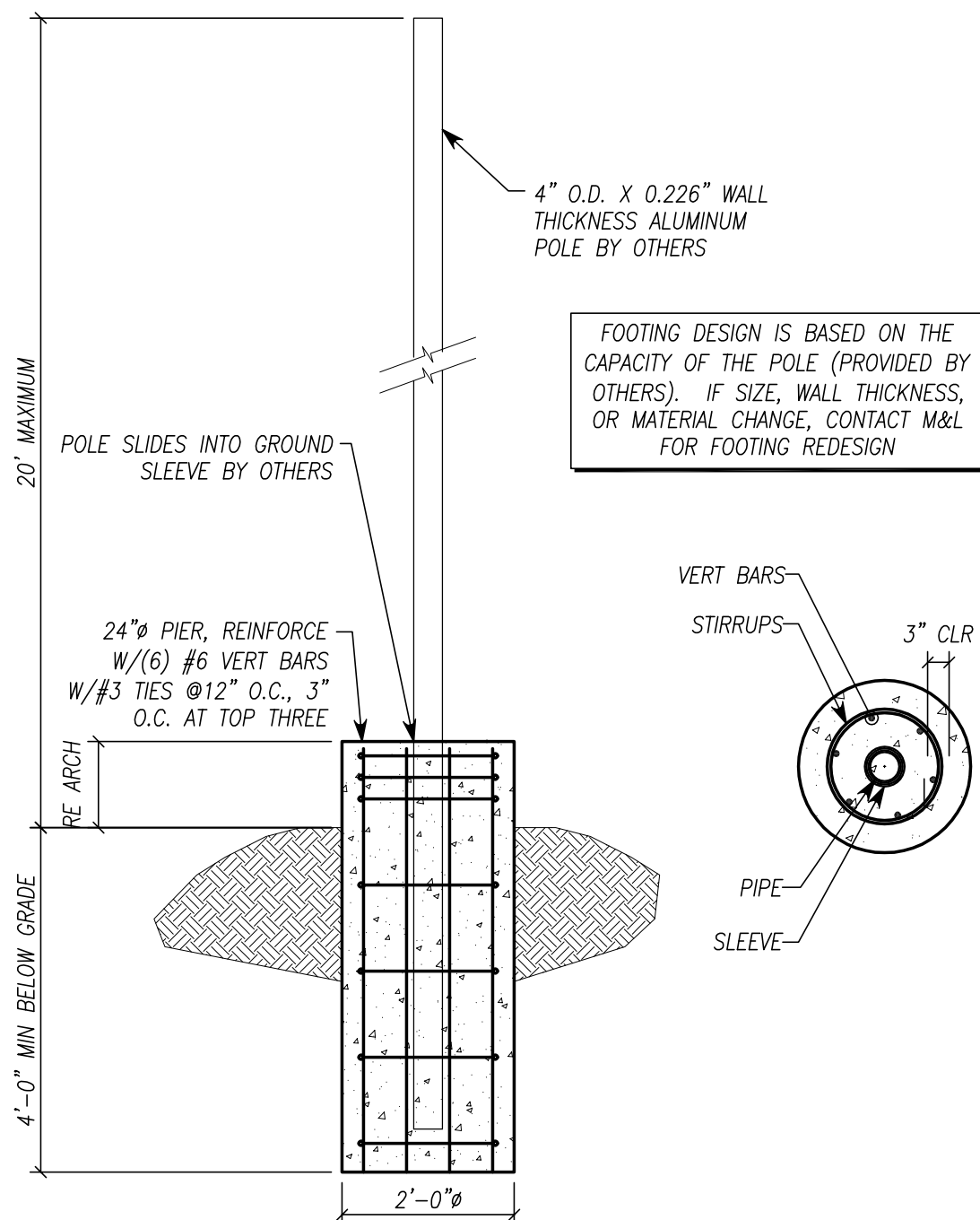
THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS ON THE PROJECT TO CLEARLY DEFINE ALL OF THE REQUIREMENTS OF CONSTRUCTION. WHERE CONFLICTS OCCUR, CONTACT THE ARCHITECT FOR CLARIFICATION.

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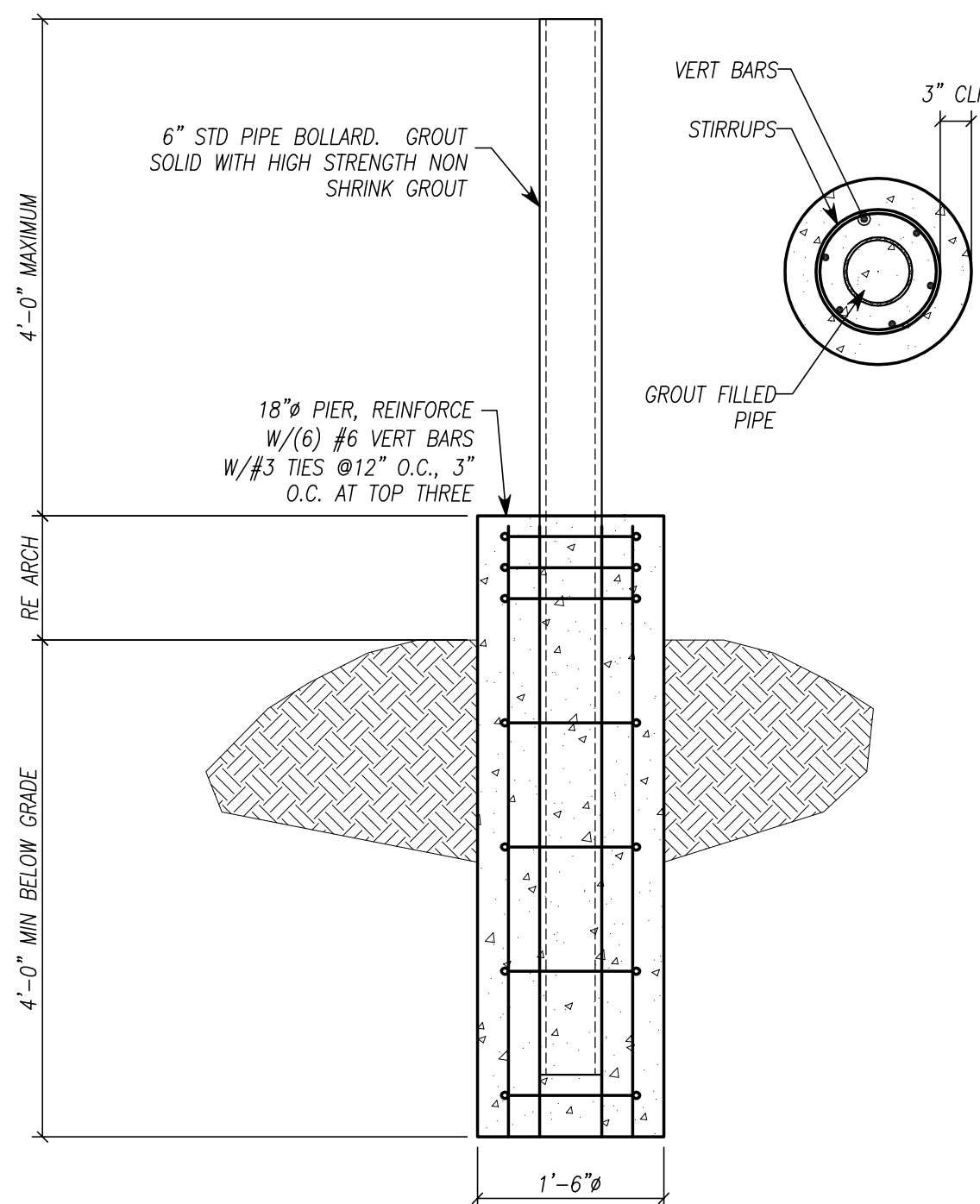
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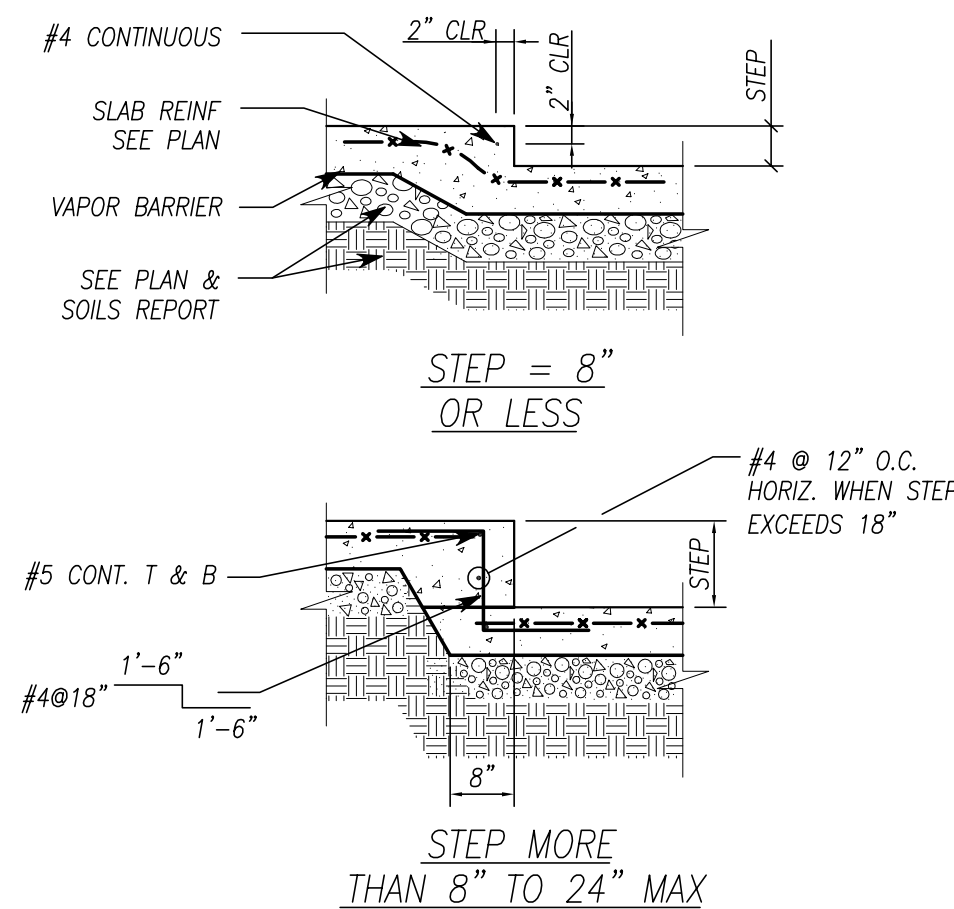
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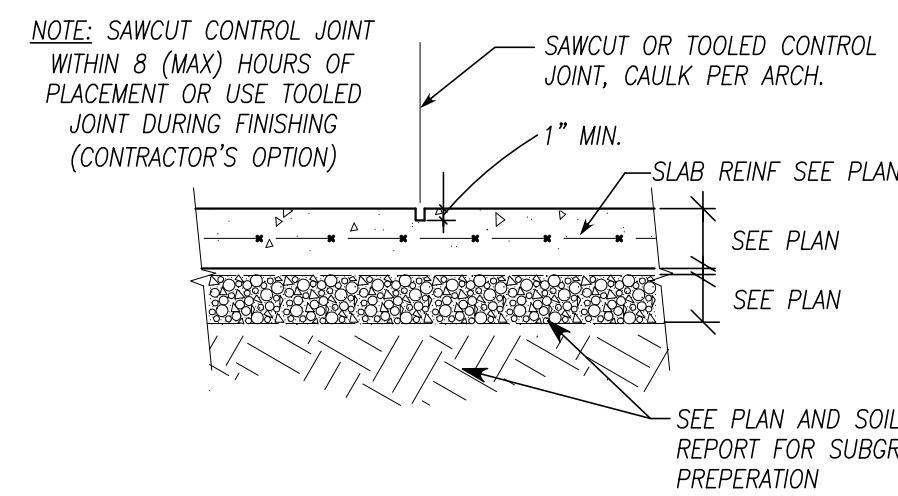
10 TYP LIGHT POLE BASE
SCALE : 1/2" = 1'-0"



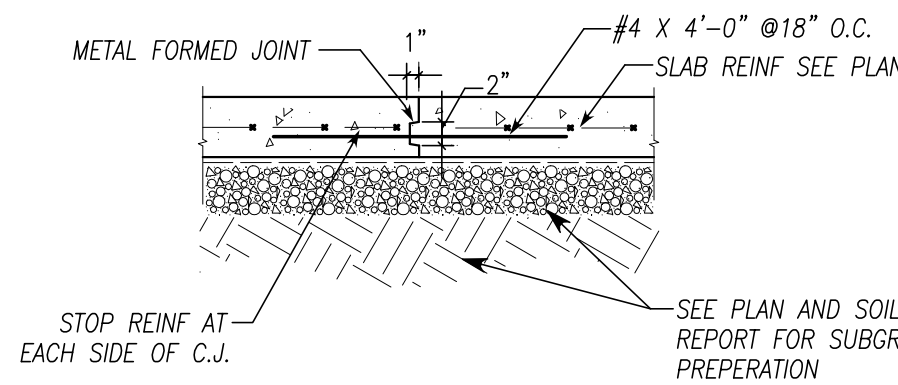
9 TYP FREESTANDING BOLLARD
SCALE : 3/4" = 1'-0"



8 TYP STEPS IN SLAB ON GRADE
SCALE : 1/2" = 1'-0"



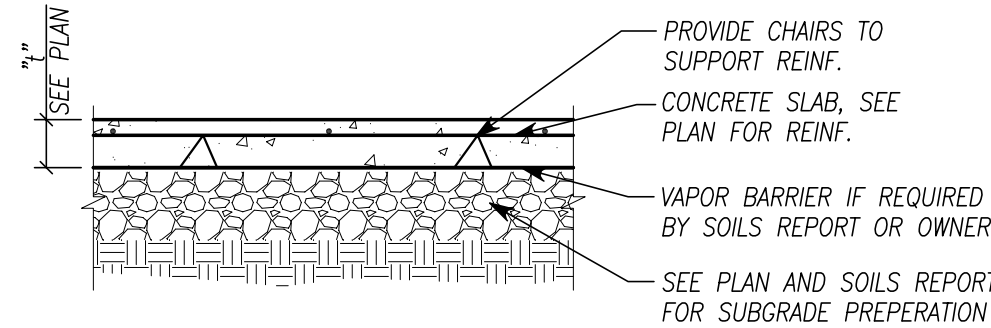
TYPICAL S.O.G. CONTROL JOINT



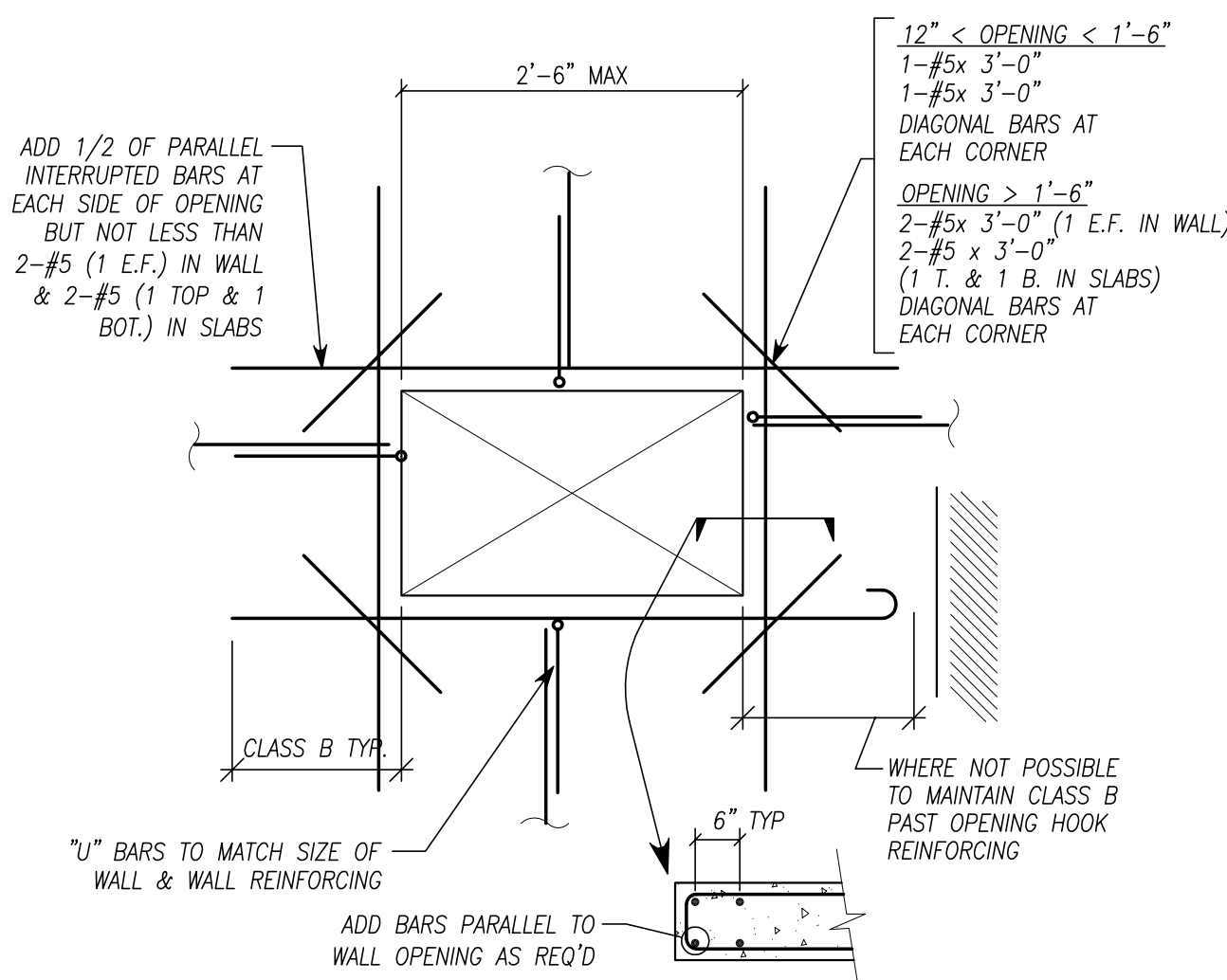
TYPICAL S.O.G. CONSTRUCTION JOINT

PROVIDE CONTROL JOINTS AT 20 FT. C/C EACH WAY MAXIMUM SPACING. CONSTRUCTION JOINTS CAN REPLACE CONTROL JOINTS.

7 TYP JOINTS IN SLAB ON GRADE
SCALE : 3/4" = 1'-0"

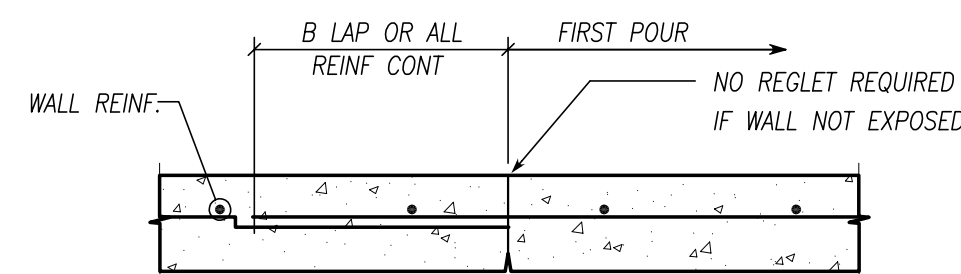


6 TYP SLAB ON GRADE
SCALE : 3/4" = 1'-0"



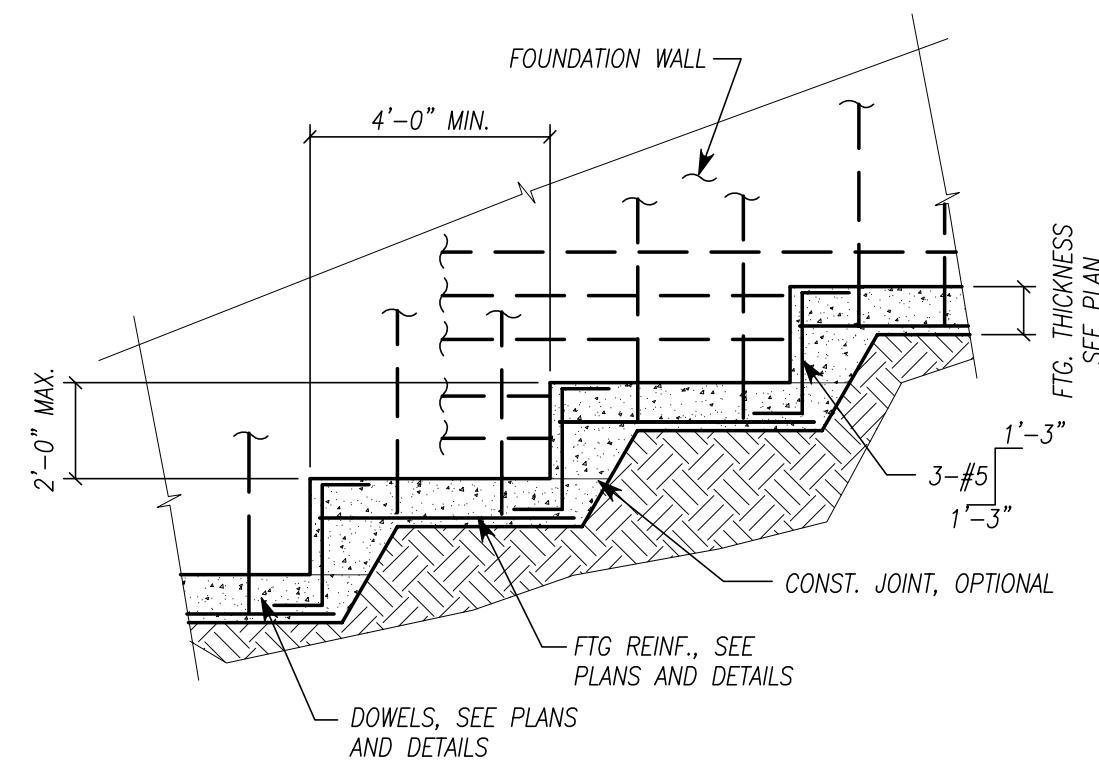
NOTES:
1. SEE WALL ELEVATIONS OR PLANS FOR REINFORCEMENT AT LARGER OPENINGS.
2. CLUSTERS OF SMALL HOLES WHOSE OVERALL MEASUREMENT EXCEEDS 1'-0" SHOULD BE REINFORCED AS ONE OPENING.

5 REINF AT OPENINGS IN STEM WALLS
SCALE : 3/4" = 1'-0"



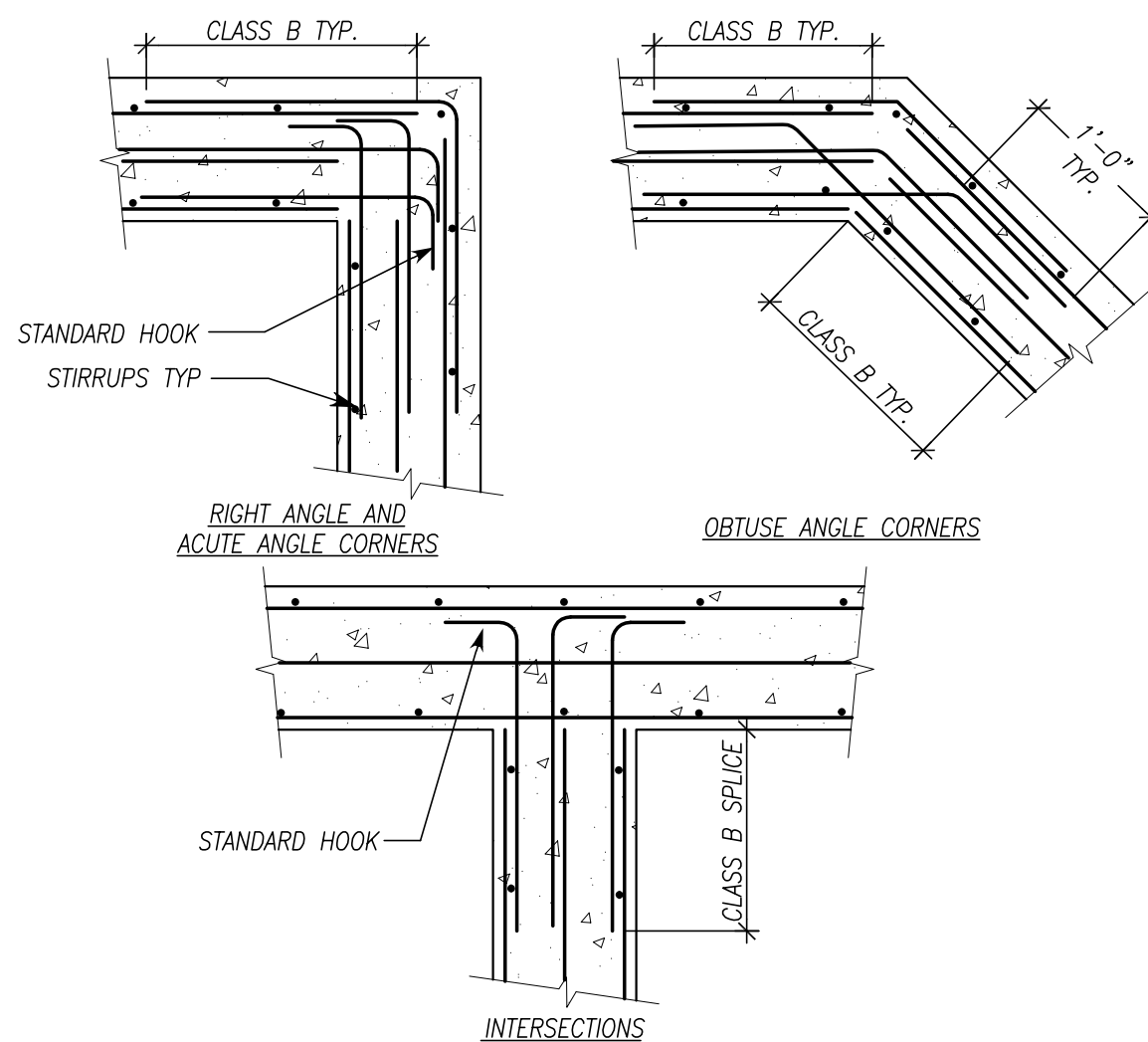
NOTES:
1. LOCATE CONSTRUCTION JOINTS AT POINTS OF MIN. SHEAR GENERALLY IN THE MIDDLE THIRD OF THE SPAN.
2. ALL REINFORCING IS CONTINUOUS THROUGH THE JOINT.

4 STEM WALL CONST JOINT DETAIL
SCALE : 3/4" = 1'-0"



C. ALTERNATE STEPPED FTG

3 TYP FOOTING STEP
SCALE : 1/2" = 1'-0"



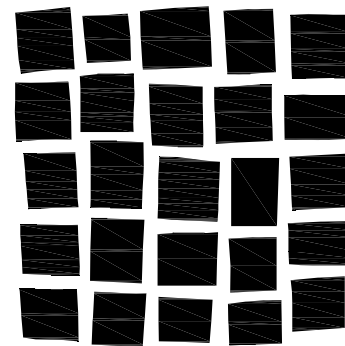
2 FTG, WALL AND STEM WALL REINF AT CORNERS AND INTERSECTIONS
SCALE : 3/4" = 1'-0"

| FOOTING SCHEDULE | | | | | |
|------------------|-----------------------------|-------------------------------|--------------|-----------------------------------|----------------------------|
| KEY | FOOTING | REINFORCEMENT BOTTOM (U.N.O.) | ASD CAPACITY | COMMENTS | REFERENCE DETAILS |
| F10 | 1'-4" X CONTINUOUS X 0'-10" | (3)#5 | 2 KLF | TYPICAL EXTERIOR FOOTING | 1 2 3 S-400 S-400 S-400 |
| F11 | 1'-4" X CONTINUOUS X 0'-10" | (3)#5 | 2 KLF | TYPICAL INTERIOR FOOTING | |
| F50 | 5'-0" X 5'-0" X 1'-0" | (5)#6 EA WAY | 37.5 Kips | STD HOOK AT BOTH ENDS OF ALL BARS | |

FOOTING NOTES:
1. FOOTINGS DESIGNED FOR ALLOWABLE BEARING PRESSURE OF 1,500 PSF.
2. SEE PLAN NOTES AND SOILS REPORT FOR SOIL PREPARATION BENEATH FOOTINGS.
3. EXTERIOR FOOTINGS MUST BEAR AT A MINIMUM OF 3'-0" BELOW FINAL GRADE FOR FROST PROTECTION.

1 FOOTING SCHEDULE
SCALE : 1" = 1'-0"

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PROGRESS PRINTS
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CONSTRUCTION

Issuance Date
DESIGN DEVELOPMENT 04/17/2020

Revisions Date No.

Project Information

SPAD - Hartsel Station
12855 Highway 24 Hartsel, CO 80449

Sheet Information

Sheet Title:

TYPICAL CONCRETE
DETAILS

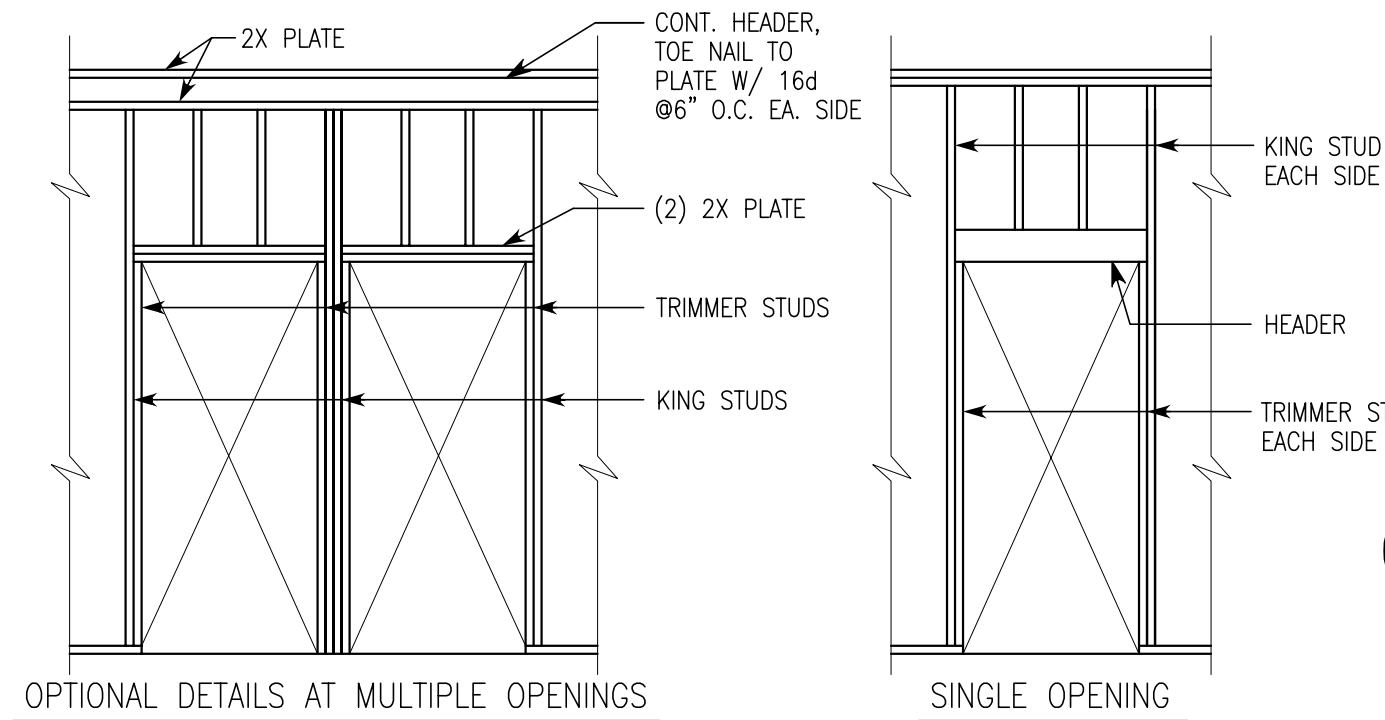
Sheet Number:

S-030

DPA Project: 19716.00

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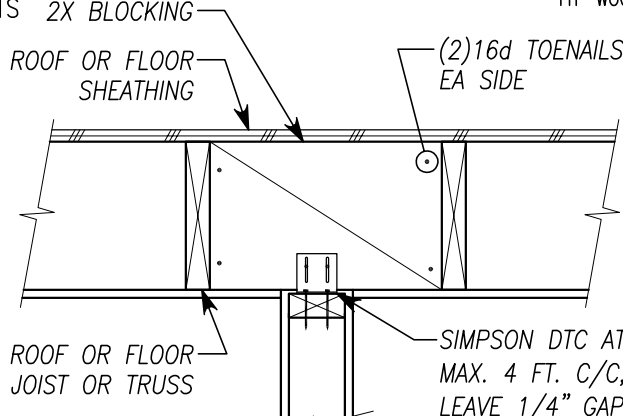


| HEADER SCHEDULE FOR NON-LOAD-BEARING WALLS | | | | | | |
|--|-----------------|-----------------|-----------|-----------|--|---------|
| SPAN | 2-MLAM | 3-MLAM | 2-DougFir | 3-DougFir | | Remarks |
| 3'-0" | 2-1 3/4"x5 1/2" | 3-1 3/4"x5 1/2" | 2-2x4 | 3-2x4 | | |
| 4'-0" | | | 2-2x4 | 3-2x4 | | |
| 5'-0" | | | 2-2x4 | 3-2x4 | | |
| 6'-0" | | | 2-2x4 | 3-2x4 | | |
| 7'-0" | | | 2-2x6 | 3-2x6 | | |
| 8'-0" | | | 2-2x6 | 3-2x6 | | |
| 9'-0" | | | 2-2x6 | 3-2x6 | | |
| 10'-0" | 2-1 3/4"x5 1/2" | 3-1 3/4"x5 1/2" | 2-2x6 | 3-2x6 | | |

NOTE:
1. DOUG-FIR HEADER TO BE No.2 DOUG-FIR.
2. HEADER DESIGNED FOR 100 PLF.

11 TYP HEADERS FOR NON-BEARING WALLS

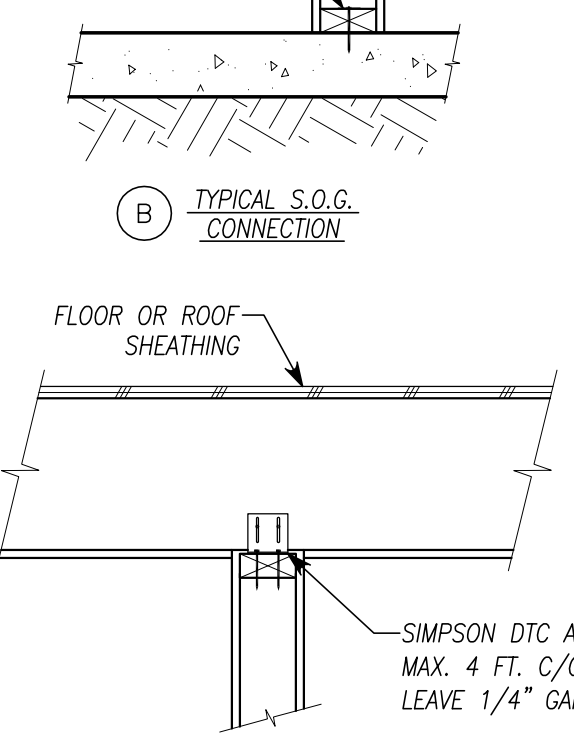
SCALE : NTS 2X BLOCKING TYP WOOD HEADERS FOR NON-BEARING WALLS



(A) FULL HEIGHT WALL PARALLEL TO FRAMING

SIMPSON PDW-300 SHOTPIN @32\"/>

(B) TYPICAL S.O.G. CONNECTION



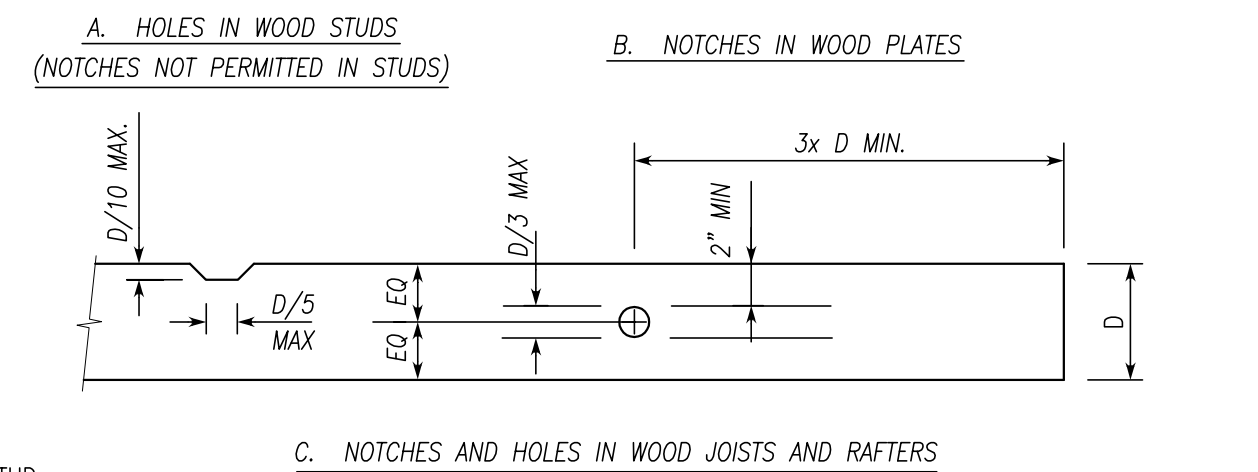
(C) FULL HEIGHT WALL PERPENDICULAR TO FRAMING

10 TYPICAL NON-BEARING PARTITION WALL LATERAL SUPPORT

SCALE : NTS TYP PARTITION WALL LAT SUPPORT

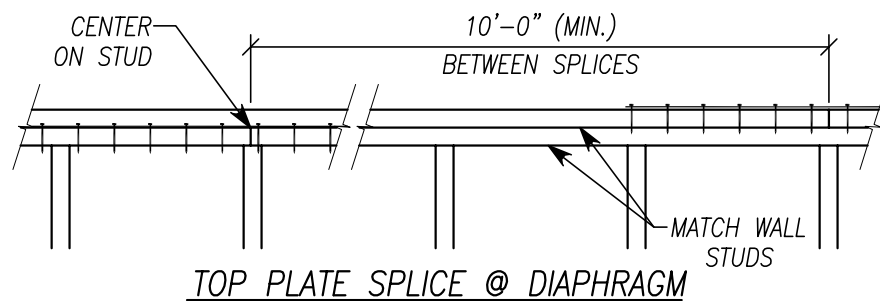
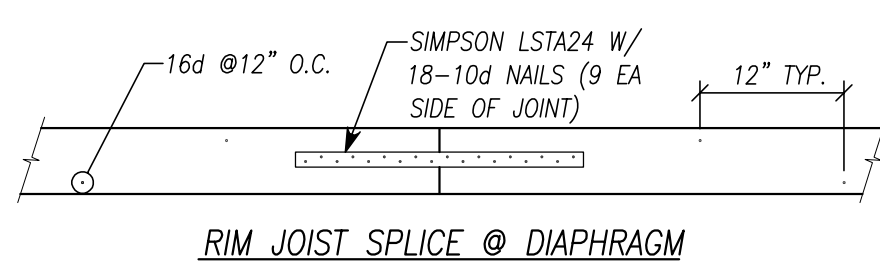
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9 TYPICAL REQUIREMENTS FOR HOLES & NOTCHES IN WOOD MEMBERS

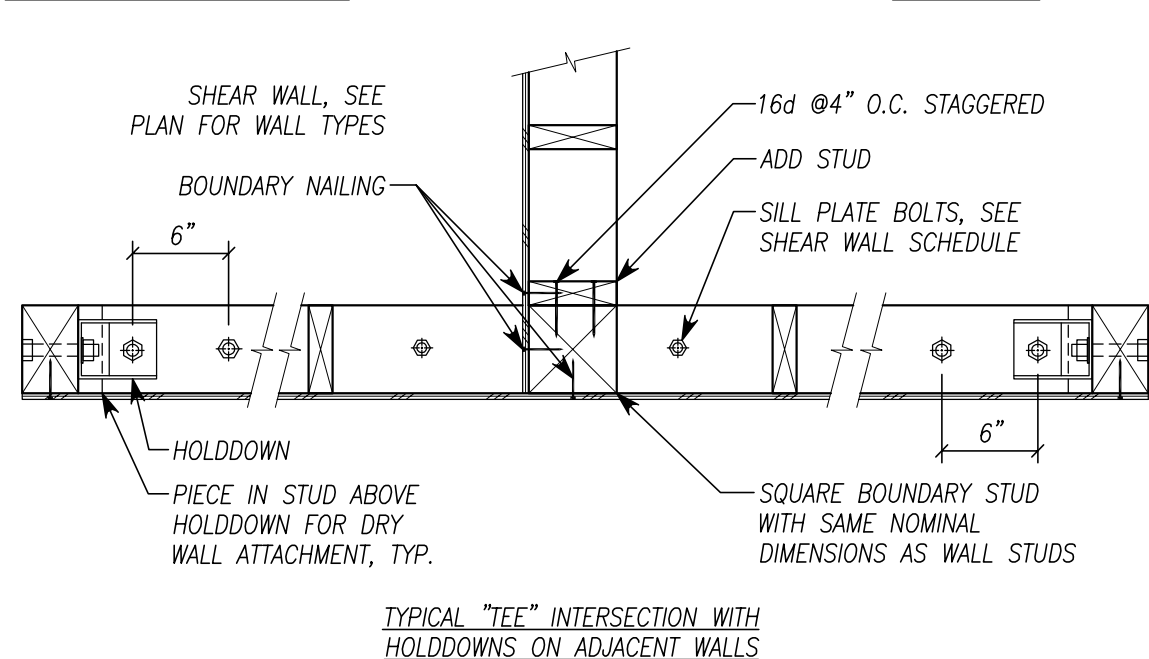
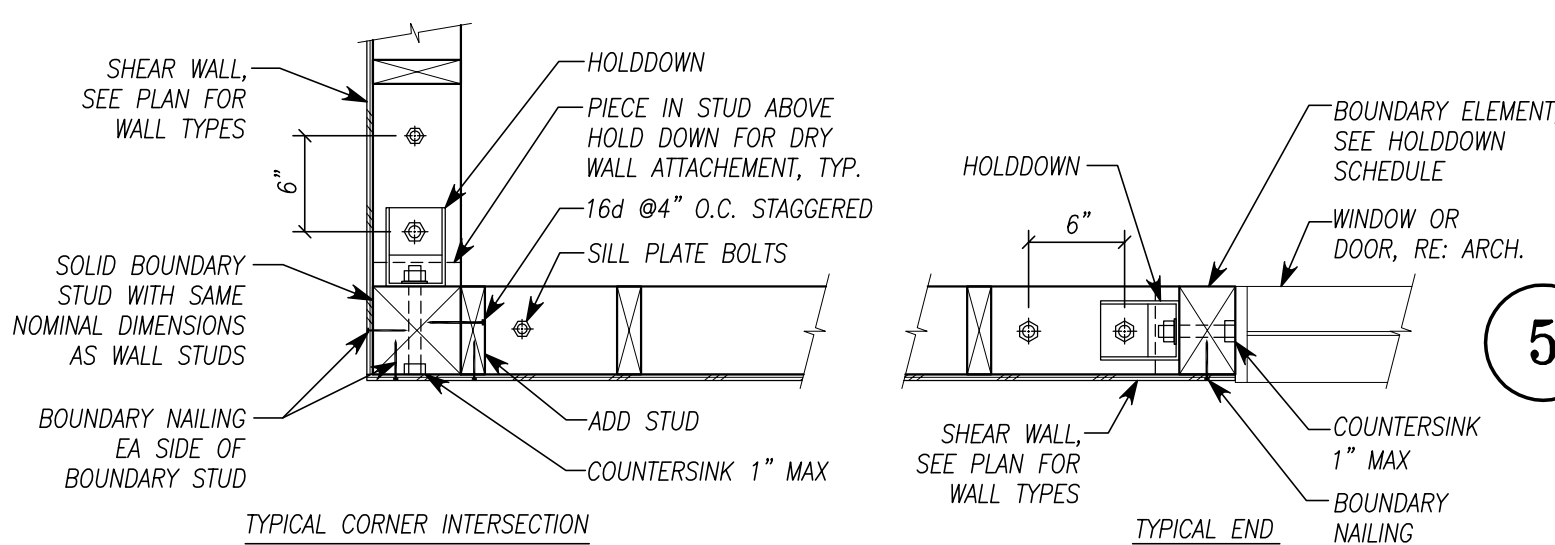
SCALE : NTS TYP NOTCHES AND HOLES



NOTES:
1. USE DETAIL ON BOTH PLATES WHERE CALLED FOR ON PLAN.
2. ALLOWABLE TENSION THROUGH THE SPLICE IS 1235#.

8 SPLICES AT WOOD DIAPHRAGM CHORDS

SCALE : NTS SPLICES AT WOOD DIAPHRAGM CHORDS



7 TYPICAL WOOD PANEL SHEAR WALL INTERSECTIONS

SCALE : NTS TYP WOOD PANEL SHEAR WALL INTERSECTIONS

C

6 TYPICAL BEARING WALL INTERSECTIONS

SCALE : NTS TYP BEARING WALL INTERSECTIONS

| TYPICAL MINIMUM NAILING REQUIREMENTS, U.N.O. PER 2015 INTERNATIONAL BUILDING CODE TABLE 2304.10.1 WHERE INDICATED | | |
|---|---|----------|
| CONNECTION | COMMON NAILS | PER |
| 1. Joist to sill or girder, toenail | 3-8d | IBC 2015 |
| 2. Bridging to joist, toenail each end | 2-8d | IBC 2015 |
| 3. 1"x6" subfloor or less to each joist, face nail | 2-8d | IBC 2015 |
| 4. Wider than 1"x6" subfloor to each joist, face nail | 3-8d | IBC 2015 |
| 5. 2" subfloor to joist or girder, blind and face nail | 2-16d | IBC 2015 |
| 6. Sole plate to joist or blocking, face nail | 16d @16" o.c. | IBC 2015 |
| 7. Top plate to stud, end nail | 2-16d | IBC 2015 |
| 8. Stud to sole plate | 4-8d toenail or 2-16d end nail | IBC 2015 |
| 9. Double studs, face nail | 16d@24" | IBC 2015 |
| 10. Double top plates, face nail | 16d@16" | IBC 2015 |
| 11. Blocking between joists or rafters to top plate, toenail | 3-8d | IBC 2015 |
| 12. Rim joist to top plate, toenail | 8d@6" | IBC 2015 |
| 13. Top plates, laps and intersections, face nail | 2-16d | IBC 2015 |
| 14. Continuous header, two pieces | 16d @16" o.c. along each edge | IBC 2015 |
| 15. Ceiling joists to plate, toenail | 3-8d | IBC 2015 |
| 16. Continuous header to stud, toenail | 4-8d | IBC 2015 |
| 17. Ceiling joists, laps over partitions, face nail | 3-16d | IBC 2015 |
| 18. Ceiling joists to parallel rafters, face nail | 3-16d | IBC 2015 |
| 19. Joist or rafters at all bearings, toenail | 3-8d | IBC 2015 |
| 20. 1" brace to each stud and plate, face nail | 2-8d | IBC 2015 |
| 21. 1"x8" sheathing or less to each bearing, face nail | 3-8d | IBC 2015 |
| 22. Wider than 1"x8" sheathing to each bearing, face nail | 3-8d | IBC 2015 |
| 23. Built-up corner studs | 16d @24" o.c. | IBC 2015 |
| 24. Built-up girder and beams | 20d @32" o.c. at top and bottom, staggered on opposite faces 2-20d at ends and at each splice | IBC 2015 |
| 25. 2" planks | 2-16d at each bearing | IBC 2015 |
| 26. Collar tie to rafter, face nail | 3-10d | IBC 2015 |
| 27. Jack rafter to hip | 2-10d toenail 2-16d face nail | IBC 2015 |
| 28. Roof rafter to 2X ridge beam | 2-16d toenail 2-16d face nail | IBC 2015 |
| 29. Joist to band joist, face nail | 3-16d | IBC 2015 |
| 30. Ledger strip, face nail | 3-16d | IBC 2015 |
| 31. Plywood sheathing | See typical wood panel shear wall construction detail | |

5 TYP MINIMUM NAILING REQUIREMENTS

SCALE : NO SCALE TYP MIN NAILING REQUIREMENTS

| POST SCHEDULE | | |
|---------------|---------------|---|
| POST MARK | POST SIZE | NOTE |
| P1 | 6X6 DFL#2 | IN WALL, FOR HOLDDOWN CONNECTION |
| P2 | (2) 2X6 DFL#2 | 1. ALL OF THESE POSTS ARE LOCATED WITHIN IN A WALL. SOME POSTS ARE LOCATED IN NON-BEARING WALLS. GO TO CLEARLY MARK ALL WOOD POSTS AND NOTIFY ALL TRADES THAT THESE POSTS SHALL NOT BE CUT, NOTCHED OR MODIFIED IN ANY WAY. |
| P3 | (3) 2X6 DFL#2 | |
| P4 | (4) 2X6 DFL#2 | |
| P5 | (5) 2X6 DFL#2 | |
| P6 | HSS4X4X1/4 | 2. AT ALL LOCATIONS WHERE A POST CROSSES A FLOOR THE ENTIRE AREA OF THE POST MUST HAVE SQUASH BLOCKING TIGHT BETWEEN THE WALL PLATES ABOVE AND BELOW THE POST UNLESS THE SPACE IS FILLED WITH A BEAM OR HEADER. |
| | | SEE X/XXXX FOR BASE PLATE DETAIL |

4 WOOD POST SCHEDULE

SCALE : NO SCALE 1935d005

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| ANCHOR BOLT EMBEDMENT | | |
|-------------------------------|-----------------|-----------------------|
| ANCHOR BOLT TYPE AND DIAMETER | EMBEDMENT DEPTH | NOTES |
| 5/8" TITEN HD ANCHOR | 4 1/8" | FOR USE WITH HD1 ONLY |
| 5/8" EPOXIED ANCHOR BOLT* | 5 5/8" | - |
| 1/6" EPOXIED ANCHOR BOLT* | 7 1/6" | - |

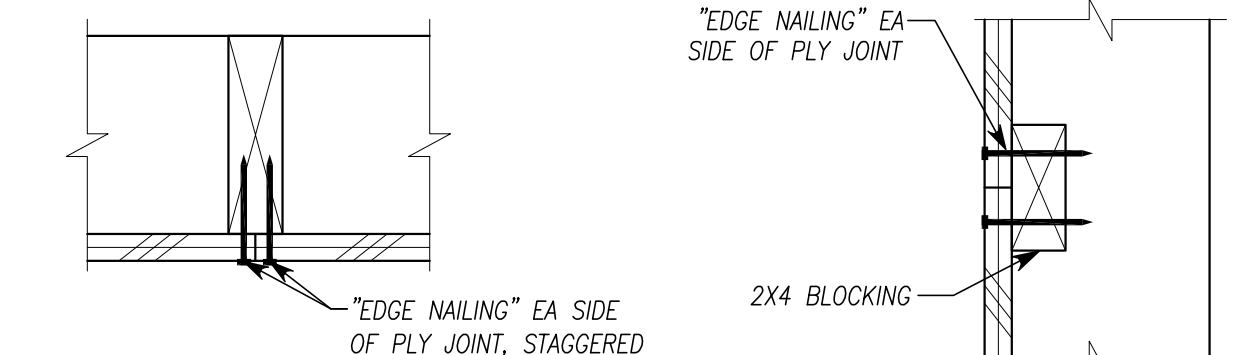
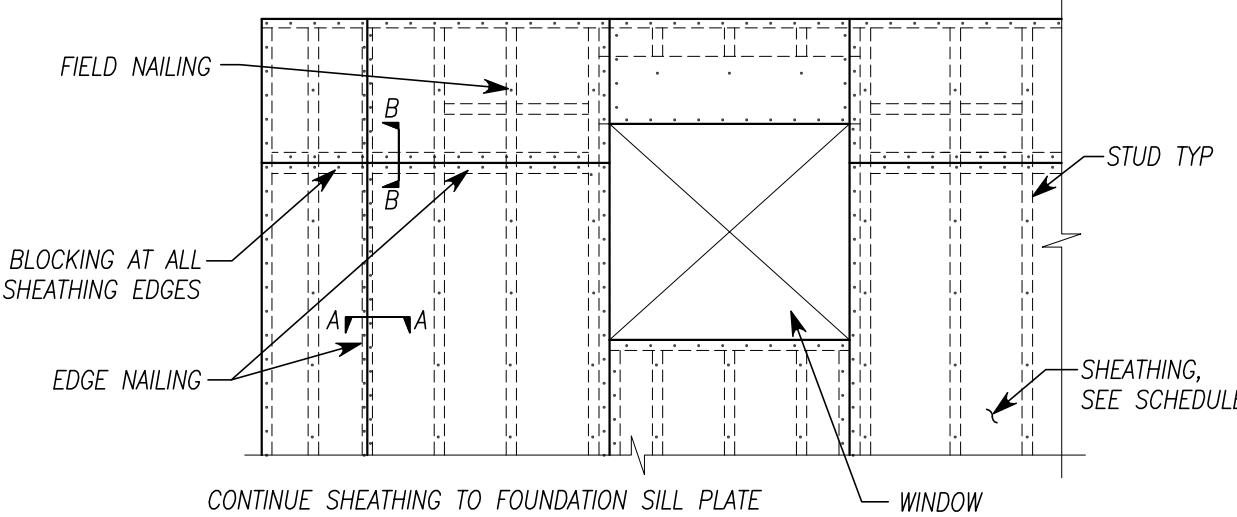
*EPOXIED ANCHOR BOLTS SHALL BE HILTI HAS-E STANDARD RODS SECURED WITH HILTI HIT-HY200 MAX EPOXY OR EQUIVALENT.

| HOLDOWN SCHEDULE | | | | | |
|------------------|-------------------|-------------------|----------------|--------------------|----------------|
| HOLD DOWN KEY | ANCHOR BOLT DIAM. | SIMPSON HOLD-DOWN | STUD BOLTS QTY | NO. OF ENDRY STUDS | FLOOR STRAP(S) |
| (H01) | 5/8" | HD3B | 2 | 5/8" | 1, 1,895# |
| (H02) | 5/8" | HD5B | 2 | 3/4" | 2, 4,505# |
| (H03) | 7/8" | HD9B | 3 | 7/8" | 3, 9,920# |

NOTES:
1) AT EACH HOLDDOWN LOCATION INSTALL SIMPSON STRAP(S) ACROSS FLOOR ABOVE WHERE APPLICABLE IF SHEAR WALL IS PRESENT AT SECOND LEVEL.
2) AT EXTERIOR WALL LOCATIONS ALIGN HOLDDOWN SO THAT ANCHOR BOLT IS 3" FROM SLAB EDGE.

3 HOLDOWN SCHEDULE

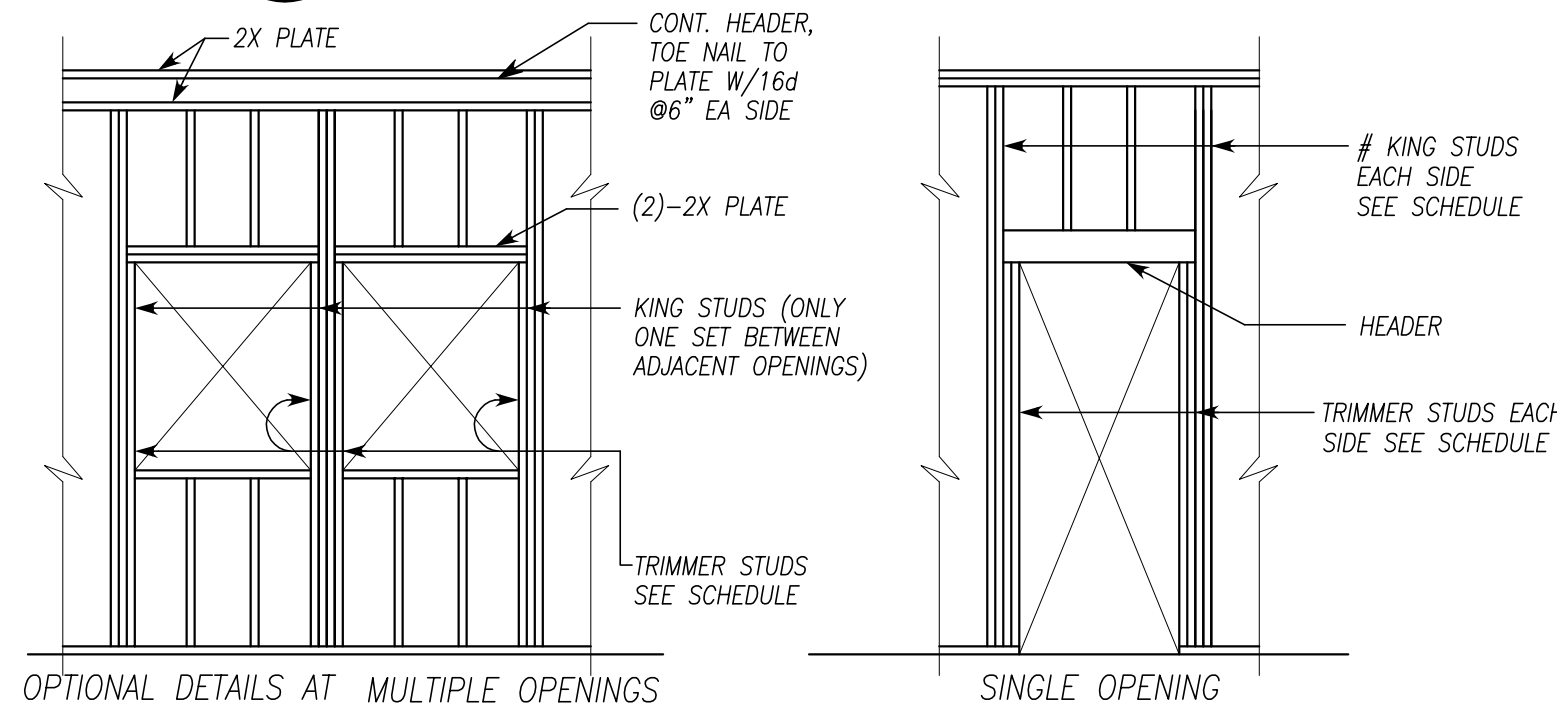
SCALE : NTS 1935d004



| WALL TYPE | EDGE FASTENING | FIELD FASTENING | CAPACITY | COMMENTS | ANCHOR BOLTS |
|-----------|--------------------|---------------------|----------|----------------------|----------------------------|
| A X=X | 8d NAILS @ 4" O.C. | 8d NAILS @ 12" O.C. | 380 plf | (1) LAYER 15/32" OSB | 5/8" DIAMETER AT 32" O.C. |
| B X=X | 8d NAILS @ 3" O.C. | 8d NAILS @ 12" O.C. | 532 plf | (1) LAYER 15/32" OSB | 5/8" DIAMETER AT X16" O.C. |

2 WOOD SHEAR WALL SCHEDULE

SCALE : NTS 1935d003



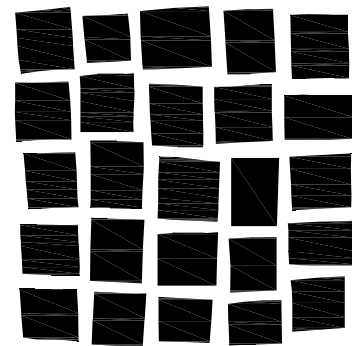
| PLAN MARK | SPAN | LVL, FB = 2600 PSI (LAMINATED VENEER LUMBER) ALTERNATES | GLULAM, 24F-V4 ALTERNATES | DIMENSIONED LUMBER ALTERNATES | | NO. OF 2X6 TRIMMER STUDS | NO. OF 2X6 KING STUDS |
|-----------|--------|---|----------------------------------|----------------------------------|----------------------|-----------------------------|--------------------------|
| | | | | NO. 2 DOUGLAS FIR | | | |
| H3 | 3'-0" | (2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2" | 3 1/2"x6" or 5 1/2"x6" | (2) 2x8 or (3) 2x6 | (2) 2x10 or (3) 2x8 | 1 | 1 |
| H4 | 4'-0" | (2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2" | 3 1/2"x6" or 5 1/2"x6" | (2) 2x10 or (3) 2x8 | (2) 2x12 or (3) 2x10 | 1 | 1 |
| H5 | 5'-0" | (2) 1 3/4"x7 1/4" or (3) 1 3/4"x5 1/2" | 3 1/2"x7 1/2" or 5 1/2"x6" | (2) 2x12 or (3) 2x10 | | 1 | 1 |
| H6 | 6'-0" | (2) 1 3/4"x7 1/4" or (3) 1 3/4"x7 1/4" | 3 1/2"x9" or 5 1/2"x7 1/2" | N/A | (3) 2x12 | 1 | 1 |
| H7 | 7'-0" | (2) 1 3/4"x9 1/4" or (3) 1 3/4"x9 1/4" | 3 1/2"x9" or 5 1/2"x7 1/2" | N/A | N/A | 2 | 2 |
| H8 | 8'-0" | (2) 1 3/4"x11 1/4" or (3) 1 3/4"x9 1/4" | 3 1/2"x10 1/2" or 5 1/2"x9" | N/A | N/A | 2 | 2 |
| H9 | 9'-0" | (2) 1 3/4"x11 1/4" or (3) 1 3/4"x9 1/2" | 3 1/2"x11 1/8" or 5 1/2"x9 1/2" | N/A | N/A | 2 | 2 |
| H10 | 10'-0" | (2) 1 3/4"x14" or (3) 1 3/4"x11 1/4" | 3 1/2"x13 1/2" or 5 1/2"x10 1/2" | N/A | N/A | 2 | 2 |
| H11 | 11'-0" | (2) 1 3/4"x14" or (3) 1 3/4"x11 1/8" | 3 1/2"x14" or 5 1/2"x11 1/8" | N/A | N/A | 2 | 2 |
| H12 | 12'-0" | (2) 1 3/4"x16" or (3) 1 3/4"x14" | 3 1/2"x16" or 5 1/2"x13 1/2" | N/A | N/A | 2 | 2 |
| H13 | 13'-0" | (2) 1 3/4"x16" or (3) 1 3/4"x14" | 3 1/2"x16 1/2" or 5 1/2"x14" | N/A | N/A | 2 | 2 |
| H14 | 14'-0" | (2) 1 3/4"x18" or (3) 1 3/4"x16" | 3 1/2"x18" or 5 1/2"x15" | N/A | N/A | 2 | 2 |

NOTES:
A. HEADERS IN LOAD BEARING WALLS DESIGNED FOR 1500 PLF DEAD + LIVE LOAD.
B. PLAN MARK APPLIES TO HEADERS SHOWN ON STRUCTURAL PLANS. HEADERS NOT SHOWN MAY ALSO BE SIZED USING THIS TABLE AND HEADER SPAN.
C. DEFLECTION CRITERIA IS L/360.
D. HEADERS SUPPORTING POINT LOADS FROM BEAMS OR COLUMNS SHOULD NOT BE SIZED FROM THIS TABLE. NOTIFY STRUCTURAL ENGINEER.

1 HEADER SCHEDULE

SCALE: NTS 1935d002

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SPAD - Hartsel Station
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Sheet Information

Sheet Title:

TYPICAL WOOD
DETAILS

Sheet Number:

S-060

DPA Project: 19716.00

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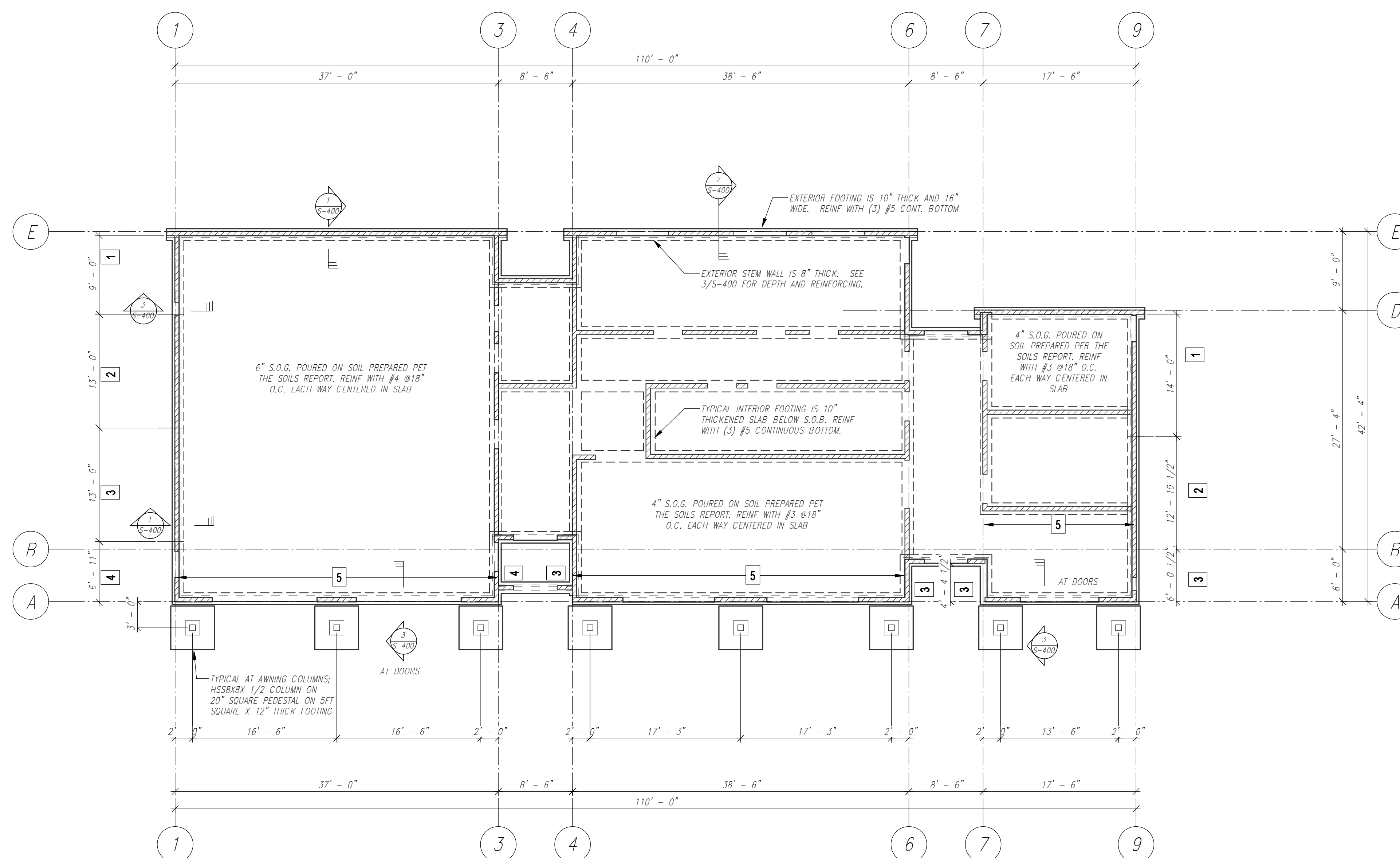
FOUNDATION PLAN

Sheet Number:

S-100

DPA Project: 200

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FOUNDATION PLAN KEYED NOTES

1. STUD WALL IS 2X6 DFL#2 @12" O.C.
MAX HEIGHT = 12'-0"
2. STUD WALL IS 2X6 DFL#2 @12" O.C.
MAX HEIGHT = 14'-0"
3. STUD WALL IS 1 3/4" X 5 1/2" LVL @
12" O.C. MAX HEIGHT = 16'-0"
4. STUD WALL IS 1 3/4" X 5 1/2" LVL @6
O.C. MAX HEIGHT = 18'-0"
5. HSS 5X5 VERTICALS AND HORIZONTAL
MEMBERS TO FORM H FRAMES AROUND
LARGE OPENINGS IN TALL WALLS.

FOUNDATION PLAN NOTES

1. FOUNDATION SYSTEM IS SPREAD FOOTINGS ON SOIL PREPARED PER GEOTECHNICAL REPORT. ALL EXTERIOR FOOTINGS MUST BEAR A MINIMUM OF 48" BELOW GRADE FOR FROST PROTECTION.
2. TYPICAL SLAB ON GRADE AT OFFICE / CLINIC:
4" THICK NORMAL WEIGHT, SEE PLAN FOR REINFC. AND SOILS REPORT FOR PREPARATION OF SOIL BELOW SLAB.
3. TYPICAL SLAB ON GRADE AT AMBULANCE GARAGE:
6" THICK NORMAL WEIGHT SEE PLAN FOR REINFC. AND SOILS REPORT FOR PREPARATION OF SOIL BELOW SLAB.
4. SEE PLAN FOR TOP OF SLAB.
5. SEE 1/S-030 FOR FOOTING SCHEDULE.
6. SEE 5-000 FOR GENERAL NOTES, LEGEND AND SHEET LIST.
7. SEE S030 FOR TYPICAL CONCRETE DETAILS.

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

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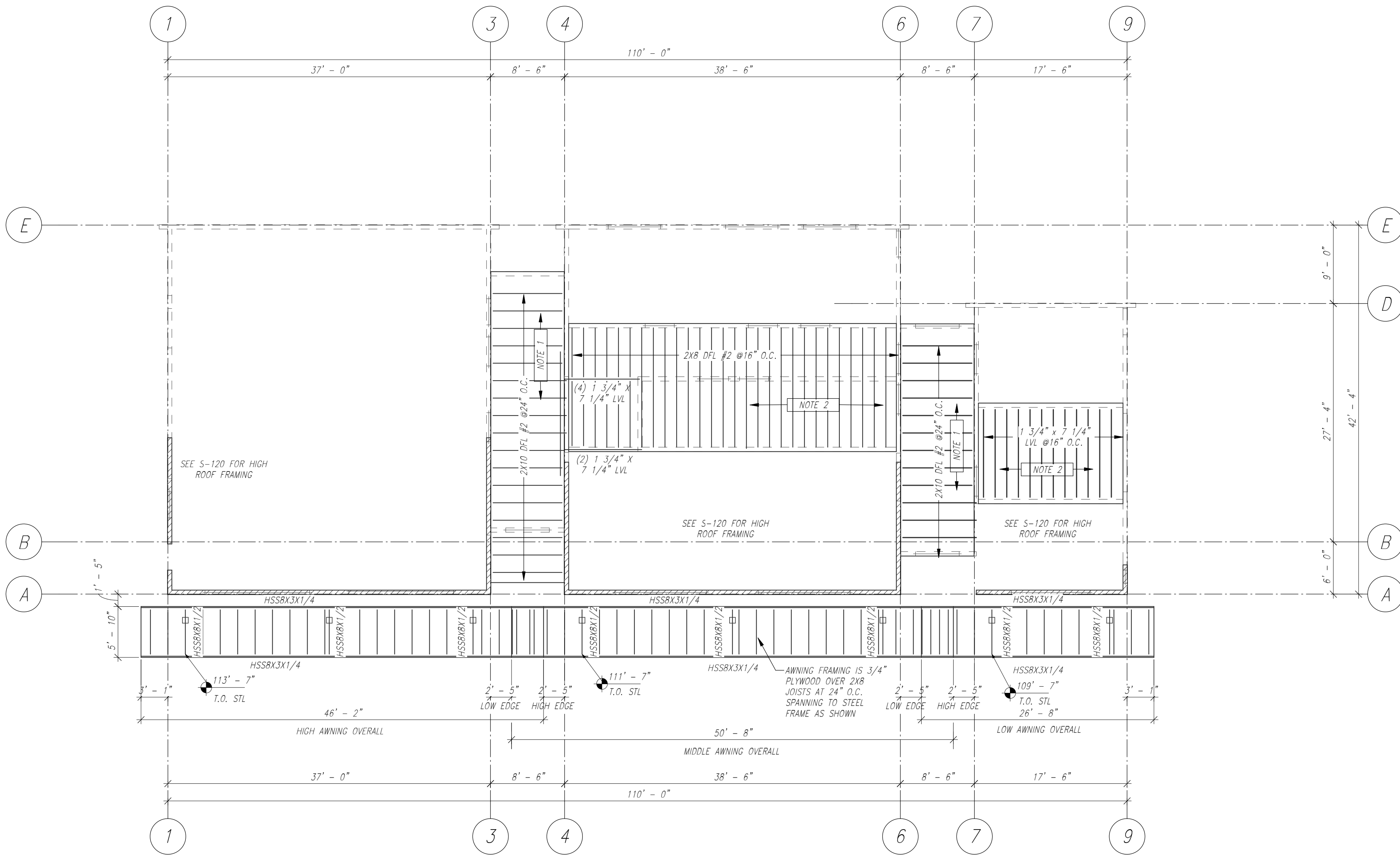
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2 MEZZANINE AND LOW ROOF FRAMING PLANS
SCALE: 1/8" = 1'-0"



MEZZANINE FLOOR AND LOW ROOF FRAMING NOTES

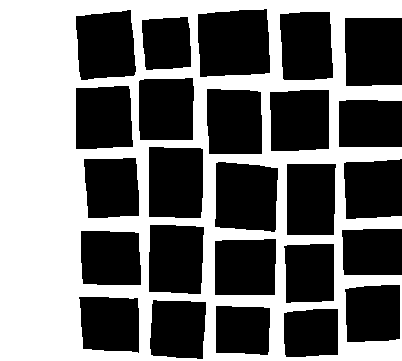
1. TYPICAL LOW ROOF CONSTRUCTION: 5/8" APA RATED EXTERIOR GRADE PLYWOOD OR OSB SPANNING TO WOOD RAFTERS AND PREMANUFACTURED TRUSSES. CONNECT SHEATHING AT ALL PANEL AND DIAPHRAGM EDGES WITH 8d @ 6" O.C. AND @12" O.C. ELSEWHERE.
2. TYPICAL MEZZANINE CONSTRUCTION: 3/4" APA RATED EXTERIOR GRADE PLYWOOD OR OSB T&G SUBFLOOR SPANNING TO WOOD JOISTS. CONNECT SHEATHING AT ALL PANEL AND DIAPHRAGM EDGES WITH 8d @6" O.C. AND @12" O.C. ELSEWHERE.
3. ALL OPENINGS IN BEARING WALLS GET HEADERS, U.N.O. SEE THE WOOD HEADER SCHEDULE ON SHEET S-60.
4. BEAMS SHALL BEAR ON A MINIMUM OF (2) 2X6 STUDS U.N.O. ON PLAN.
5. ALL EXTERIOR WALLS ARE TYPE A SHEAR WALLS U.N.O. INTERIOR WALLS ARE SHEAR WALLS AS NOTED ON PLAN. SEE S-060 FOR THE SHEAR WALL SCHEDULE.
6. SEE S-000 FOR GENERAL NOTES.
7. SEE S010 FOR THE LOAD KEYS.

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Sheet Information

Sheet Title:
MEZZANINE AND
LOW ROOF
FRAMING PLANS
Sheet Number:

S-110

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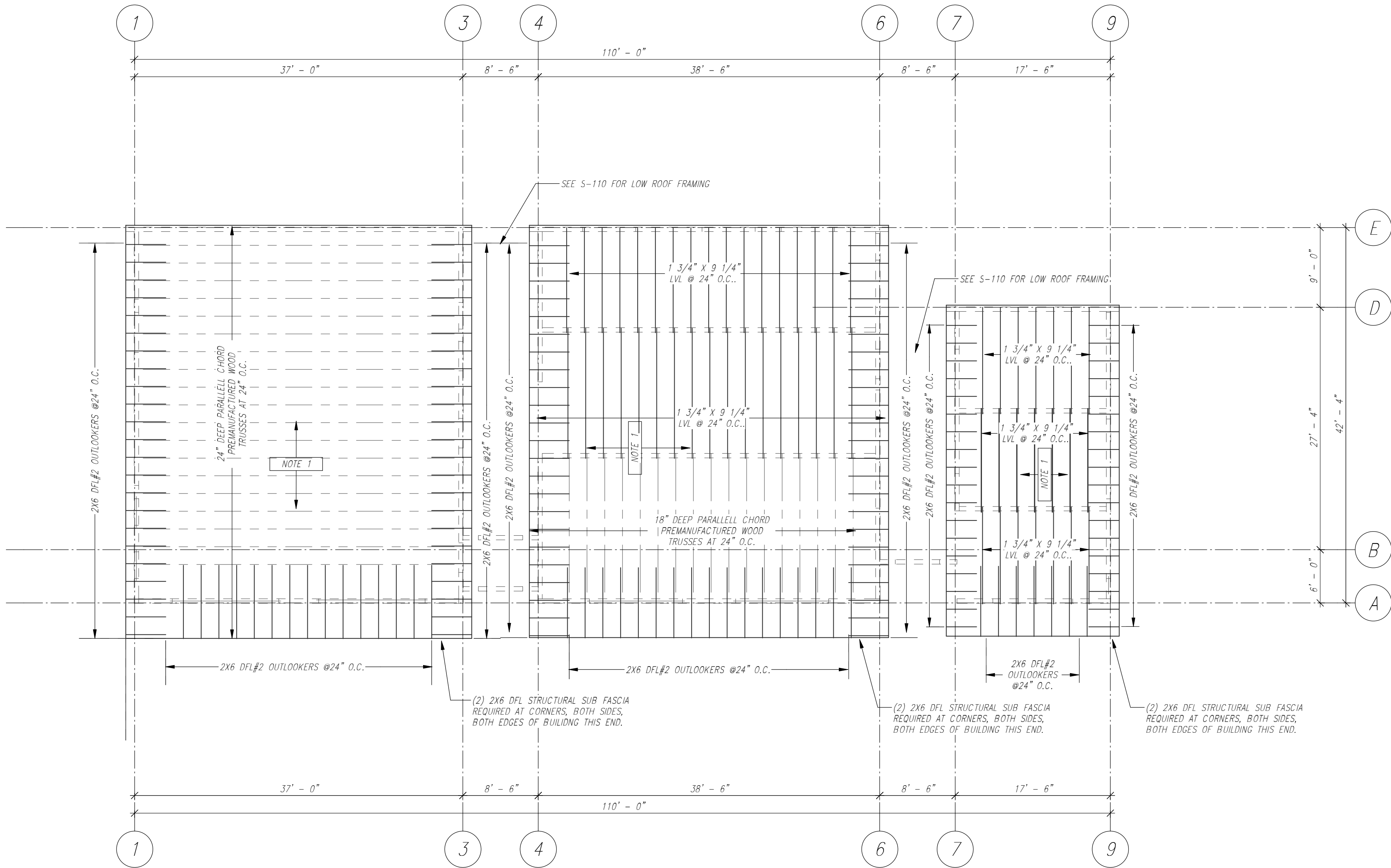
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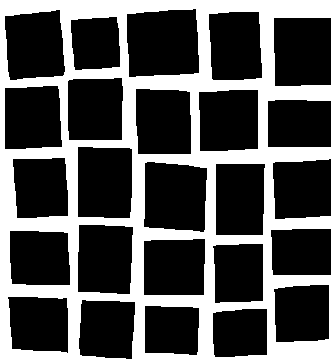
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1 HIGH ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



- HIGH ROOF FRAMING NOTES**
1. TYPICAL ROOF CONSTRUCTION: 5/8" APA RATED EXTERIOR GRADE PLYWOOD OR OSB SPANNING TO WOOD RAFTERS AND PREMANUFACTURED TRUSSES. CONNECT SHEATHING AT ALL PANEL AND DIAPHRAGM EDGES WITH 8d @6" O.C. AND @12" O.C. ELSEWHERE.
 2. ALL OPENINGS IN BEARING WALLS GET HEADERS, U.N.O. SEE THE WOOD HEADER SCHEDULE ON SHEET S-60.
 3. BEAMS SHALL BEAR ON A MINIMUM OF (2) 2X6 STUDS U.N.O. ON PLAN.
 4. ALL EXTERIOR WALLS ARE TYPE A SHEAR WALLS U.N.O. INTERIOR WALLS ARE SHEAR WALLS AS NOTED ON PLAN. SEE S-060 FOR THE SHEAR WALL SCHEDULE.
 5. SEE S-000 FOR GENERAL NOTES.
 6. SEE S010 FOR THE LOAD KEYS.



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Sheet Information

Sheet Title:
**HIGH ROOF
FRAMING PLAN**

Sheet Number:

S-120

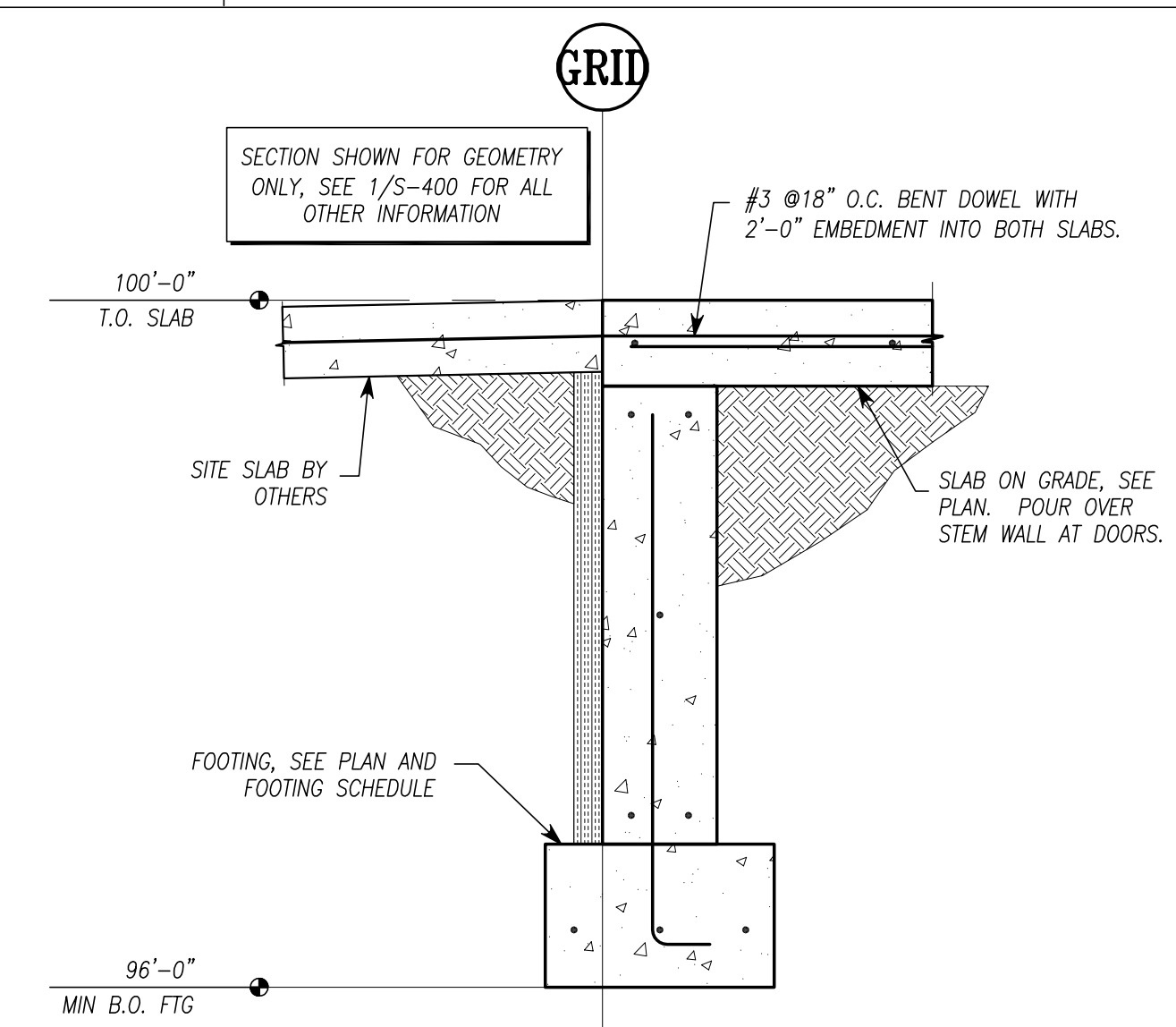
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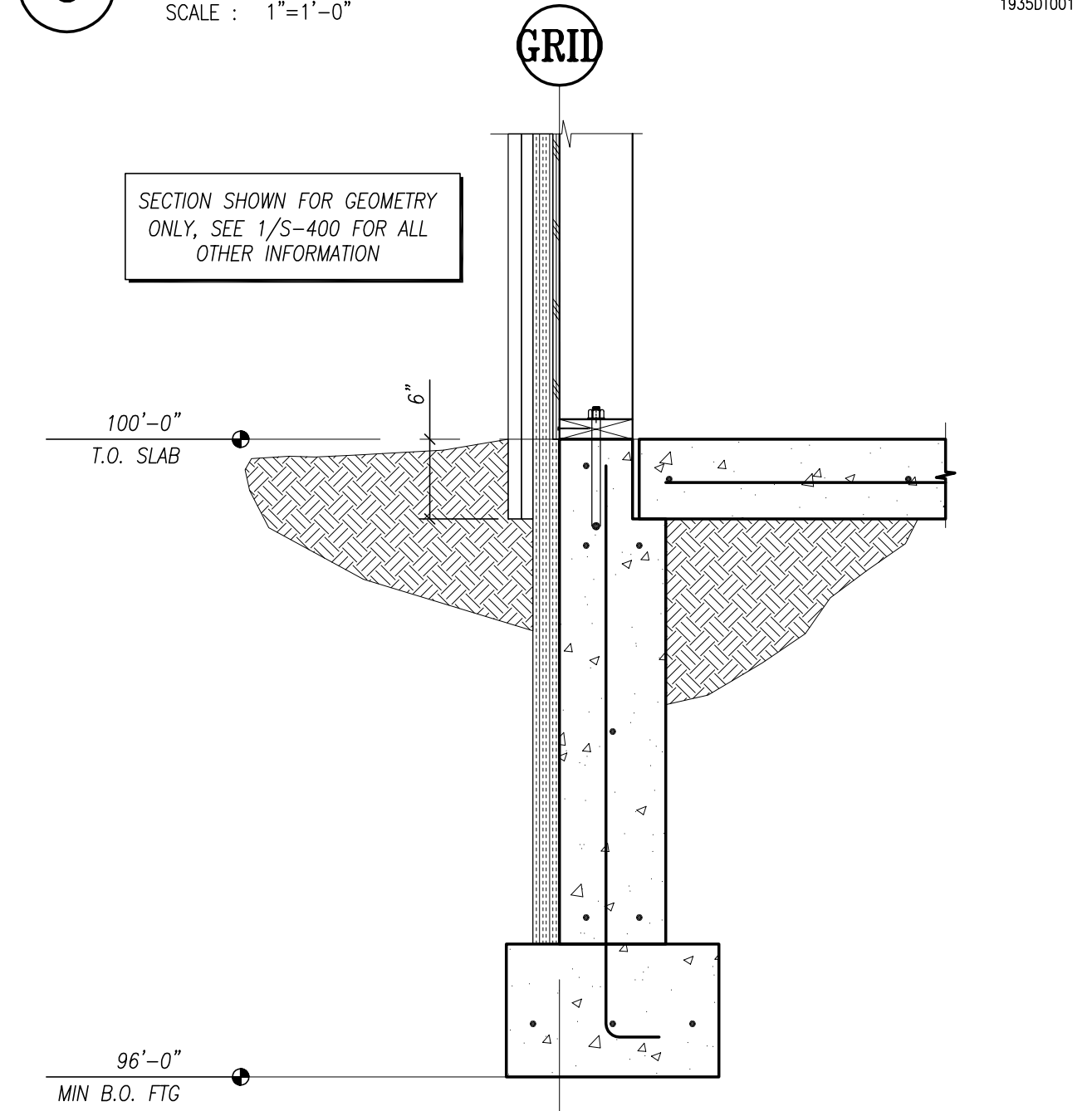
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3 FOUNDATION SECTION AT DOORS

SCALE : 1"=1'-0"

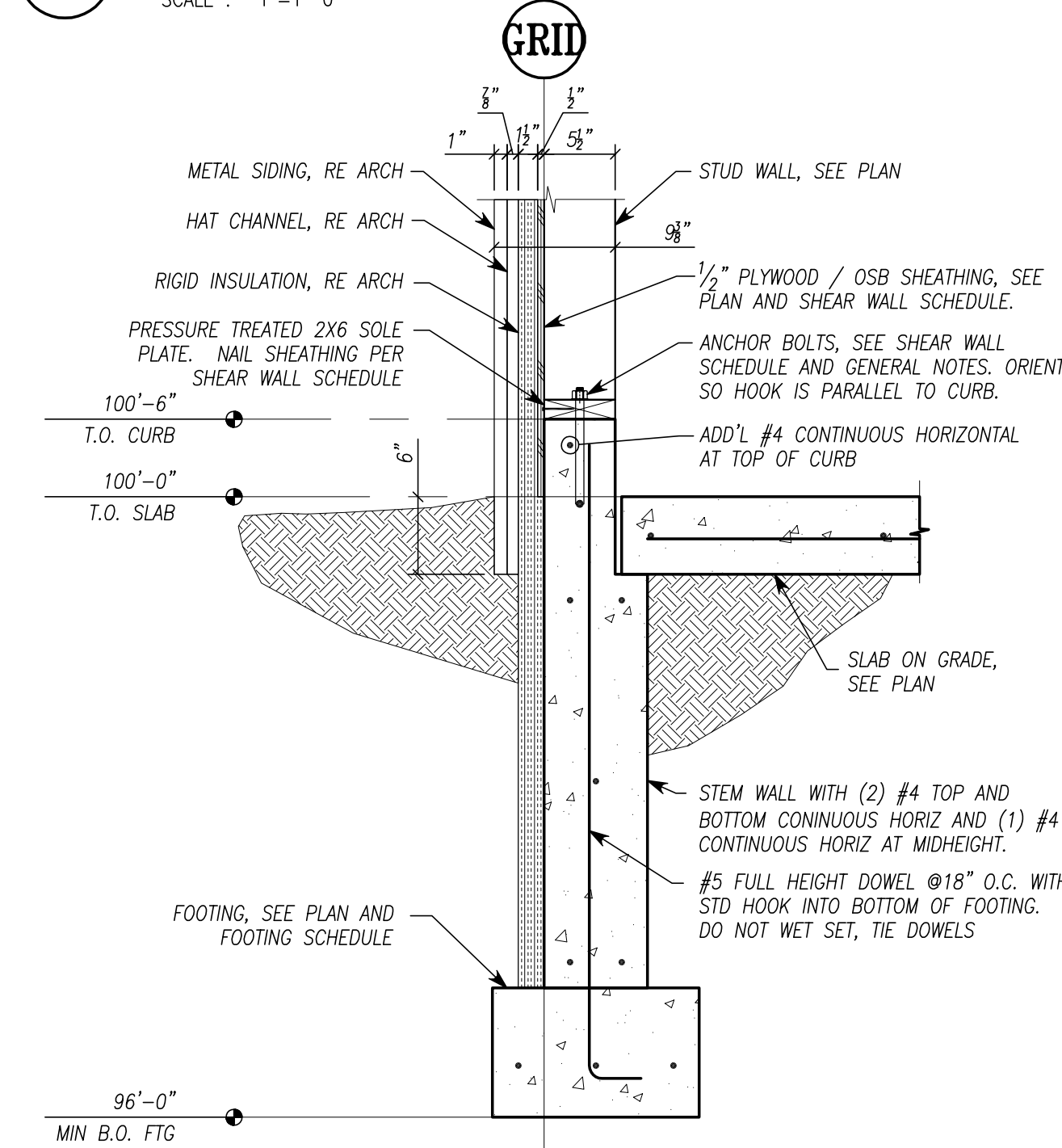
193507001



2 FOUNDATION SECT AT OFFICE / CLINIC

SCALE : 1"=1'-0"

193507001



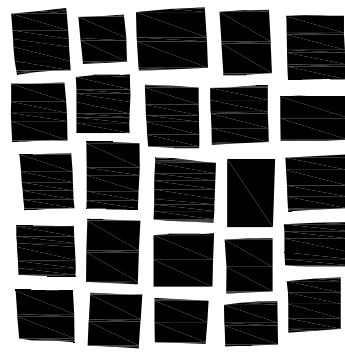
1 FOUNDATION SECTION AT GARAGE BAYS

SCALE : 1"=1'-0"

193507001

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DETAILS**

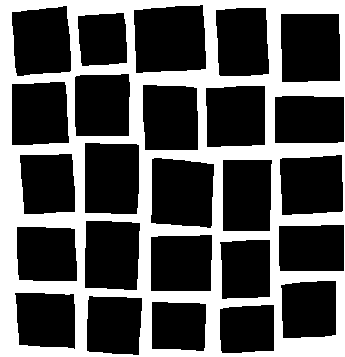
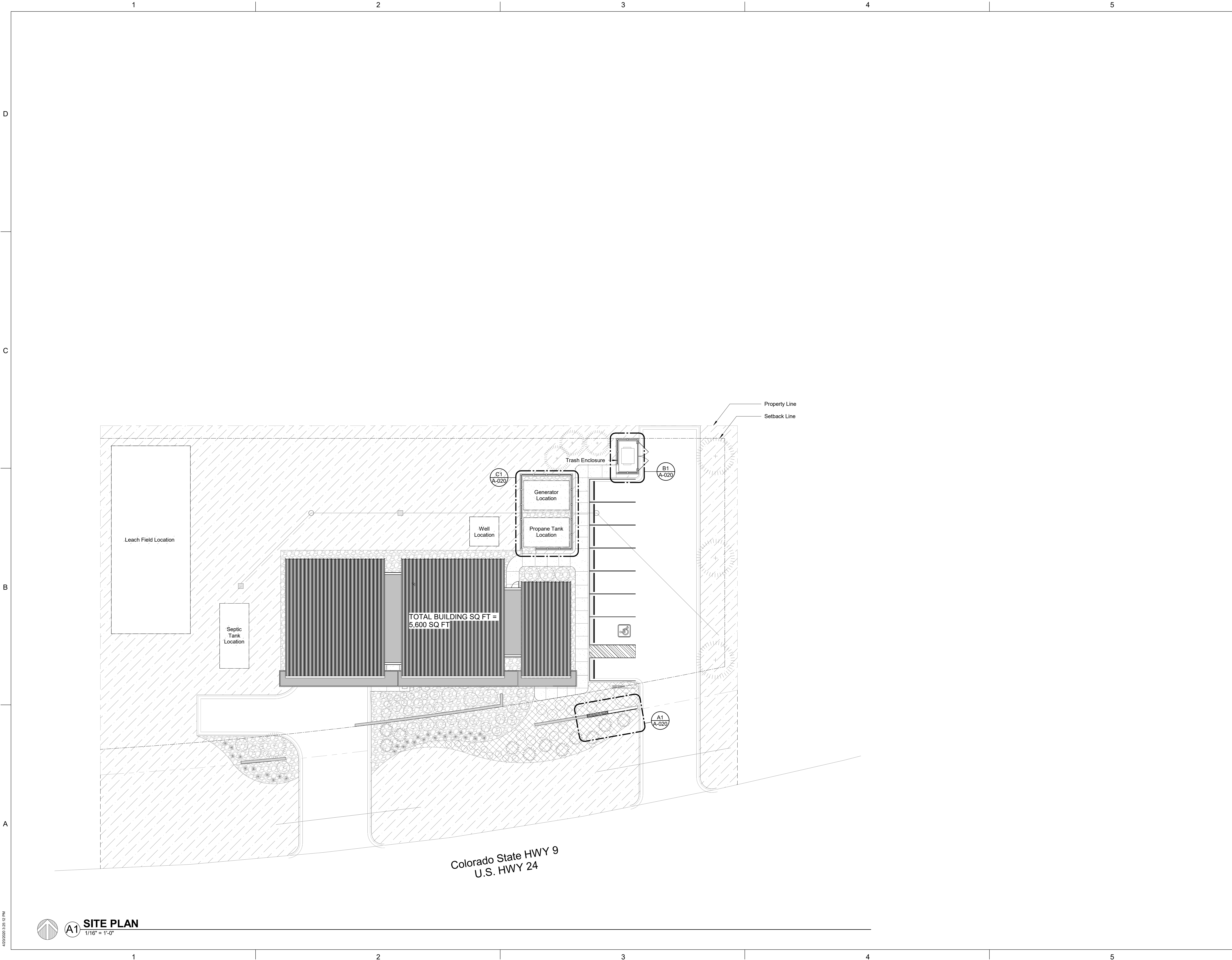
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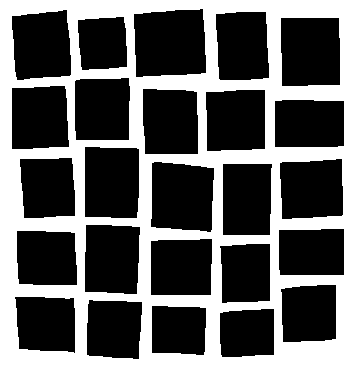
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Sheet Title:
ARCHITECTURAL SITE PLAN

Sheet Number:

A-010

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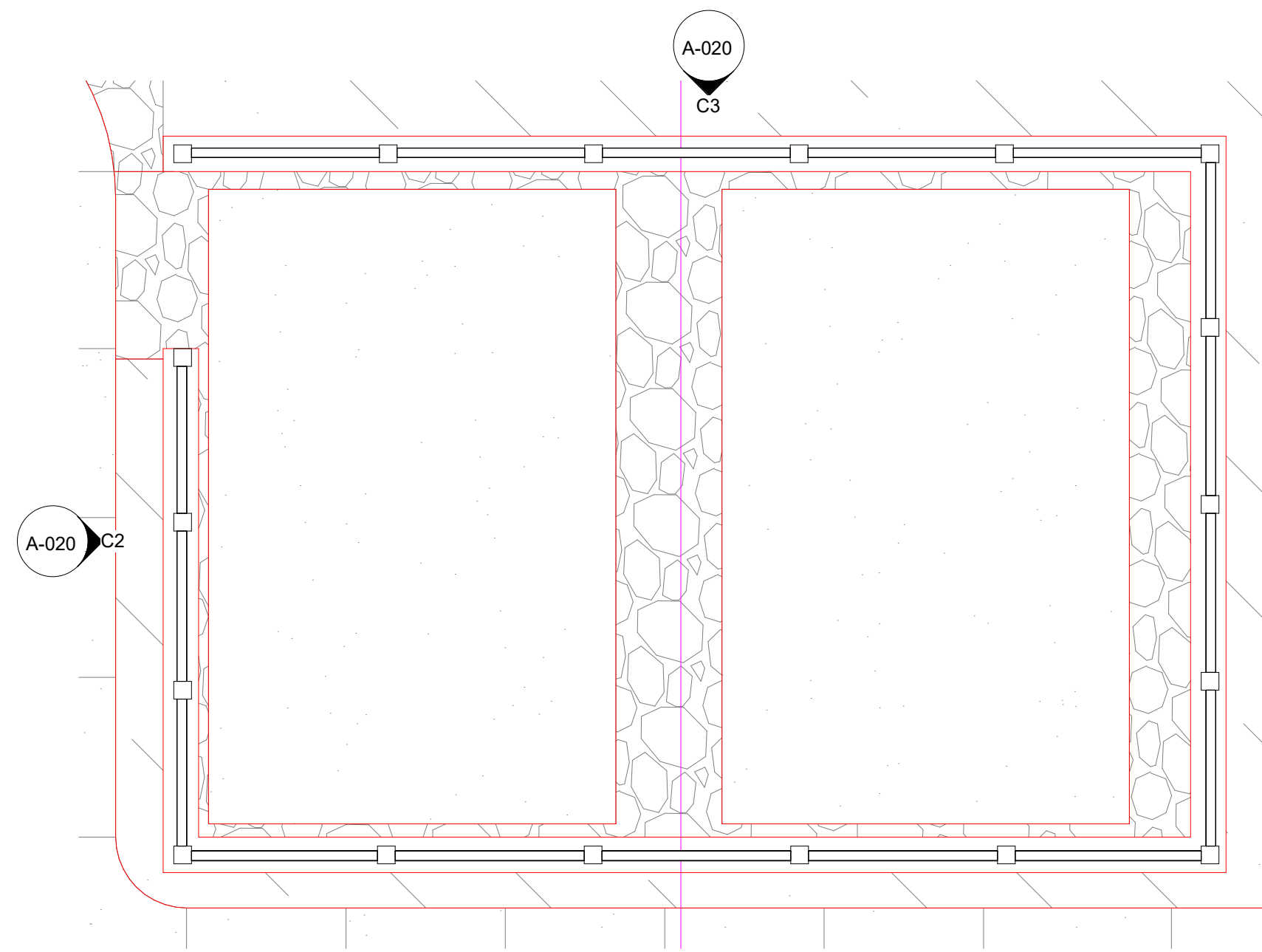
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ACCESSORY STRUCTURE
PLANS AND DETAILS

Sheet Number:

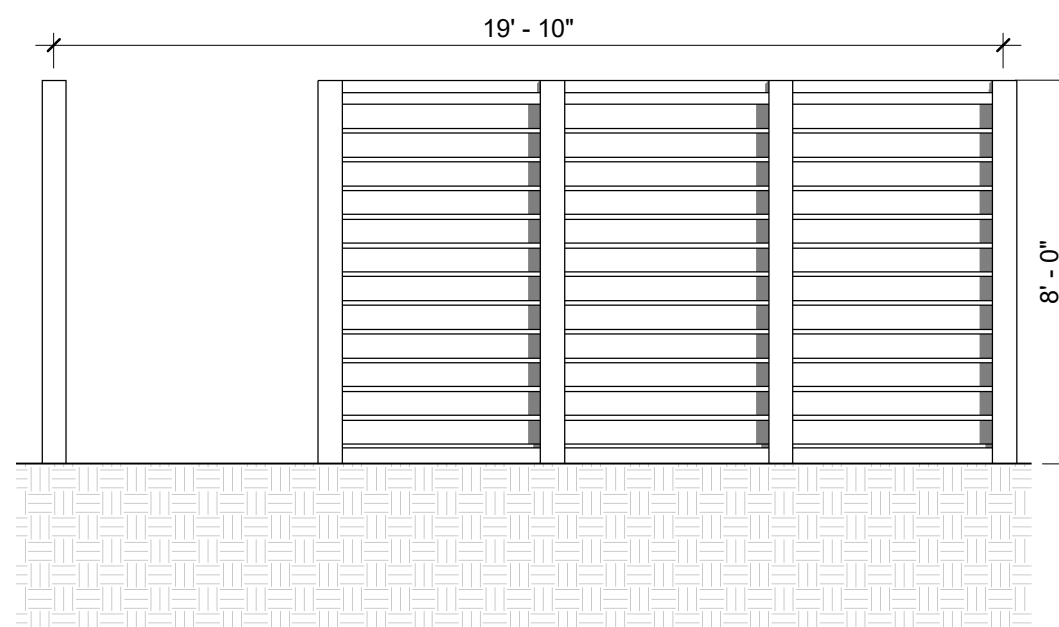
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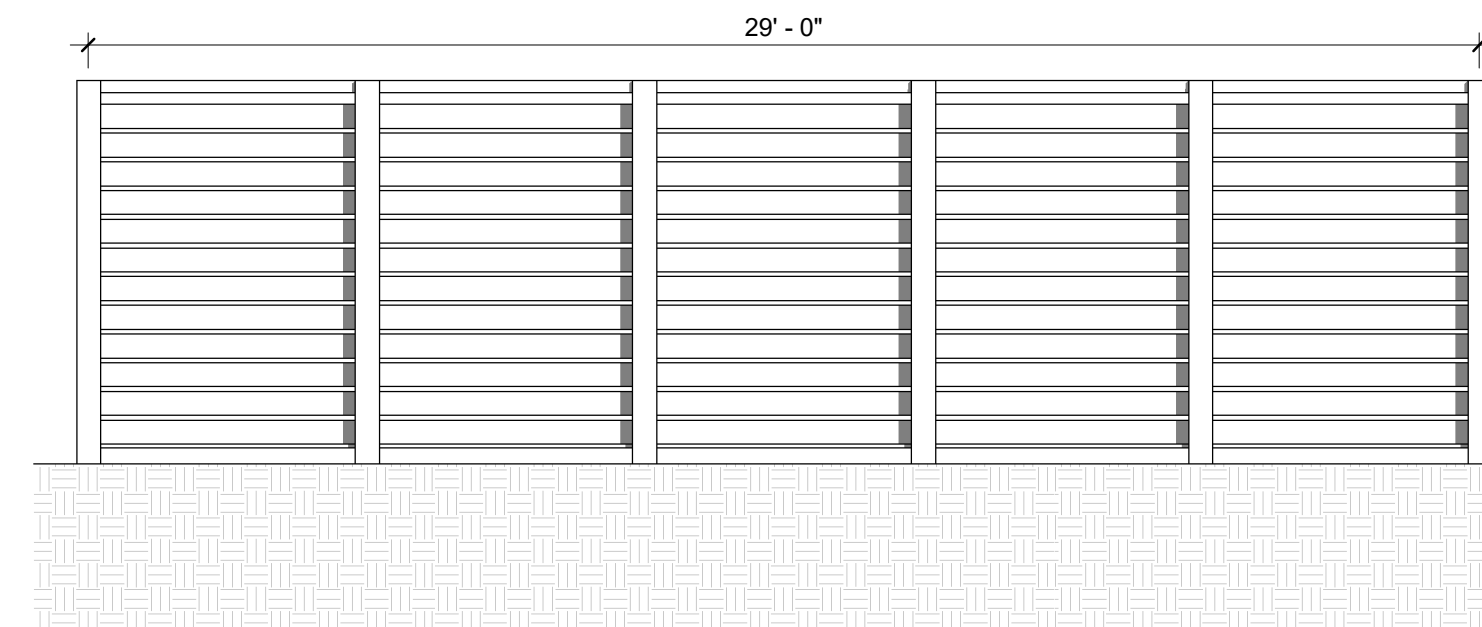
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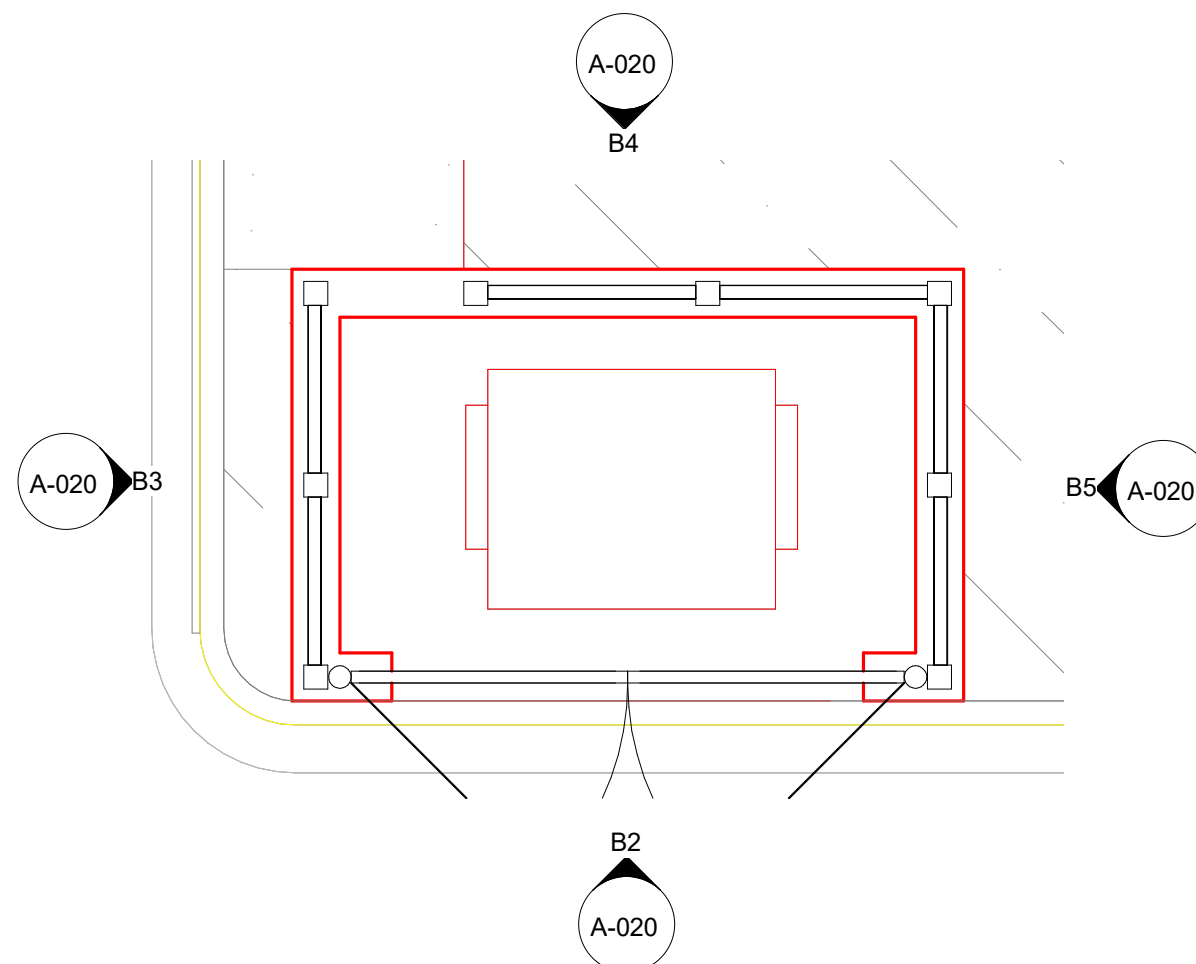
C1 TRASH ENCLOSURE PLAN1
1/4" = 1'-0"



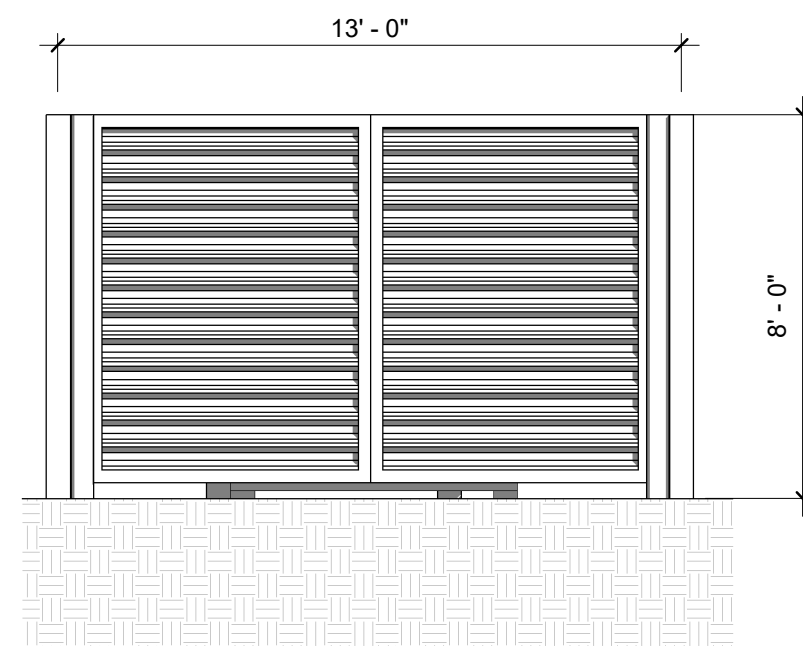
C2 UTILITY ENCLOSURE - E1
1/4" = 1'-0"



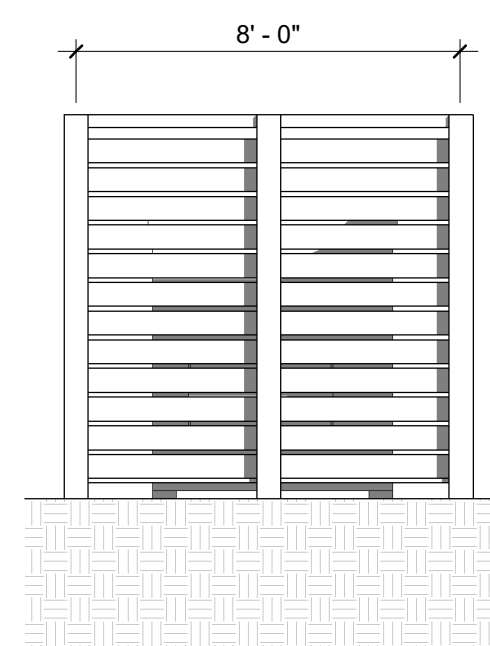
C3 UTILITY ENCLOSURE - E2
1/4" = 1'-0"



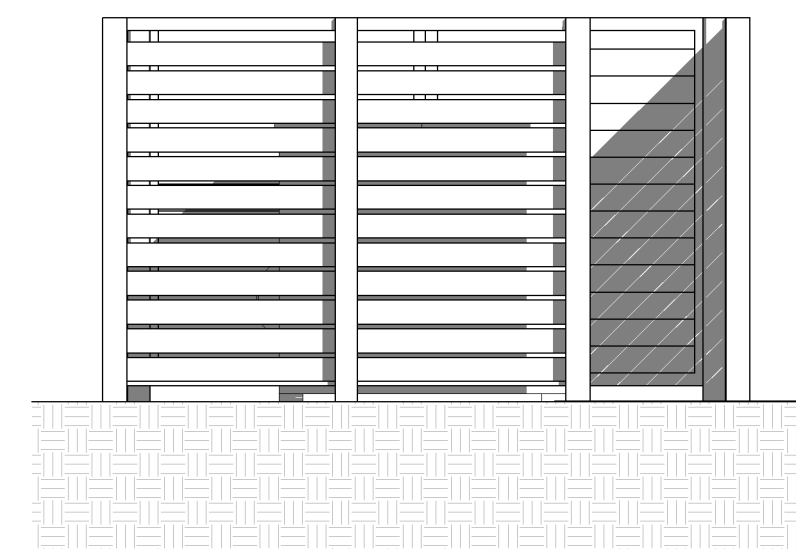
B1 TRASH ENCLOSURE PLAN
1/4" = 1'-0"



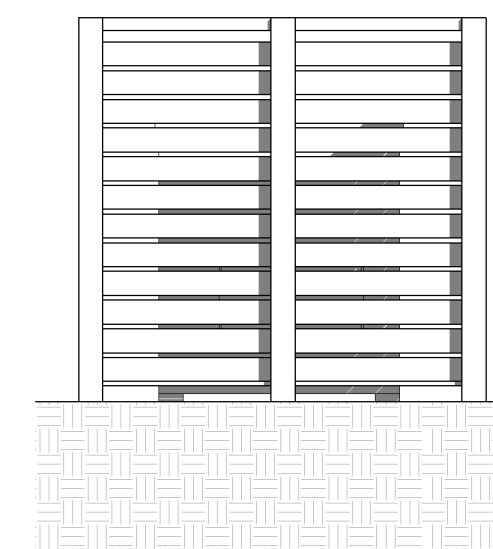
B2 TRASH ENCLOSURE - E1
1/4" = 1'-0"



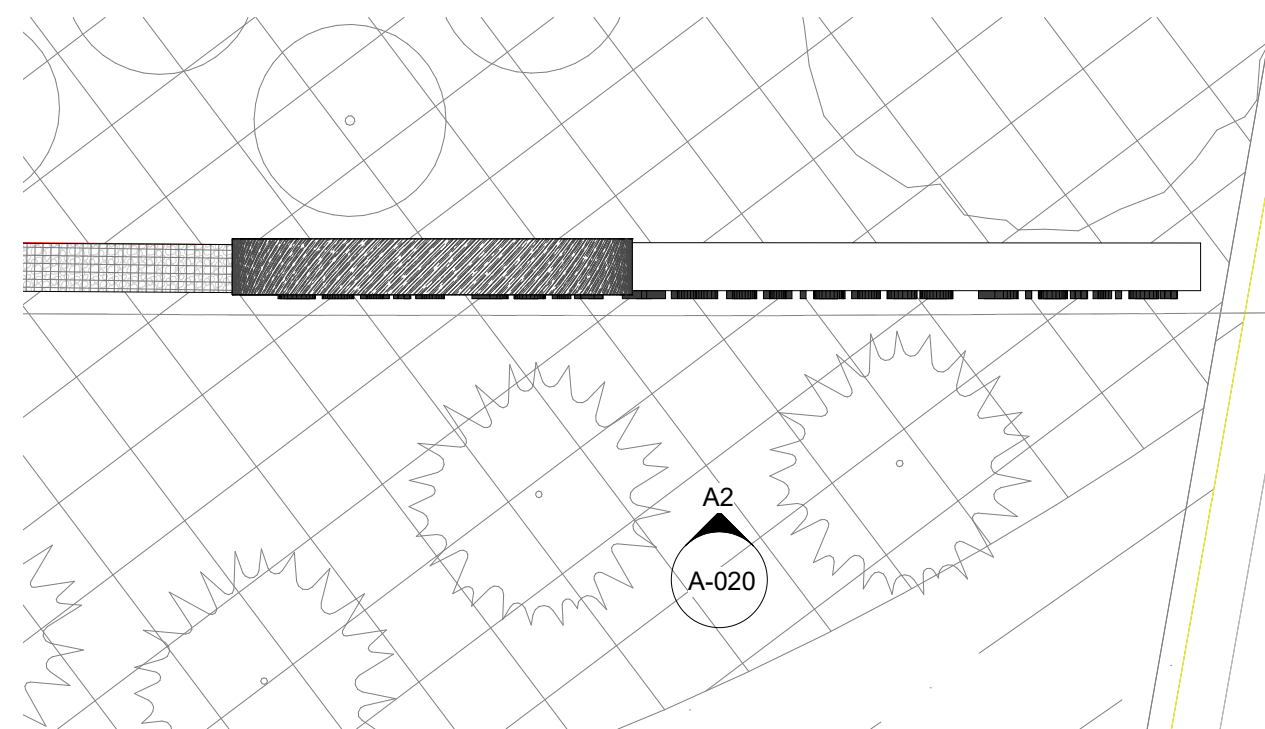
B3 TRASH ENCLOSURE - E2
1/4" = 1'-0"



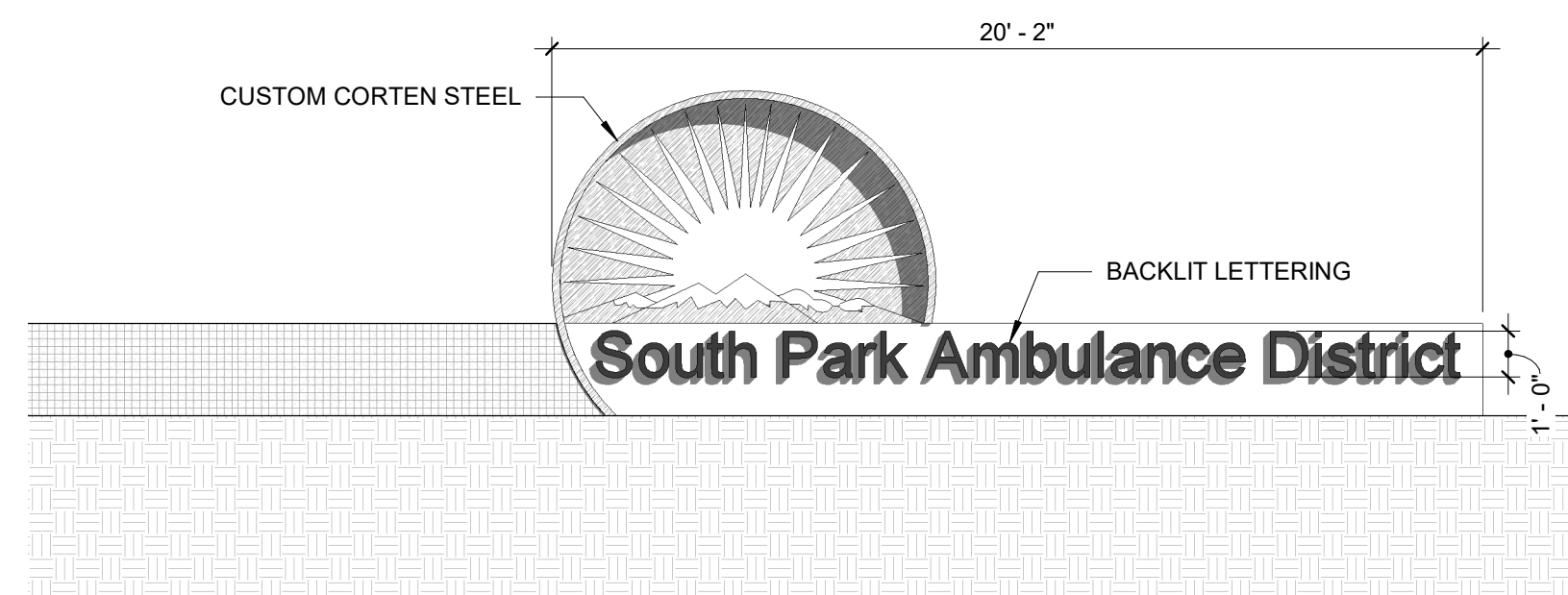
B4 TRASH ENCLOSURE - E3
1/4" = 1'-0"



B5 TRASH ENCLOSURE - E4
1/4" = 1'-0"

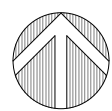


A1 MONUMENT SIGN PLAN
1/4" = 1'-0"

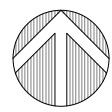


A2 MONUMENT SIGN ELEVATION
1/4" = 1'-0"

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C1 LEVEL 1 - Dimension Floor Plan
1/8" = 1'-0"



A1 LEVEL 1 - Annotation Floor Plan
1/8" = 1'-0"

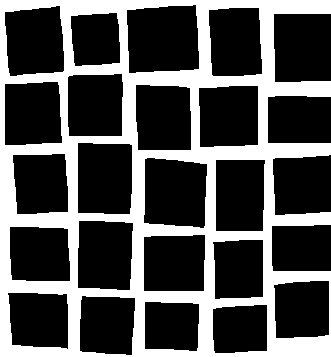
Plan General Notes

- DIMENSIONS FROM STRUCTURAL ELEMENTS ARE TO CENTERLINE OF COLUMNS AND BEAMS, U.N.O.
- DIMENSIONS LOCATING INTERIOR PARTITION WALLS ARE FROM FINISHED FACE, U.N.O.
- FOR INTERIOR FINISH INFORMATION REFER TO A-600 SERIES.
- ALL INTERIOR PARTITION DOORS TO BE LOCATED WITH HINGE SIDE 6" FROM FINISHED FACE OF ADJACENT WALL, OR (WHERE APPLICABLE) STRIKE SIDE 1'-6" FROM FINISHED FACE OF ADJACENT WALL, U.N.O. ON PLANS.
- REFER TO LIFE SAFETY PLANS AND WALL TYPES FOR INFORMATION ON RATED ASSEMBLIES.
- REFER TO SHEET A-710 FOR INTERIOR WALL TYPE DETAILS AND INFO.
- WALLS NOT DIMENSIONED THAT FALL ON GRIDLINES WILL BE CENTERED ON GRIDLINE
- REFER TO ENLARGED PLANS FOR DIMENSIONS NOT SHOWN ON FLOOR PLAN

Plan Legend

- NEW INTERIOR PARTITION WALL. REFER TO PARTITION SCHEDULE AND TYPES ON A-710 FOR CONSTRUCTION AND DETAILING.
- ABOVE FLOOR LINE
- CENTERLINE

Plan Keynotes



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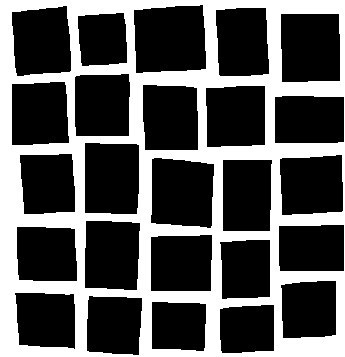
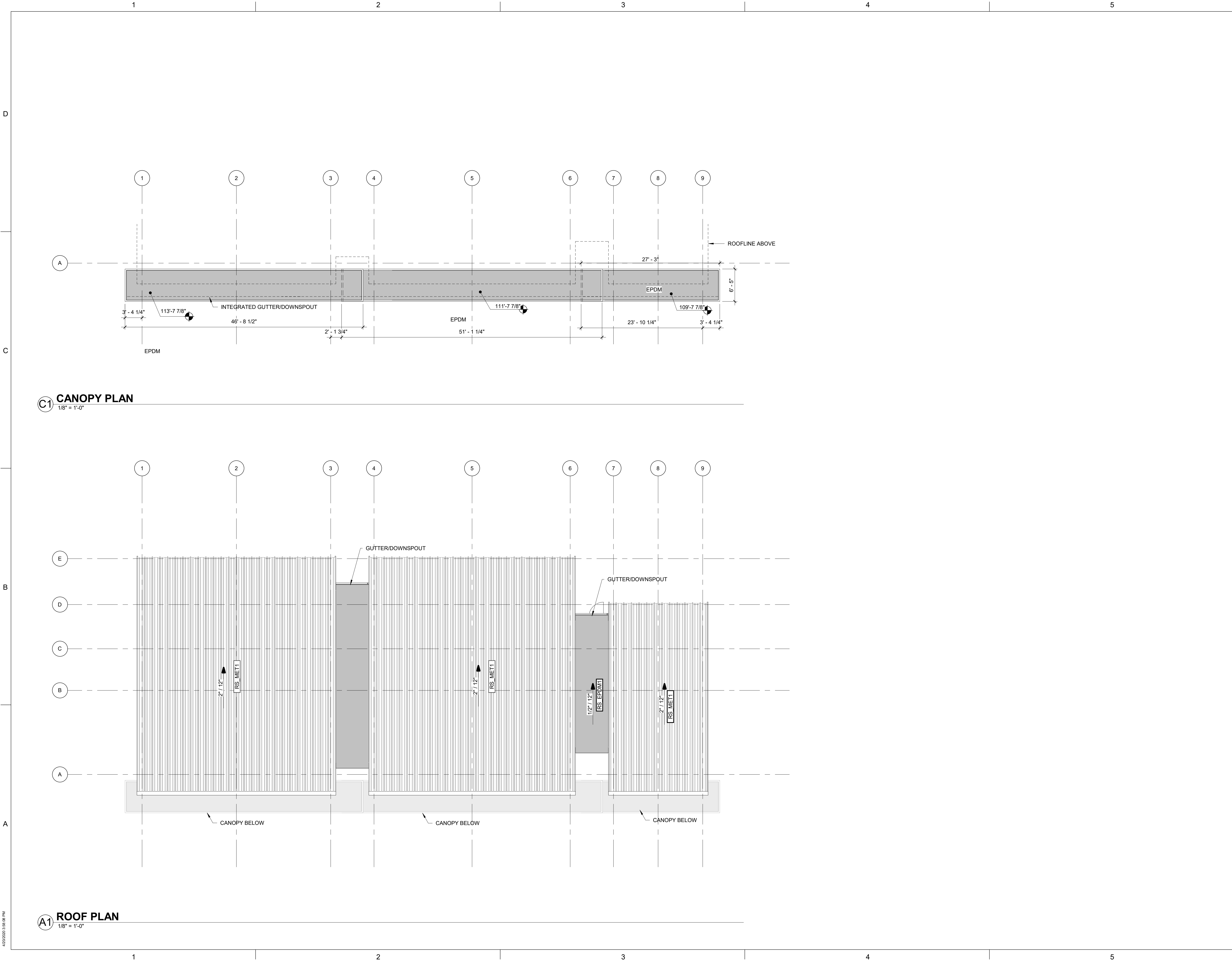
Sheet Title:
FLOOR PLANS - LEVEL ONE

Sheet Number:

A-101

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Sheet Information

Sheet Title:
ROOF PLAN

Sheet Number:

A-102

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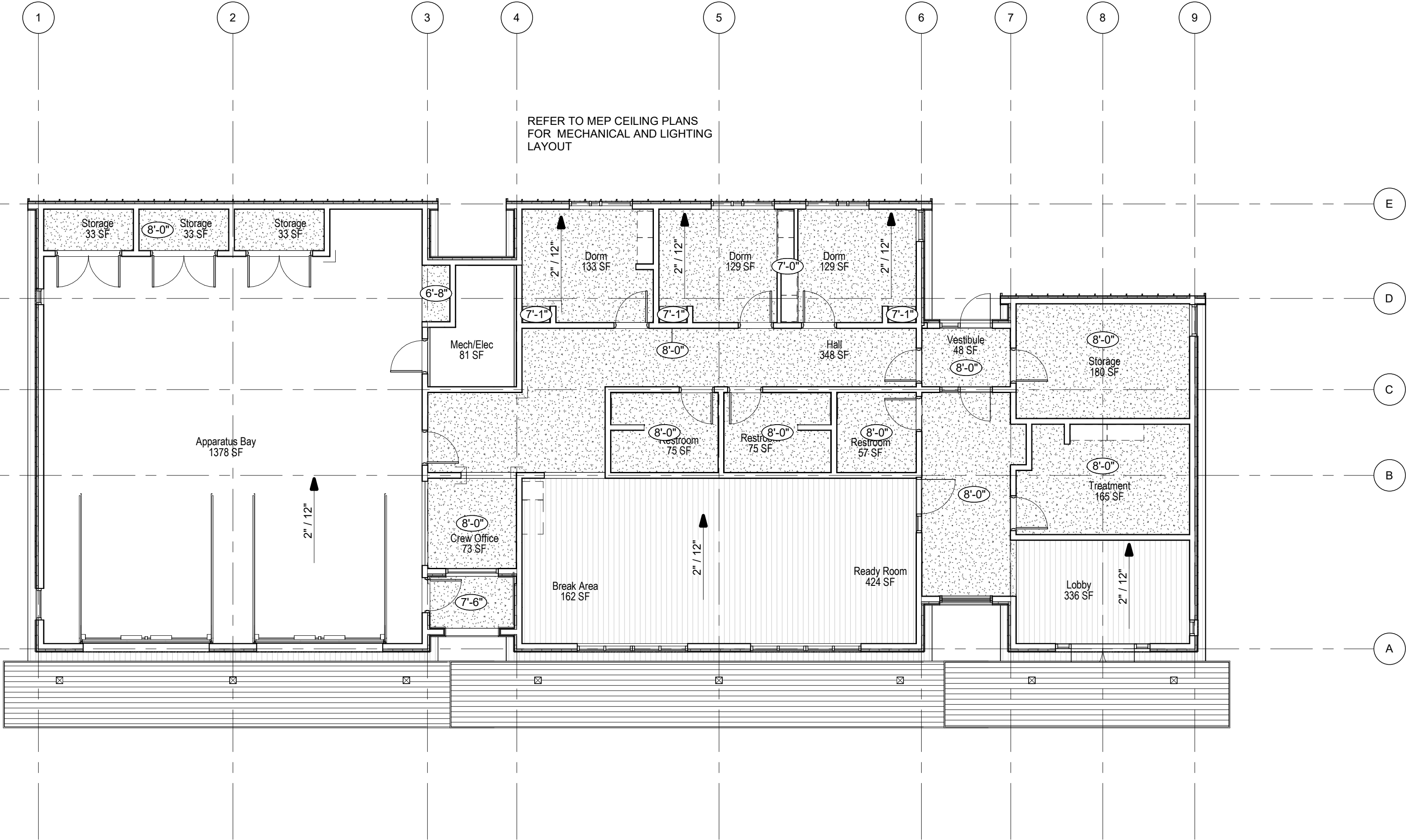
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1 REFLECTED CEILING PLAN - LEVEL 1
1/8" = 1'-0"

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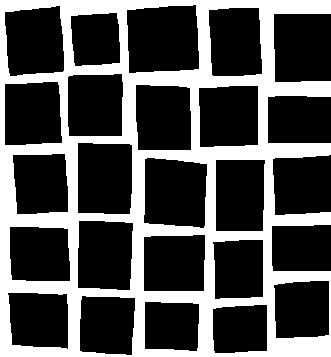
Reflected Ceiling Plan General Notes

- REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
- ALL DIMENSION ARE TO FINISHED FACE OF PARTITION OR SOFFIT AND CENTERLINE OF CEILING MOUNTED SUPPORT U.N.O.
- ALIGN CENTER OF CAN LIGHTS IN CENTER OF CEILING TILE IN BOTH DIRECTIONS U.N.O.
- CENTER CEILING GRID IN ROOM U.N.O.
- REFER TO INTERIORS SHEETS FOR CEILING FINISH TYPES.
- REFER TO ELECTRICAL DRAWINGS FOR LUMINAIRE SCHEDULE.
- LOCATE SPRINKLER HEADS TO WALL AND CEILING LAYOUT PER NFPA-13. REFER TO MECHANICAL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL DIRECTION. CENTER SPRINKLER HEADS IN TILES WHERE POSSIBLE.
- CENTER FIXTURES AND EQUIPMENT IN CEILING TILES, IN HALF TILES, OR IN SOFFITS AS SHOWN U.N.O.
- PROVIDE ACCESS PANELS WHERE REQUIRED TO PRVIDE ACCESS TO EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. COORDINATE LOCATIONS WITH ARCHITECT.

Reflected Ceiling Plan Symbol Legend

- | | |
|--|-------------------------------------|
| | MECHANICAL DIFFUSER (SUPPLY) |
| | MECHANICAL DIFFUSER (RETURN) |
| | EXIT SIGN |
| | GYPSUM BOARD CEILING |
| | TONGUE AND GROOVE WOOD CEILING |
| | CEILING HEIGHT ABOVE FINISHED FLOOR |
| | ABOVE FLOOR LINE |
| | CENTERLINE |
| | EXPANSION JOINT (EJ) |

Reflected Ceiling Plan Keynotes



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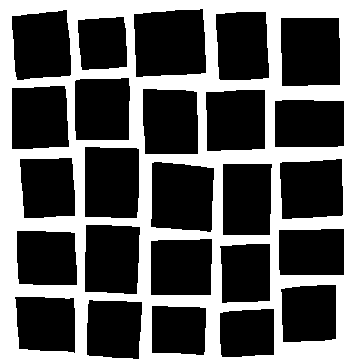
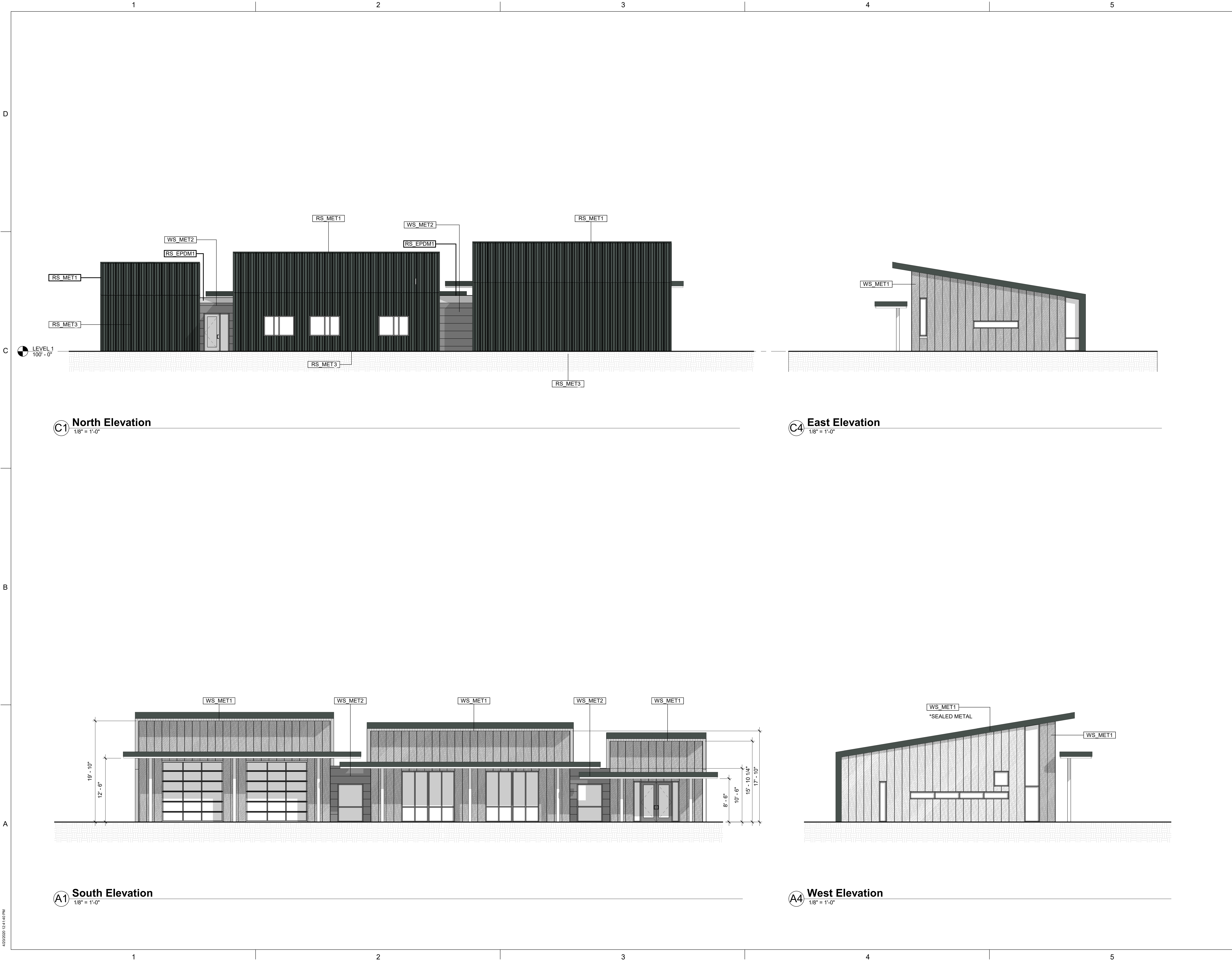
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REFLECTED CEILING PLAN -
LEVEL ONE

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A-151

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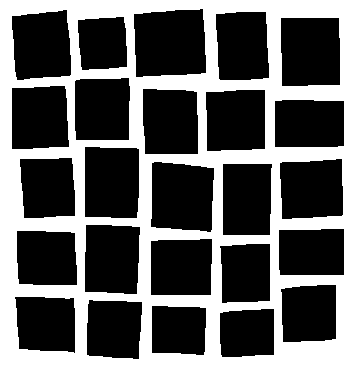
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EXTERIOR ELEVATIONS

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A-200

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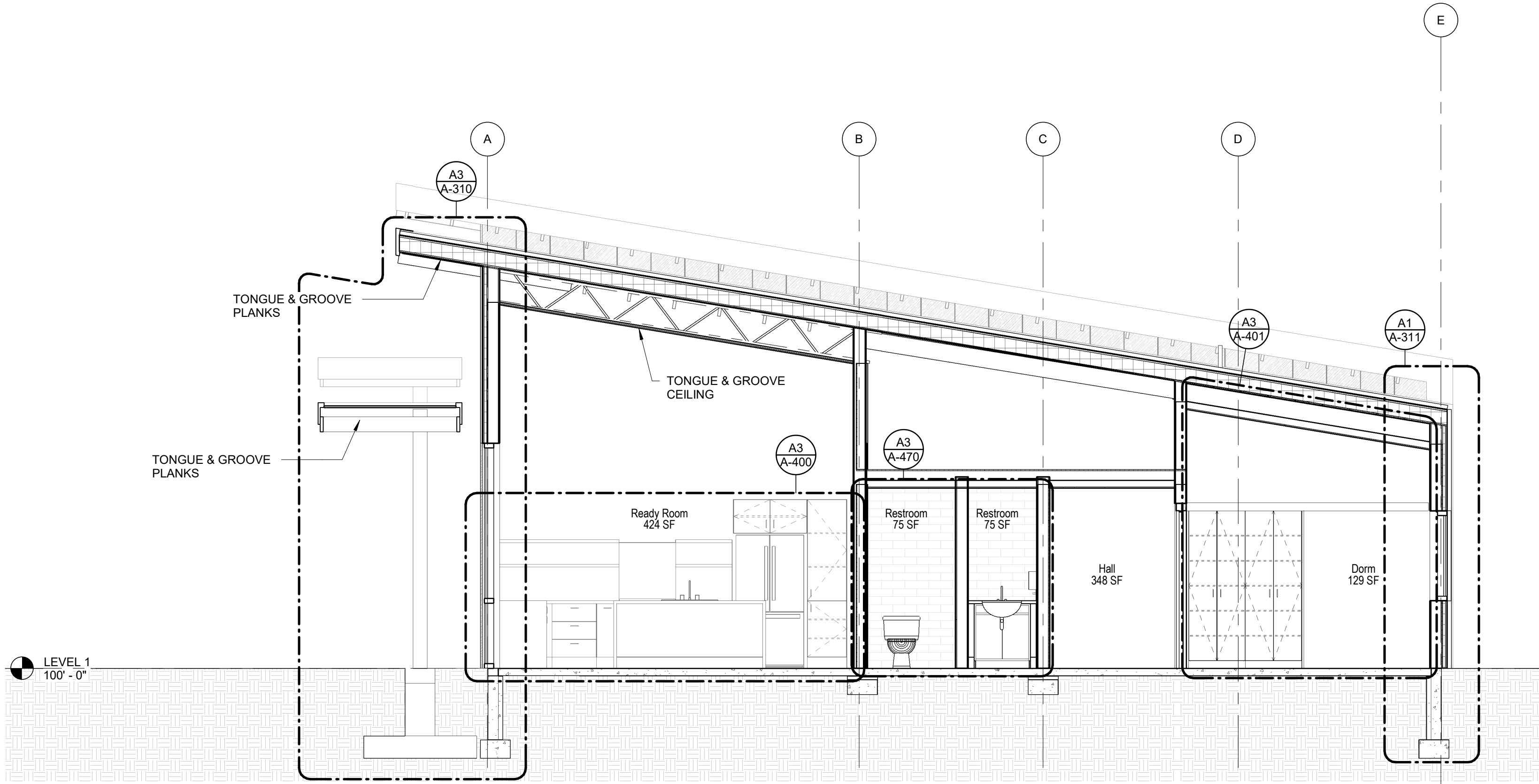
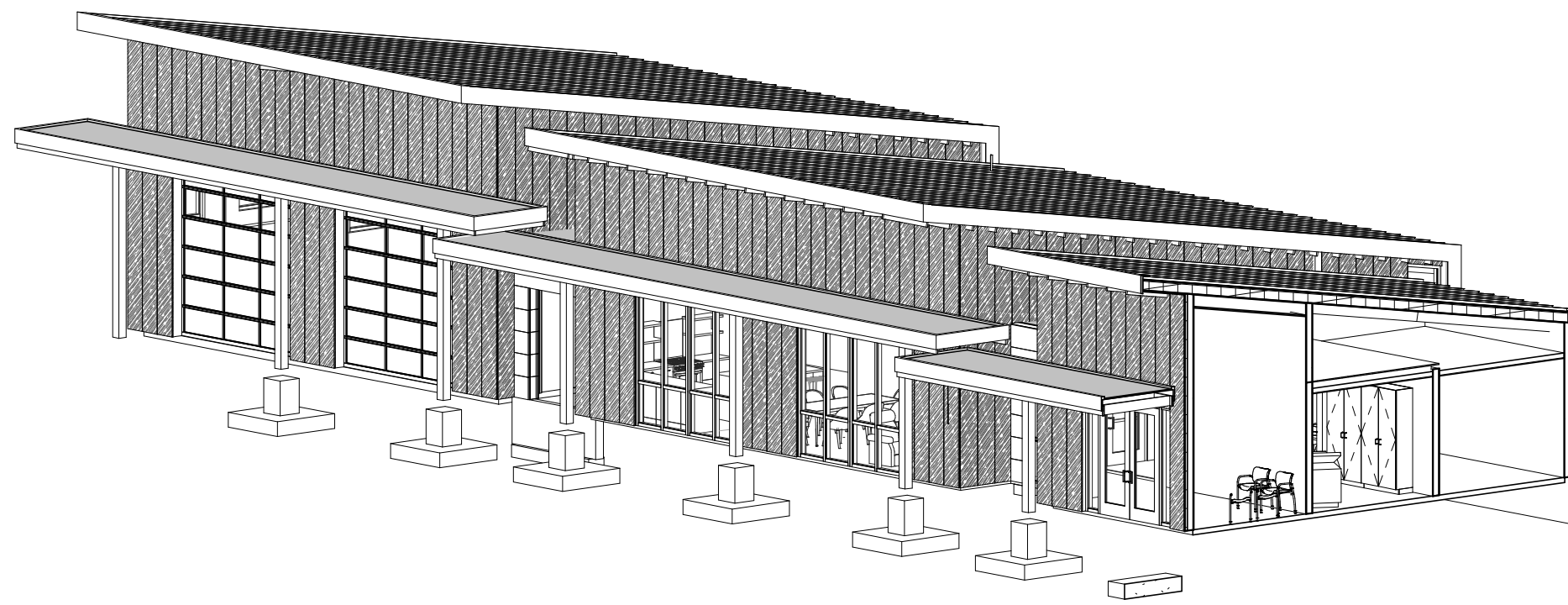
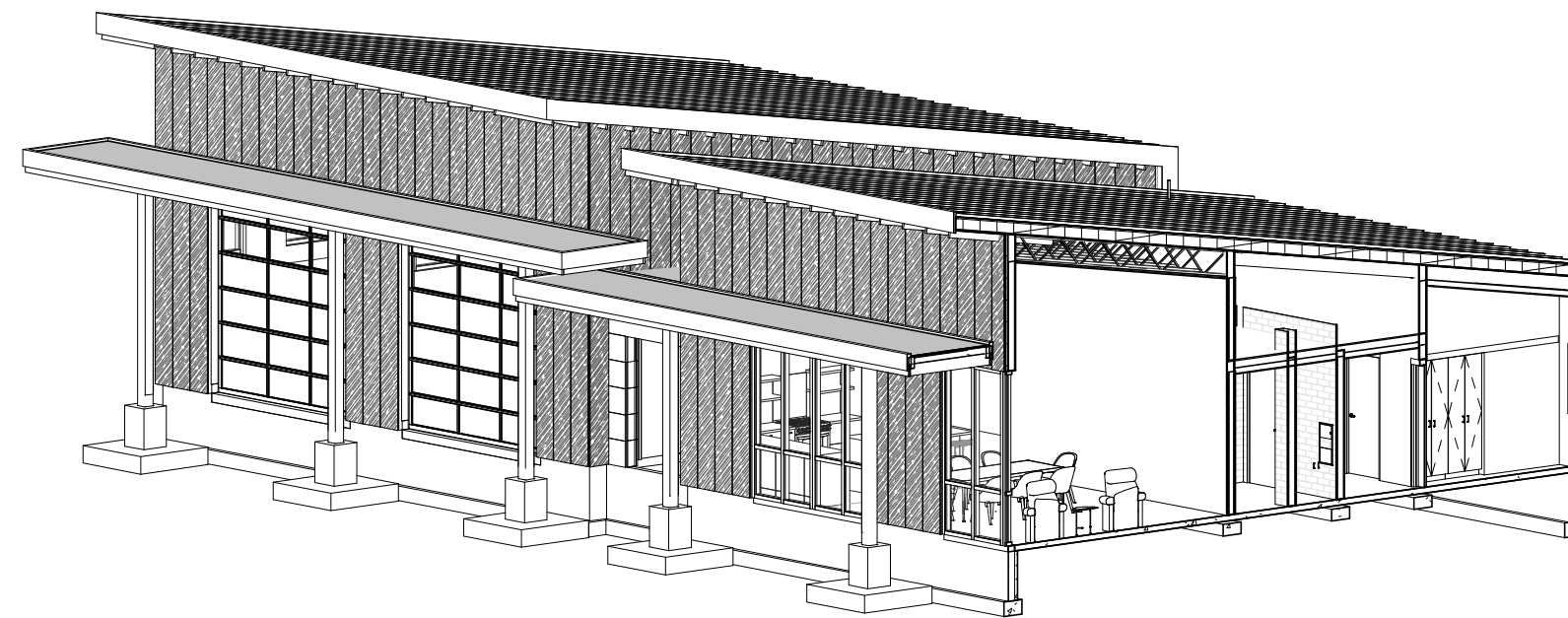
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BUILDING SECTIONS

Sheet Number:

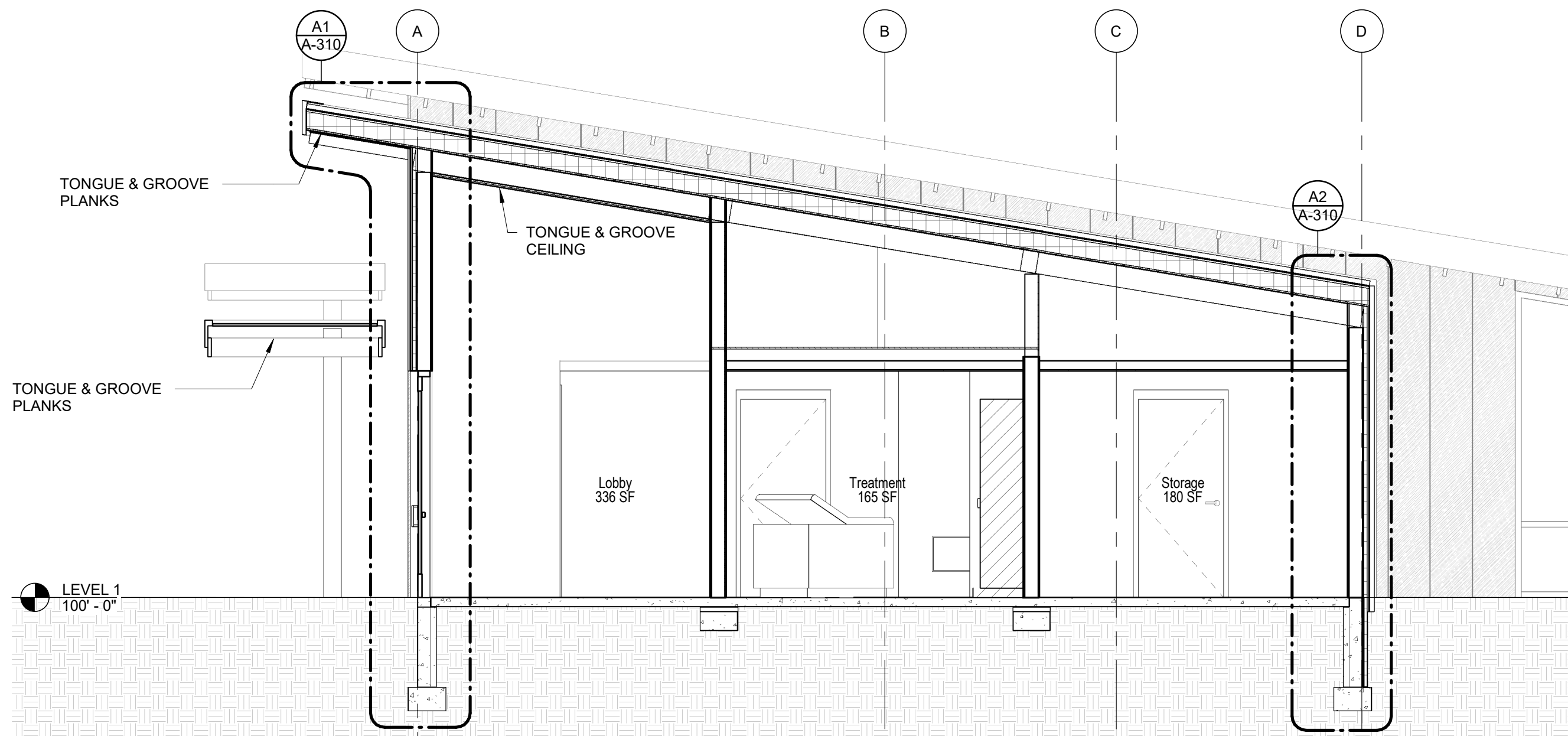
A-300

DPA Project: 19716.00

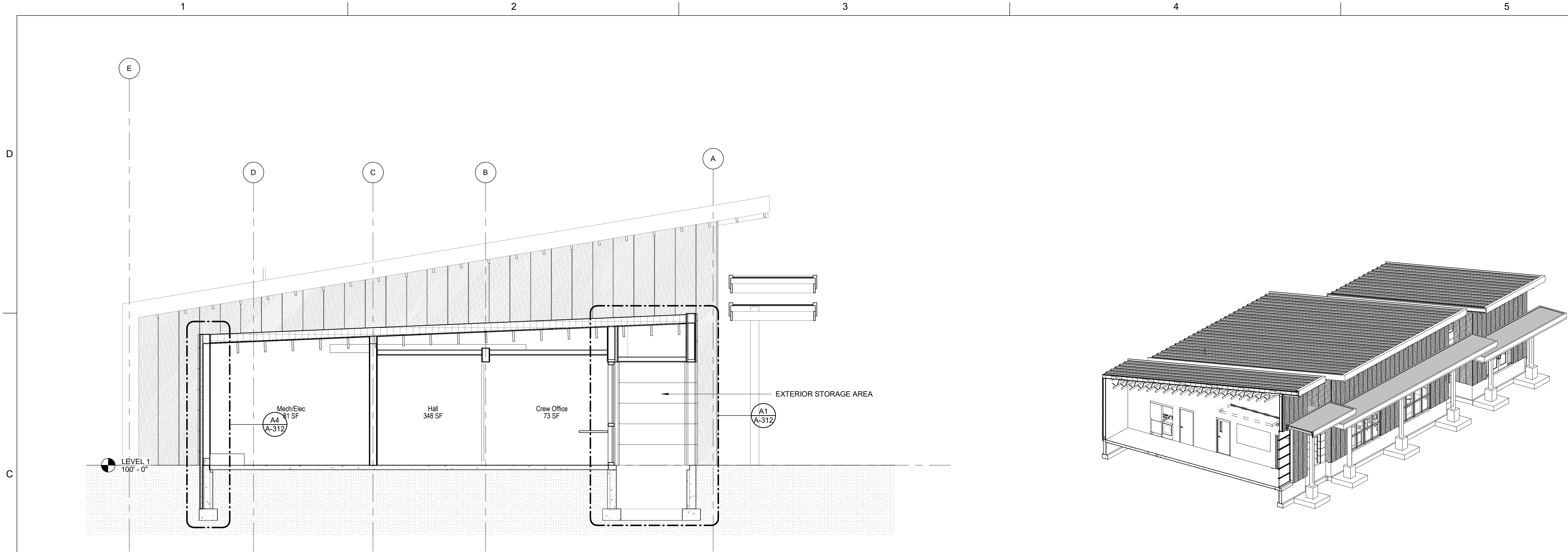
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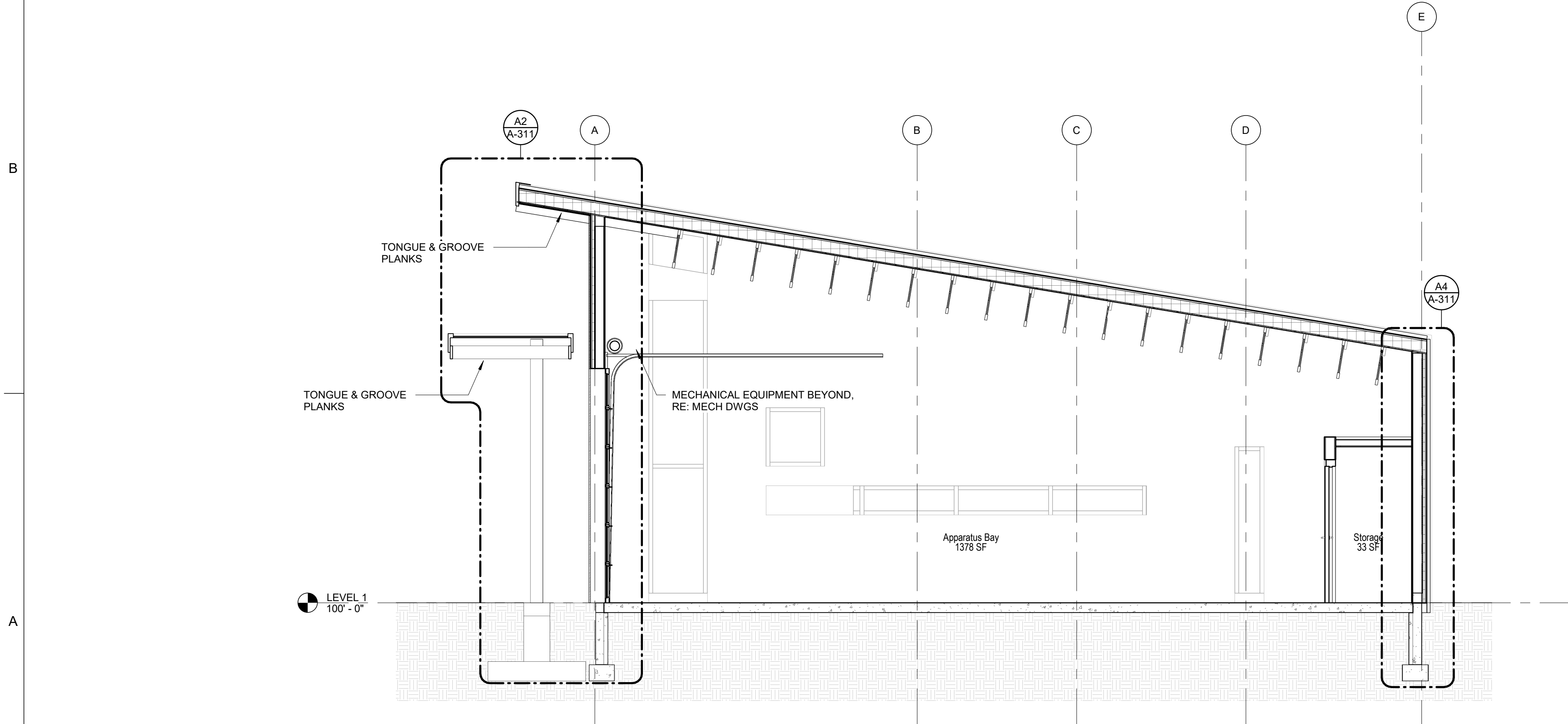
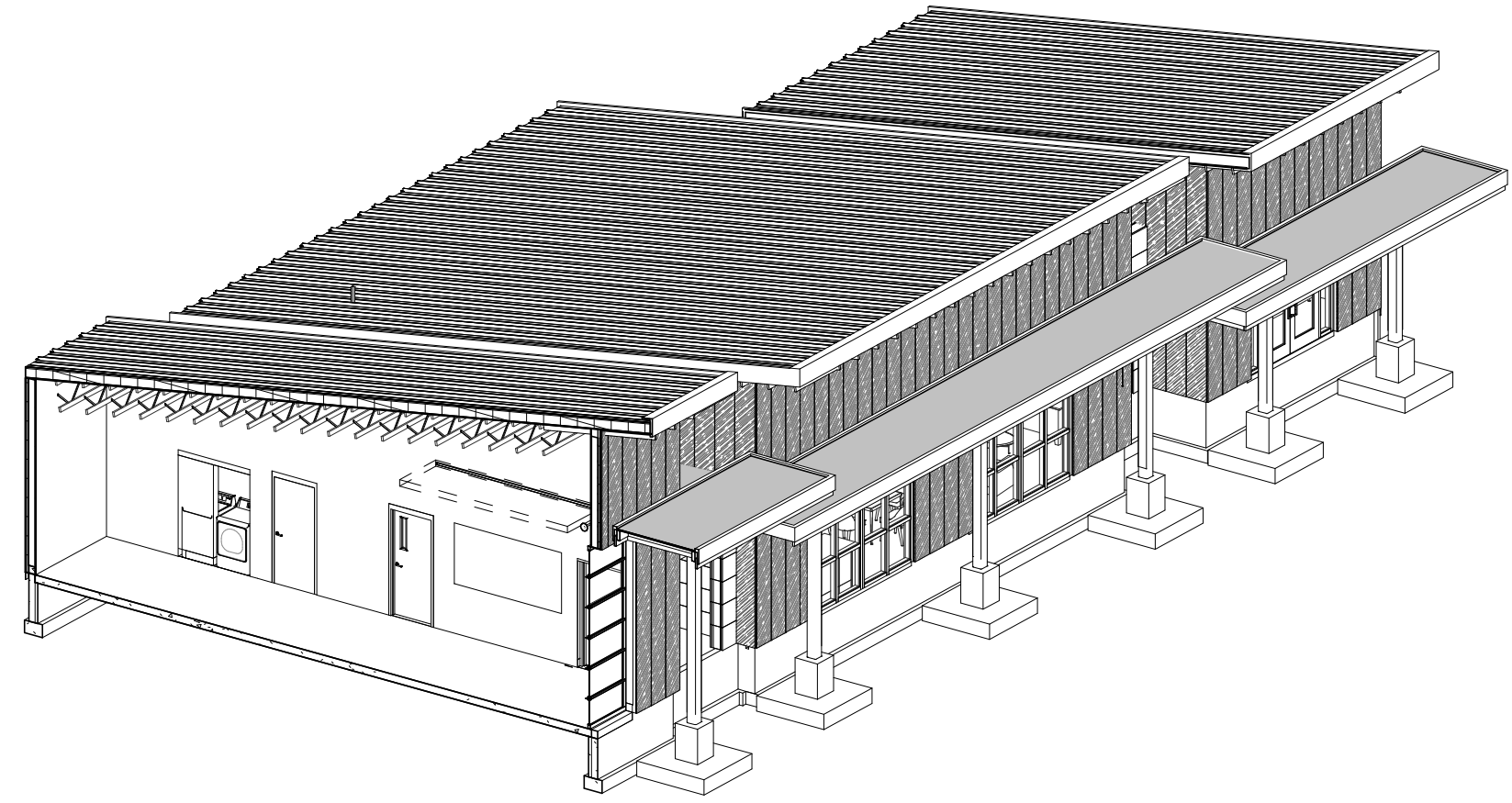
C1 LIVING AREA SECTION
1/4" = 1'-0"



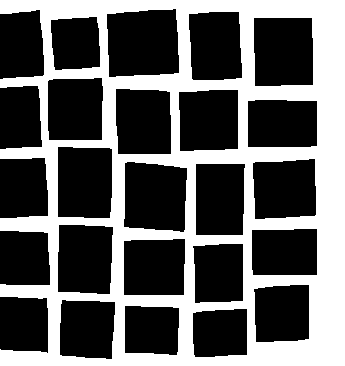
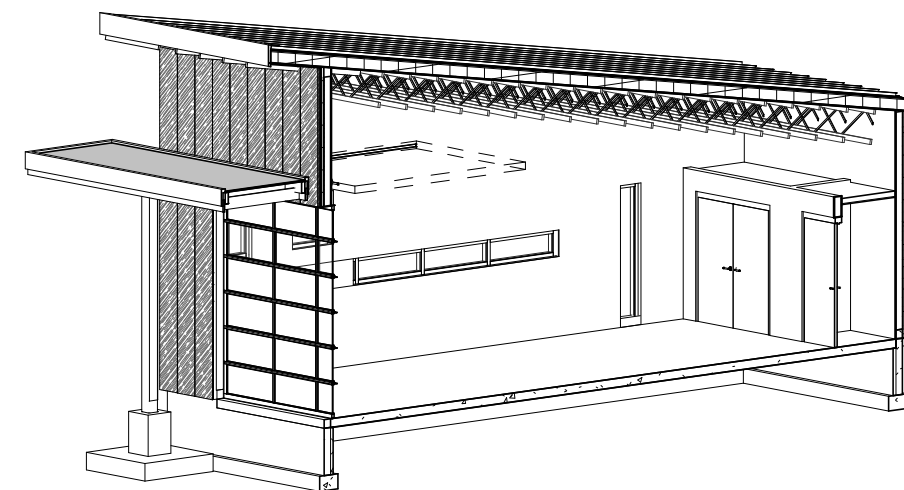
A1 TREATMENT AREA SECTION
1/4" = 1'-0"



C1 TRANSISTION SPACE SECTION
1/4" = 1'-0"



A1 APPARATUS BAY SECTION
1/4" = 1'-0"



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Project Information

SPAD - Hartsel Station
12855 Highway 24 Hartsel, CO 80449

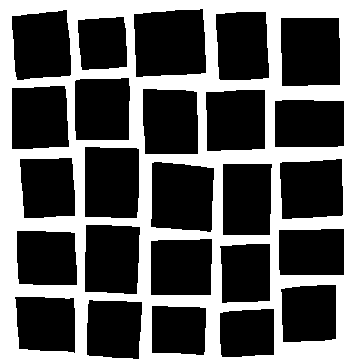
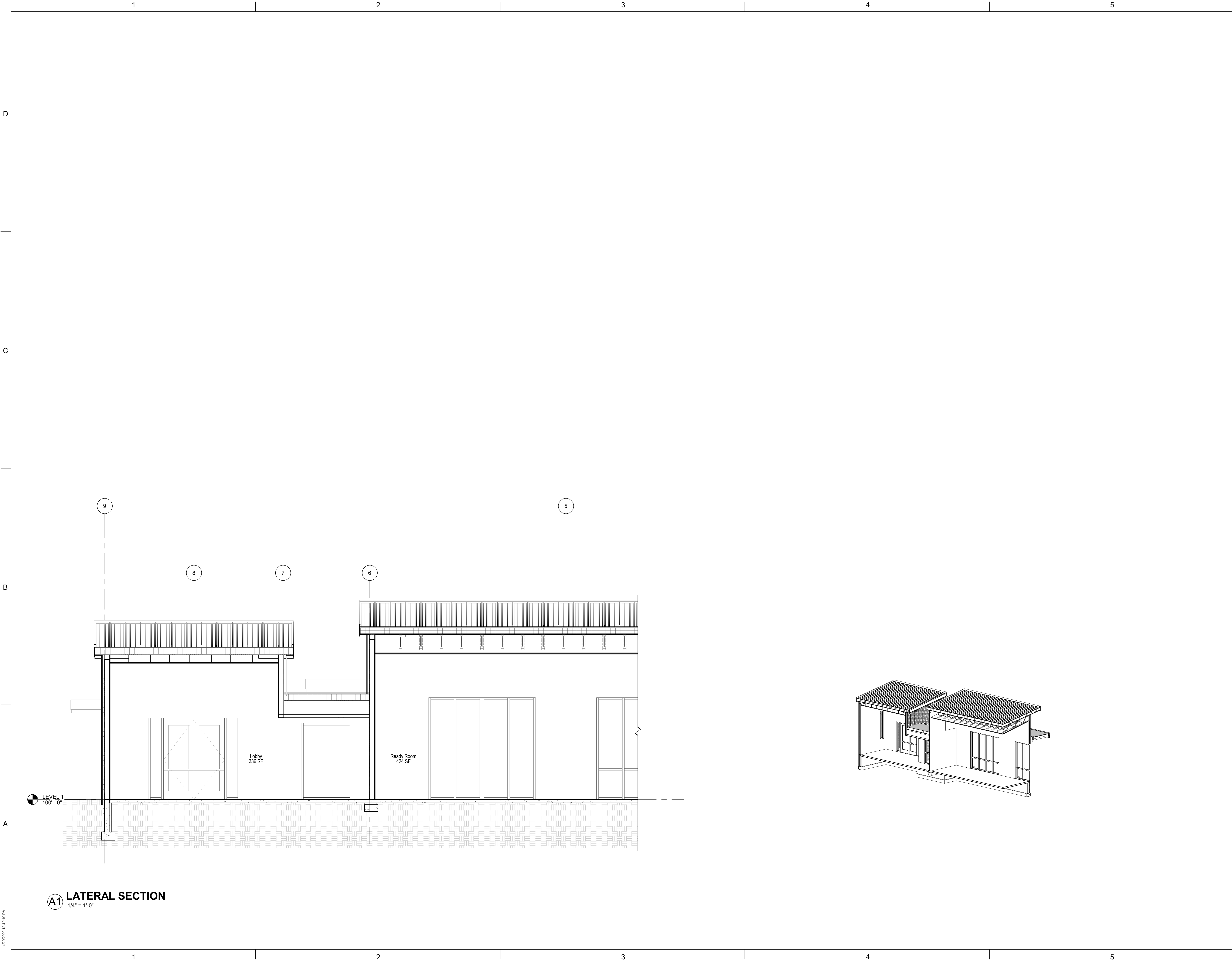
Sheet Information

Sheet Title:
BUILDING SECTIONS

Sheet Number:

A-301

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Project Information

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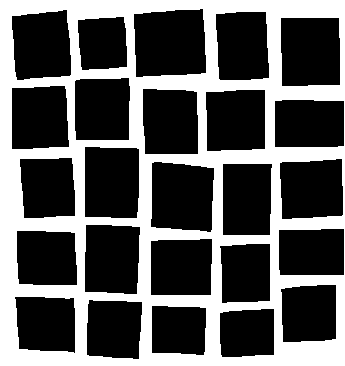
Sheet Information

Sheet Title:
BUILDING SECTIONS

Sheet Number:

A-302

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Project Information

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Sheet Information

Sheet Title:
WALL SECTIONS AND
PERSPECTIVES

Sheet Number:

A-310

DPA Project: 19716.00

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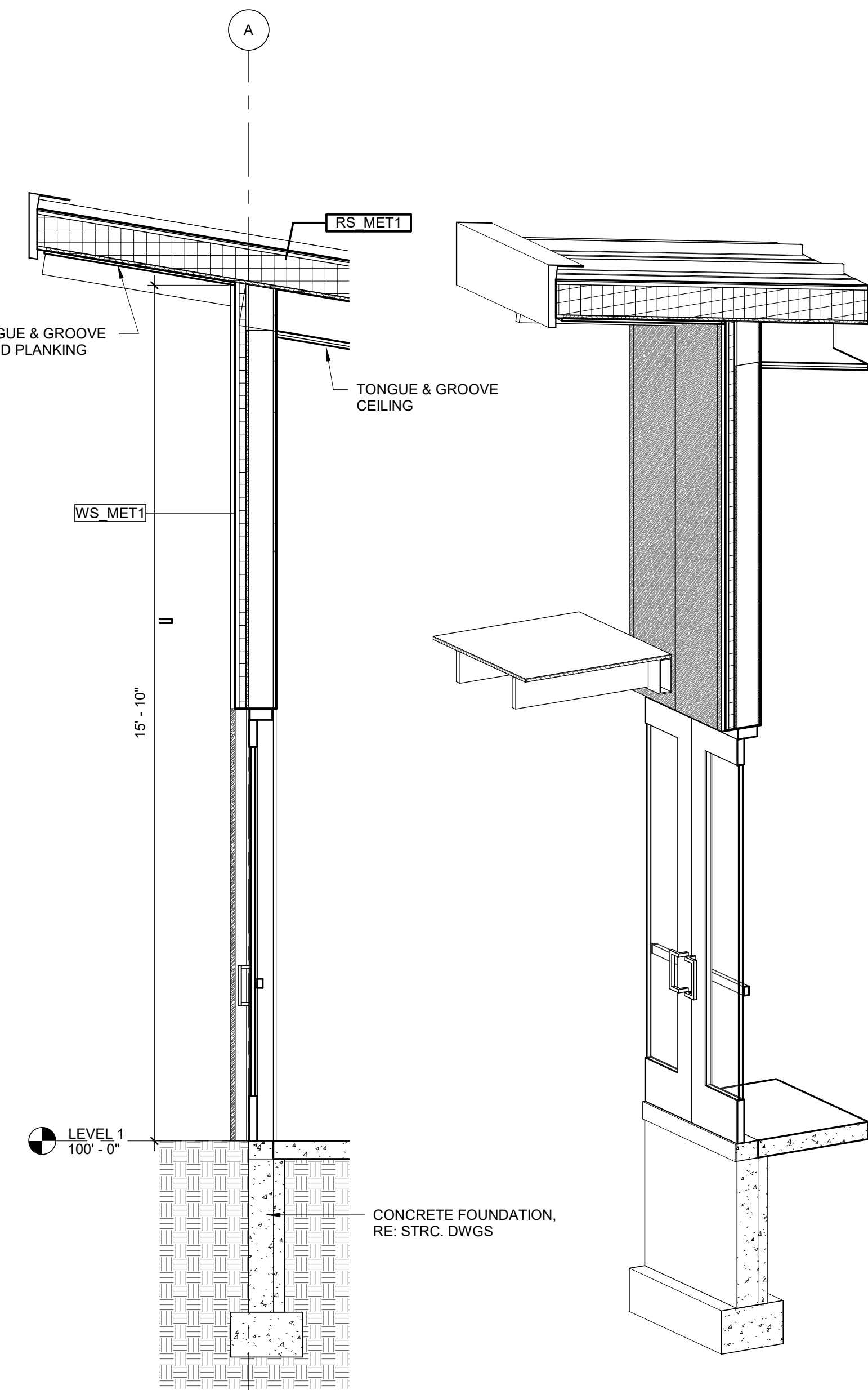
D

C

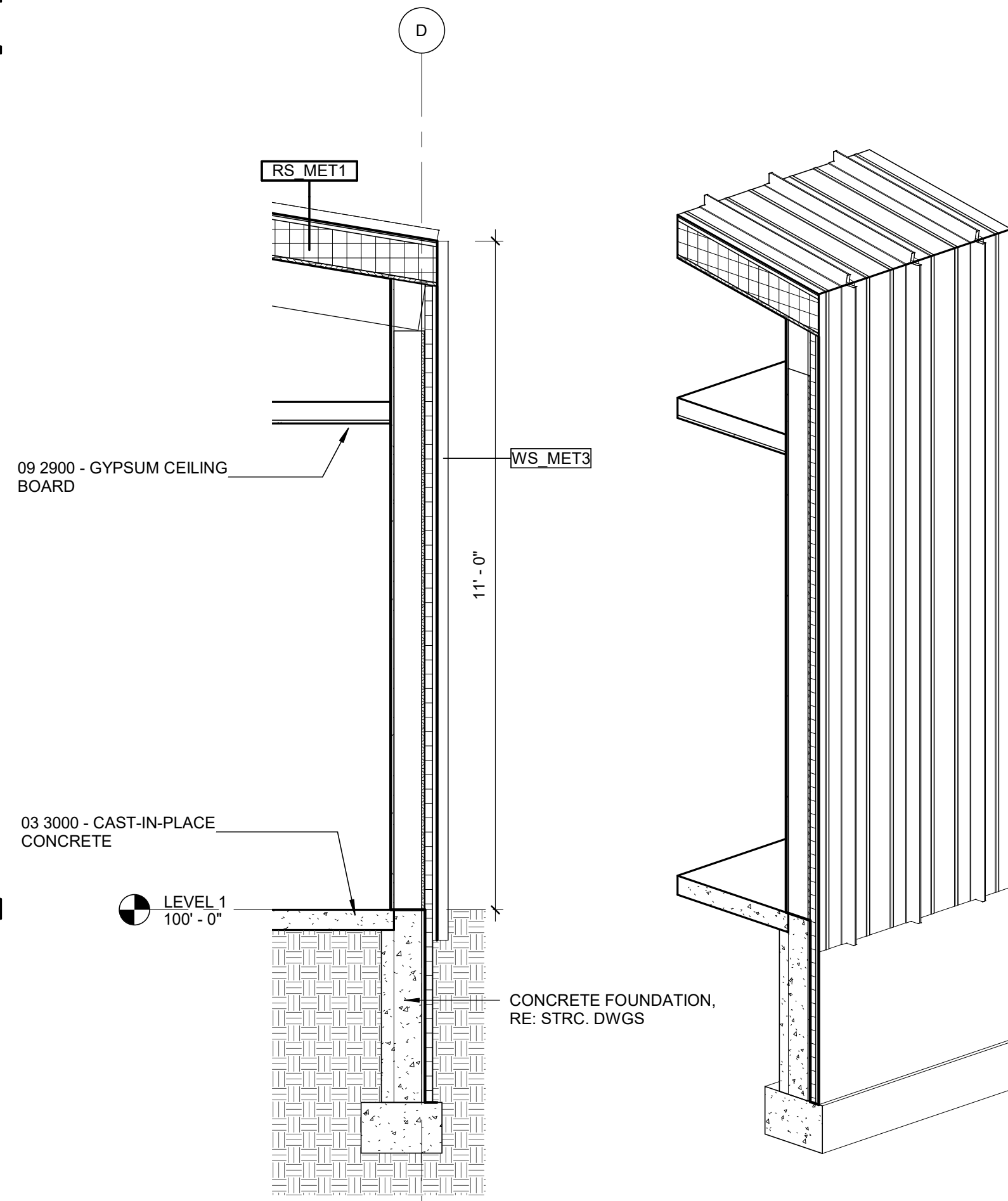
B

A

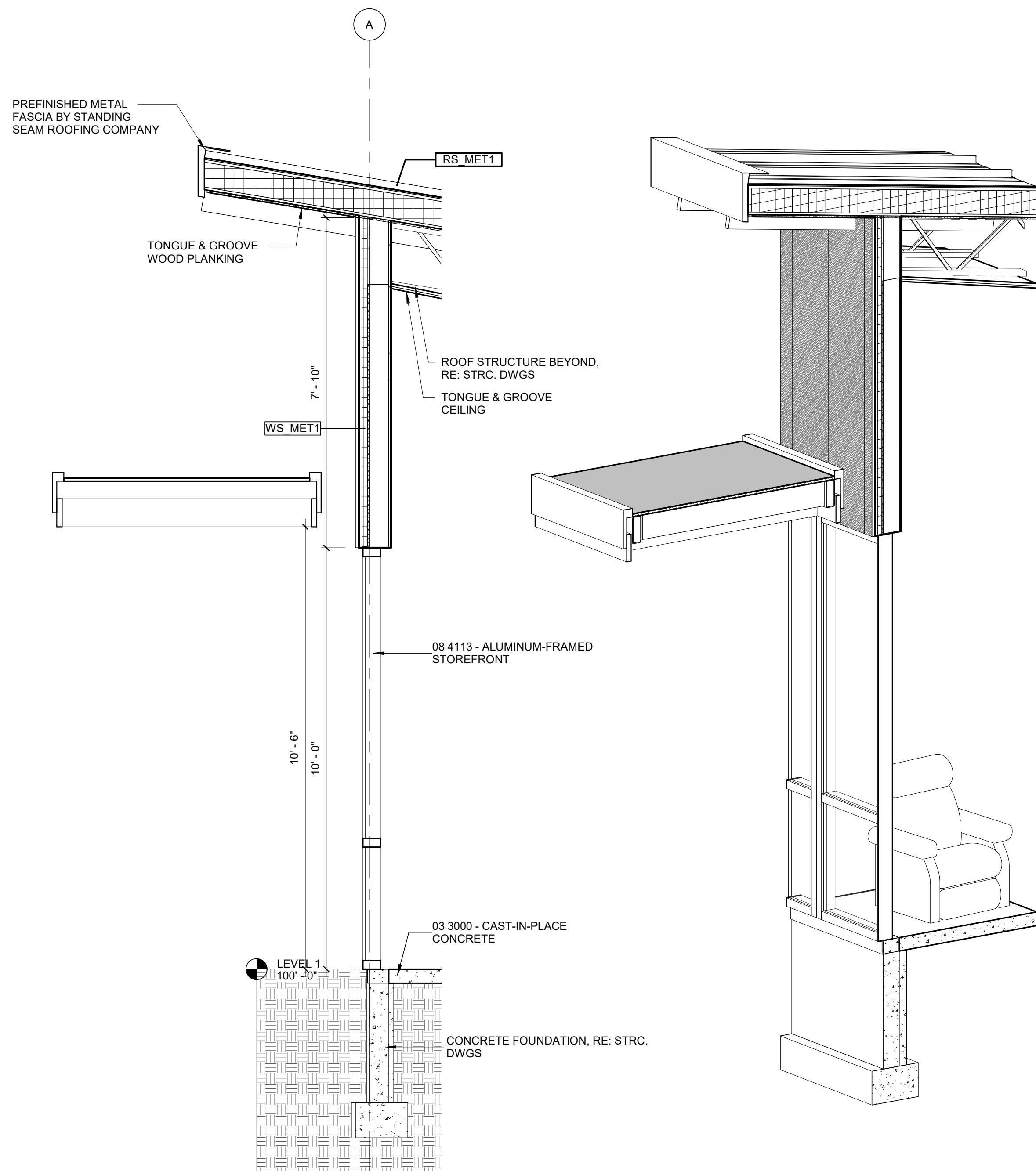
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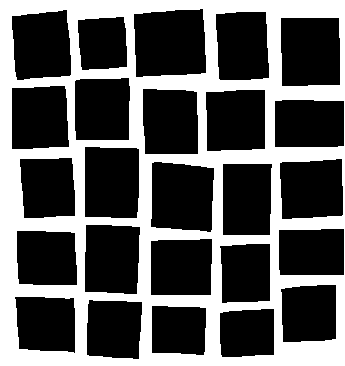
A1 TREATMENT AREA WALL SECTION 1
1/2" = 1'-0"



A2 TREATMENT AREA WALL SECTION 2
1/2" = 1'-0"



A3 LIVING AREA WALL SECTION 1
1/2" = 1'-0"



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Project Information

SPAD - Hartsel Station
12855 Highway 24 Hartsel, CO 80449

Sheet Information

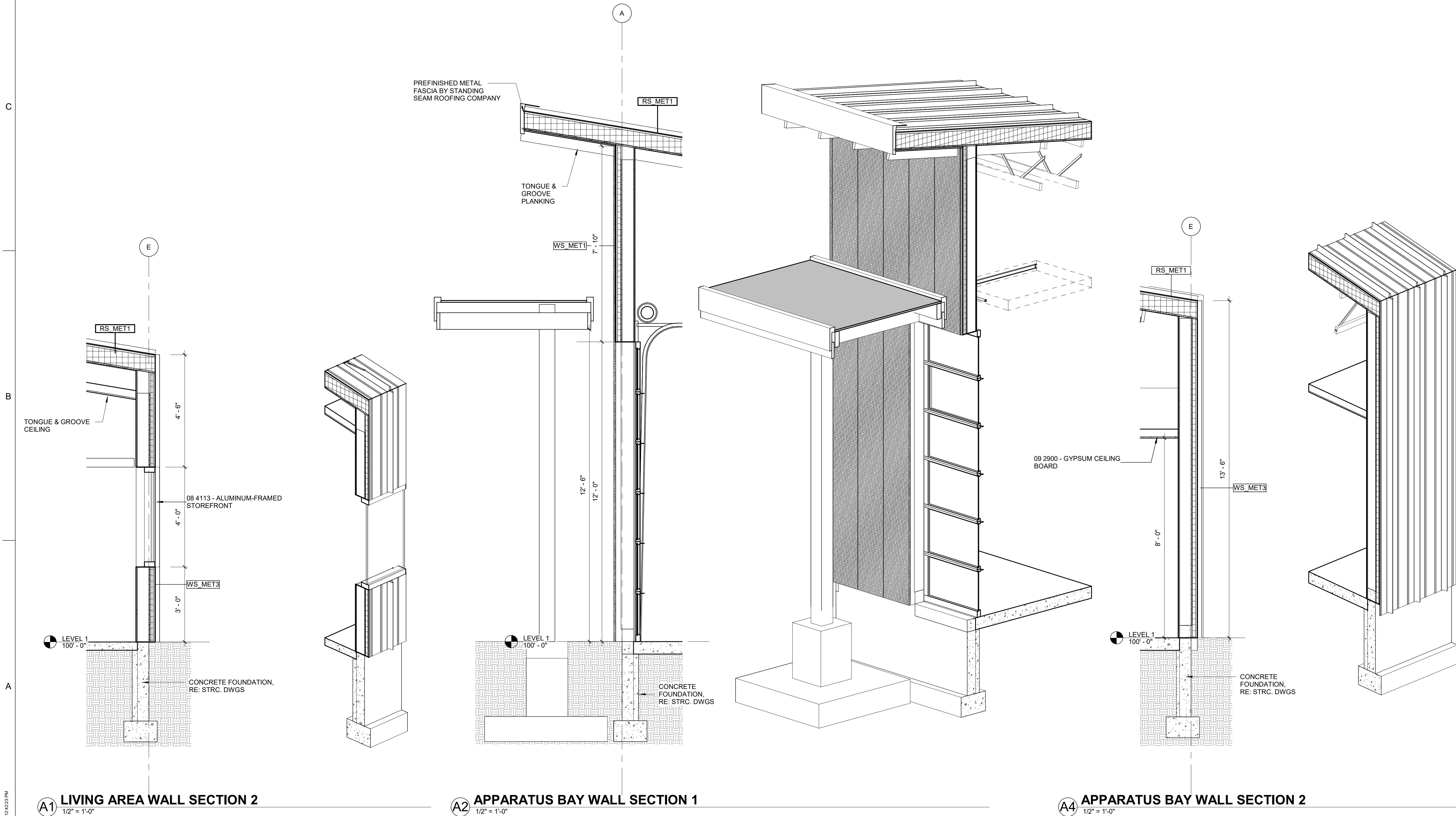
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WALL SECTIONS AND
PERSPECTIVES

Sheet Number:

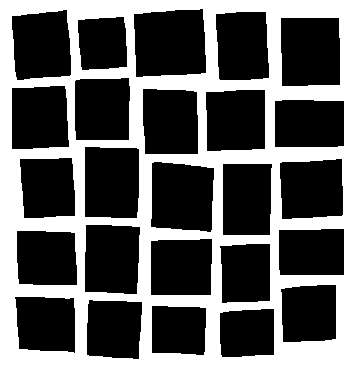
A-311

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Project Information

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12855 Highway 24 Hartsel, CO 80449

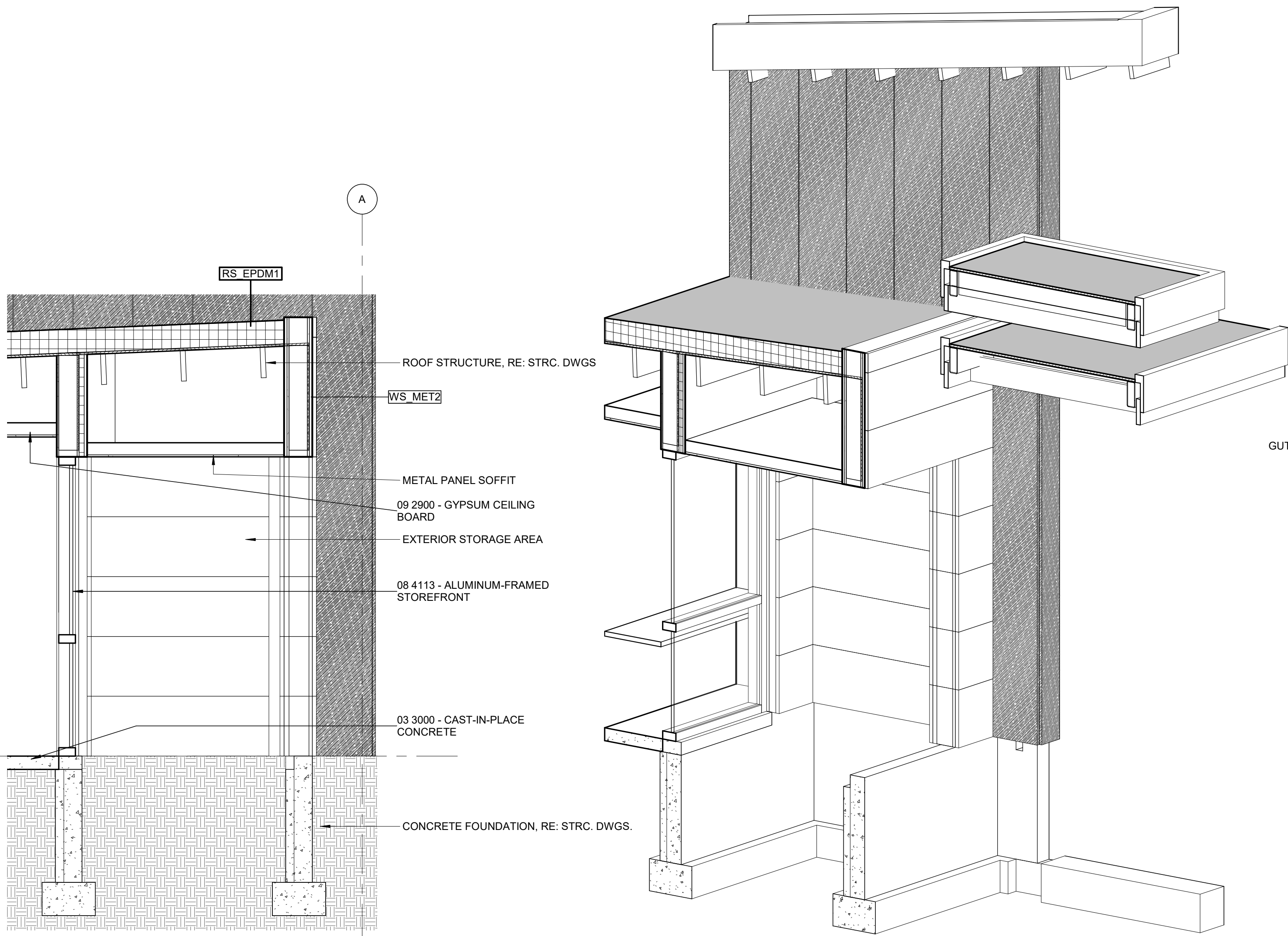
Sheet Information

Sheet Title:
WALL SECTIONS AND
PERSPECTIVES

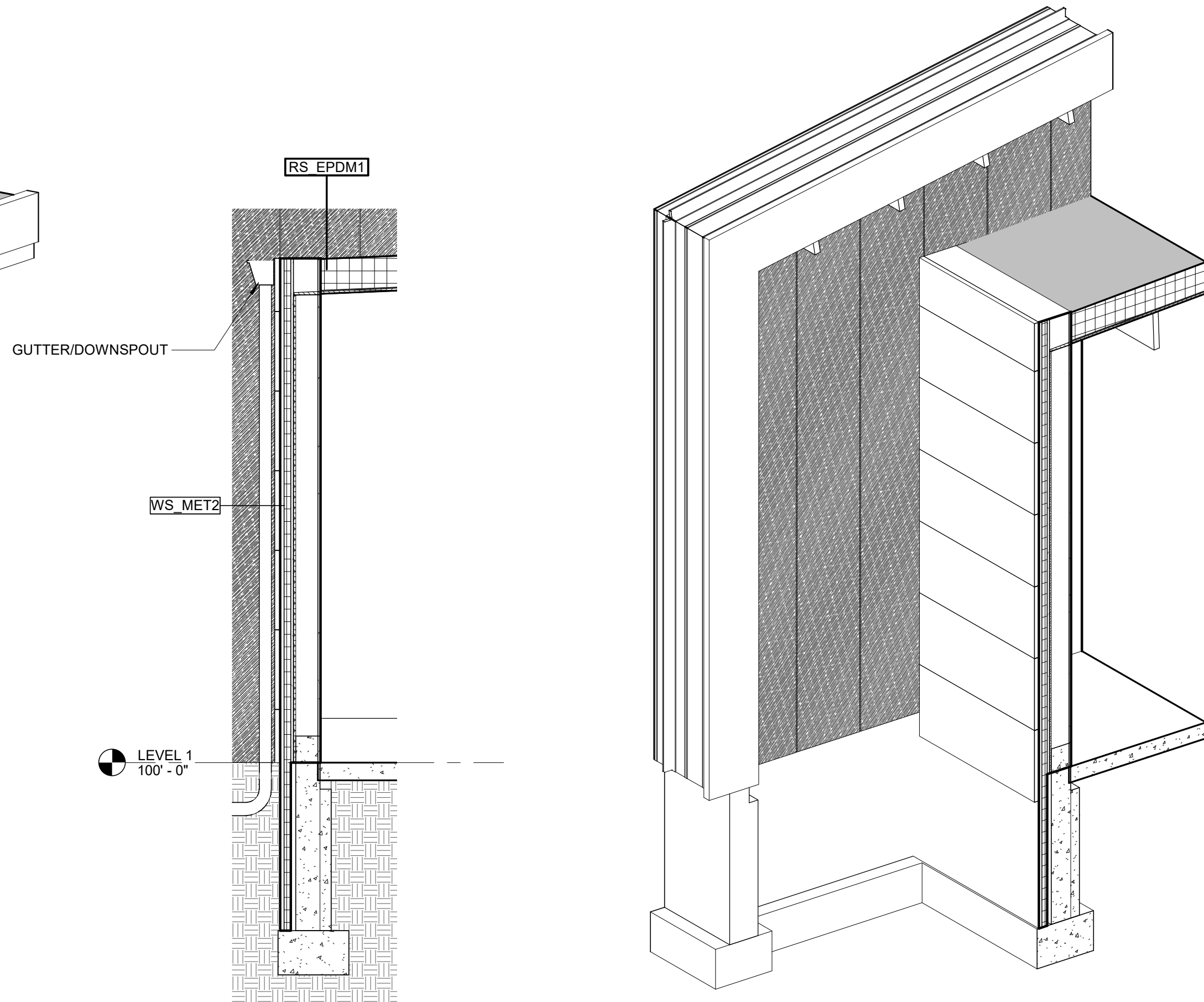
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A-312

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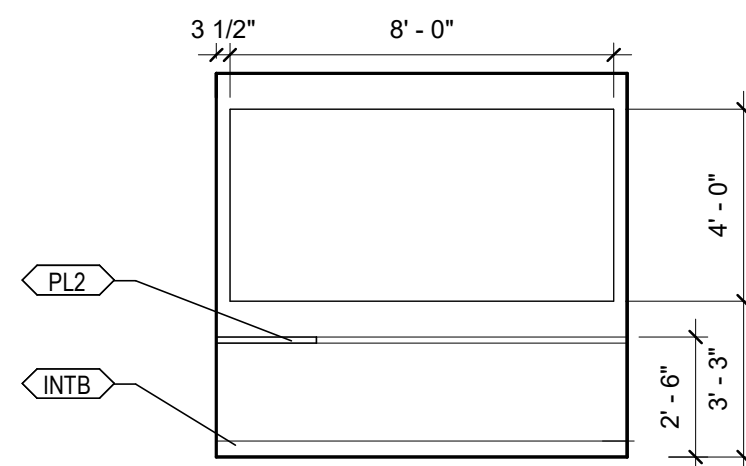


A1 TRANSISTION SPACE WALL SECTION 1
1/2" = 1'-0"

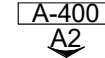


A4 TRANSISTION SPACE WALL SECTION 2
1/2" = 1'-0"

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(D3) CREW OFFICE WEST INTR ELEV
1/4" = 1'-0"




(D4) CREW OFFICE ENLARGED PLAN
1/4" = 1'-0"

- A. REFER TO ELEVATIONS FOR DOOR, DRAWER, AND SHELF CONFIGURATIONS.
- B. ALL COUNTERTOPS IN WET AREAS TO BE QTZ1, U.N.O.
ALL OTHER COUNTERTOP TO BE PL2, U.N.O.
ALL PLAM CABINETS TO BE PL1.
- C. REFER TO INTERIOR FINISH DRAWINGS FOR FINISH INFORMATION.
- D. PROVIDE RUBBER COVE BASE AT ALL CASEWORK KICKSPACES, U.N.O.
- E. COORDINATE ALL EQUIPMENT PLANS AND ELECTRICAL DOCUMENTS FOR LOCATION OF ALL REQUIRED GROMMETS.
- F. FIELD VERIFY DIMENSIONS OF WALL LAYOUTS BEFORE FABRICATION OF CASEWORK.
- G. PROVIDE FINISHED END PANELS AT ALL EXPOSED SIDES OF CASEWORK.
- H. ALL QUARTZ COUNTERTOPS TO HAVE EASED EDGE AND BE FINISHED ON ALL EXPOSED SIDES AND BOTTOM. MITER CORNER AT WATERFALL EDGE TYPE.
- I. ALL PLAM COUNTERTOPS TO HAVE 3MM PVC EDGE TO MATCH

A.  EQUIPMENT TAG. SEE Q-121.A & Q-121.B FOR EQUIPMENT SCHEDULE

B.  FINISH TAG. SEE A-600 FOR FINISH LEGEND AND NOTES

C.  LIGHTING TAG. SEE AL SERIES FOR ARCHITECTURAL LIGHTING

BASE CABINETS:

The diagram shows a rectangular box representing a cabinet code. The top part of the box contains the text "BODG2". Below this, the box is divided into three vertical sections, each containing a number: "36", "36", and "24". Four arrows originate from the box and point to labels on the right:

- An arrow points from the "BODG2" text to the label "STYLE CODE".
- An arrow points from the first "36" to the label "DEPTH OF CABINET".
- An arrow points from the second "36" to the label "HEIGHT OF COUNTERTOP".
- An arrow points from the "24" to the label "WIDTH OF CABINET".

Diagram illustrating the components of the BODG2 code:

- BODG2**: STYLE CODE
- 36**: DEPTH OF CABINET
- 36**: HEIGHT OF CABINET
- 24**: WIDTH OF CABINET

| | |
|-----|--|
| B | BASE CABINET WITH DOORS |
| BCB | BLIND CORNER BASE CABINET WITH MAGIC CORNER INSERT |
| BD | BASE CABINET WITH DRAWERS |
| BF | BASE FLOATING CABINET |
| BS | SINK BASE CABINET |
| BSS | BASE CABINET WITH SPICE RACK INSERT |
| BWP | BASE WASTE PULL OUT WITH WASTE BIN INSERT |
| T | TALL CABINET WITH DOORS |
| W | WALL CABINET WITH DOORS |
| WR | WALL CABINET OVER REFRIGERATOR WITH DOORS |



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Project Information

SPAD - Hartsel Station
12855 Highway 24 Hartsel, CO 80449

Sheet Title:
ENLARGED PLANS, INTERIOR
ELEVATIONS AND
RENDERINGS

Sheet Number:

A-400

DPA Project: 19716.00

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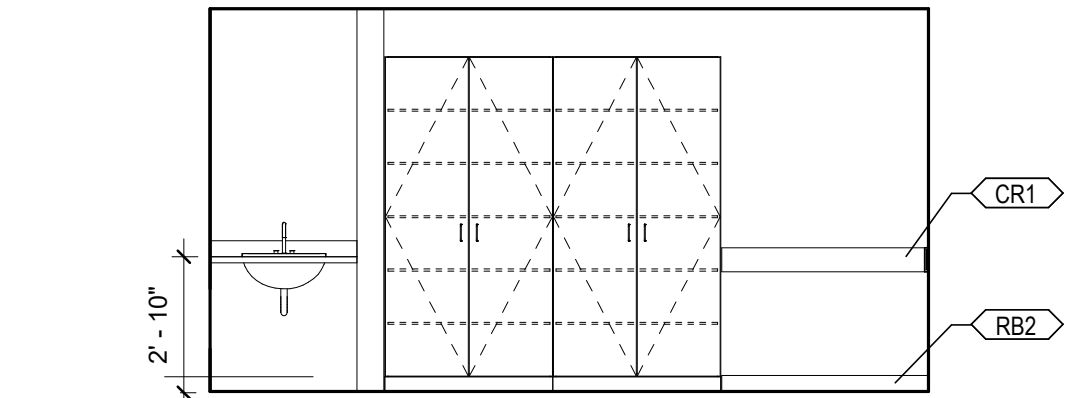
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C

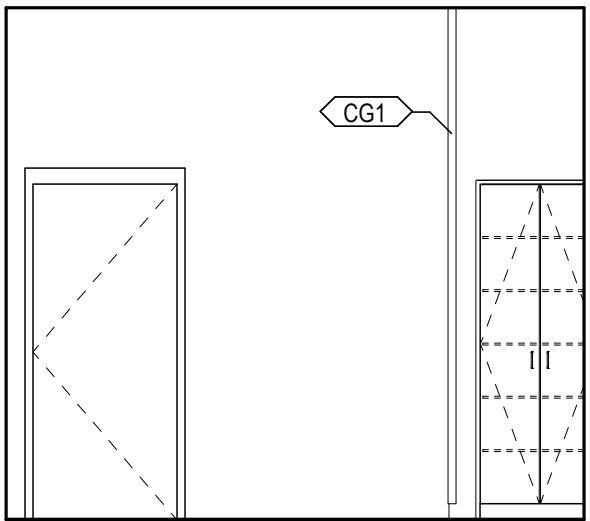
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A

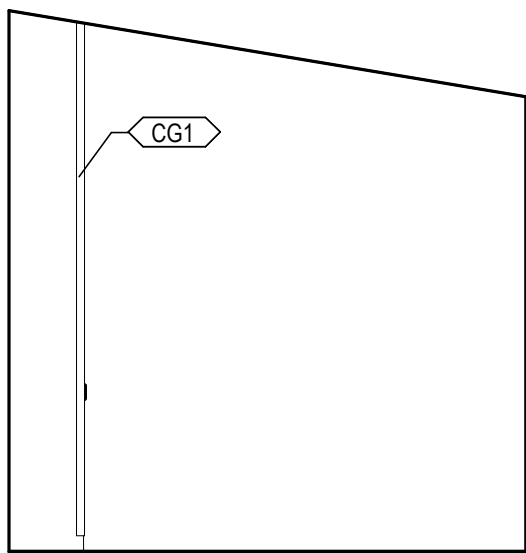
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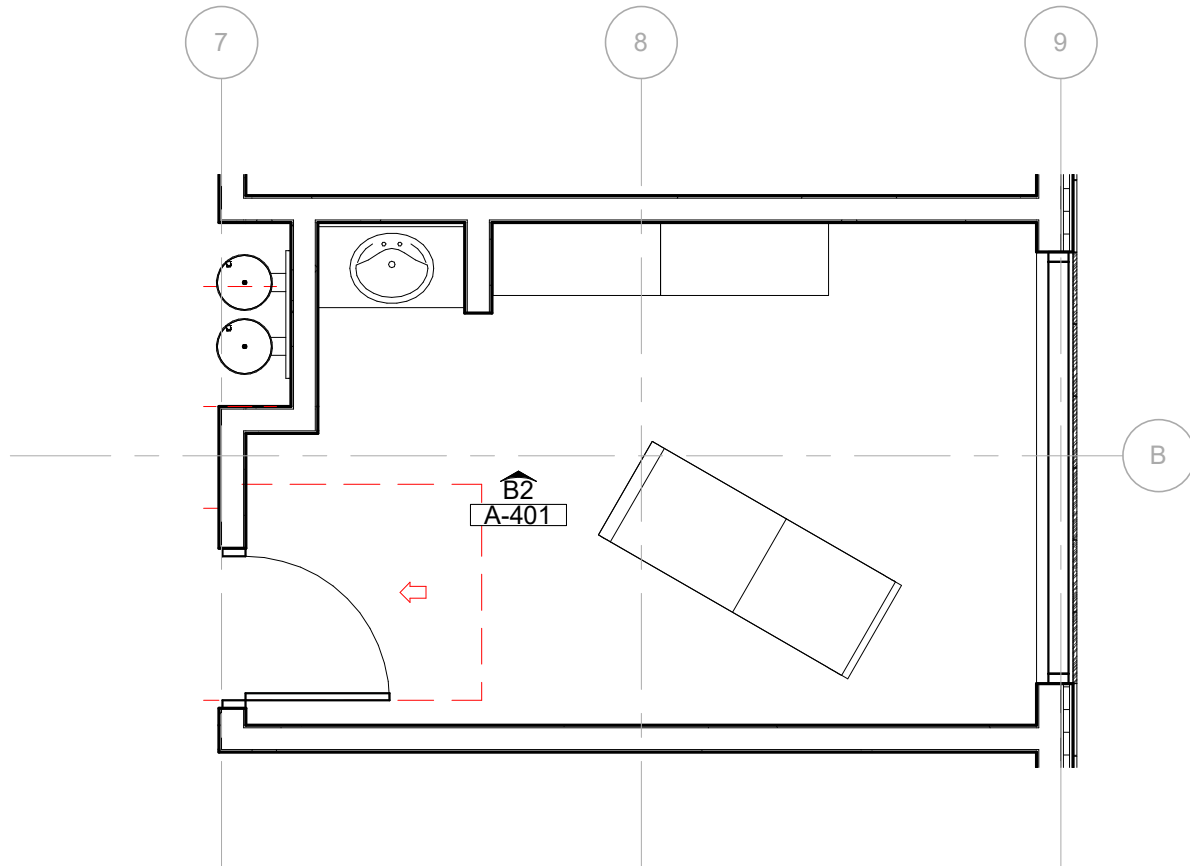
B2 TREATMENT ROOM NORTH INTR ELEV
1/4" = 1'-0"



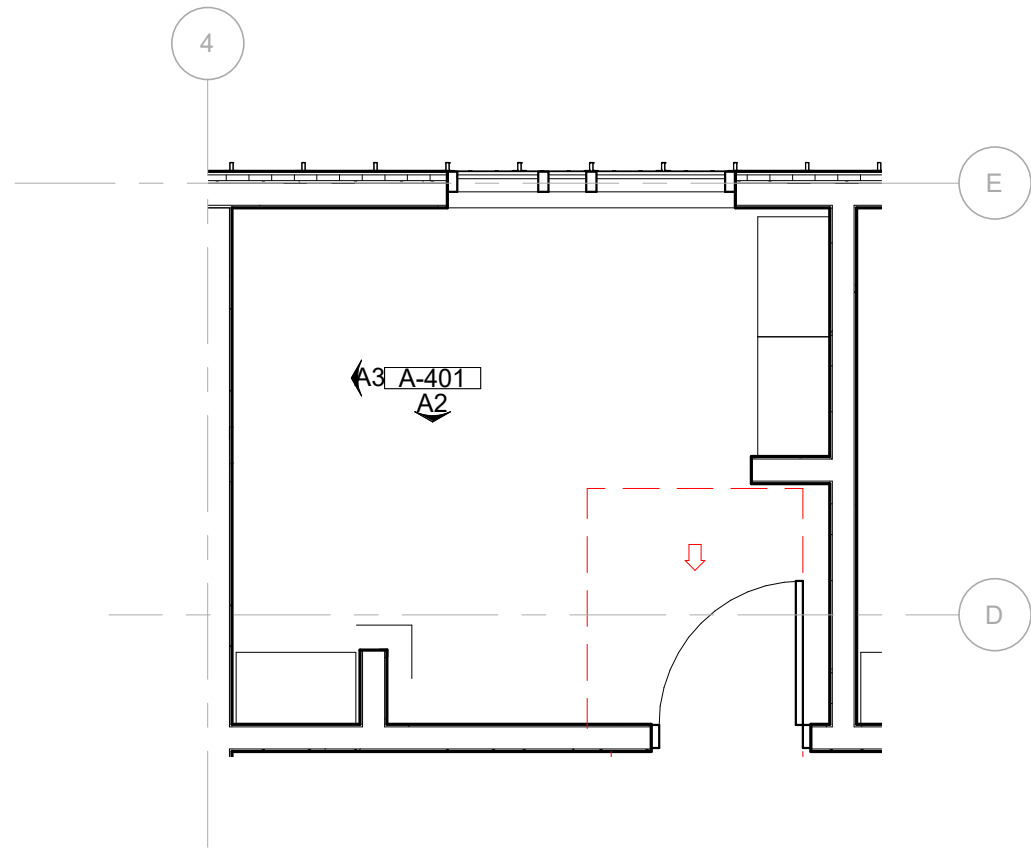
A2 DORM ROOM SOUTH
1/4" = 1'-0"



A3 DORM ROOM WEST
1/4" = 1'-0"



B1 TREATMENT ROOM ENLARGED PLAN
1/4" = 1'-0"



A1 DORM ROOM ENLARGED PLAN
1/4" = 1'-0"

Casework General Notes

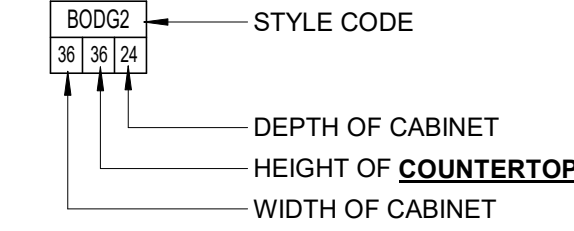
- A. REFER TO ELEVATIONS FOR DOOR, DRAWER, AND SHELF CONFIGURATIONS.
- B. ALL COUNTERTOPS IN WET AREAS TO BE QTZ1, U.N.O. ALL OTHER COUNTERTOP TO BE PL2, U.N.O. ALL PLAM CABINETS TO BE PL1.
- C. REFER TO INTERIOR FINISH DRAWINGS FOR FINISH INFORMATION.
- D. PROVIDE RUBBER COVE BASE AT ALL CASEWORK KICKSPACES, U.N.O.
- E. COORDINATE ALL EQUIPMENT PLANS AND ELECTRICAL DOCUMENTS FOR LOCATION OF ALL REQUIRED GROMMETS.
- F. FIELD VERIFY DIMENSIONS OF WALL LAYOUTS BEFORE FABRICATION OF CASEWORK.
- G. PROVIDE FINISHED END PANELS AT ALL EXPOSED SIDES OF CASEWORK.
- H. ALL QUARTZ COUNTERTOPS TO HAVE EASED EDGE AND BE FINISHED ON ALL EXPOSED SIDES AND BOTTOM. MITER CORNER AT WATERFALL EDGE, TYP.
- I. ALL PLAM COUNTERTOPS TO HAVE 3MM PVC EDGE TO MATCH

Interior Elevation General Notes

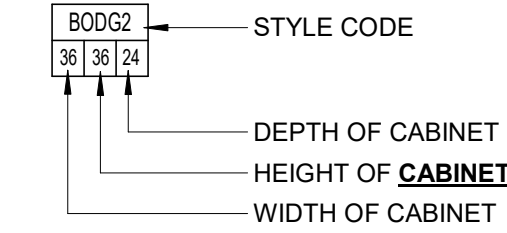
- A. **000** EQUIPMENT TAG. SEE Q-121.A & Q-121.B FOR EQUIPMENT SCHEDULE
- B. **<XX#** FINISH TAG. SEE A-600 FOR FINISH LEGEND AND NOTES
- C. LIGHTING TAG. SEE AL SERIES FOR ARCHITECTURAL LIGHTING

Casework Legend

BASE CABINETS:

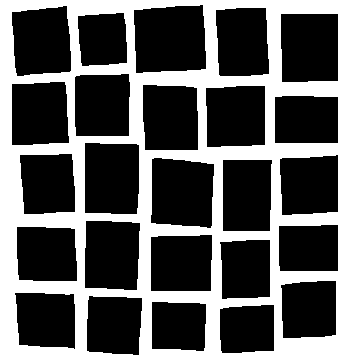


WALL AND TALL CABINETS:



STYLE CODES:

- B BASE CABINET WITH DOORS
- BCB BLIND CORNER BASE CABINET WITH MAGIC CORNER INSERT
- BD BASE CABINET WITH DRAWERS
- BF BASE FLOATING CABINET
- BS SINK BASE CABINET
- BSS BASE CABINET WITH SPICE RACK INSERT
- BWP BASE WASTE PULL OUT WITH WASTE BIN INSERT
- T TALL CABINET WITH DOORS
- W WALL CABINET WITH DOORS
- WR WALL CABINET OVER REFRIGERATOR WITH DOORS



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Sheet Information

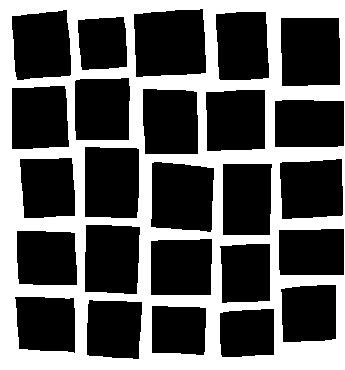
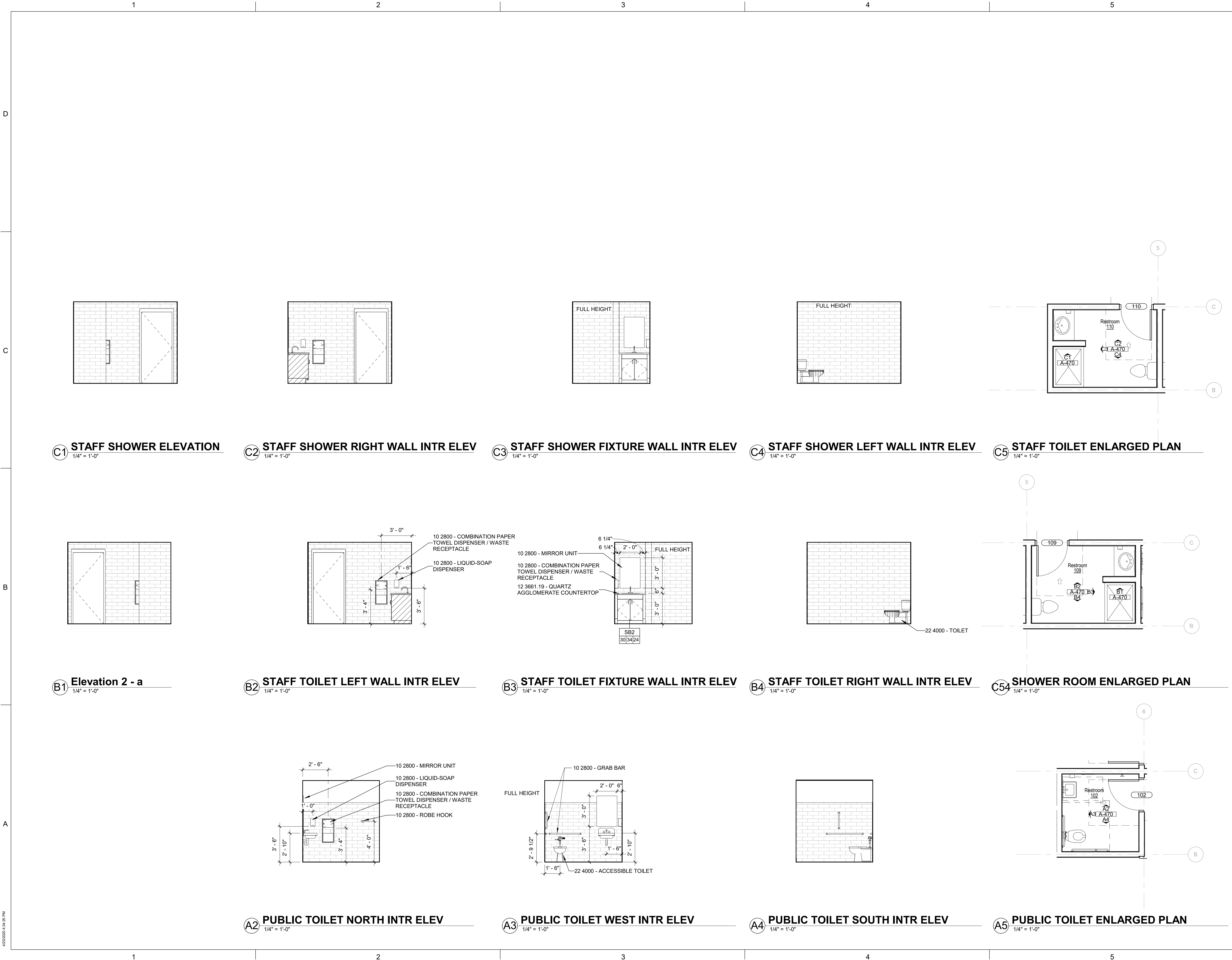
Sheet Title:
ENLARGED PLANS, INTERIOR
ELEVATIONS AND
RENDERINGS

Sheet Number:

A-401

DPA Project: 19716.00

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Project Information

SPAD - Hartsel Station
12855 Highway 24 Hartsel, CO 80449

Sheet Information

Sheet Title:
ENLARGED TOILET PLANS
AND ELEVATIONS

Sheet Number:

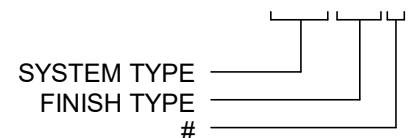
A-470

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EXTERIOR BUILDING SYSTEMS NAMING

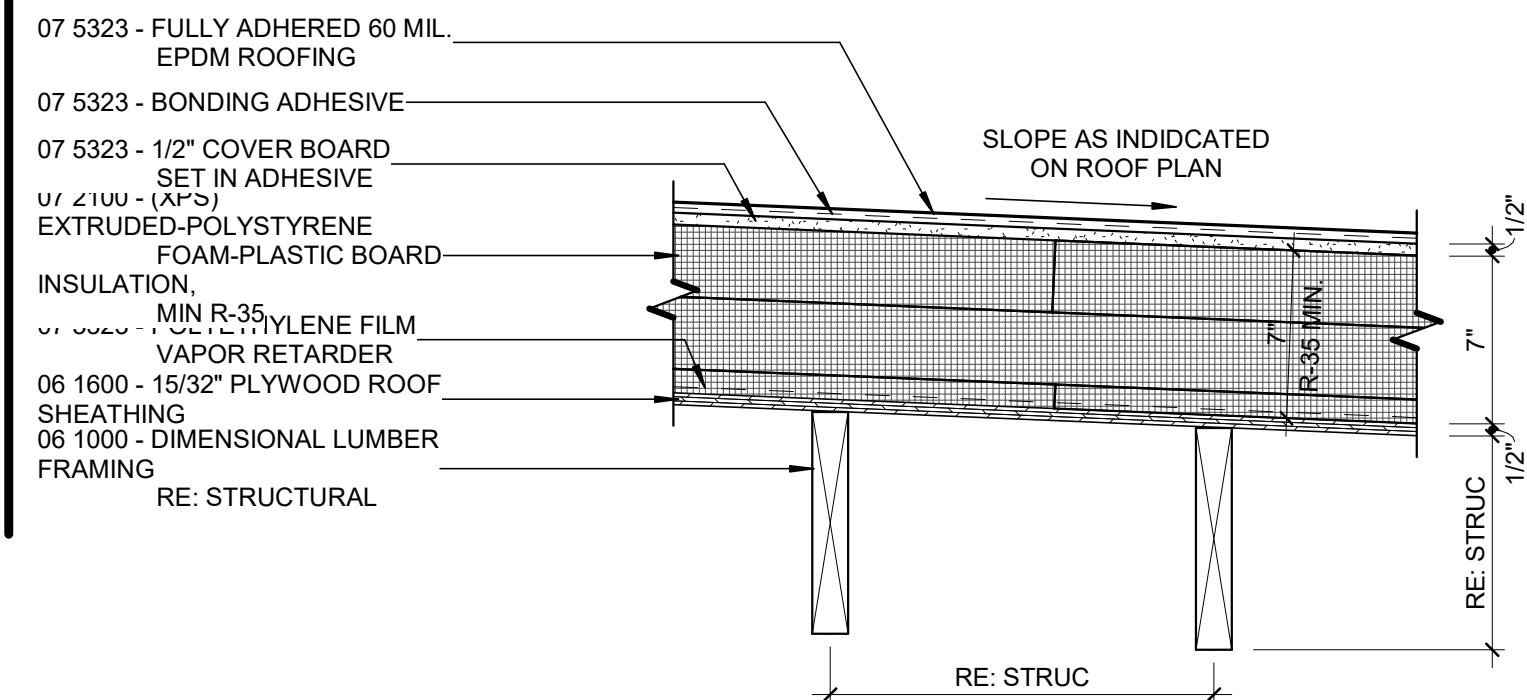
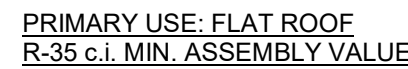
| SYSTEM TYPES | FINISH TYPES |
|------------------------------|-------------------------------|
| PWS = PARAPET WALL SYSTEM | EPDM = EPDM |
| RS = ROOF SYSTEM | TPO = TPO |
| SS = SOFFIT SYSTEM | PVC = PVC |
| WS = WALL SYSTEM | |
| FS = FLOOR SYSTEM | STO = STONE |
| FWS = FOUNDATION WALL SYSTEM | WD = WOOD |
| | MET = METAL |
| | MAS = MASONRY |
| | PCP = PORTLAND CEMENT PLASTER |
| | CMU = CMU |

EXAMPLE - SYSTEM TAG

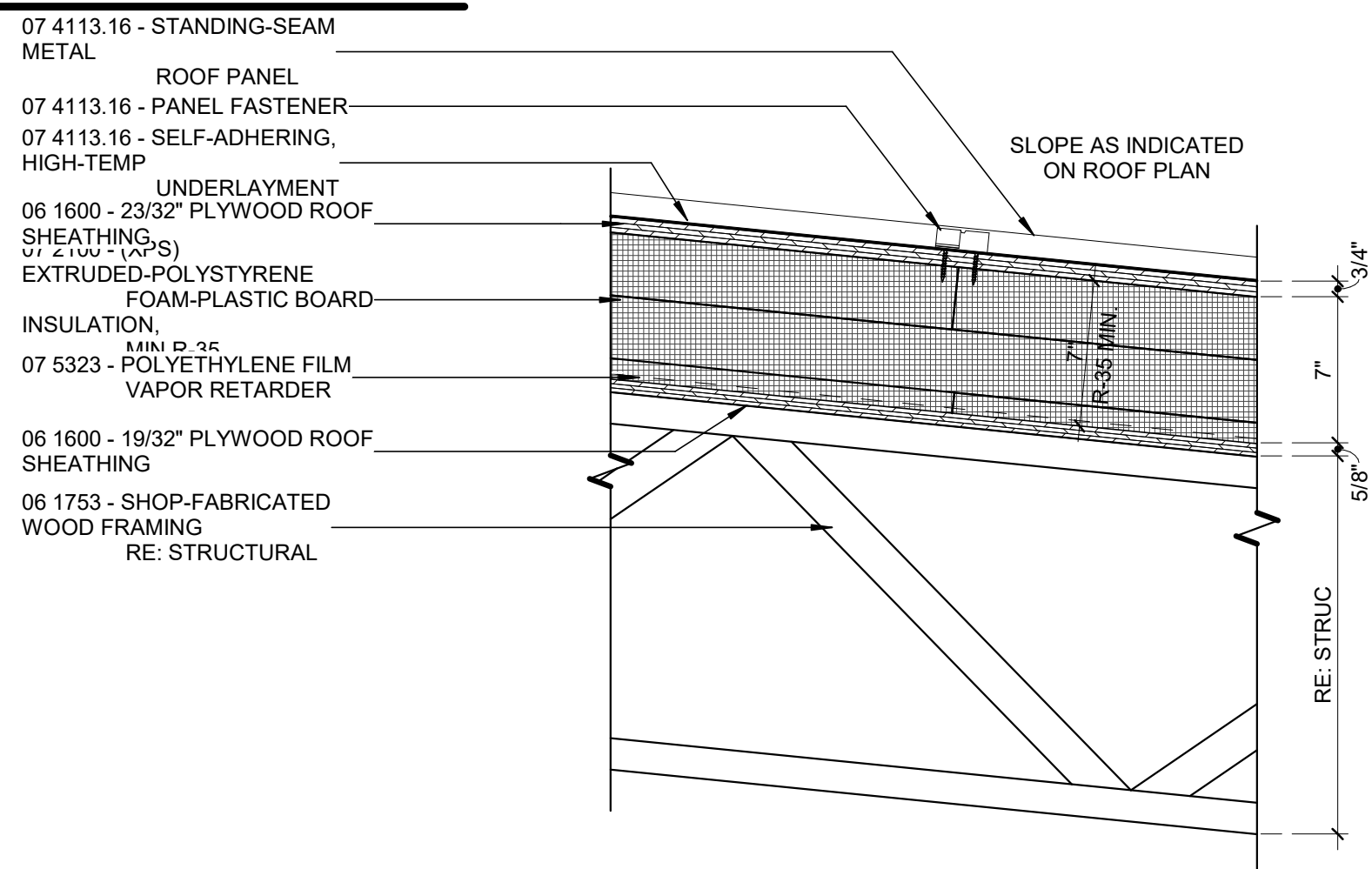
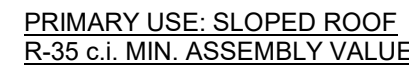


EXTERIOR BUILDING SYSTEMS

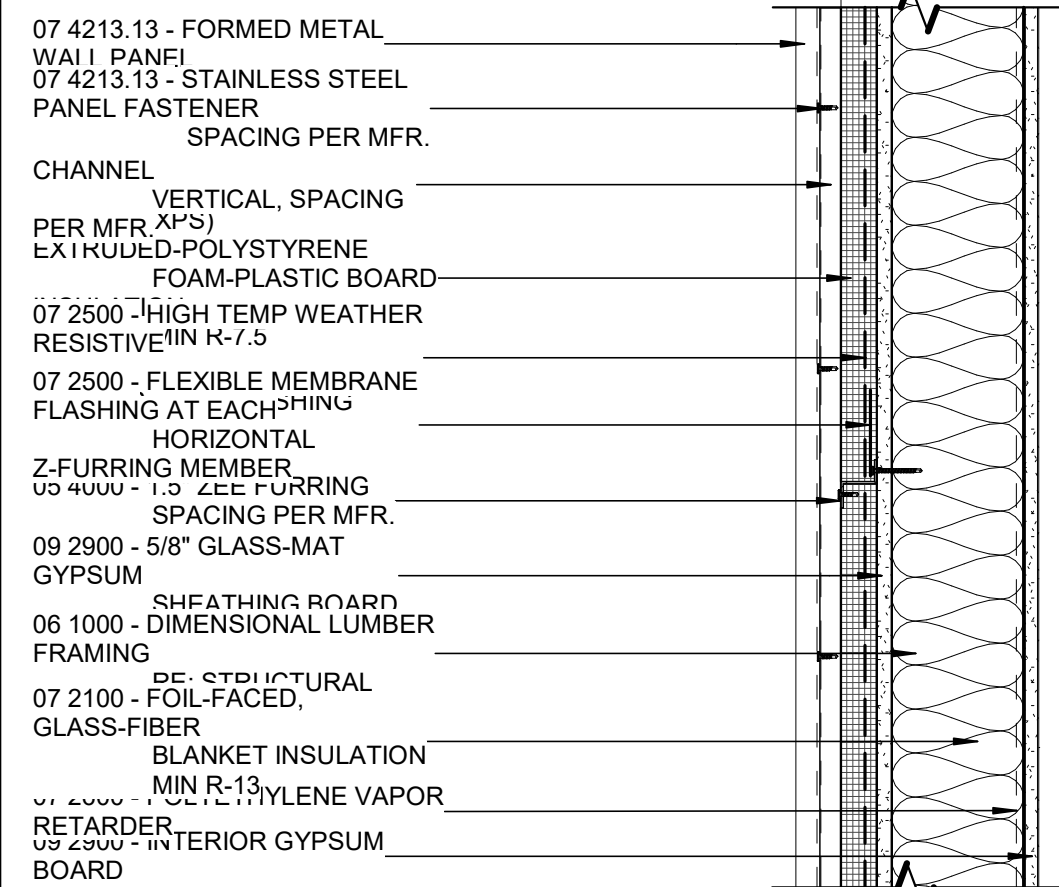
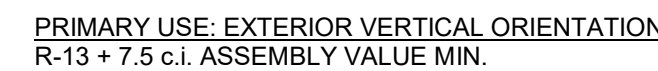
1. EXTERIOR BUILDING SYSTEMS SHEETS SHOW SYSTEM COMPONENTS. REFER TO SECTION AND DETAILS FOR RELATIONSHIPS BETWEEN BUILDING SYSTEMS
2. -



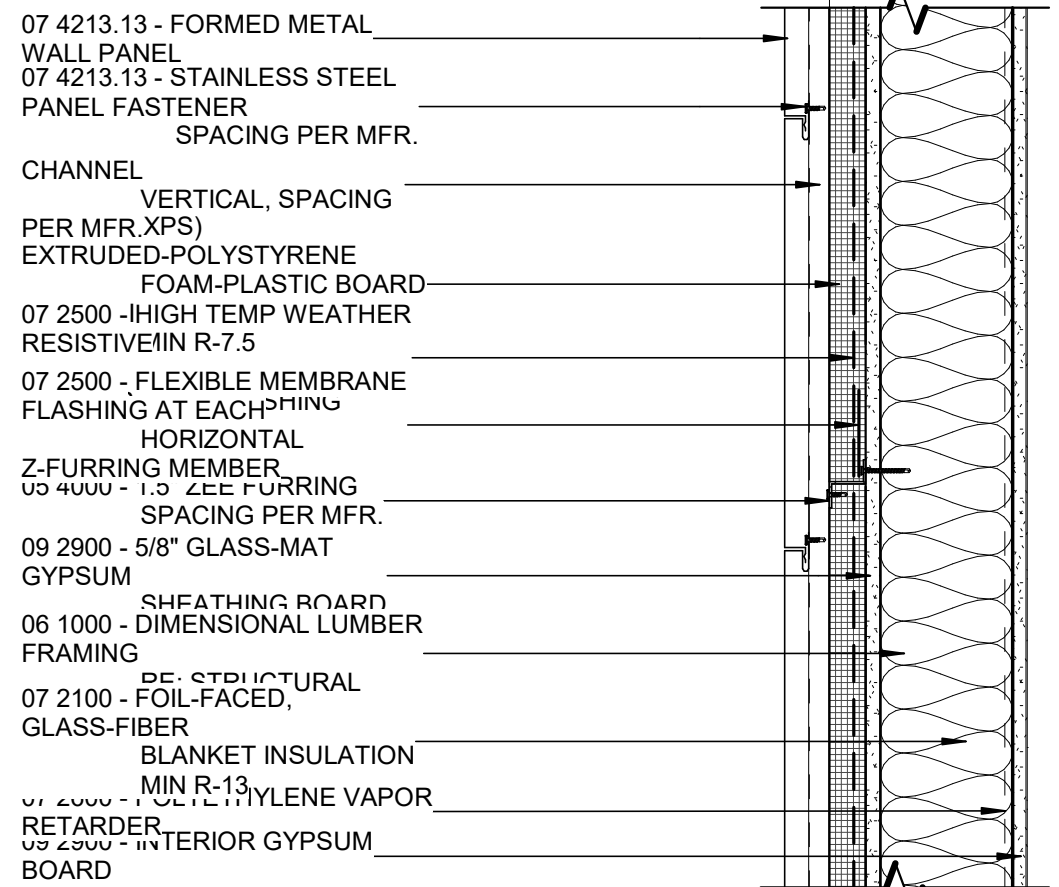
(C1) RS_EPDM1
1 1/2" = 1'-0"



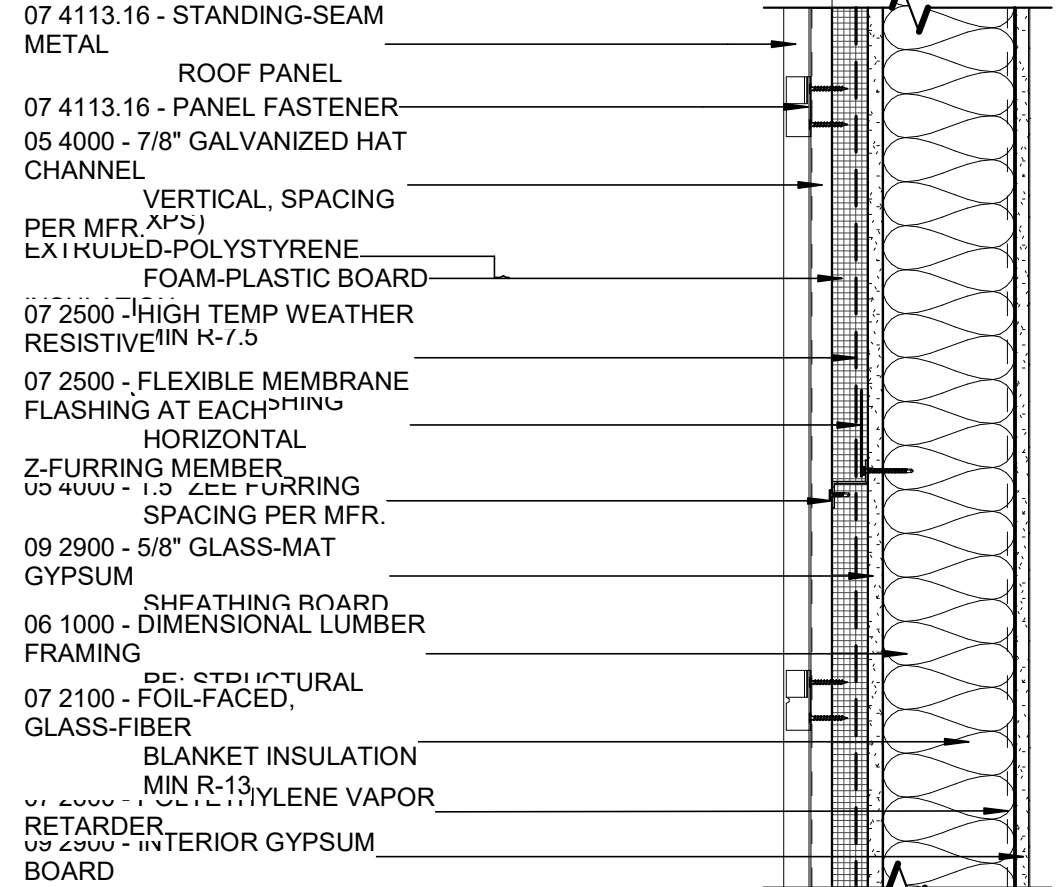
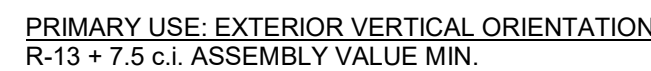
(B1) RS_MET1
1 1/2" = 1'-0"



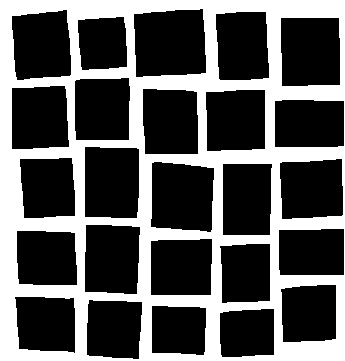
WS_MET1
1 1/2" = 1'-0"



WS_MET2
1 1/2" = 1'-0"



WS_MET3
1 1/2" = 1'-0"



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Project Information

SPAD - Hartsel Station
12855 Highway 24 Hartsel, CO 80449

Sheet Information

Sheet Title:
EXTERIOR BUILDING
SYSTEMS

Sheet Number:

A-700

DPA Project: 19716.00

B

1

2

3

4

5

DOOR SCHEDULE

| DOOR # | ROOM | DOOR TYPE | FINISH | DOOR | | | | FRAME | | FIRE RATING | HARDWARE SET | REMARKS | REV. |
|---------|---------------|-----------|--------|--------------|-------------|-----------|-----------------|---------|-----------|-------------|--------------|---------|------|
| | NAME | | | WIDTH | HEIGHT | THICKNESS | GLASS TYPE | TYPE | FINISH | | | | |
| LEVEL 1 | | | | | | | | | | | | | |
| 100 | Lobby | D1 | | 6' - 0" | 7' - 9 1/2" | 2" | 1" TEMPERED IGU | F1 | ANNODIZED | | | | |
| 101 | Treatment | D5 | | 3' - 0" | 7' - 0" | 1 3/4" | | F3 | PAINTED | | | | |
| 102 | Lobby | D5 | | 3' - 0" | 7' - 0" | 1 3/4" | | F3 | PAINTED | | | | |
| 103A | | | | 2' - 10 1/4" | 7' - 3 1/2" | 2" | | | | | | | |
| 103B | Vestibule | | | 2' - 10 1/4" | 7' - 3 1/2" | 2" | | | | | | | |
| 104 | Storage | D6 | | 3' - 0" | 7' - 0" | 1 3/4" | | F3 | PAINTED | | | | |
| 105 | Vestibule | D6 | | 3' - 0" | 7' - 0" | 1 3/4" | | F3 | PAINTED | | | | |
| 106 | Hall | D5 | | 3' - 0" | 7' - 0" | 1 3/4" | | F3 | PAINTED | 20 min | | | |
| 107 | Hall | D5 | | 3' - 0" | 7' - 0" | 1 3/4" | | F3 | PAINTED | 20 min | | | |
| 108 | Dorm | D5 | | 3' - 0" | 7' - 0" | 1 3/4" | | F3 | PAINTED | 20 min | | | |
| 109 | Hall | D6 | | 3' - 0" | 7' - 0" | 1 3/4" | | F3 | PAINTED | | | | |
| 110 | Restroom | D5 | | 3' - 0" | 7' - 0" | 1 3/4" | | F3 | PAINTED | | | | |
| 111 | Ready Room | D2 | | 3' - 3 3/8" | 6' - 9 1/2" | 2" | 1/4" TEMPERED | F1 | ANNODIZED | | | | |
| 114A | Apparatus Bay | | | 12' - 0" | 12' - 0" | 2 1/8" | PER MFR | PER MFR | | | | | |
| 114B | Apparatus Bay | | | 12' - 0" | 12' - 0" | 2 1/8" | PER MFR | PER MFR | | | | | |
| 114C | | D4 | | 3' - 0" | 7' - 0" | 1 3/4" | | | PAINTED | | | | |
| 114D | Apparatus Bay | D6 | | 3' - 0" | 7' - 0" | 1 3/4" | 1/4" TEMPERED | F2 | PAINTED | | | | |
| 115 | Mech/Elec | D5 | | 3' - 0" | 7' - 0" | 1 3/4" | | F2 | PAINTED | | | | |
| 116 | Apparatus Bay | D3 | | 6' - 0" | 7' - 0" | 1 3/4" | | F2 | PAINTED | | | | |
| 117 | Apparatus Bay | D3 | | 6' - 0" | 7' - 0" | 1 3/4" | | F2 | PAINTED | | | | |
| 118 | Storage | D3 | | 6' - 0" | 7' - 0" | 1 3/4" | | F2 | PAINTED | | | | |

DOOR GENERAL NOTES

1. NUMBER INDICATED IN THE "REV" CORRESPONDS TO THE ISSUE/REVISION TAG NUMBER CONTAINED IN THE TITLEBLOCK.

2. REFER TO SPECIFICATION SECTION 08 8000 - GLAZING FOR GLAZING TYPES.

DOOR ABBREVIATIONS

| ABBREVIATION | DESCRIPTION |
|--------------|---------------------------------|
| AL | ALUMINUM |
| CA | CLEAR ANODIZED |
| HM | HOLLOW METAL |
| HPOF | HIGH PERFORMANCE ORGANIC FINISH |
| PT | PAINT |
| ST | STAIN |
| WD | WOOD |

2" TYP

WIDTH
RE: SCHEDULE

HEIGHT
RE: SCHEDULE

F1

ALUMINUM STOREFRONT FRAME

2" TYP

WIDTH
RE: SCHEDULE

HEIGHT
RE: SCHEDULE

F2

HOLLOW METAL FRAME

3" TYP

WIDTH
RE: SCHEDULE

HEIGHT
RE: SCHEDULE

F3

WOOD FRAME

DOOR FRAME TYPES

No Scale

HEIGHT
RE: SCHEDULE

WIDTH
RE: SCHEDULE

D1

DOUBLE STOREFRONT ALUMINUM DOOR
FULL LITE

HEIGHT
RE: SCHEDULE

WIDTH
RE: SCHEDULE

D2

STOREFRONT ALUMINUM DOOR
FULL LITE

HEIGHT
RE: SCHEDULE

WIDTH
RE: SCHEDULE

D3

FLUSH DOUBLE HOLLOW METAL DOOR

HEIGHT
RE: SCHEDULE

WIDTH
RE: SCHEDULE

D4

FLUSH HOLLOW METAL DOOR

HEIGHT
RE: SCHEDULE

WIDTH
RE: SCHEDULE

D5

FLUSH SOLID CORE WOOD DOOR

HEIGHT
RE: SCHEDULE

WIDTH
RE: SCHEDULE

D6

FLUSH SOLID CORE WOOD DOOR
PARTIAL LITE

HEIGHT
RE: SCHEDULE

WIDTH
RE: SCHEDULE

D7

BIFOLDING GARAGE DOOR PARTIAL VISION LITE

DOOR TYPES

No Scale

4/20/2020 12:42:40 PM

SPAD - Hartsel Station

12855 Highway 24 Hartsel, CO 80449

Original Issuance

04/17/2020

DESIGN DEVELOPMENT

DATE

Revisions

Date

No.

Project Information

Sheet Information

Sheet Title:

DOOR SCHEDULE, TYPES, AND DETAILS

Sheet Number:

A-720

DPA Project:

19716.00

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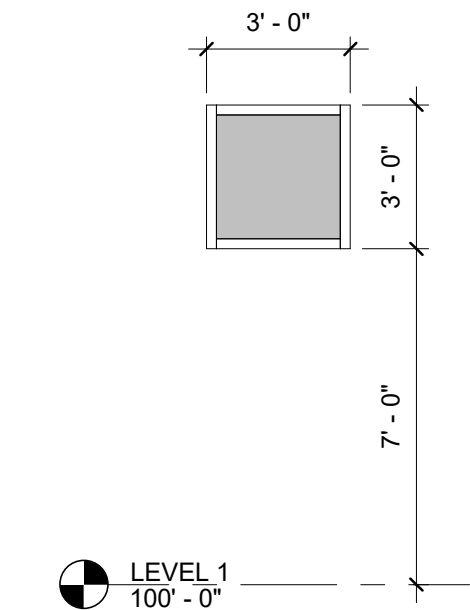
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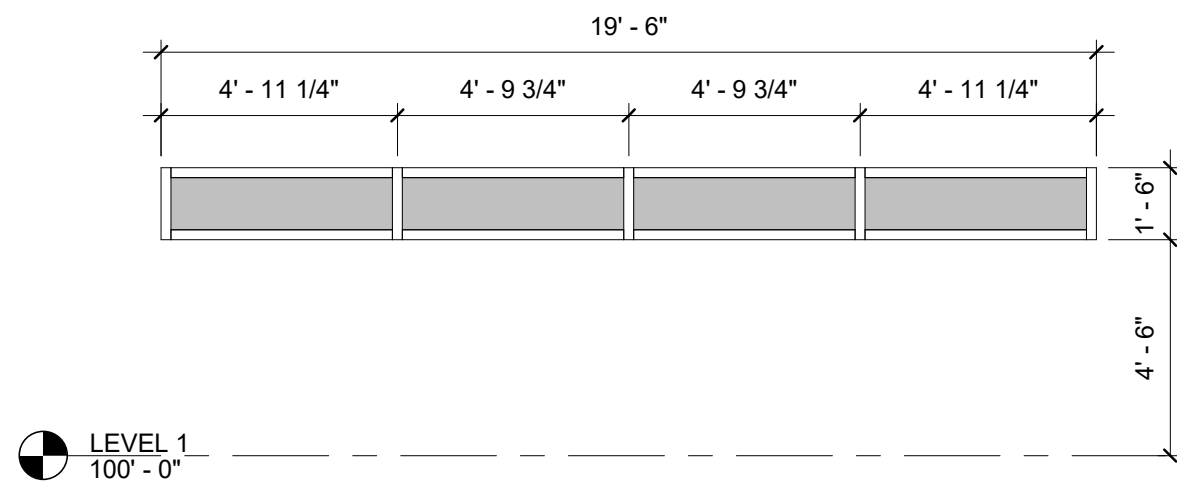
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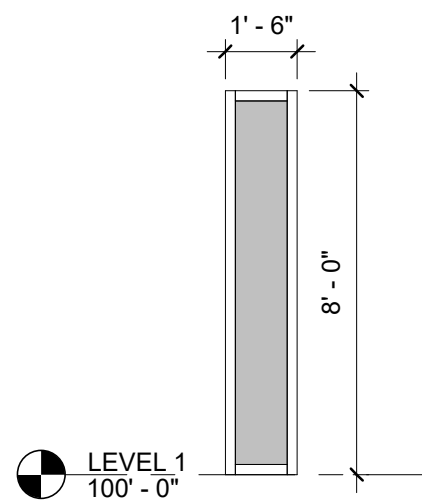
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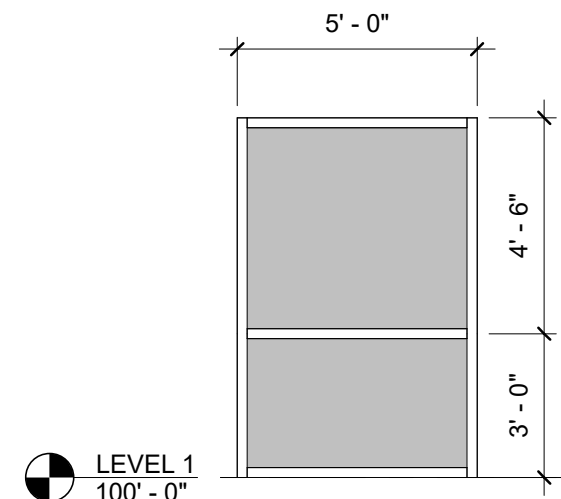
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1/4" = 1'-0"



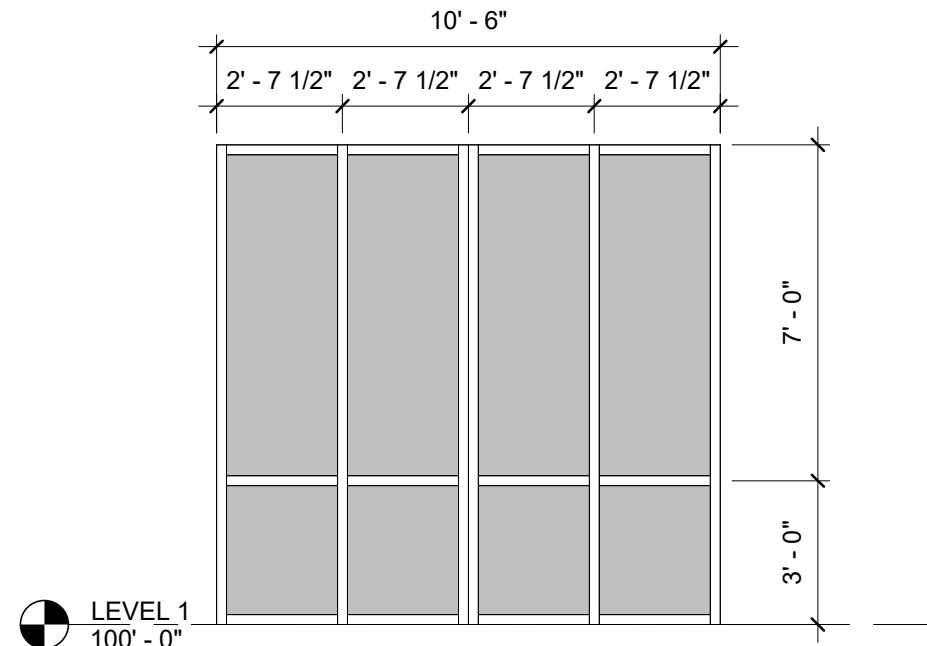
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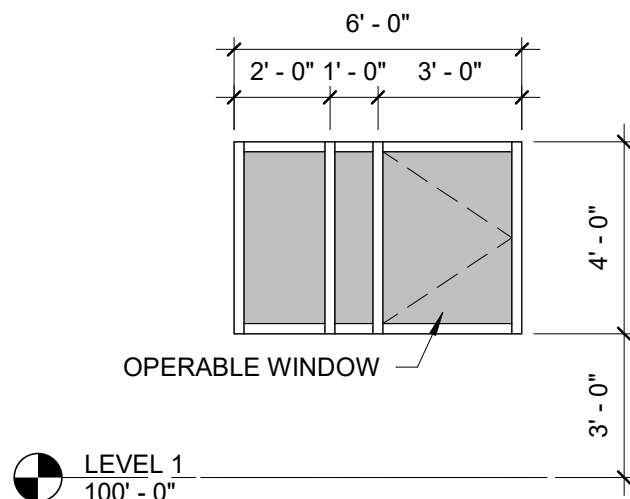
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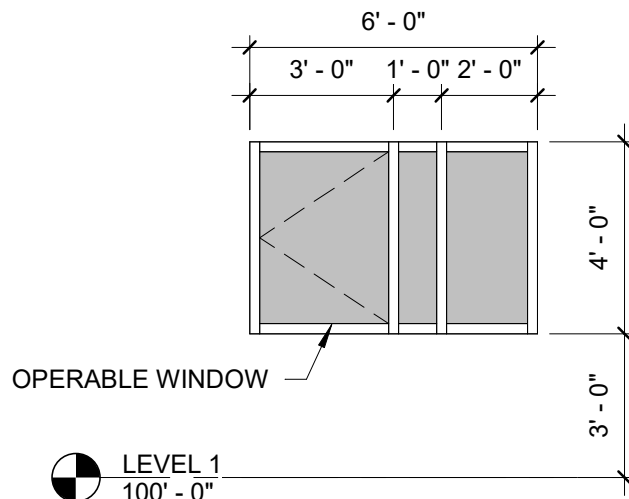
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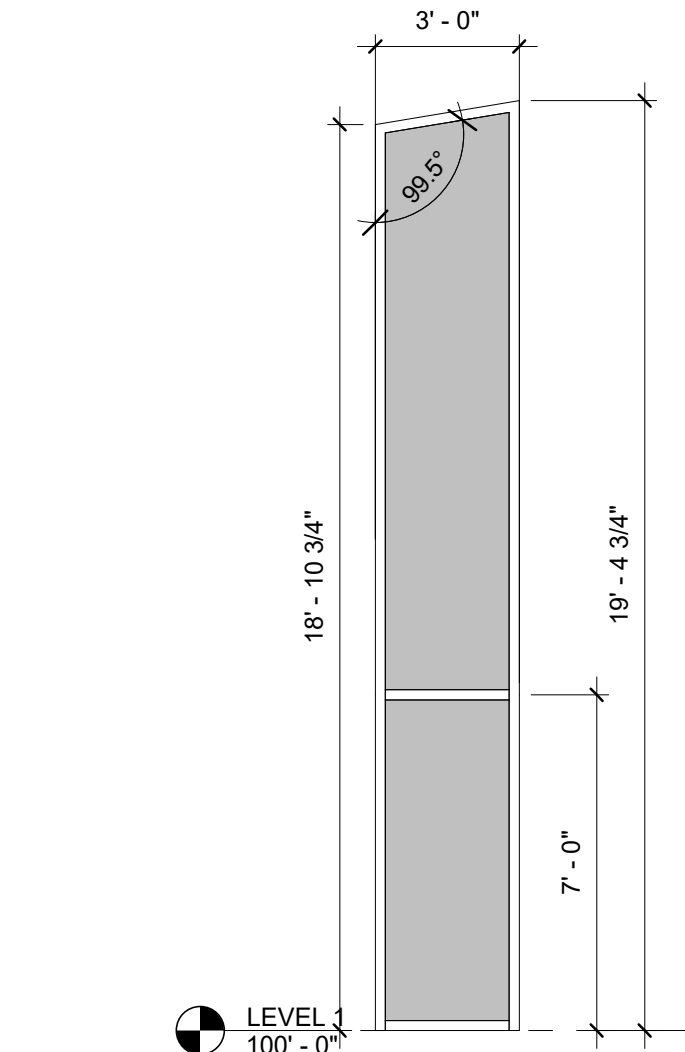
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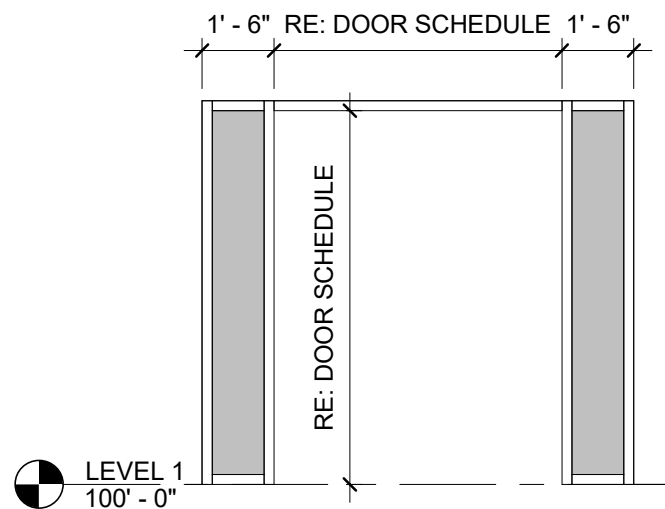
8 S8
1/4" = 1'-0"



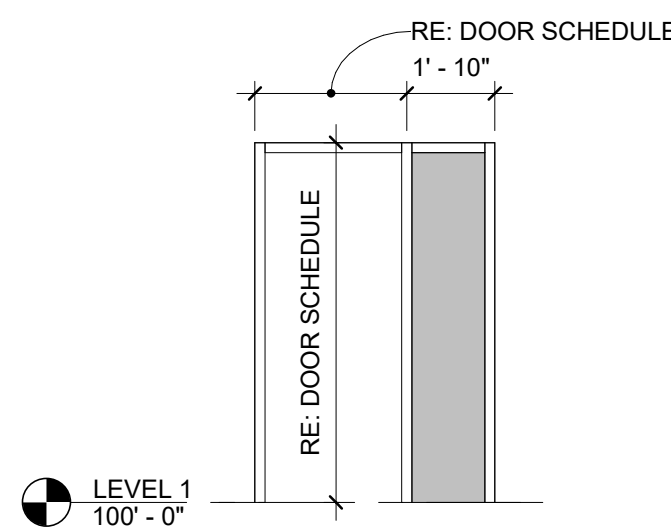
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1/4" = 1'-0"



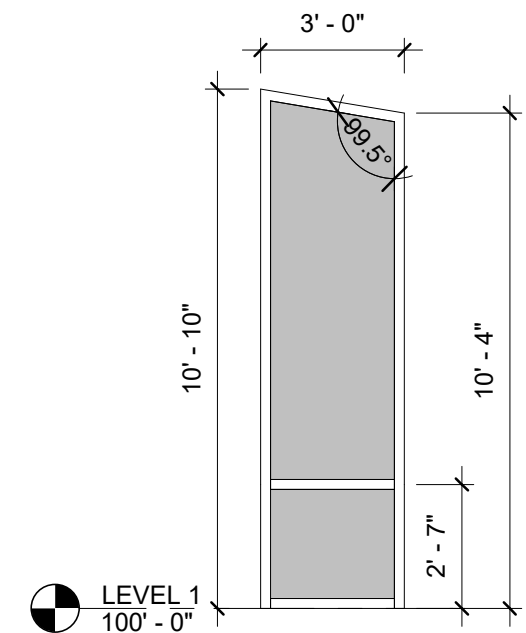
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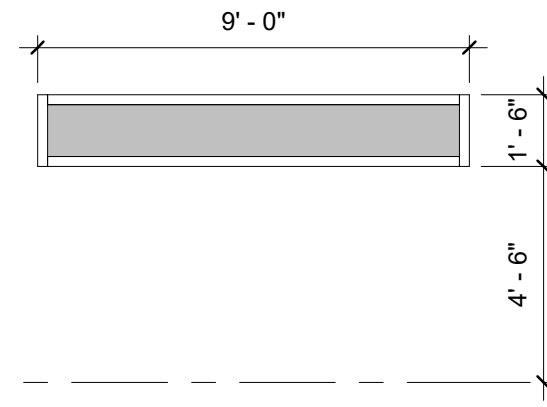
1 S1
1/4" = 1'-0"



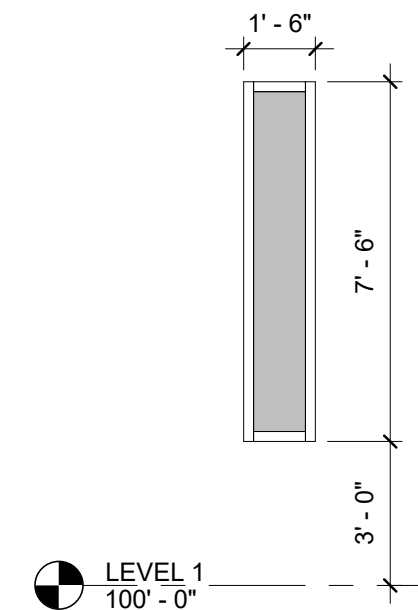
2 S2
1/4" = 1'-0"



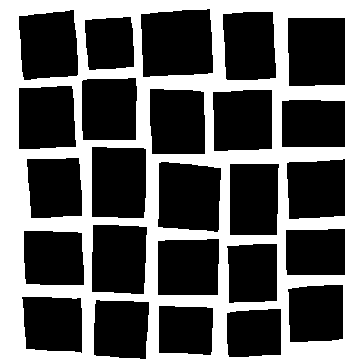
3 S3
1/4" = 1'-0"



4 S4
1/4" = 1'-0"



5 S5
1/4" = 1'-0"



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Project Information

SPAD - Hartsel Station
12855 Highway 24 Hartsel, CO 80449

Sheet Information

Sheet Title:
EXTERIOR WINDOW TYPES OR
CURTAIN WALL TYPES

Sheet Number:

A-740

DPA Project: 19716.00

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| HVAC, PLUMBING, ELECTRICAL, AND GENERAL CONTRACTOR COORDINATION SCHEDULE | | | | | |
|---|--|----------------|----------------|----------------|---|
| CATEGORY | DESCRIPTION OF WORK | FURNISHED BY | MOUNTED BY | WIRED BY | NOTES |
| LOCATING EXISTING UTILITIES | EXTERIOR | G.C. | | | |
| | INTERIOR | P.C. AND E.C. | | | EACH TRADE RESPONSIBLE FOR LOCATING THEIR RESPECTIVE SYSTEMS. |
| TEMPORARY UTILITIES | TEMPORARY HEAT | G.C. | | | |
| | TEMPORARY ELECTRICAL SERVICE | E.C. | E.C. | E.C. | |
| CONCRETE | WATER AND TOILET AND FACILITIES | G.C. | | | |
| | M/E EQUIPMENT PADS, HOUSEKEEPING PADS, CONCRETE SAWING, PATCHING, CORE DRILLING, AND REPAIR. | G.C. | | | |
| EXCAVATION | EXCAVATION, BACKFILL, AND CONCRETE OR ASPHALT PAVING FOR UTILITIES OR OTHER M/E EQUIPMENT. | G.C. | | | |
| | STRUCTURAL FRAMING FOR SUPPORT. | G.C. | | | G.C. ALSO TO PROVIDE FRAMING FOR PENETRATIONS. |
| HVAC ROOF TOP EQUIPMENT, FIELD BUILT ROOF CURBS/PLATFORMS, AND DUCT CURBS. | FIELD BUILT EQUIPMENT PLATFORMS AND DUCT CURBS, TOP MINIMUM 9" ABOVE FINISHED ROOF. | G.C. | | | G.C. TO CONSTRUCT PLATFORM/CURB FROM 2X10'S AS REQ'D AND CAP WITH 3/4" PLYWOOD AND 40# COATED FELT. |
| | FLASHING OVER THE TOP OF PLATFORMS AND DUCT CURBS. | H.C. | | | H.C. TO PROVIDE 26 GA. G.S. METAL TOP EXTENDING 3" DOWN SIDES. ALL JOINTS SOLDERED WATERTIGHT. |
| HVAC ROOF TOP EQUIPMENT, FIELD BUILT ROOF CURBS/PLATFORMS, AND DUCT CURBS. METAL ROOFS ONLY. | ROOFING REPAIR AND/OR SEALING OF ROOFING SYSTEM | G.C. | | | |
| | STRUCTURAL FRAMING FOR SUPPORT. | G.C. | | | G.C. ALSO TO PROVIDE FRAMING FOR PENETRATIONS. |
| MECH/ELEC EQUIPMENT AND FIXTURE MOUNTING | EQUIPMENT CURBS, PLATFORMS, AND DUCT CURBS. | G.C. | | | G.C. TO OBTAIN ROOF CURBS FROM BUILDING MANUFACTURER ON NEW CONSTRUCTION PROJECTS. |
| | FLASHING OVER THE TOP OF PLATFORMS AND DUCT CURBS. | H.C. | | | H.C. TO PROVIDE 26 GA. G.S. METAL TOP EXTENDING 3" DOWN SIDES. ALL JOINTS SOLDERED WATERTIGHT. |
| ROOFING AND ROOF PENETRATIONS | ROOFING REPAIR AND/OR SEALING OF ROOFING SYSTEM | G.C. | | | |
| | STRUCTURAL FRAMING FOR SUPPORT. | G.C. | | | |
| PATCH/REPAIR | HANGERS, MOUNTING HARDWARE, ANCHORS, PIPING STANDS, AND EQUIPMENT LEGS. | H.C. P.C. E.C. | H.C. P.C. E.C. | | EACH TRADE RESPONSIBLE FOR MOUNTING THEIR RESPECTIVE EQUIPMENT. |
| | PIPE AND ROUND DUCT/VENT ROOFJACKS. | H.C. P.C. E.C. | H.C. P.C. E.C. | | G.C. TO PROVIDE ROOFJACKS AND FLASHING ON METAL ROOF SYSTEMS. |
| PAINTING | PITCH PANS FOR EQUIPMENT LEGS OR PIPE STANDS. | H.C. P.C. E.C. | H.C. P.C. E.C. | | EACH TRADE RESPONSIBLE FOR PITCH PANS REQ'D FOR THEIR EQUIPMENT. |
| | DRAIN, OVERFLOW SCUPPERS, AND GUTTERS. | G.C. | | | |
| ACCESS DOORS | ROOFING REPAIR AND/OR SEALING OF ROOFING SYSTEM | G.C. | | | |
| | PATCHING AND REPAIRING OF EXISTING CONSTRUCTION. | G.C. | | | |
| FIRE RATED CHASES | EQUIPMENT, DUCTS, PIPES, LOUVERS, AND ETC. | G.C. | | | |
| | FOR M/E EQUIPMENT REQUIRING ACCESS. | H.C. P.C. E.C. | G.C. | | EACH TRADE TO FURNISH ACCESS DOORS AS REQ'D FOR THEIR EQUIP. |
| ELECTRICAL | FOR GREASE DUCTS, FLUES, DUCTS, AND ETC. | G.C. | | | |
| | WARRANTIES. | | | | |
| DUCT MOUNTED SMOKE DETECTORS | CONTROL TRANSFORMERS FOR HVAC EQUIPMENT | H.C. | E.C. | E.C. | |
| | HVAC CONTROL WIRING 48 VOLTS AND LESS. | H.C. | | H.C. | |
| ROOF DRAIN (HORIZONTAL OR UNHEATED AREAS) (C) | HVAC CONTROL WIRING GREATER THAN 48 VOLTS. | E.C. | | E.C. | |
| | HVAC EQUIP. INTERLOCK WIRING HIGH AND LOW VOLTAGE. | E.C. | | E.C. | |
| GENERAL NOTES: | CONDUIT FOR ALL WIRING. | E.C. | E.C. | | |
| | DISCONNECT SWITCHES. | E.C. | E.C. | E.C. | |
| GENERAL NOTES: | MOTOR STARTERS TO INCLUDE THERMAL OVERLOADS. | H.C. AND P.C. | E.C. | E.C. | EACH TRADE TO FURNISH STARTERS AS REQ'D FOR THEIR EQUIP. |
| | INTERFACED WITH BUILDING FIRE ALARM SYSTEM. | F.A.C. OR E.C. | H.C. | F.A.C. OR E.C. | H.C. TO PROVIDE ACTUAL DUCT SIZE MEASUREMENTS. |
| GENERAL NOTES: | IN BUILDING W/O FIRE ALARM/DETECTION SYSTEM. | H.C. | H.C. | E.C. | |
| | INTERLOCKS W/HVAC SYSTEM FANS. | E.C. | | E.C. | |
| ABBREVIATIONS: E.C.—ELECTRICAL CONTRACTOR, F.A.C.—FIRE ALARM CONTRACTOR, G.C.—GENERAL CONTRACTOR, H.C.—HVAC CONTRACTOR, M/E—MECHANICAL/ELECTRICAL, P.C.—PLUMBING CONTRACTOR | | | | | |

| COMMERCIAL PIPING INSULATION SCHEDULE 2012 IECC | | | | | | | |
|--|---|--|--------------------------------------|-------------|-------------|---------|------|
| SERVICE FLUID OPERATING TEMPERATURE RANGE | INSULATION CONDUCTIVITY | | THICKNESS OF INSULATION (INCHES) (A) | | | | |
| | CONDUCTIVITY (B) BTU-IN/(HOUR-FT ² -°F) | MEAN RATING TEMPERATURE, °F _e | NOMINAL PIPE OR TUBE SIZE (INCHES) | | | | |
| | | | <1 | 1 TO <1-1/2 | 1-1/2 TO <4 | 4 TO <8 | ≥8 |
| SERVICE HOT WATER (WITH HEAT TRACE) | 0.27 MAX | — | 1" | 1" | 1" | 1" | 1" |
| SERVICE HOT WATER (RE-CIRCULATING) | 0.27 MAX | — | 1" | 1" | 1" | 1" | 1" |
| SERVICE HOT WATER (FIRST 8' OF NON-CIRCULATION SYSTEMS AT EQUIPMENT WITHOUT HEAT TRAPS) | 0.27 MAX | — | 0.5" | 0.5" | 0.5" | 0.5" | 0.5" |
| MECHANICAL SYSTEM PIPING >350°F | 0.32-0.34 | 250 | 4.5" | 5" | 5" | 5" | 5" |
| MECHANICAL SYSTEM PIPING 251-350 | 0.29-0.32 | 200 | 3" | 4.0" | 4.5" | 4.5" | 4.5" |
| MECHANICAL SYSTEM PIPING 201-250 | 0.27-0.30 | 150 | 2.5" | 2.5" | 2.5" | 3" | 3" |
| MECHANICAL SYSTEM PIPING 141-200 | 0.25-0.29 | 125 | 1.5" | 1.5" | 2.0" | 2.0" | 2.0" |
| MECHANICAL SYSTEM PIPING 105-140 | 0.21-0.27 | 100 | 1.0" | 1.0" | 1.5" | 1.5" | 1.5" |
| MECHANICAL SYSTEM PIPING 40-60 | 0.21-0.27 | 75 | 0.5" | 0.5" | 1.0" | 1.0" | 1.0" |
| MECHANICAL SYSTEM PIPING <40 | 0.20-0.26 | 75 | 0.5" | 1.0" | 1.0" | 1.0" | 1.5" |
| ROOF DRAIN (HORIZONTAL OR UNHEATED AREAS) (C) | 0.27 | — | 0.5" | 0.5" | 0.5" | 0.5 | 0.5" |
| FOOTNOTES: (A) FOR PIPING SMALLER THAN 1 1/2 INCH (38 MM) AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF THESE THICKNESSES BY 1 INCH (25 MM) SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B) BUT NOT TO A THICKNESS LESS THAN 1 INCH (25 MM). (B) FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, THE MINIMUM THICKNESS (T) SHALL BE DETERMINED USING THE EQUATION IN THE 2012 IECC SECTION C403.2.8. (C) IECC DOES NOT REQUIRE ROOF DRAINS TO BE INSULATED. INSULATION IS REQUIRED AS GOOD DESIGN PRACTICE. EXCEPTIONS: 1. FACTORY-INSTALLED PIPING WITHIN HVAC EQUIPMENT TESTED AND RATED IN ACCORDANCE WITH A TEST PROCEDURE REFERENCED BY THIS CODE. 2. FACTORY-INSTALLED PIPING WITHIN ROOM FAN-COILS AND UNIT VENTILATORS TESTED AND RATED ACCORDING TO AHR 440 (EXCEPT THAT THE SAMPLING AND VARIATION PROVISIONS OF SECTION 6.5 SHALL NOT APPLY) AND 840, RESPECTIVELY. 3. PIPING THAT CONVEYS FLUIDS THAT HAVE A DESIGN OPERATING TEMPERATURE RANGE BETWEEN 60°F (15°C) AND 105°F (41°C). 4. PIPING THAT CONVEYS FLUIDS THAT HAVE NOT BEEN HEATED OR COOLED THROUGH THE USE OF FOSSIL FUELS OR ELECTRIC POWER. 5. STRAINERS, CONTROL VALVES, AND BALANCING VALVES ASSOCIATED WITH PIPING 1 INCH (25 MM) OR LESS IN DIAMETER. 6. DIRECT BURIED PIPING THAT CONVEYS FLUIDS AT OR BELOW 60°F (15°C). GENERAL NOTES: — 2012 IECC SECTIONS C403.2.8, C403.2.8.1 AND C404.5. — 2012 IECC COMMERCIAL SECTION APPLIES TO ALL BUILDINGS THAT ARE NOT CONSIDERED "RESIDENTIAL BUILDINGS." "RESIDENTIAL BUILDINGS" ARE DETACHED ONE- AND TWO-FAMILY DWELLINGS AND MULTIPLE SINGLE-FAMILY DWELLINGS (TOWNHOUSES) AS WELL AS GROUP R-2, R-3 AND R-4 BUILDINGS THREE STORIES OR LESS IN HEIGHT ABOVE GRADE PLANE. — INSULATION EXPOSED TO WEATHER SHALL BE JACKETED WITH .016" THICK ALUMINUM. — INSULATION ON COLD PIPES SHALL HAVE A VAPOR BARRIER APPLIED INCLUDING ALL JOINTS AND TERMINATIONS. | | | | | | | |

| GENERAL PLUMBING PROVISIONS | |
|--|--|
| 1. WORK INCLUDED. | PLUMBING COMPLETE AND OPERATING PLUMBING SYSTEMS. THE WORK ALSO INCLUDES THE COMPLETION OF DETAILS NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR THE SUCCESSFUL OPERATION OF ALL SYSTEMS. SEE HVAC, PLUMBING, ELECTRICAL, AND GENERAL CONTRACTOR COORDINATION SCHEDULE FOR DIVISION OF WORK. |
| 2. PLUMBING DRAWINGS. | PLUMBING DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY SPACE REQUIREMENTS, COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT VIOLATION OF APPLICABLE CODES, STANDARDS, SPECIFICATION REQUIREMENTS, OR EXTRA CHARGES TO THE OWNER. |
| 3. VERIFICATION OF FIELD CONDITIONS. | BEFORE UNDERTAKING EACH PART OF THE WORK, CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH FIELD MEASUREMENTS. PROMPTLY REPORT IN WRITING TO THE MECHANICAL ENGINEER ANY CONFLICT, ERROR OR DISCREPANCY. |
| 4. EQUIPMENT AND FIXTURES FURNISHED BY OTHERS. | COORDINATE EXACT REQUIREMENTS OF EQUIPMENT AND FIXTURES FURNISHED BY OTHERS BEFORE PERFORMING ANY WORK. |
| 5. PERMITS. | APPLY FOR AND PAY FOR ALL PERMITS, FEES, LICENSES AND INSPECTIONS FOR THIS DIVISION OF WORK. |
| 6. CODES. | COMPLY WITH ALL APPLICABLE CODES AND UTILITY COMPANY REGULATIONS. IN CASE OF CONFLICT WITH THE CONTRACT DOCUMENTS THE MOST STRINGENT SHALL GOVERN. |
| 7. ACCESS DOORS. | FURNISH ACCESS DOORS TO PROVIDE ACCESS TO ALL FIRE DAMPERS, VALVES, BALANCING DAMPERS, AND OTHER EQUIPMENT REQUIRING ACCESS. ACCESS DOORS FOR INSTALLATION IN FIRE RATED CONSTRUCTION SHALL HAVE APPROPRIATE FIRE RATING. |
| 8. SPECIFIED MANUFACTURERS AND ALTERNATES. | AN ACCEPTABLE MANUFACTURER'S NAME AND MODEL NUMBER OF A PRODUCT MAY BE GIVEN FOR AN EXAMPLE. THIS IS THE EQUIPMENT CONTEMPLATED DURING THE DESIGN PROCESS. FORMER THE BASIS OF A STANDARD OF QUALITY. THE MODEL NUMBER IS STILL ACCURATE AND MEETS ALL THE REQUIREMENTS AS SHOWN ON THE DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN THE REQUIREMENTS OF THE MODEL NUMBER AND THE MODEL NUMBER, THE REQUIREMENTS OF THE DRAWINGS SHALL GOVERN. APPROVED EQUALS SHALL BE ALLOWED UNLESS OTHERWISE NOTED. |
| 9. SUBMITTALS. | A. REQUIRED SUBMITTALS. SUBMIT ELECTRONIC COPIES OF THE FOLLOWING INFORMATION FOR APPROVAL. ORDER NO MATERIALS OR BEGIN NO WORK UNTIL ALL SUBMITTALS ARE RETURNED APPROVED. 1.) ALL SCHEDULED FIXTURES AND EQUIPMENT. 2.) CONTROLS AND CONTROL DIAGRAMS. 3.) SHOP DRAWINGS REQUIRED TO BE SUBMITTED FOR APPROVAL. 4.) OTHER INFORMATION SPECIFICALLY REQUIRED TO BE SUBMITTED FOR APPROVAL. B. REVIEW TIME. ALLOW 5 WORKING DAYS FOR REVIEW OF SUBMITTALS. C. RESUBMISSION. MAKE ALL REVISIONS REQUIRED AND RESUBMIT AS REQUIRED FOR INITIAL SUBMITTAL. D. WARRANTIES. GUARANTEE ALL WORKMANSHIP, MATERIAL AND EQUIPMENT AND REPLACE ANY FOUND DEFECTIVE WORK WITHOUT COST TO THE OWNER, FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE. E. OPERATION AND MAINTENANCE MANUALS. SUBMIT 3 COPIES BOUND IN 8-1/2" X 11" THREE RING, LOOSE LEAF BINDERS. F. MATERIALS. ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED. A. ALL DOMESTIC WATER PIPE, FITTINGS AND FIXTURES MUST COMPLY WITH THE EPA REDUCTION OF LEAD IN DRINKING WATER ACT OF 2011. G. INSTALLATION OF EQUIPMENT. A. GENERAL. INSTALL ALL WORK IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. ARRANGE ALL EQUIPMENT TO PERMIT EASY REMOVAL OF COILS, MOTORS, FILTERS, AND ALL OTHER PARTS WHICH MIGHT REQUIRE PERIODIC REPLACEMENT OR MAINTENANCE. B. SPACE PREFERENCE. WHERE CONFLICTS OCCUR THE FOLLOWING PREFERENCE SCHEDULE SHALL BE USED: 1.) RECESSED ELECTRICAL LIGHT FIXTURES. 2.) DUCTWORK. 3.) SPRINKLER PIPING. 4.) SOIL, WASTE, VENT AND STORM PIPING. 5.) LIQUID HEAT TRANSFER AND REFRIGERANT PIPING. 6.) DOMESTIC WATER PIPING. 7.) ELECTRICAL CONDUITS. ITEMS #2 SHALL NOT HAVE PREFERENCE OVER ITEM #4 BELOW PLUMBING FIXTURES, OR OVER ITEM #7 ABOVE OR BELOW ELECTRIC SWITCH GEAR AND PANELS. NO PIPING CONVEYING FLUIDS SHALL BE INSTALLED DIRECTLY OVER ELECTRICAL EQUIPMENT. 14. PIPE INSULATION. SEE PIPE EITHER THE COMMERCIAL OR RESIDENTIAL PIPE INSULATION SCHEDULE FOR WHERE PIPE INSULATION IS REQUIRED OTHER INSULATION MADE BE REQUIRED IF IT IS SPECIFICALLY CALLED OUT ON THE PLANS. |

| PLUMBING LEGEND | |
|-----------------|---|
| SYMBOL | DESCRIPTION |
| — CW — | COLD WATER |
| — CW UF — | COLD WATER, UNDER FLOOR |
| — CW(C) — | EXISTING COLD WATER, UNDER FLOOR |
| — CW(E) UF — | EXISTING COLD WATER, UNDER FLOOR |
| — HW — | HOT WATER |
| — HW UF — | HOT WATER, UNDER FLOOR |
| — HW(E) — | EXISTING HOT WATER |
| — HW(E) UF — | EXISTING HOT WATER, UNDER FLOOR |
| — 105° — | TEMPERED WATER, TEMPERATURE NOTED (FAHRENHEIT) |
| — 105°(E) — | TEMPERED WATER, TEMP NOTED, BELOW FLOOR |
| — 105°(E) UF — | EXISTING TEMPERED WATER, TEMP NOTED, UNDER FLOOR |
| — R — | HOT WATER CIRCULATION RETURN, UNDER FLOOR |
| — R UF — | EXISTING HOT WATER CIRC. RETURN WITH FLOW ARROW |
| — R(E) — | EXISTING HOT WATER CIRC. RETURN, UNDER FLOOR |
| — R(E) UF — | EXISTING HOT WATER CIRC. RETURN, UNDER FLOOR |
| — SS — | SANITARY SEWER ABOVE FLOOR |
| — SS UF — | SANITARY SEWER UNDER FLOOR |
| — SS(E) — | EXIST. SANITARY SEWER ABOVE FLOOR |
| — SS(E) UF — | EXIST. SANITARY SEWER UNDER FLOOR |
| — GI — | GREASE INTERCEPTOR LINE ABOVE FLOOR |
| — GI(E) — | EXISTING GREASE INTERCEPTOR LINE ABOVE FLOOR |
| — S/O — | SAND/OIL INTERCEPTOR LINE ABOVE FLOOR |
| — S/O(E) — | EXISTING SAND/OIL INTERCEPTOR LINE ABOVE FLOOR |
| — S/O(E) UF — | EXISTING SAND/OIL INTERCEPTOR LINE UNDER FLOOR |
| — RD — | ROOF DRAIN ABOVE FLOOR |
| — RD UF — | ROOF DRAIN UNDER FLOOR |
| — RD(E) — | EXISTING ROOF DRAIN ABOVE FLOOR |
| — RD(E) UF — | EXISTING ROOF DRAIN UNDER FLOOR |
| — OD — | ROOF OVERFLOW DRAIN ABOVE FLOOR |
| — OD UF — | ROOF OVERFLOW DRAIN UNDER FLOOR |
| — OD(E) — | EXISTING ROOF OVERFLOW DRAIN ABOVE FLOOR |
| — OD(E) UF — | EXISTING ROOF OVERFLOW DRAIN UNDER FLOOR |
| — V — | SEWER VENT ABOVE FLOOR |
| — V UF — | SEWER VENT UNDER FLOOR |
| — V(E) — | EXISTING SEWER VENT ABOVE FLOOR |
| — V(E) UF — | EXISTING SEWER VENT UNDER FLOOR |
| — D — | EQUIPMENT DRAIN ABOVE FLOOR |
| — D UF — | EQUIPMENT DRAIN BELOW FLOOR |
| — DE — | EXISTING EQUIP. DRAIN ABOVE FLOOR |
| — DE UF — | EXISTING EQUIP. DRAIN BELOW FLOOR |
| — CV — | PVC COMBUSTION VENT |
| — CA — | PVC COMBUSTION AIR |
| — CV(E) — | EXISTING PVC COMBUSTION VENT |
| — CA(E) — | EXISTING PVC COMBUSTION AIR |
| — G — | NATURAL GAS ABOVE FLOOR |
| — G UF — | NATURAL GAS UNDER FLOOR |
| — G(E) — | EXISTING NAT. GAS ABOVE FLOOR |
| — G(E) UF — | EXISTING NAT. GAS UNDER FLOOR |
| — A — | COMPRESSED AIR |
| — NO — | NITROUS OXIDE |
| — O — | OXYGEN |
| — VAC — | VACUUM |
| — E — | ELBOW DOWN |
| — T — | TEE DOWN |
| — U — | TEE UP |
| — U — | UNION |
| — H — | HOSE BIBB |
| — G — | GATE VALVE, NORMALLY OPEN |
| — C — | GATE VALVE, NORMALLY CLOSED |
| — S — | BALL VALVE, NORMALLY OPEN |
| — S — | BALL VALVE, NORMALLY CLOSED |
| — S — | SOLENOID VALVE NORMALLY OPEN |
| — S — | COMBINATION BALANCING AND CONTROL VALVE NORMALLY CLOSED. |
| — S — | 3-WAY MOTORIZED VALVE |
| — P — | CENTRIFUGAL PUMP |
| — H — | GAS COCK |
| — L — | LOG LIGHTER VALVE |
| — A — | AIR ADMITTANCE VALVE (STUDOR VENT) |
| — R — | GAS REGULATOR |
| — R — | LOCATION OF COLD WATER ROUGH-IN. |
| — R — | LOCATION OF HOT WATER ROUGH-IN. |
| — R — | CONNECTION TO EXIST. WORK. SEE CONNECTION NOTE #1 FOR EXPLANATION IF APPLICABLE. |
| — R — | PLAN CODE FOR EQUIPMENT FURNISHED BY OTHERS. PLUMBER TO PROVIDE ROUGH-IN AND FINAL CONNECTION. REFER TO FIXTURES/EQUIPMENT FURNISHED BY OTHERS SCHEDULE. COORDINATE WITH SUPPLIER TO DETERMINE EXACT REQUIREMENTS BEFORE PERFORMING ANY WORK. |
| — R — | CONNECTION TO EXIST. WORK. SEE CONNECTION NOTE #1 FOR EXPLANATION IF APPLICABLE. |

| ABBREVIATION LEGEND | |
|---------------------|--------------------------------|
| AFC | — COMPRESSED AIR |
| AF | — ABOVE FINISH CEILING |
| AF | — ABOVE FINISH FLOOR |
| BFC | — BELOW FINISH CEILING |
| BFF | — BELOW FINISH FLOOR |
| CO | — CLEANOUT |
| CW | — COLD WATER |
| D | — EQUIPMENT DRAIN |
| DN | — DOWN |
| EA | — EACH |
| E.C. | — ELECTRICAL CONTRACTOR |
| FC | — FLOOR CLEANOUT |
| G | — GAS (NATURAL) |
| G.C. | — GENERAL CONTRACTOR |
| GI | — GREASE INTERCEPTOR LINE |
| GM | — GAS METER |
| GW | — GRAY WATER |
| H.C. | — HVAC CONTRACTOR |
| HW | — HOT WATER |
| ID | — INSIDE DIMENSIONS |
| INDIRECT WASTE | — INDIRECT WASTE |
| MAX | — MAXIMUM |
| MIN | — MINIMUM |
| MPS | — MEDIUM PRESSURE GAS |
| NO | — NITROUS OXIDE |
| NO | — NUMBER |
| O | — OXYGEN |
| OD | — OVERFLOW DRAIN |
| P.C. | — PLUMBING CONTRACTOR |
| PD | — PUMPED DISCHARGE |
| PRESS. | — PRESSURE |
| R | — HOT WATER RECIRCULATION LINE |
| RD | — ROOF DRAIN |
| REQ'D | — REQUIRED |
| S/O | — SAND/OIL INTERCEPTOR LINE |
| SS | — SANITARY SOIL |
| ST | — STORM SEWER |
| TDH | — TOTAL DYNAMIC HEAD PRESSURE |
| TP | — TYPICAL |
| UG | — UNDERGROUND |
| UF | — UNDER FLOOR |
| U.O.N. | — UNLESS OTHERWISE NOTED |
| V | — VENT |
| V | — VACUUM |
| VTH | — VENT THRU ROOF |
| WCO | — WALL CLEANOUT |
| WM | — WATER METER |
| WT | — WEIGHT |

| PLUMBING PIPING SCHEDULE | | | |
|---|--|-------------------------------|--|
| SERVICE | PIPE | FITTINGS | REMARKS |
| COLD WATER AND HOT WATER BURIED OUTSIDE BUILDING. | TYPE "K" HARD DRAWN COPPER. | WROUGHT COPPER SWEAT TYPE | CU-PH SOLDER |
| | TYPE "K" SOFT DRAWN COPPER. | FLARED TYPE | |
| COLD WATER AND HOT WATER BURIED WITHIN BUILDING. | TYPE "K" COPPER OR TYPE "L" COPPER | WROUGHT COPPER SWEAT TYPE | CU-PH SOLDER OR <2% LEAD SOLDER |
| | TYPE "L" COPPER OR TYPE "M" COPPER | WROUGHT COPPER SWEAT TYPE | <2% LEAD SOLDER |
| COLD WATER AND HOT WATER ABOVE GROUND. | CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING | DRY FIT | INSTALL IN ACCORDANCE WITH MFG. INSTRUCTIONS |
| | SCH 80 CHLORINATED POLYVINYL CHLORIDE (CPVC) PLASTIC | GLUE JOINTS (SOLVENT WELD) | |
| SANITARY SOIL BURIED. | CAST - IRON HUBLESS | CAST - IRON HUBLESS | STAINLESS STEEL HARDWARE |
| | SCH 40 PVC DWV SOLID WALL | SCH 40 PVC DWV SOLID WALL | |
| SANITARY SOIL AND VENT ABOVE GROUND. | CAST - IRON HUBLESS | CAST - IRON HUBLESS | STAINLESS STEEL HARDWARE |
| | SCH. 40 GALVANIZED. | SCH. 40 GALVANIZED. | 2" AND SMALLER |
| ROOF DRAINS. | DWV COPPER. | DWV COPPER SWEAT CONNECTIONS. | |
| | SCH 40 PVC DWV SOLID WALL | SCH 40 PVC DWV SOLID WALL | NOT IN CAVITIES USED AS A RETURN AIR PLENUM |

NOTES: SOLVENT CEMENT MUST BE THIRD-PARTY CERTIFIED AS CONFORMING TO ASTM F493. SOLVENT CEMENT MUST BE YELLOW, LIMITED TO 1/2" THROUGH 2" PIPE SIZES, AND PIPE FITTINGS MUST MEET ASTM D2846. ALL DOMESTIC WATER PIPE, FITTINGS AND FIXTURES MUST COMPLY WITH THE EPA REDUCTION OF LEAD IN DRINKING WATER ACT OF 2011.

| DESIGN SUMMARY FOR PLAN REVIEWER | |
|--|--|
| GOVERNING CODES: 2012 IPC, 2012 IFGC, 2012 IECC | |
| COMCHECK: ENVELOPE COMCHECK — YES — ON PLANS/NOT REQUIRED/PROVIDED BY ARCH. EQUIPMENT COMCHECK — YES — ON PLANS/NOT REQUIRED | |
| GAS APPLIANCE LABEL INFORMATION | |
| EXAMPLE: WH-1 40MBH (32MBH) | |
| WH-1 HAS A SEA LEVEL INPUT OF 40 MBH. WH-1 HAS AN ALTITUDE INPUT OF 32 MBH. | |
| GAS PIPING LABEL INFORMATION | |
| EXAMPLE: 2"LP (100") 38MBH | |
| LIQUID PROPANE GAS PIPE SHOWN HAS AN INSIDE DIAMETER OF 2" & SUPPLIES 38,000 BTU/HR OF PROPANE. | |
| THE LENGTH INDICATES THE MAX DISTANCE (FROM APPLIANCE TO METER) THAT THIS PIPE SUPPLIES. | |



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Denver, CO 80205
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Denver, CO 80204 FAX: (303) 892-5979
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Issuance Date
PRICING 4/17/2020

Revisions Date No.

Project Information

SOUTH PARK AMBULANCE DISTRICT
Hartsel, CO

Sheet Information

Sheet Title:
PLUMBING NOTES AND LEGEND

Sheet Number:

P0

DPA Project:



2901 Blake Street, Suite 10
Denver, CO 80205
303.861.8555

Consultant



| Issuance | Date |
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| PRICING | 4/17/2020 |

| Revisions | Date | No. |
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Project Information

SOUTH PARK AMBULANCE DISTRICT

Hartsel, CO

Sheet Information

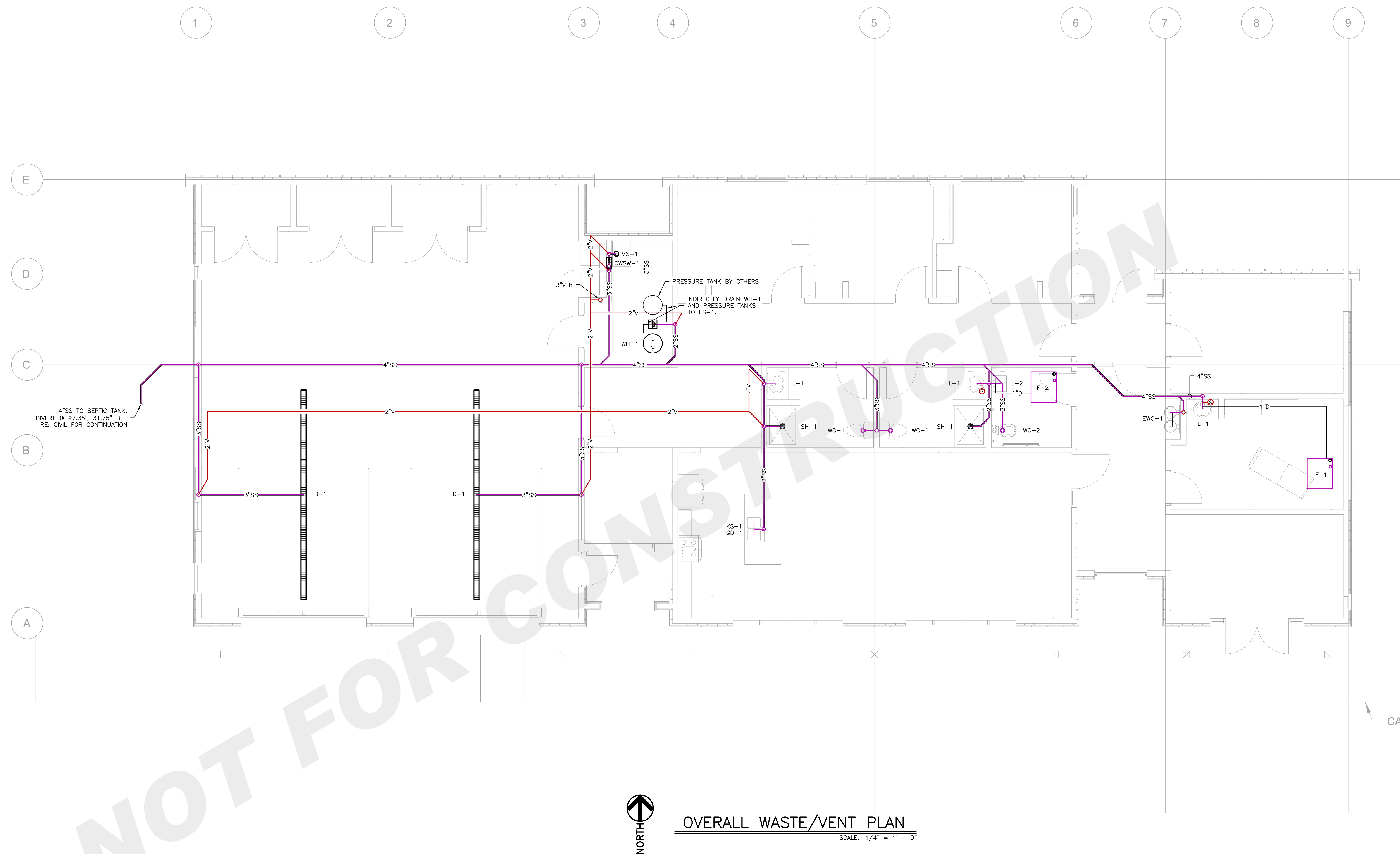
Sheet Title:

OVERALL
WASTE/VENT PLAN

Sheet Number:

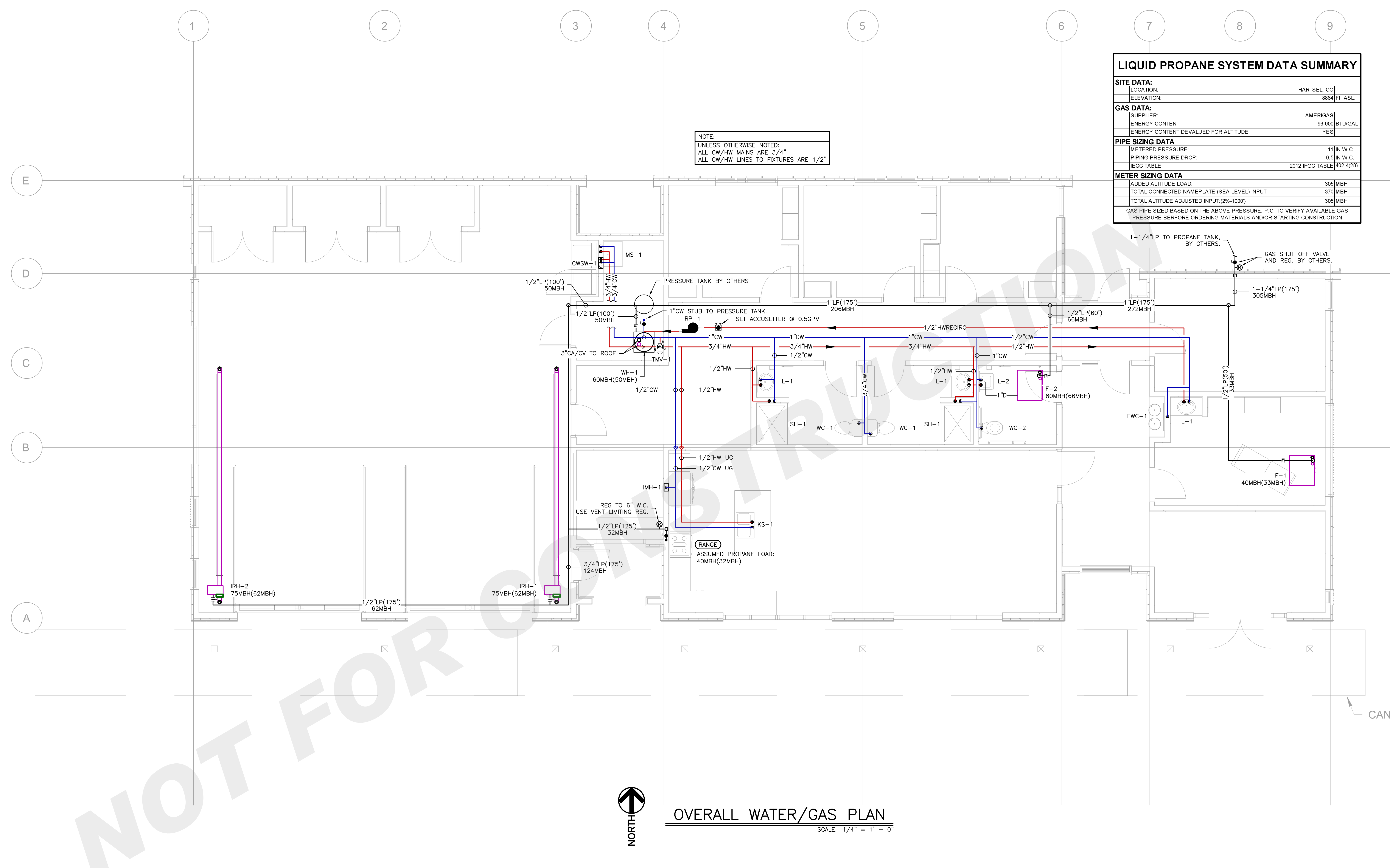
P1

DPA Project:



| LIQUID PROPANE SYSTEM DATA SUMMARY | |
|--|---------------------------|
| SITE DATA: | |
| LOCATION: | HARTSEL, CO |
| ELEVATION: | 8884 Ft. ASL |
| GAS DATA: | |
| SUPPLIER: | AMERIGAS |
| ENERGY CONTENT: | 93,000 BTU/GAL |
| ENERGY CONTENT DEVALUED FOR ALTITUDE: | YES |
| PIPE SIZING DATA | |
| METERED PRESSURE: | 11 IN W.C. |
| PIPING PRESSURE DROP: | 0.5 IN W.C. |
| IECC TABLE: | 2012 IFGC TABLE 402.4(28) |
| METER SIZING DATA | |
| ADDED ALTITUDE LOAD: | 305 MBH |
| TOTAL CONNECTED NAMEPLATE (SEA LEVEL) INPUT: | 370 MBH |
| TOTAL ALTITUDE ADJUSTED INPUT (2%+1000') | 305 MBH |
| GAS PIPE SIZED BASED ON THE ABOVE PRESSURE. P.C. TO VERIFY AVAILABLE GAS PRESSURE BEFORE ORDERING MATERIALS AND/OR STARTING CONSTRUCTION | |

NOTE:
UNLESS OTHERWISE NOTED:
ALL CW/HW MAINS ARE 3/4"
ALL CW/HW LINES TO FIXTURES ARE 1/2"



OVERALL WATER/GAS PLAN
SCALE: 1/4" = 1' - 0"

| Issuance | Date |
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| PRICING | 4/17/2020 |

| Revisions | Date | No. |
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Project Information

SOUTH PARK AMBULANCE DISTRICT
Hartse, CO

Sheet Information

Sheet Title:
OVERALL
WATER/GAS PLAN

Sheet Number:
P2

DPA Project:

| GAS WATER HEATER SCHEDULE | | | | | | | | | | | | | | | | | | |
|-----------------------------|----------------|---------------|-------|-------------------------|-------------|----------|--------|--|---------------------------|---|---|------|------|--------|------------|------------------------------------|-------|-------|
| PLAN CODE | MANUFACTURER | MODEL NO. | GRADE | INPUT MBH* | OUTPUT MBH* | RECOVERY | | TANK STORAGE GAL | CLEARANCE TO COMBUSTIBLES | | | | VENT | | ELECTRICAL | REQUIRED ACCESSORIES &/OR FEATURES | NOTES | |
| | | | | | | GPH | ΔT(°F) | | L | R | B | F | TYPE | SIZE | | | | |
| WH-1 | BRADFORD WHITE | LG2PDV50H603X | COM | 60 | 40.8 | 58 | 100 | 48 | - | - | - | - | P/D | 3" | 120 | 1 | 3.1 | 1.4.8 |
| FOOT NOTES & ABBREVIATIONS: | | | | ACCESSORIES: | | | | CLEARANCE TO COMBUSTIBLES | | | | VENT | | NOTES: | | | | |
| * - AT SEA LEVEL | | | | CON - CONDENSING | | | | 6 - NSF COMPLIANT INSTALLATION | | | | | | | | | | |
| DIR - DIRECT VENT | | | | NAT - NATURAL VENT | | | | 7 - RATED FOR DOMESTIC HOT WATER & SPACE HEATING | | | | | | | | | | |
| POW - POWER VENT | | | | P/D - POWER/DIRECT VENT | | | | 8 - HIGH ALTITUDE ORIFICE KIT | | | | | | | | | | |
| RES - RESIDENTIAL | | | | COM - COMMERCIAL | | | | | | | | | | | | | | |
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| HVAC, PLUMBING, ELECTRICAL, AND GENERAL CONTRACTOR COORDINATION SCHEDULE | | | | | |
|---|---|----------------|----------------|----------------|---|
| CATEGORY | DESCRIPTION OF WORK | FURNISHED BY | MOUNTED BY | WIRED BY | NOTES |
| LOCATING EXISTING UTILITIES | EXTERIOR | G.C. | | | |
| | INTERIOR | P.C. AND E.C. | | | EACH TRADE RESPONSIBLE FOR LOCATING THEIR RESPECTIVE SYSTEMS. |
| TEMPORARY UTILITIES | TEMPORARY HEAT | G.C. | | | |
| | TEMPORARY ELECTRICAL SERVICE | E.C. | E.C. | E.C. | |
| CONCRETE | WATER AND TOILET AND FACILITIES | G.C. | | | |
| | M/E EQUIPMENT PADS, HOUSEKEEPING PADS, CONCRETE SWIMING, PATCHING, CORE DRILLING, AND REPAIR. | G.C. | | | |
| EXCAVATION | EXCAVATION, BACKFILL, AND CONCRETE OR ASPHALT PAVING FOR UTILITIES OR OTHER M/E EQUIPMENT. | G.C. | | | |
| | STRUCTURAL FRAMING FOR SUPPORT. | G.C. | | | G.C. ALSO TO PROVIDE FRAMING FOR PENETRATIONS. |
| HVAC ROOF TOP EQUIPMENT, FIELD BUILT ROOF CURBS/PLATFORMS, AND DUCT CURBS. | FIELD BUILT EQUIPMENT PLATFORMS AND DUCT CURBS, TOP MINIMUM 9" ABOVE FINISHED ROOF. | G.C. | | | G.C. TO CONSTRUCT PLATFORM/CURB FROM 2X10'S AS REQ'D AND CAP WITH 3/4" PLYWOOD AND 40# COATED FELT. |
| | FLASHING OVER THE TOP OF PLATFORMS AND DUCT CURBS. | H.C. | | | H.C. TO PROVIDE 26 GA. G.S. METAL TOP EXTENDING 3" DOWN SIDES. ALL JOINTS SOLDERED WATERTIGHT. |
| FOR ALL ROOF CONSTRUCTION EXCEPT METAL ROOFS. | ROOFING REPAIR AND/OR SEALING OF ROOFING SYSTEM | G.C. | | | |
| | STRUCTURAL FRAMING FOR SUPPORT. | G.C. | | | G.C. ALSO TO PROVIDE FRAMING FOR PENETRATIONS. |
| HVAC ROOF TOP EQUIPMENT, FIELD BUILT ROOF CURBS/PLATFORMS, AND DUCT CURBS. | EQUIPMENT CURBS, PLATFORMS, AND DUCT CURBS. | G.C. | | | G.C. TO OBTAIN ROOF CURBS FROM BUILDING MANUFACTURER ON NEW CONSTRUCTION PROJECTS. |
| | FLASHING OVER THE TOP OF PLATFORMS AND DUCT CURBS. | H.C. | | | H.C. TO PROVIDE 26 GA. G.S. METAL TOP EXTENDING 3" DOWN SIDES. ALL JOINTS SOLDERED WATERTIGHT. |
| METAL ROOFS ONLY. | ROOFING REPAIR AND/OR SEALING OF ROOFING SYSTEM | G.C. | | | |
| | STRUCTURAL FRAMING FOR SUPPORT. | G.C. | | | |
| MECH/ELEC EQUIPMENT AND FIXTURE MOUNTING | HANGERS, MOUNTING HARDWARE, ANCHORS, PIPING STANDS, AND EQUIPMENT LEGS. | H.C. P.C. E.C. | H.C. P.C. E.C. | | EACH TRADE RESPONSIBLE FOR MOUNTING THEIR RESPECTIVE EQUIPMENT. |
| | PITCH PANS FOR EQUIPMENT LEGS OR PIPE STANDS. | H.C. P.C. E.C. | H.C. P.C. E.C. | | EACH TRADE RESPONSIBLE FOR PITCH PANS REQ'D FOR THEIR EQUIPMENT. |
| ROOFING AND ROOF PENETRATIONS | PIPE AND ROUND DUCT/VENT ROOFJACKS. | H.C. P.C. E.C. | H.C. P.C. E.C. | | G.C. TO PROVIDE ROOFJACKS AND FLASHING ON METAL ROOF SYSTEMS. |
| | DRAIN, OVERFLOW SCUPPERS, AND GUTTERS. | G.C. | | | |
| PATCH/REPAIR | ROOFING REPAIR AND/OR SEALING OF ROOFING SYSTEM | G.C. | | | |
| | PATCHING AND REPAIRING OF EXISTING CONSTRUCTION. | G.C. | | | |
| PAINING | EQUIPMENT, DUCTS, PIPES, LOUVERS, AND ETC. | G.C. | | | |
| ACCESS DOORS | FOR M/E EQUIPMENT REQUIRING ACCESS. | H.C. P.C. E.C. | G.C. | | EACH TRADE TO FURNISH ACCESS DOORS AS REQ'D FOR THEIR EQUIP. |
| FIRE RATED CHASES | FOR GREASE DUCTS, FLUES, DUCTS, AND ETC. | G.C. | | | |
| ELECTRICAL | CONTROL TRANSFORMERS FOR HVAC EQUIPMENT | H.C. | E.C. | E.C. | |
| | HVAC CONTROL WIRING 48 VOLTS AND LESS. | H.C. | | H.C. | |
| | HVAC CONTROL WIRING GREATER THAN 48 VOLTS. | E.C. | | E.C. | |
| | HVAC EQUIP. INTERLOCK WIRING HIGH AND LOW VOLTAGE. | E.C. | | E.C. | |
| | CONDUIT FOR ALL WIRING. | E.C. | E.C. | | |
| | DISCONNECT SWITCHES. | E.C. | E.C. | E.C. | |
| | MOTOR STARTERS TO INCLUDE THERMAL OVERLOADS. | H.C. AND P.C. | E.C. | E.C. | EACH TRADE TO FURNISH STARTERS AS REQ'D FOR THEIR EQUIP. |
| | INTERFACED WITH BUILDING FIRE ALARM SYSTEM. | F.A.C. OR E.C. | H.C. | F.A.C. OR E.C. | H.C. TO PROVIDE ACTUAL DUCT SIZE MEASUREMENTS. |
| DUCT MOUNTED SMOKE DETECTORS | IN BUILDING W/O FIRE ALARM/DETECTION SYSTEM. | H.C. | H.C. | E.C. | |
| | INTERLOCKS W/HVAC SYSTEM FANS. | | | E.C. | |
| ABBREVIATIONS: E.C.—ELECTRICAL CONTRACTOR, F.A.C.—FIRE ALARM CONTRACTOR, G.C.—GENERAL CONTRACTOR, H.C.—HVAC CONTRACTOR, M/E—MECHANICAL/ELECTRICAL, P.C.—PLUMBING CONTRACTOR | | | | | |

| COMMERCIAL PIPING INSULATION SCHEDULE 2015 IECC | | | | | | | | | |
|---|--|--|--------------------------------|--------------------------------------|-------------|-------------|---------|------|------|
| SERVICE FLUID OPERATING TEMPERATURE RANGE | | INSULATION CONDUCTIVITY | | THICKNESS OF INSULATION (INCHES) (A) | | | | | |
| | | CONDUCTIVITY (B) BTU-IN/(H·FT ² ·°F) | MEAN RATING TEMPERATURE, °F | NOMINAL PIPE OR TUBE SIZE (INCHES) | | | | | |
| | | | | <1 | 1 TO <1-1/2 | 1-1/2 TO <4 | 4 TO <8 | ≥8 | |
| SERVICE HOT WATER (WITH HEAT TRACE) | | 0.27 MAX | — | 1" | 1" | 1" | 1" | 1" | 1" |
| SERVICE HOT WATER (RE-CIRCULATING) | | 0.27 MAX | — | 1" | 1" | 1" | 1" | 1" | 1" |
| SERVICE HOT WATER (FIRST 8' OF NON-CIRCULATION SYSTEMS AT EQUIPMENT WITHOUT HEAT TRAPS) | | 0.27 MAX | — | 0.5" | 0.5" | 0.5" | 0.5" | 0.5" | 0.5" |
| MECHANICAL SYSTEM PIPING >350°F | | 0.32–0.34 | 250 | 4.5" | 5" | 5" | 5" | 5" | 5" |
| MECHANICAL SYSTEM PIPING 251–350 | | 0.29–0.32 | 200 | 3" | 4.0" | 4.5" | 4.5" | 4.5" | 4.5" |
| MECHANICAL SYSTEM PIPING 201–250 | | 0.27–0.30 | 150 | 2.5" | 2.5" | 2.5" | 3" | 3" | 3" |
| MECHANICAL SYSTEM PIPING 141–200 | | 0.25–0.29 | 125 | 1.5" | 1.5" | 2.0" | 2.0" | 2.0" | 2.0" |
| MECHANICAL SYSTEM PIPING 105–140 | | 0.21–0.27 | 100 | 1.0" | 1.0" | 1.5" | 1.5" | 1.5" | 1.5" |
| MECHANICAL SYSTEM PIPING 40–60 | | 0.21–0.27 | 75 | 0.5" | 0.5" | 1.0" | 1.0" | 1.0" | 1.0" |
| MECHANICAL SYSTEM PIPING <40 | | 0.20–0.26 | 75 | 0.5" | 1.0" | 1.0" | 1.0" | 1.5" | 1.5" |
| ROOF DRAIN (HORIZONTAL OR UNHEATED AREAS) (C) | | 0.27 | — | 0.5" | 0.5" | 0.5" | 0.5 | 0.5 | 0.5" |

FOOTNOTES:
(A) FOR PIPING SMALLER THAN 1 1/2 INCH (38 MM) AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF THESE THICKNESSES BY 1 INCH (25 MM) SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B) BUT NOT TO A THICKNESS LESS THAN 1 INCH (25 MM).
(B) FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, THE MINIMUM THICKNESS (T) SHALL BE DETERMINED USING THE EQUATION IN THE 2015 IECC SECTION C403.2.1.
(C) IECC DOES NOT REQUIRE ROOF DRAINS TO BE INSULATED. INSULATION IS REQUIRED AS GOOD DESIGN PRACTICE.

EXCEPTIONS:
1. FACTORY-INSTALLED PIPING WITHIN HVAC EQUIPMENT TESTED AND RATED IN ACCORDANCE WITH A TEST PROCEDURE REFERENCED BY THIS CODE.
2. FACTORY-INSTALLED PIPING WITHIN ROOM FAN-COILS AND UNIT VENTILATORS TESTED AND RATED ACCORDING TO ARIH 440 (EXCEPT THAT THE SAMPLING AND VARIATION PROVISIONS OF SECTION 6.5 SHALL NOT APPLY) AND B40, RESPECTIVELY.
3. PIPING THAT CONVEYS FLUIDS THAT HAVE A DESIGN OPERATING TEMPERATURE RANGE BETWEEN 60°F (15°C) AND 100°F (41°C).
4. PIPING THAT CONVEYS FLUIDS THAT HAVE NOT BEEN HEATED OR COOLED THROUGH THE USE OF FOSSIL FUELS OR ELECTRIC POWER.
5. STRAINERS, CONTROL VALVES, AND BALANCING VALVES ASSOCIATED WITH PIPING 1 INCH (25 MM) OR LESS IN DIAMETER.
6. DIRECT BURIED PIPING THAT CONVEYS FLUIDS AT OR BELOW 60°F (15°C).

GENERAL NOTES:
— 2015 IECC SECTIONS C403.2.10, C403.2.1 AND C404.4.
— 2015 IECC COMMERCIAL SECTION APPLIES TO ALL BUILDINGS THAT ARE NOT CONSIDERED "RESIDENTIAL BUILDINGS." "RESIDENTIAL BUILDINGS" ARE DETACHED ONE- AND TWO-FAMILY DWELLINGS AND MULTIPLE SINGLE-FAMILY DWELLINGS (TOWNHOUSES) AS WELL AS GROUP R-2, R-3 AND R-4 BUILDINGS THREE STORES OR LESS IN HEIGHT ABOVE GRADE PLANE.
— INSULATION EXPOSED TO WEATHER SHALL BE JACKETED WITH .016" THICK ALUMINUM.
— INSULATION ON COLD PIPES SHALL HAVE A VAPOR BARRIER APPLIED INCLUDING ALL JOINTS AND TERMINATIONS.

| SECTION 15010 – GENERAL HVAC PROVISIONS | |
|--|--|
| 1. WORK INCLUDED. | PROVIDE COMPLETE AND OPERATING HVAC SYSTEMS. THE WORK ALSO INCLUDES THE COMPLETION OF DETAILS NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR THE SUCCESSFUL OPERATION OF ALL SYSTEMS. THIS INCLUDES THE FURNISHING OF ALL MATERIALS FOR FILLING THE SYSTEM TO MAKE IT OPERABLE, INCLUDING WATER, REFRIGERANT, OIL, GREASE, ANTIFREEZE AND BRINE. SEE HVAC, PLUMBING, ELECTRICAL AND GENERAL CONTRACTOR COORDINATION SCHEDULE AND EQUIPMENT SCHEDULES FOR TESTS AND OTHER CONTROLS TO BE PROVIDED. |
| 2. HVAC DRAWINGS. | HVAC DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY SPACE REQUIREMENTS, COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT VIOLATION OF APPLICABLE CODES, STANDARDS, SPECIFICATION REQUIREMENTS, OR EXTRA CHARGES TO THE OWNER. |
| 3. VERIFICATION OF FIELD CONDITIONS. | BEFORE UNDERTAKING EACH PART OF THE WORK, CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH FIELD MEASUREMENTS. PROMPTLY REPORT IN WRITING TO THE MECHANICAL ENGINEER ANY CONFLICT, ERROR OR DISCREPANCY. |
| 4. EQUIPMENT FURNISHED BY OTHERS. | COORDINATE EXACT REQUIREMENTS OF EQUIPMENT FURNISHED BY OTHERS BEFORE PERFORMING ANY WORK. |
| 5. PERMITS. | APPLY FOR AND PAY FOR ALL PERMITS, FEES, LICENSES AND INSPECTIONS FOR THIS DIVISION OF WORK. |
| 6. CODES. | COMPLY WITH ALL APPLICABLE CODES AND UTILITY COMPANY REGULATIONS. IN CASE OF CONFLICT WITH THE CONTRACT DOCUMENTS THE MOST STRINGENT SHALL GOVERN. |
| 7. ACCESS DOORS. | FURNISH ACCESS DOORS TO PROVIDE ACCESS TO ALL FIRE DAMPERS, VALVES, BALANCING DAMPERS, AND OTHER EQUIPMENT REQUIRING ACCESS. ACCESS DOORS FOR INSTALLATION IN FIRE RATED CONSTRUCTION SHALL HAVE APPROPRIATE FIRE RATINGS. |
| 8. SPECIFIED MANUFACTURERS AND ALTERNATES. | AN ACCEPTABLE MANUFACTURER'S NAME AND MODEL NUMBER OF A PRODUCT MAY BE GIVEN FOR AN EXAMPLE. THIS IS THE EQUIPMENT CONTEMPLATED DURING THE DESIGN PROCESS AND FORMING THE BASIS OF A STANDARD OF QUALITY. VERIFY THE MODEL NUMBER IS STILL ACCURATE AND MEETS ALL THE REQUIREMENTS AS SHOWN ON THE DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN THE REQUIREMENTS OF THE DRAWINGS AND THE MODEL NUMBER, THE REQUIREMENTS OF THE DRAWINGS SHALL GOVERN. APPROVED EQUALS SHALL BE ALLOWED UNLESS OTHERWISE NOTED. |
| 9. SUBMITTALS. | <p>A. REQUIRED SUBMITTALS.</p> <p>SUBMIT 5 COPIES OF THE FOLLOWING INFORMATION FOR APPROVAL. ORDER NO MATERIALS OR BEGIN NO WORK UNTIL ALL SUBMITTALS ARE RETURNED APPROVED.</p> <ol style="list-style-type: none"> ALL SCHEDULED EQUIPMENT. CONTROLS AND CONTROL DIAGRAMS. SHOP DRAWINGS REQUIRED TO BE SUBMITTED FOR APPROVAL. OTHER INFORMATION SPECIFICALLY REQUIRED TO BE SUBMITTED FOR APPROVAL. <p>B. REVIEW TIME.</p> <p>ALLOW 5 WORKING DAYS FOR REVIEW OF SUBMITTALS.</p> <p>C. RESUBMISSION.</p> <p>NAME ALL REVISIONS REQUIRED AND RESUBMIT AS REQUIRED FOR INITIAL SUBMITTAL.</p> |
| 10. WARRANTIES. | GUARANTEE ALL WORKMANSHIP, MATERIAL AND EQUIPMENT AND REPLACE ANY FOUND DEFECTIVE WORK WITHOUT COST TO THE OWNER, FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE. |
| 11. OPERATION AND MAINTENANCE MANUALS. | SUBMIT 3 COPIES BOUND IN 8-1/2" X 11" THREE RING, LOOSE LEAF BINDERS. |
| 12. MATERIALS. | ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED. |
| 13. INSTALLATION OF EQUIPMENT. | <p>A. GENERAL.</p> <p>INSTALL ALL WORK IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. ARRANGE ALL EQUIPMENT TO PERMIT EASY REMOVAL OF COILS, MOTORS, FILTERS, AND ALL OTHER PARTS WHICH MIGHT REQUIRE PERIODIC REPLACEMENT OR MAINTENANCE.</p> <p>B. SPACE PREFERENCE.</p> <p>WHERE CONFLICTS OCCUR THE FOLLOWING PREFERENCE SCHEDULE SHALL BE USED:</p> <ol style="list-style-type: none"> RECESSED ELECTRICAL LIGHT FIXTURES. DUCTWORK. SPRINKLER PIPING. SOLID WASTE VENT AND STORM PIPING. LIQUID HEAT TRANSFER AND REFRIGERANT PIPING. DOMESTIC WATER PIPING. ELECTRICAL CONDUITS. <p>ITEMS #2 SHALL NOT HAVE PREFERENCE OVER ITEM #4 BELOW PLUMBING FIXTURES, OR OVER ITEM #7 ABOVE OR BELOW ELECTRIC SWITCH GEAR AND PANELS. NO PIPING CONVEYING FLUIDS SHALL BE INSTALLED DIRECTLY OVER ELECTRICAL EQUIPMENT.</p> |
| 14. DUCTWORK. | <p>A. GENERAL.</p> <p>PROVIDE DUCTWORK IN ACCORDANCE WITH LATEST EDITION OF THE SMACNA METAL DUCT STANDARD.</p> <p>B. INSULATION.</p> <p>REFER TO DUCT INSULATION SCHEDULE.</p> <p>C. SEALING.</p> <p>SEAL ALL SEAMS (LONGITUDINAL AND TRANSVERSE) ON EXTERIOR DUCTWORK.</p> |
| 15. TESTING AND BALANCING. | <p>A. GENERAL.</p> <p>PROVIDE A BALANCE REPORT PERFORMED BY AN INDEPENDENT FIRM CERTIFIED BY NEBB. ABO OR TABS.</p> <p>B. TOLERANCE.</p> <ol style="list-style-type: none"> BALANCE AIR FLOWS TO +/- 10% OF THE VALUES SHOWN ON THE DRAWINGS. BALANCE HYDRONIC FLOWS TO W/N +10% OF THE VALUES SHOWN ON THE DWGS. |

| UNITS LEGEND | |
|--------------|----------------------------------|
| LF | — LINEAR FEET |
| SF | — SQUARE FEET |
| CF | — CUBIC FEET |
| CFM | — CUBIC FEET PER MINUTE |
| GPM | — GALLONS PER MINUTE |
| GPH | — GALLONS PER HOUR |
| Gal | — GALLONS |
| FTM | — FEET PER MINUTE |
| BTU/HR | — BRITISH THERMAL UNITS PER HOUR |
| MBH | — BTU/HR X 1000 |
| IN WG | — INCHES OF WATER GAUGE PRESSURE |
| FT WG | — FEET OF WATER GAUGE PRESSURE |
| PS | — POUNDS PER SQUARE INCH |
| PS | — POUNDS |
| V | — VOLTS |
| A | — AMPS |
| W | — WATTS |
| KW | — KILOWATTS |
| HP | — HORSE POWER |
| HZ | — HERTZ |
| RPM | — REVOLUTIONS PER MINUTE |

| MECHANICAL SYSTEM COMMISSIONING | |
|--|---|
| BUILDING MECHANICAL SYSTEMS SHALL BE COMMISSIONED IN ACCORDANCE WITH 2015 IECC SECTION C408. A COMMISSIONING REPORT PRODUCED BY A THIRD PARTY COMMISSIONING AGENT SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO PASSING THE FINAL MECHANICAL INSPECTION. IT IS THE RESPONSIBILITY OF THE COMMISSIONING AGENT TO PROVIDE THE COMMISSIONING SCOPE OF WORK AND DOCUMENTATION FOR THE HVAC SYSTEM WHICH INCLUDES THE FOLLOWING: | |
| COMMISSIONING SPECIFICATIONS | <p>A COMMISSIONING PLAN WHICH INCLUDES THE FOLLOWING:</p> <p>1. NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSIONING.</p> <p>2. LIST OF THE SPECIFIC EQUIPMENT, APPLIANCES OR SYSTEMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED.</p> <p>3. FUNCTIONS TO BE TESTED INCLUDING BUT NOT LIMITED TO CALIBRATIONS.</p> <p>4. CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED.</p> <p>5. AT A MINIMUM TESTING SHALL AFFIRM WINTER AND SUMMER DESIGN CONDITIONS.</p> <p>6. FUNCTIONAL PERFORMANCE TESTING OF HVAC EQUIPMENT, CONTROLS.</p> <p>7. PRELIMINARY AND FINAL COMMISSIONING REPORTS.</p> <p>SEE 2015 IECC FOR COMPLETE LIST OF REQUIREMENTS.</p> |

| DUCTWORK INSULATION SCHEDULE 2015 IECC | | | | | |
|--|--|-----------------|-------------------------|----------------------------|--|
| TABLE NOTES: | | | | | |
| 1. INSULATION IS NOT REQUIRED (UNLESS OTHERWISE NOTED) ON THE FOLLOWING DUCTS IN RESIDENTIAL APPLICATIONS: | | | | | |
| A. EXHAUST DUCTS. | | | | | |
| B. DUCTS LOCATED IN THE CONDITIONED SPACE. | | | | | |
| C. RETURN DUCTS LOCATED IN RETURN PLENUMS. | | | | | |
| D. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY AND SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED SPACE BY A MINIMUM OF R-8 INSULATION. | | | | | |
| 2. INSULATION IS NOT REQUIRED (UNLESS OTHERWISE NOTED) ON THE FOLLOWING DUCTS IN COMMERCIAL APPLICATIONS: | | | | | |
| A. EXHAUST DUCTS. | | | | | |
| B. DUCTS LOCATED IN THE CONDITIONED SPACE. | | | | | |
| C. RETURN DUCTS LOCATED IN RETURN PLENUMS. | | | | | |
| D. SUPPLY DUCTS IF TEMPERATURE DIFFERENCE BETWEEN THE INSIDE AND OUTSIDE OF DUCT DOES NOT EXCEED: | | | | | |
| E. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY AND SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED SPACE BY A MINIMUM OF R-8 INSULATION. | | | | | |
| 3. (IT IS BELFAF ENGINEER'S INTERPRETATION THAT A SUPPLY DUCT IS CONSIDERED TO BE WITHIN A CONDITIONED SPACE WHEN LOCATED IN A RETURN AIR PLENUM IF THE PLENUM IS INSULATED FROM THE EXTERIOR &/OR UNCONDITIONED SPACE(S) BY MIN. R-8 INSULATION. (2015 IECC: C403.2.9)) | | | | | |
| 4. IF TABLE AND PLANS CONFLICT, THE MORE STRINGENT SHALL APPLY. | | | | | |
| APPLICATION | DUCT LOCATION | DUCT SERVICE | INSULATION MIN. R-VALUE | NOM. INSULATION THICKNESS* | |
| RESIDENTIAL | EXPOSED TO WEATHER ON THE EXTERIOR OF THE BUILDING OR LOCATED IN AN UNCONDITIONED ATTIC. | SUPPLY/RETURN | 8 | WRAP: NOT ALLOWED | |
| | IN UNCONDITIONED BASEMENTS, CRAWL SPACES, GARAGES, & OTHER UNCONDITIONED SPACES. | SUPPLY/RETURN | 6 | WRAP: 2"-2.2" | |
| COMMERCIAL | EXPOSED TO WEATHER ON THE EXTERIOR OF THE BUILDING. | SUPPLY & RETURN | 12 | WRAP: NOT ALLOWED | |
| | IN UNCONDITIONED ATTICS, BASEMENTS, CRAWL SPACES, GARAGES, & OTHER UNCONDITIONED SPACES. | SUPPLY & RETURN | 6 | WRAP: 2"-2.2" | |
| ** — ACTUAL INSULATION THICKNESS MAY VARY BY MANUFACTURER. THICKNESS LISTED IN TABLE & DESIGN BASED ON OWENS CORNING, QUIET-R DUCT LINER & OWENS CORNING, SOFTR-ALL-SERVICE FIBER GLASS DUCT WRAP. | | | | | |

| HVAC PLAN CODE/SYMBOL LEGEND | |
|------------------------------|---|
| CO-1 | 12/12 800 GRILLE, REGISTER, AND/OR DIFFUSER IDENTIFICATION. PLAN CODE — CO-1, NECK SIZE — 12/12", CFM THRU DEVICE — 800. |
| EXIST 800 | EXISTING AIR DEVICE TO BE REBALANCED TO 800 CFM. |
| RELOC 800 | RELOCATED AIR DEVICE TO BE REBALANCED TO 800 CFM. |
| II | 12/12 800 VLT BOX IDENTIFICATION. PLAN CODE — II, NECK SIZE — 12/12, DESIGN CFM — 800. |
| VAV-1 | VAV BOX IDENTIFICATION. PLAN CODE — VAV-1. |
| BB-1 | 8 ELECTRIC BASEBOARD HEATER IDENTIFICATION. PLAN CODE — BB-1, LENGTH — 8 FT. |

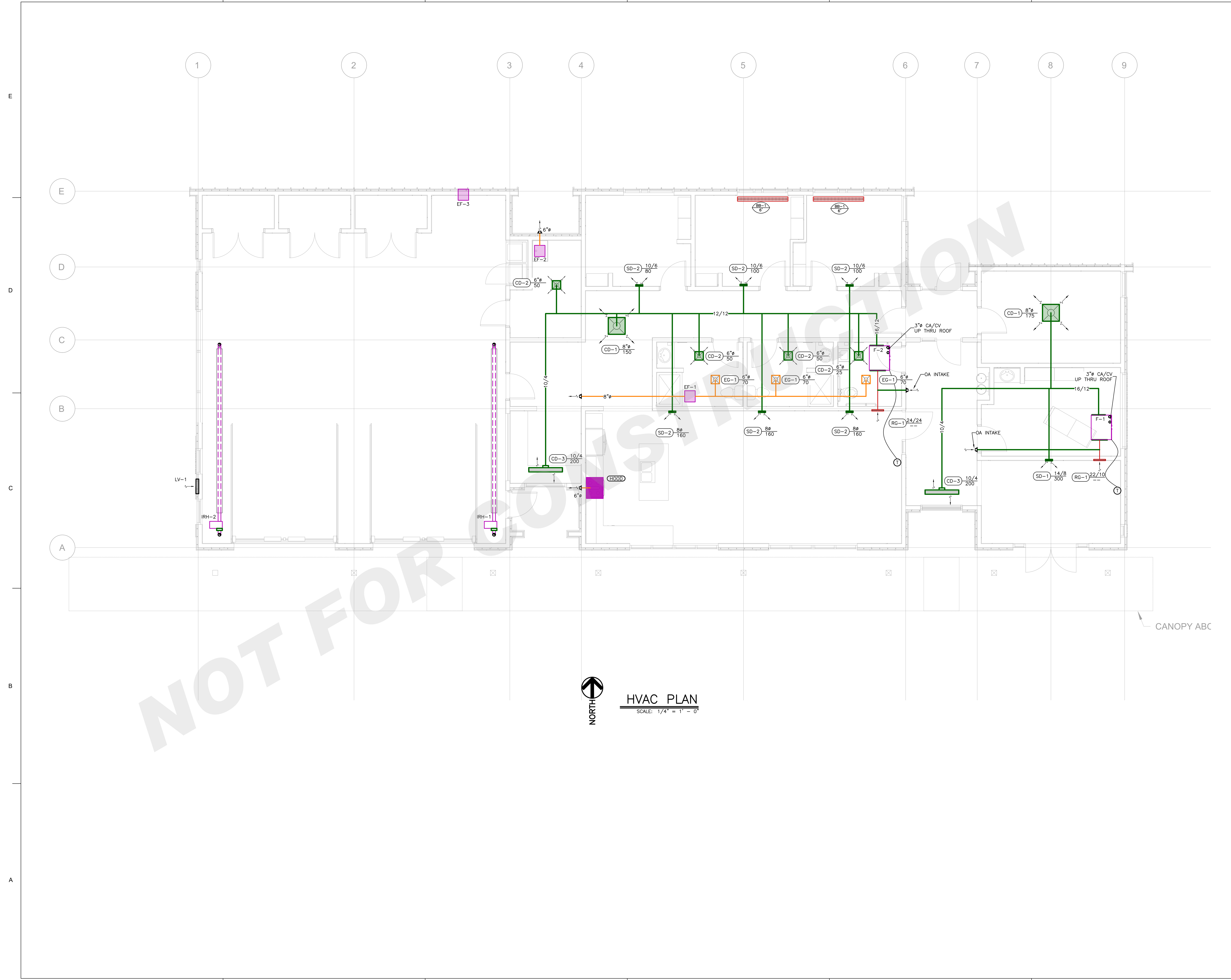
| ABBREVIATION LEGEND | |
|---------------------|--|
| AFC | — ABOVE FINISH CEILING |
| AFI | — ABOVE FINISH FLOOR |
| ARCH | — ARCHITECT |
| BFC | — BELOW FINISH CEILING |
| BFI | — BELOW FINISH FLOOR |
| BD | — BOTTOM OF DUCT |
| BO | — BOTTOM OF EQUIPMENT |
| CA | — COMBUSTION AIR |
| CAU | — CIRCULATING |
| CLD | — COOLING OR CEILING, DEPENDING ON CONTEXT |
| DN | — DOWN |
| DR | — DRYER VENT |
| DX | — DIRECT EXPANSION (OF REFRIGERANT) |
| EA | — EXHAUST AIR |
| EA | — EACH |
| E.C. | — ELECTRICAL CONTRACTOR |
| EER | — ENERGY EFFICIENCY RATIO |
| ESP | — EXTERNAL STATIC PRESSURE |
| G.C. | — GENERAL CONTRACTOR |
| H.C. | — HVAC CONTRACTOR |
| HTG | — HEATING |
| ID | — INSIDE DIMENSIONS |
| MA | — MAKE-UP AIR |
| MAX | — MAXIMUM |
| M.C. | — MECHANICAL CONTRACTOR |
| MIN | — MINIMUM |
| NO | — NUMBER |
| OA | — OUTSIDE AIR (NOT CONDITIONED) |
| P.C. | — PLUMBING CONTRACTOR |
| PH | — PHASE |
| PRESS. | — PRESSURE |
| RA | — RETURN AIR |
| REQ'D | — REQUIRED |
| SA | — SUPPLY AIR |
| SEER | — SEASONAL ENERGY EFFICIENCY RATIO |
| SHC | — SENSIBLE HEAT CAPACITY |
| SP | — STATIC PRESSURE |
| TA | — TRANSFER AIR |
| TDH | — TOTAL DYNAMIC HEAD PRESSURE |
| TH | — TOTAL HEAT CAPACITY |
| TP | — TOTAL PRESSURE |
| TYR | — TYPICAL |
| U.O.N. | — UNLESS OTHERWISE NOTED |
| V | — VENTILATION AIR |
| WT | — WEIGHT |

| HVAC LEGEND | |
|---------------------|---|
| SYMBOL | DESCRIPTION |
| [28/14] | WRAPPED DUCTWORK. FIRST FIGURE IS SIDE SHOWN. DIMENSIONS IN BRACKETS ARE CLEAR INSIDE. SEE INSULATION SCH. FOR THICKNESS. |
| 27/12 (26/11 ID) | UNED DUCTWORK. FIRST FIGURE IS SIDE SHOWN. DIMENSIONS IN PARENTHESES ARE CLEAR INSIDE. 27/12 ARE OUTSIDE DIMENSIONS. |
| [Hatched Box] | ROUND SPIRAL DUCT. |
| [Dashed Box] | EXISTING DUCTWORK TO REMAIN. |
| 27/13 | DUCT SECTION, POSITIVE PRESSURE. FIRST FIGURE IS TOP. |
| 27/13 | DUCT SECTION, NEGATIVE PRESSURE. FIRST FIGURE IS TOP. |
| 27/13 | DUCT SECTION, NATURAL FLOW. FIRST FIGURE IS TOP. |
| [Dashed Line] | FLEXIBLE DUCTWORK |
| [Dashed Line] | EXISTING FLEXIBLE DUCTWORK. |
| [Fitting Symbol] | SPIN-IN FITTING WITH DAMPER. |
| [Damper Symbol] | FIRE DAMPER IN HORIZONTAL DUCT, PROVIDE W/SLEEVE AND ACCESS DOOR. |
| [Damper Symbol] | FIRE DAMPER IN VERTICAL DUCT. |
| [Damper Symbol] | RADIATION DAMPER. |
| [Damper Symbol] | COMBINATION FIRE/SMOKE DAMPER W/SLEEVE AND ACCESS DOOR. |
| [Damper Symbol] | SMOKE DAMPER |
| [Wall Symbol] | 1 HOUR RATED WALL. |
| RTU-1 | THERMOSTAT, RTU-1 CONTROLLED EQUIPMENT. MOUNT @ 48" AFF FOR ADA FORWARD REACH. MOUNT @ 54" AFF FOR ADA SIDE REACH. |
| [Sensor Symbol] | REMOTE SENSOR. |
| [Connection Symbol] | CONNECTION TO EXISTING DUCTWORK OR PIPING. SEE CONNECTION LEGEND FOR DESCRIPTION. |
| [Detector Symbol] | DUCT MOUNTED SMOKE DETECTOR. 1 — FIRE ALARM SYSTEM ZONE 1. SEE NOTES FOR MECH/ELEC RESPONSIBILITIES. |
| [Access Symbol] | DUCT MOUNTED ACCESS DOOR. |
| [Panel Symbol] | 24"x12" LAY-IN PERFORATED RETURN PANEL. |
| [Panel Symbol] | 24"x24" LAY-IN PERFORATED RETURN PANEL. |
| [Panel Symbol] | 24"x24" LAY-IN PERFORATED RETURN PANEL W/INSULATED BOOT. |
| [Diffuser Symbol] | NEW CEILING MOUNTED SUPPLY DIFFUSER. |
| [Diffuser Symbol] | NEW CEILING MOUNTED FIRE RATED DIFFUSER ASSEMBLY CONSISTING OF DIFFUSER, RADIATION DAMPER AND RADIATION BLANKET. |
| [Diffuser Symbol] | EXISTING CEILING MOUNTED SUPPLY TO REMAIN. |
| [Diffuser Symbol] | RELOCATED CEILING MOUNTED SUPPLY. |
| [Diffuser Symbol] | NEW LINEAR SLOT CEILING DIFFUSER. |
| [Door Symbol] | DOOR UNDERCUT TO BE USED FOR AIR TRANSFER. UNDERCUT TO BE 1" U.O.N. |
| [Heater Symbol] | BASEBOARD HEATER. |

| DESIGN SUMMARY FOR PLAN REVIEWER | |
|--|--|
| GOVERNING CODES: 2012 IMC, 2012 IECC | |
| COMCHECK: | |
| ENVELOPE COMCHECK — PROVIDED BY OTHERS | |
| EQUIPMENT COMCHECK — ON PLANS | |
| HVAC SYSTEM: | |
| VENTILATION METHOD — MECHANICAL | |



| Issuance | Date |
|----------|-----------|
| PRICING | 4/17/2020 |



HVAC PLAN
SCALE: 1/4" = 1' - 0"

| ELECTRIC BASEBOARD SCHEDULE | | | | | | | | |
|--|------------------------------|-------|------------|----|------|--------------------------------|-------|--|
| PLAN CODE | MANUFACTURER MODEL NUMBER | KW/FT | ELECTRICAL | | | OPTIONS SEE LEGEND BELOW | NOTES | |
| | | | VOLT | PH | AMPS | | | |
| BB-1 | QMARK #2513W | 0.25 | 120 | 1 | 6.25 | 2 | A | |
| OPTIONS LEGEND: 1- LINE VOLTAGE T'STAT, 2- UNIT MOUNTED T'STAT | | | | | | | | |
| NOTES: A - BB-1 IS 6' LONG, 1500 WATTS TOTAL. | | | | | | | | |

| GAS FIRED FURNACE SCHEDULE | | | | | | | | | | | | | | | | | | | | |
|---|---------|---------------|---------------------|-----|------|----|----------------|--------------|---------------------|---|---------------------|------------|----------------|---------|-----------------|------------------------------|---------|--|-------|------------------------|
| EQUIPMENT SELECTION | | | UTILITIES** | | | | | | UNIT WEIGHT (LBS.)† | REQUIRED EQUIPMENT PERFORMANCE | | | | | | | | LIST OF REQUIRED FEATURES (SEE LEGEND BELOW) | NOTES | |
| PLAN CODE | MANUF | MODEL NUMBER | HEATER INPUT* (MBH) | HP | VOLT | PH | MAX FUSE AMPS† | MIN CKT AMPS | | VENTING TYPE | CABINET ORIENTATION | DRIVE TYPE | MIN FAN SPEEDS | FAN CFM | MIN ESP IN. WG. | MINIMUM OCCUPIED VENTILATION | A.F.U.E | | | MIN. HTG. OUTPUT (MBH) |
| F-1 | CARRIER | 59SC2C-040-10 | 40 | 1/3 | 115 | 1 | 15 | 7.5 | 121 | P/D | HORZ. LEFT | DIRECT | 4 | 910 | 0.1 | 10% | 92.1 | 34 | 1,2,6 | A |
| F-2 | CARRIER | 59SC2C-080-20 | 80 | 1/2 | 115 | 1 | 15 | 10.3 | 132 | P/D | HORZ. RIGHT | DIRECT | 5 | 1115 | 0.15 | 14% | 92.1 | 69 | 1,2,6 | A |
| ABBREVIATIONS & FOOTNOTES: PH - PHASE ESP - EXTERNAL STATIC PRESSURE VFD - VARIABLE FREQUENCY DRIVE * - AT SEA LEVEL ** - MANUFACTURER AND MODEL SPECIFIC VALUES. COORDINATE SUBSTITUTION WITH PLUMBING, ELECTRICAL, AND STRUCTURAL ENGINEERS † - WHERE CURRENT DOES NOT EXCEED 60 A. HACR C.B. MAY USED. | | | | | | | | | | REQUIRED FEATURES LEGEND: 1 - 1" DISPOSABLE FILTERS 2 - PROGRAMMABLE THERMOSTAT 3 - CONCENTRIC THERMOSTAT 4 - TWINNING KIT 5 - CONDENSATE FREEZE PROTECTION KIT 6 - GAS CONVENTION KIT - NAT TO PROPANE | | | | | | | | NOTES: A - GAS TYPE : PROPANE | | |

| INFRA-RED TUBE HEATER SCHEDULE | | | | | | | | | | | | | | |
|--|---------------|--------------|----------|--------------|--------------|-----------------|--------------|---|------------|------|----|-----------|--|-------|
| PLAN CODE | MANUFACTURER | MODEL NUMBER | GAS TYPE | TUBE CONFIG. | TUBE LENGTH. | OVER-ALL LENGTH | INPUT BTU/HR | MTG HT AFF | ELECTRICAL | | | UNIT WT # | LIST OF FEATURES AND OPTIONAL EQUIPMENT (SEE LEGEND BELOW) | NOTES |
| | | | | | | | | | AMPS | VOLT | PH | | | |
| IRH - 1 & 2 | RE-VERBER-RAY | DX3L-30-75 | PROPANE | STRAIGHT | 20' | 21'-5" | 75000 | 13' | 4.8 | 120 | 1 | 160 | 1 | A,B |
| ABBREVIATIONS AFF - ABOVE FINISHED FLOOR HT - HEIGHT MTG - MOUNTING | | | | | | | | FEATURES AND OPTIONAL EQUIPMENT LEGEND: 1 - 24V T'STAT 2 - PROGRAMMABLE NIGHT SETBACK T'STAT, TRANSFORMER, AND RELAY 3 - DUAL EXHAUST ASSY | | | | | | |
| | | | | | | | | NOTES: A - THE 4.8 AMPS IS IGNITION CURRENT. B - MOUNTING ANGLE 45° | | | | | | |

| FAN SCHEDULE | | | | | | | | | | | | | | | | |
|--|------------------|--|------------|---------|--------------------|---------|-----------------|-------------|---|-----|-----------|--------------|------------------------------------|--------------------------------------|--|-------|
| PLAN CODE | DESCRIPTION | FAN TYPE | DRIVE TYPE | ALT CFM | STD. S.P. IN. W.G. | FAN RPM | GENERATED SOUND | ELECTRICAL | | | UNIT WT # | MANUFACTURER | MODEL NUMBER AND/OR CATALOG NUMBER | LIST OF FEATURES. (SEE LEGEND BELOW) | PLAN CODE(S) OF EQUIP. TO INTERLOCK WITH | NOTES |
| | | | | | | | | HP OR WATTS | VOLTS | PH* | | | | | | |
| EF-1 | BATHROOM EXHAUST | FC | DIRECT | 210 | 0.3 | 923 | 1.6 SONES | 27W | 115 | 1 | 24 | GREENHECK | CSP-A390-VG | 1,4 | OCC | |
| EF-2 | JANITOR EXHAUST | FC | DIRECT | 75 | 0.2 | 700 | 2.9 SONES | 50W | 115 | 1 | 10 | GREENHECK | SP-B90 | 1,4 | OCC | |
| EF-3 | GARAGE EXHAUST | FC | DIRECT | 1050 | 0.1 | 999 | 4.3 SONES | 1/4HP | 115 | 1 | 29 | GREENHECK | SE1-14-432-VG | 1,16 | CO-CP | |
| FAN TYPE LEGEND: BI - BACKWARD INCLINED FC - FORWARD CURVED P - PROPELLER RB - RADIAL BLADE VA - VANE AXIAL | | GENERAL REQUIREMENTS: -SUPPLY ALL 3 PHASE FAAN MOTORS W/ MAGNETIC CONTACT STARTERS. -SUPPLY ALL 1 PHASE FAN MOTORS W/INTERNAL DISCONNECTING MEANS & AUTO-RESET THERMAL PROTECTION -SUPPLY ALL BELT DRIVE FAN MOTORS W/ADJUSTABLE PITCHED SHELVES. | | | | | | | FEATURES: 1 - GRAVITY BACKDRAFT DAMPER 2 - MOTORIZED BACKDRAFT DAMPER 3 - ROOF CAP 4 - WALL CAP 5 - FACTORY CURB 6 - FACTORY VENTILATED CURB 7 - SPRING MOUNT ISOLATORS 8 - RUBBER MOUNT ISOLATORS 9 - IN-LINE ADAPTER PLATE 10 - GREASE TROUGH 11 - THREADED GREASE DRAIN CONNECTION 12 - OSHA GUARD 13 - INSULATED CABINET 14 - MOTOR WEATHER HOOD 15 - LONG WALL HOUSING 16 - SHORT WALL HOUSING 17 - CLOSURE ANGLES 18 - SPEED CONTROLLER 19 - OTHER | | | | | | | |
| NOTES: | | | | | | | | | | | | | | | | |

| GRILLES, REGISTER AND DIFFUSER SCHEDULE | | | | | | | | | | |
|--|---|---------|--------------------|------------------|----------|--------------|----------|--------------------------|-----------------------|--|
| PLAN CODE | DESCRIPTION (NECK SIZE & AIRFLOW AS NOTED ON PLANS) | SERVICE | MATERIAL OF CONST. | AIR FLOW PATTERN | MOUNTING | DAMPER TYPE† | FINISH | MANUFACTURER MAKE/MODEL# | REMARKS | |
| CD-1 | 24/24 FIXED VANE, ROUND NECK DIFFUSER | SUPPLY | STEEL | 360° | SURFACE | OB | PER ARCH | PRICE SCD | PROVIDE PLASTER FRAME | |
| CD-2 | 12/12 FIXED VANE, ROUND NECK DIFFUSER | SUPPLY | STEEL | 360° | SURFACE | OB | PER ARCH | PRICE SCD | PROVIDE PLASTER FRAME | |
| CD-3 | TBAR SLOT DIFFUSER, 4" LENGTH, 1" SLOT | SUPPLY | STEEL | 360° | SURFACE | OB | PER ARCH | PRICE TBD6 | PROVIDE PLASTER FRAME | |
| SD-1 | ADJUSTABLE DOUBLE DEFLECTION SIDE WALL DIFFUSER | SUPPLY | STEEL | 4-WAY | SURFACE | OB | PER ARCH | PRICE 520 | | |
| SD-2 | CONCENTRIC RING NOZZEL DIFFUSER | SUPPLY | STEEL | 60° ARC | SURFACE | OB | PER ARCH | PRICE AND | | |
| RG-1 | 24/24 PERFORATED CEILING GRILLE | RETURN | STEEL | N/A | SURFACE | -- | PER ARCH | PRICE PDDR | PROVIDE PLASTER FRAME | |
| RG-2 | 45° DEFLECTION BAR GRILLE, 3/4" SPACING | RETURN | STEEL | N/A | SURFACE | -- | PER ARCH | PRICE 530 | | |
| EG-1 | 12/12 PERFORATED CEILING GRILLE | EXHASUT | STEEL | N/A | SURFACE | -- | PER ARCH | PRICE PDDR | PROVIDE PLASTER FRAME | |
| † DAMPER TYPES: B.F. - BUTTERFLY, O.B. - OPPOSED BLAD, P.B. - PARALLEL BLADE | | | | | | | | | | |

| LOUVER SCHEDULE | | | | | | | | | | |
|--|--------------|-----------|------------------------------|---|---------|---------------------|-----------------------|------------------------|----------------------------|-------|
| PLAN CODE | MANUFACTURER | MODEL NO. | DESCRIPTION | OVERALL SIZE W/H (IN)* | SERVICE | AIR FLOW RATE (CFM) | MIN. FREE AREA (SF)** | ACTUAL FREE AREA (SF)* | MAX. PRESS. DROP † (IN WG) | NOTES |
| LV-4 | GREENHECK | ECD-401 | MOTORIZED | 26"Wx20"H | INTAKE | 1050 | 1.4 | -- | 0.07 | -- |
| DAMPER TYPES: BF - BUTTERFLY OB - OPPOSED BLADE PB - PARALLEL BLADE | | | M - MOTORIZED G - GRAVITY | * - MANUFACTURER & MODEL SPECIFIC INFORMATION, MAY VARY WITH SUBSTITUTIONS. ** - AS DIRECTED BY COMB. AIR REQUIREMENTS, MAX. AIR VELOCITY, &/OR MODEL'S WATER PENETRATION VELOCITY. † - INCLUDING LOUVER & DAMPER | | | NOTES: | | | |



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| Issuance | Date |
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| PRICING | 4/17/2020 |

| Revisions | Date | No. |
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Project Information

SOUTH PARK AMBULANCE DISTRICT

Hartsel, CO

Sheet Information

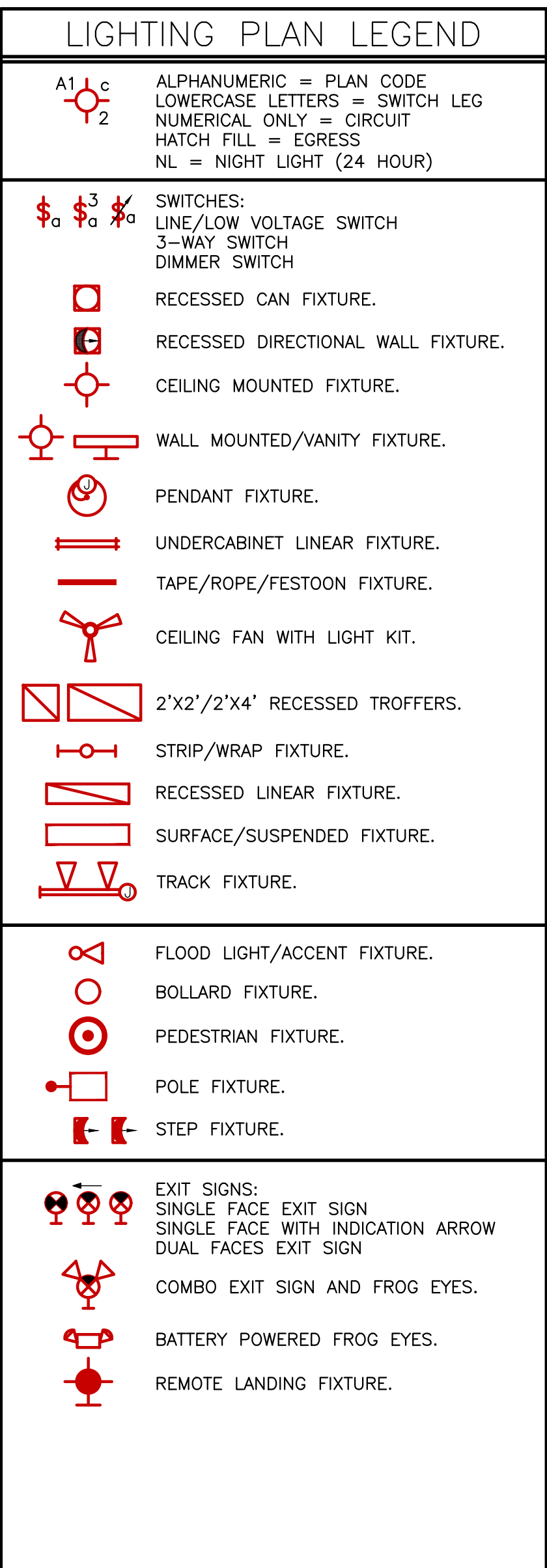
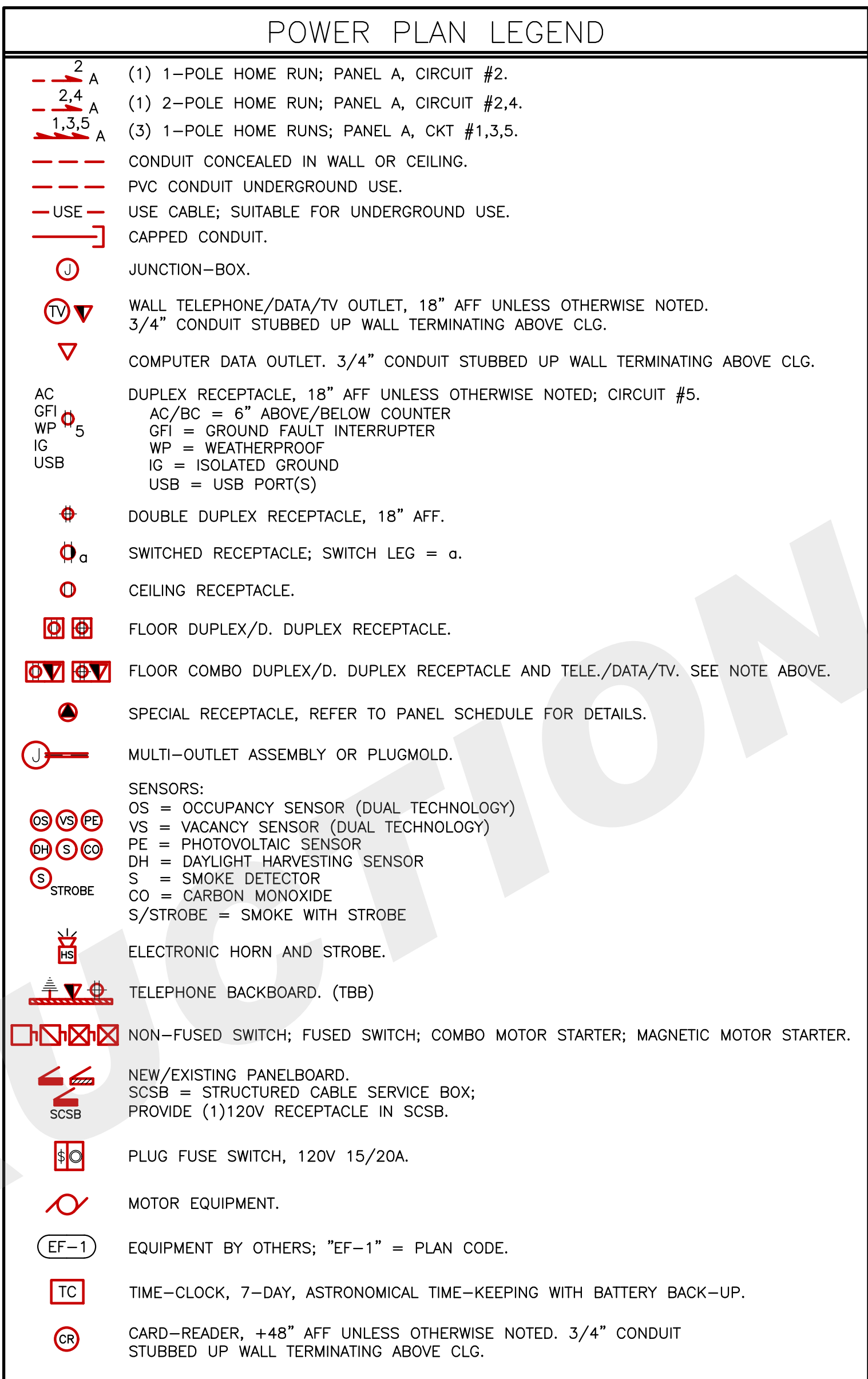
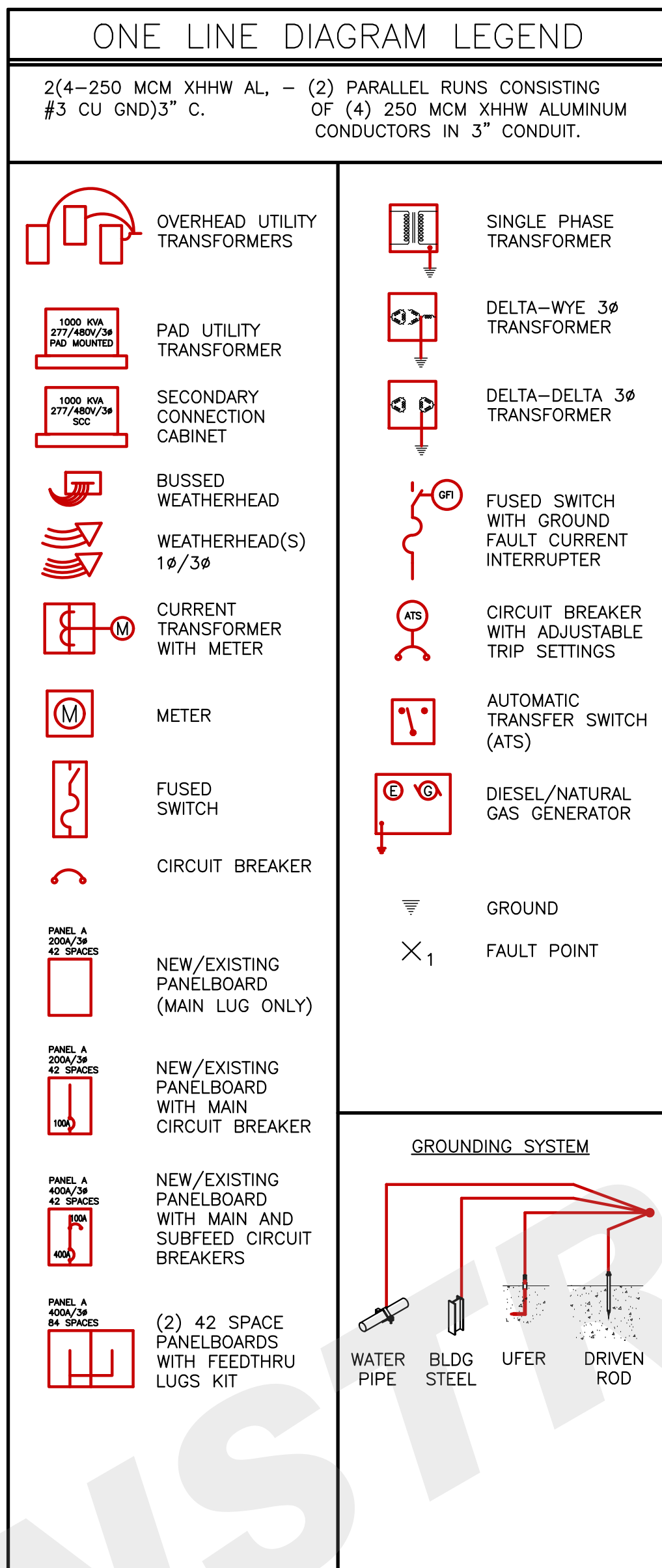
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M2

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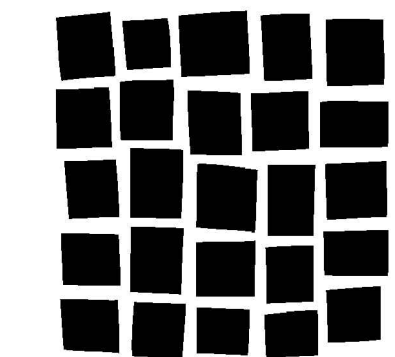
| HVAC, PLUMBING, ELECTRICAL, AND GENERAL CONTRACTOR COORDINATION SCHEDULE | | | | | |
|--|--|----------------|------------|-------------|---|
| CATEGORY | DESCRIPTION OF WORK | FURNISHED BY | MOUNTED BY | WIRED BY | |
| LOCATING EXISTING UTILITIES | EXTERIOR. | G.C. | | | |
| | INTERIOR. | P.C./E.C. | | | EACH TRADE RESPONSIBLE FOR LOCATING THEIR RESPECTIVE SYSTEMS. |
| TEMPORARY UTILITIES | TEMPORARY HEAT. | G.C. | | | |
| | TEMPORARY ELECTRICAL SERVICE. | E.C. | E.C. | E.C. | |
| | WATER AND TOILET AND FACILITIES. | G.C. | | | |
| CONCRETE | M/E EQUIPMENT PADS, HOUSEKEEPING PADS, CONCRETE SAWING, PATCHING, CORE DRILLING, AND REPAIR. | G.C. | | | |
| EXCAVATION | EXCAVATION, BACKFILL, AND CONCRETE OR ASPHALT PAVING FOR UTILITIES OR OTHER M/E EQUIPMENT. | G.C. | | | |
| ROOF TOP, FIELD BUILT EQUIPMENT PLATFORMS AND DUCT CURBS. | STRUCTURAL FRAMING FOR SUPPORT. | G.C. | | | |
| | FIELD BUILT EQUIPMENT PLATFORMS AND DUCT CURBS, TOP MINIMUM 9" ABOVE FINISHED ROOF. | G.C. | | | G.C. TO CONSTRUCT PLATFORM/CURB FROM 2X10'S AS REQ'D AND CAP WITH 3/4" PLYWOOD AND 40# COATED FELT. |
| | FLASHING OVER THE TOP OF PLATFORMS AND CURBS. | H.C. | | | H.C. TO PROVIDE 26 GA. G.S. METAL TOP EXTENDING 3" DOWN SIDES. ALL JOINTS SOLDERED WATERTIGHT. |
| | ROOFING REPAIR AND/OR SEALING OF ROOFING SYSTEM. | G.C. | | | |
| EQUIPMENT AND FIXTURE MOUNTING | STRUCTURAL FRAMING FOR SUPPORT. | G.C. | | | |
| | HANGERS, MOUNTING HARDWARE, ANCHORS, PIPING STANDS, AND EQUIPMENT LEGS. | H.C./P.C./E.C. | | | EACH TRADE RESPONSIBLE FOR MOUNTING THEIR RESPECTIVE EQUIPMENT. |
| ROOFING AND ROOFING PENETRATIONS | PIPE AND ROUND DUCT/VENT ROOFJACKS. | H.C./P.C./E.C. | | | EACH TRADE RESPONSIBLE FOR ROOFJACKS REQ'D FOR THEIR EQUIPMENT. |
| | PITCH PANS FOR EQUIPMENT LEGS OR PIPE STANDS. | H.C./P.C./E.C. | | | EACH TRADE RESPONSIBLE FOR PITCH PANS REQ'D FOR THEIR EQUIPMENT. |
| | DRAIN, OVERFLOW SCUPPERS, AND GUTTERS. | G.C. | | | |
| | ROOFING REPAIR AND/OR SEALING OF ROOFING SYSTEM. | G.C. | | | |
| PAINTING | EQUIPMENT, DUCTS, PIPES, LOUVERS, AND ETC. | G.C. | | | |
| ACCESS DOORS | FOR M/E EQUIPMENT REQUIRING ACCESS. | H.C./P.C./E.C. | G.C. | | EACH TRADE TO FURNISH ACCESS DOORS AS REQ'D FOR THEIR EQUIP. |
| FIRE RATED CHASES | FOR GREASE DUCTS, FLUES, DUCTS, AND ETC. | G.C. | | | |
| ELECTRICAL | CONTROL TRANSFORMERS FOR HVAC EQUIPMENT. | H.C. | E.C. | | |
| | HVAC CONTROL WIRING 48 VOLTS AND LESS. | H.C. | | H.C. | |
| | HVAC CONTROL WIRING GREATER THAN 48 VOLTS. | E.C. | | E.C. | |
| | HVAC EQUIP. INTERLOCK WIRING HIGH AND LOW VOLTAGE | E.C. | | E.C. | |
| | CONDUIT FOR ALL WIRING. | E.C. | E.C. | | |
| | DISCONNECT SWITCHES. | E.C. | E.C. | E.C. | |
| | MOTOR STARTERS TO INCLUDE THERMAL OVERLOADS. | H.C./P.C. | E.C. | E.C. | EACH TRADE TO FURNISH STARTERS AS REQ'D FOR THEIR EQUIP. |
| DUCT MOUNTED SMOKE DETECTORS | INTERFACED WITH BUILDING FIRE ALARM SYSTEM. | F.A.C./E.C. | H.C. | F.A.C./E.C. | H.C. TO PROVIDE ACTUAL DUCT SIZE MEASUREMENTS. |
| | IN BUILDING W/O FIRE ALARM/DETECTION SYSTEM. | H.C. | H.C. | E.C. | |
| | INTERLOCKS W/HVAC SYSTEM FANS. | | | | |
| ABBREVIATIONS: E.C.—ELECTRICAL CONTRACTOR, F.A.C.—FIRE ALARM CONTRACTOR, G.C.—GENERAL CONTRACTOR, H.C.—HVAC CONTRACTOR, P.C.—PLUMBING CONTRACTOR | | | | | |



| GENERAL ELECTRICAL PROVISIONS | |
|-------------------------------------|---|
| 1. ELECTRICAL DRAWINGS | ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY SPACE REQUIREMENTS, COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT VIOLATION OF APPLICABLE CODES, STANDARDS, SPECIFICATION REQUIREMENTS, OR EXTRA CHARGES TO THE OWNER. |
| 2. VERIFICATION OF FIELD CONDITIONS | BEFORE UNDERTAKING EACH PART OF THE WORK, CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH FIELD MEASUREMENTS. PROMPTLY REPORT IN WRITING TO THE ELECTRICAL ENGINEER ANY CONFLICT, ERROR OR DISCREPANCY. |
| 3. EQUIPMENT FURNISHED BY OTHERS | COORDINATE EXACT ELECTRICAL REQUIREMENTS (VOLTAGE, PHASE, AMPS, AND ETC.) OF EQUIPMENT FURNISHED BY OTHERS BEFORE PERFORMING WORK. |
| 4. PERMITS | APPLY FOR AND PAY FOR ALL PERMITS, FEES, LICENSES AND INSPECTIONS FOR THIS DIVISION OF WORK. |
| 5. CODES | COMPLY WITH ALL APPLICABLE CODES AND UTILITY COMPANY REGULATIONS. IN CASE OF CONFLICT WITH THE CONTRACT DOCUMENTS THE MOST STRINGENT SHALL GOVERN. |
| 6. ACCESS DOORS | FURNISH ACCESS DOORS TO PROVIDE ACCESS TO ALL J-BOXES, PULL BOXES, AND OTHER EQUIPMENT AS REQUIRED. ACCESS DOORS FOR INSTALLATION IN FIRE RATED CONSTRUCTION SHALL HAVE APPROPRIATE FIRE RATING. |
| 7. ADDING LOADS | BEFORE ADDING ANY LOAD NOT SHOWN ON THE PLANS, TO THE ELECTRICAL SYSTEM, SUBMIT REQUEST IN WRITING TO THE ELECTRICAL ENGINEER FOR APPROVAL. |
| 8. SPECIFIED MANUFACTURERS | AN ACCEPTABLE MANUFACTURER'S NAME AND MODEL NUMBER OF A PRODUCT MAY BE GIVEN FOR AN EXAMPLE. THIS IS THE EQUIPMENT CONTEMPLATED DURING THE DESIGN PROCESS AND FORMS THE BASIS OF A STANDARD OF QUALITY. VERIFY THE MODEL NUMBER IS STILL ACCURATE AND MEETS ALL THE REQUIREMENTS AS SHOWN ON THE DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN THE REQUIREMENTS OF THE DRAWINGS AND THE MODEL NUMBER, THE REQUIREMENTS OF THE DRAWINGS SHALL GOVERN. APPROVED EQUALS SHALL BE ALLOWED UNLESS OTHERWISE NOTED. |
| 9. SUBMITTALS | A. REQUIRED SUBMITTALS - SUBMIT ELECTRONIC COPIES OF THE FOLLOWING INFORMATION FOR APPROVAL. 1.) SERVICE EQUIPMENT, PANELBOARDS, LOAD CENTERS, SWITCHES, FUSES, AND CIRCUIT BREAKERS. 2.) LIGHTING FIXTURES. 3.) WIRING DEVICES AND DEVICE PLATES. B. REVIEW TIME - ALLOW 5 WORKING DAYS FOR REVIEW OF SUBMITTALS. ORDER NO MATERIALS OR BEGIN NO WORK UNTIL ALL SUBMITTALS ARE RETURNED APPROVED. C. RESUBMISSION - MAKE ALL REVISIONS REQUIRED AND RESUBMIT AS REQUIRED FOR INITIAL SUBMITTAL. |
| 10. MISCELLANEOUS MATERIALS | THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS HARDWARE AND MATERIAL NOT SPECIFIED BUT NECESSARY TO PROVIDE A COMPLETE AND WORKING ELECTRICAL SYSTEM. THIS HARDWARE SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL MISCELLANEOUS CONDUIT FITTINGS AND MOUNTING HARDWARE, LIGHT FIXTURE MOUNTING HARDWARE, BRACKETS, CONNECTORS, CORDS AND PLUGS. |
| 11. WARRANTIES | GUARANTEE ALL WORKMANSHIP, MATERIAL AND EQUIPMENT AND REPLACE ANY FOUND DEFECTIVE WORK WITHOUT COST TO THE OWNER, FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE. |

| ELECTRICAL MATERIALS AND METHODS | |
|--|--|
| PART 1 GENERAL - THIS SECTION DESCRIBES THE MATERIALS AND METHODS COMMON TO THE ELECTRICAL DIVISION OF WORK. | |
| PART 2 PRODUCTS | |
| 2.1 RACEWAY SYSTEMS | A. ABOVE GROUND INTERIOR - HOT DIP GALVANIZED AS REQUIRED BY CODE OF EMT, IMC, OR RMC. B. BURIED AND UNDER CONCRETE SLABS - SCHEDULE 80 PVC W/ASPHALT COATED RMC ELBOWS WHERE PENETRATING SURFACE. |
| 2.2 CABLE SYSTEMS | CONCEALED SPACES ONLY, TYPE AC OR MC CABLE AS ALLOWED BY CODE. |
| 2.3 CONDUCTORS | A. CONDUCTORS SHALL BE COPPER AND MINIMUM SIZE SHALL BE #12 AWG (20A MOCB) OR #14 (15A MOCB) EXCEPT AS OTHERWISE NOTED. B. INSULATION SHALL BE THWN-THHN EXCEPT AS OTHERWISE NOTED. C. ALL CIRCUIT CONDUCTORS SHALL BE RUN WITH EQUIPMENT GROUNDING AND WILL USE CONDUIT UNLESS OTHERWISE NOTED IN ACCORDANCE WITH NEC 250.122. |
| 2.4 PANELBOARDS | PROVIDE PANELBOARDS W/BOLT-ON CIRCUIT BREAKERS EXCEPT AS OTHERWISE NOTED. SEE PANEL SCHEDULE FOR CAPACITY, RATINGS, SPACES, VOLTAGE, PHASE, MOUNTING, AND OTHER OPTIONS TO BE PROVIDED. |
| 2.5 LOAD CENTERS | PROVIDE LOAD CENTERS W/PUSH-ON CIRCUIT BREAKER EXCEPT AS OTHERWISE NOTED. SEE PANEL SCHEDULE FOR CAPACITY, RATINGS, SPACES, VOLTAGE, PHASE, MOUNTING, AND OTHER OPTIONS TO BE PROVIDED. |
| 2.6 GFCI | ALL GFCI SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION PER NEC 210.8. |
| 2.7 ALL CONNECTED TERMINATIONS, CONDUCTORS, AND DEVICES SHALL HAVE A MINIMUM TEMPERATURE RATING OF 75°C, UNLESS OTHERWISE NOTED. | |
| PART 3 EXECUTION. | |
| 3.1 RACEWAY SYSTEMS | A. RUN CONDUIT PARALLEL WITH AND AT RIGHT ANGLES TO BUILDING LINES. B. PROVIDE 1 EMPTY 3/4" CONDUIT FOR EVERY 3 UNUSED SPACES IN FLUSH MOUNTED PANELBOARDS OR LOAD CENTERS. C. PROVIDE FLEXIBLE CONDUIT ON CONNECTIONS TO VIBRATING EQUIPMENT. CONDUIT AND GROUNDING MEANS SHALL BE PER NEC. |
| 3.2 IDENTIFICATION OF EQUIPMENT | A. IDENTIFY EACH DISCONNECT SWITCH, TRANSFORMER, PANELBOARD, LOAD CENTER, AND ALL OTHER ELECTRICAL EQUIPMENT IDENTIFIED BY A PLAN CODE ON THE DRAWINGS. B. NAMEPLATES SHALL BE ENGRAVED IN LAMINATED PLASTIC, 3/8" HIGH AND ATTACHED WITH SCREWS. C. ALL PANELBOARDS AND LOAD CENTERS SHALL HAVE TYPE-WRITTEN DIRECTORIES INSERTED ON THE INSIDE FACE OF THE DOOR IDENTIFYING EACH CIRCUIT. D. ALL COMPONENTS OF EMERGENCY CIRCUITS SHALL BE PAINTED RED. |
| 3.3 LIGHTING | A. ALL EGRESS LIGHTING AND EXIT SIGNS SHALL BE PROVIDED WITH A CONSTANT HOT PER EACH CIRCUIT THAT IS INDICATED PER PLAN. |

| DESIGN SUMMARY FOR PLAN REVIEWER |
|---|
| GOVERNING CODES: 2017 NEC, 2012 IECC |
| COMCHECK: LIGHTING COMCHECK - YES - ON PLANS |



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| PRICING | 4/17/2020 |

| Revisions | Date | No. |
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Project Information

SOUTH PARK AMBULANCE DISTRICT

Hartsel, CO

Sheet Information

Sheet Title:
ELECTRICAL POWER PLAN

Sheet Number:

E1

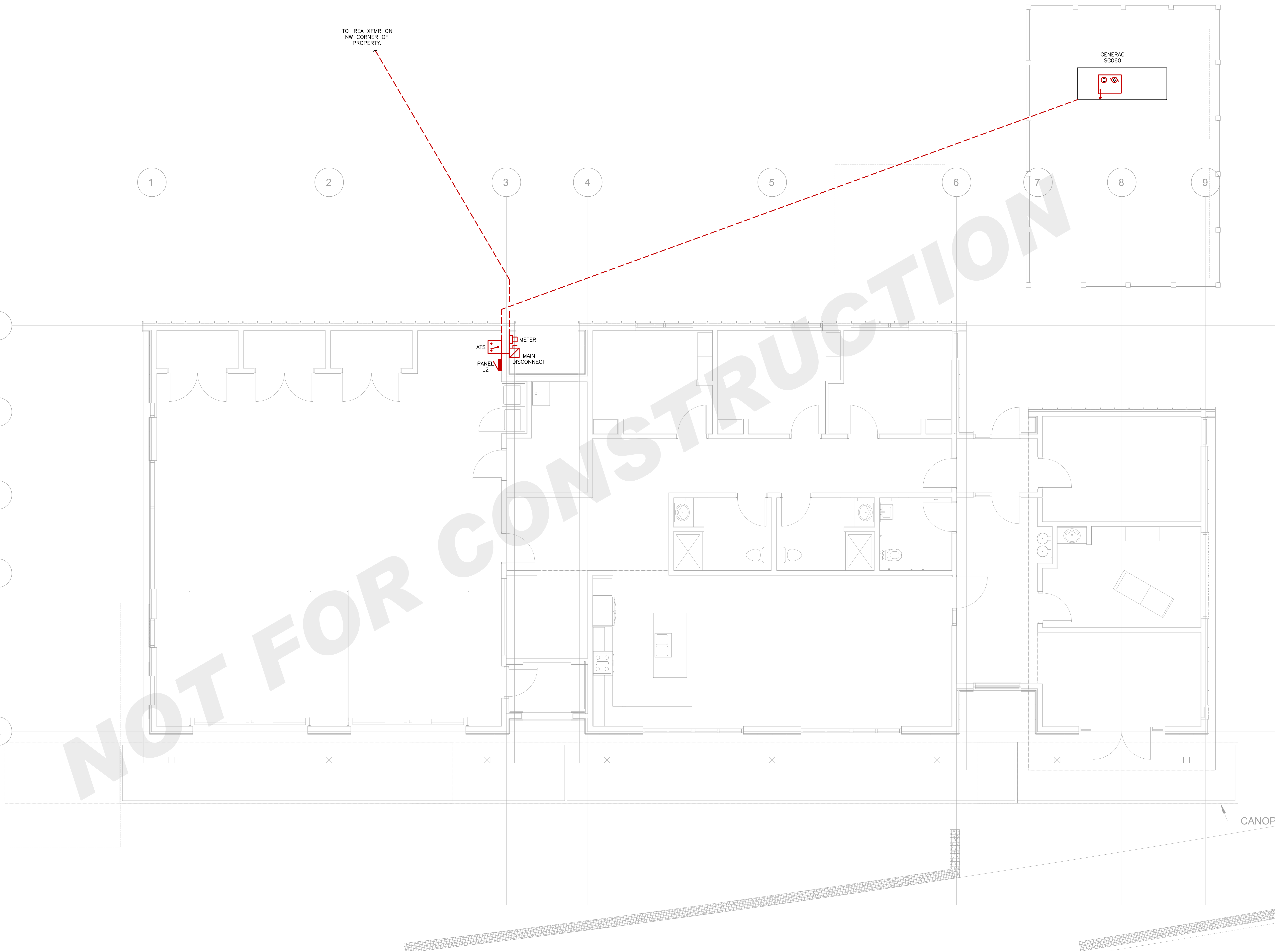
DPA Project:

PROJECT NO. 2019-000000-001



ELECTRICAL SITE POWER PLAN

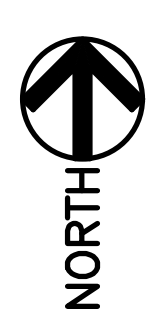
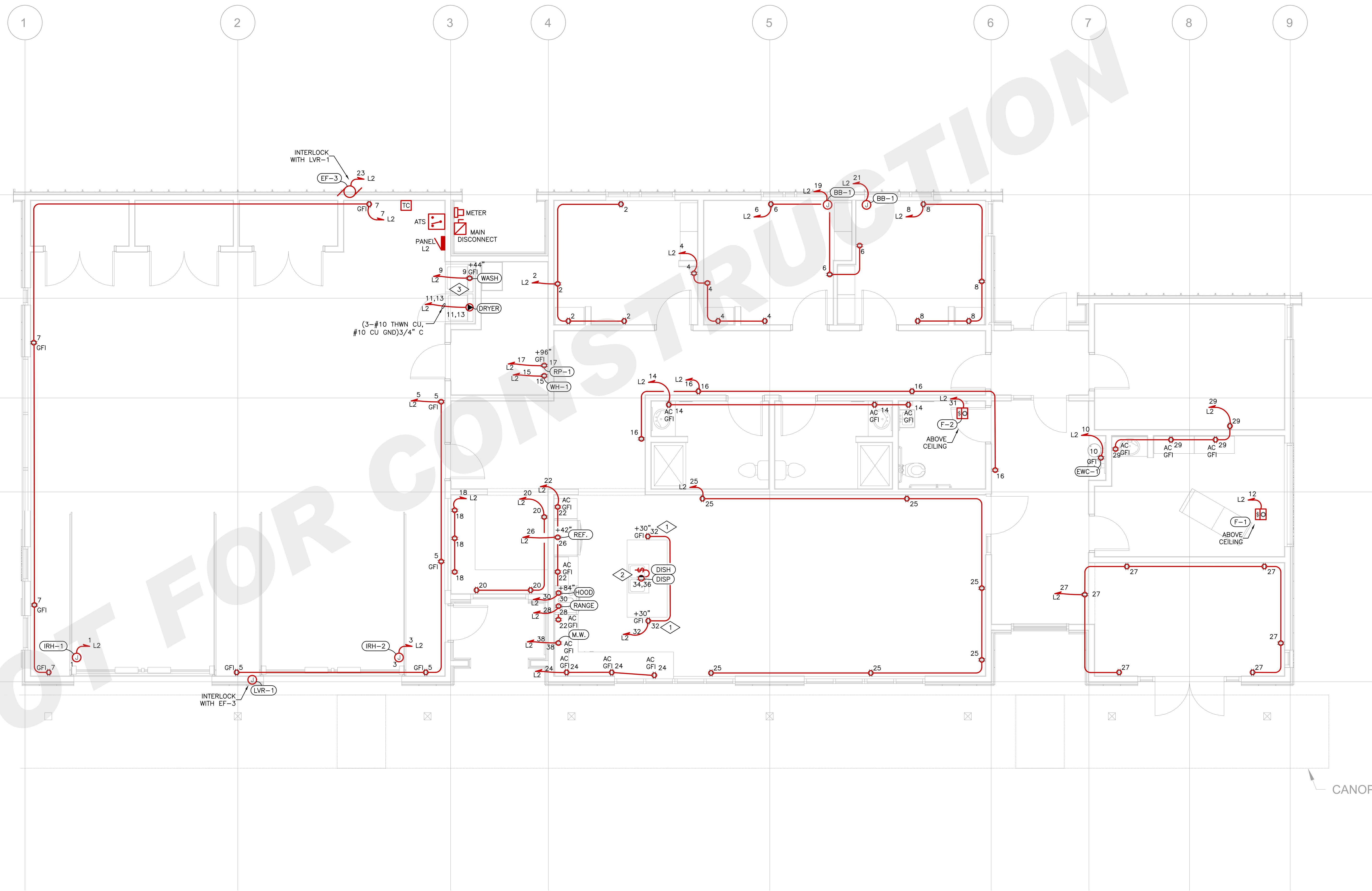
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PATIENT CARE SPACE

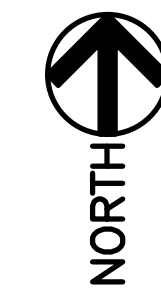
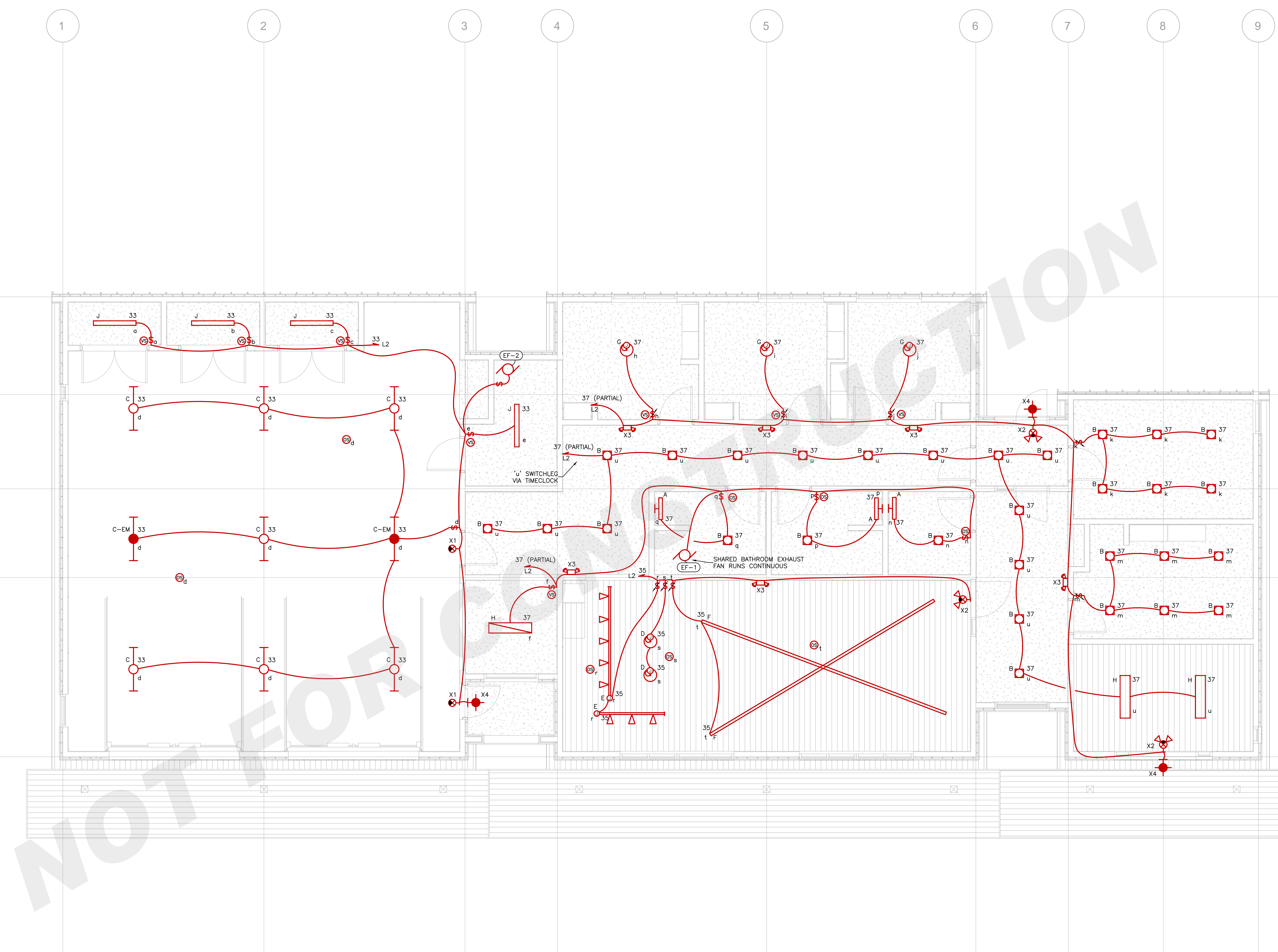
BRANCH CIRCUIT WIRING METHODS IN PATIENT CARE ROOMS SHALL COMPLY WITH NEC 517.13 REQUIREMENT FOR REDUNDANT GROUNDING.

- DIAMOND NOTES
- 1 PROVIDE A GFCI DUPLEX RECEPTACLE LOCATED ON THE KITCHEN ISLAND/PENINSULA. RECEPTACLE SHALL BE LOCATED WITHIN 12" OF THE TOP EDGE OF THE COUNTERTOP.
 - 2 PROVIDE A GFCI DUPLEX RECEPTACLE LOCATED BELOW KITCHEN SINK FOR CONNECTION OF GARBAGE DISPOSAL AND DISHWASHER. PROVIDE AN AIR-SWITCH FOR DISPOSAL CONTROL, AS REQUIRED.
 - 3 E.C. SHALL COORDINATE FINAL LOCATION OF WASHER AND DRYER ELECTRICAL CONNECTIONS WITH M.C. AND P.C. PRIOR TO ANY WORK.



ELECTRICAL POWER PLAN

SCALE: 1/4" = 1' - 0"



ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1' - 0"

Panel L2

DATE: 4/17/2020

JOB: SOUTH PARK AMBULANCE

AC RATING: 100 AMP (FULLY RATED)

ENCLOSURE TYPE: NEMA 1

PANEL VOLTAGE: 240/120V

PHASE AND WIRE: 1PH/3W

BUS (AMPS): 200

NAME: 200

CKT CODE: 1(LIGHTING)

2(MISC)

3(RECEPTACLE EQUIPPED PANEL)

4(KITCHEN EQUIPMENT)

2(MOTOR LOAD)

2(LARGEST MOTOR)

| NO. | CODE | TRIP | POLE | DESCRIPTION | WISC | VA | A | B | VA | WISC | DESCRIPTION | POLE | TRIP | CODE | NO. |
|-----|------|------|------|--------------------|------|------|------|------|-----|------|------------------------|------|------|------|-----|
| 1 | 1 | 20 | 1 | WASH TUBE HEATER | 4.8 | 624 | 1000 | 1000 | 720 | | PATIENT RM RECEPTACLES | 1 | 20 | 3 | 2 |
| 2 | 2 | 20 | 1 | WASH TUBE HEATER | 4.8 | 624 | 1000 | 1000 | 720 | | PATIENT RM RECEPTACLES | 1 | 20 | 3 | 4 |
| 3 | 3 | 20 | 1 | GARAGE RECEPTACLES | 720 | 1260 | 1000 | 1000 | 500 | | PATIENT RM RECEPTACLES | 1 | 20 | 3 | 5 |
| 4 | 4 | 20 | 1 | GARAGE RECEPTACLES | 720 | 1260 | 1000 | 1000 | 500 | | PATIENT RM RECEPTACLES | 1 | 20 | 3 | 6 |
| 5 | 5 | 20 | 1 | WASHING MACHINE | 1000 | 1200 | 1000 | 1000 | 200 | | PATIENT RM RECEPTACLES | 1 | 20 | 3 | 7 |
| 6 | 6 | 20 | 1 | DRYER | 2000 | 1000 | 1000 | 1000 | 500 | | PATIENT RM RECEPTACLES | 1 | 20 | 3 | 8 |
| 7 | 7 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 9 |
| 8 | 8 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 10 |
| 9 | 9 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 11 |
| 10 | 10 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 12 |
| 11 | 11 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 13 |
| 12 | 12 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 14 |
| 13 | 13 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 15 |
| 14 | 14 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 16 |
| 15 | 15 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 17 |
| 16 | 16 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 18 |
| 17 | 17 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 19 |
| 18 | 18 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 20 |
| 19 | 19 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 21 |
| 20 | 20 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 22 |
| 21 | 21 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 23 |
| 22 | 22 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 24 |
| 23 | 23 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 25 |
| 24 | 24 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 26 |
| 25 | 25 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 27 |
| 26 | 26 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 28 |
| 27 | 27 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 29 |
| 28 | 28 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 30 |
| 29 | 29 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 31 |
| 30 | 30 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 32 |
| 31 | 31 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 33 |
| 32 | 32 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 34 |
| 33 | 33 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 35 |
| 34 | 34 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 36 |
| 35 | 35 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 37 |
| 36 | 36 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 38 |
| 37 | 37 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 39 |
| 38 | 38 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 40 |
| 39 | 39 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 41 |
| 40 | 40 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 42 |
| 41 | 41 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 43 |
| 42 | 42 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 44 |
| 43 | 43 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 45 |
| 44 | 44 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 46 |
| 45 | 45 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 47 |
| 46 | 46 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 48 |
| 47 | 47 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 49 |
| 48 | 48 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 50 |
| 49 | 49 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 51 |
| 50 | 50 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 52 |
| 51 | 51 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 53 |
| 52 | 52 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 54 |
| 53 | 53 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 55 |
| 54 | 54 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 56 |
| 55 | 55 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 57 |
| 56 | 56 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 58 |
| 57 | 57 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 59 |
| 58 | 58 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 60 |
| 59 | 59 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 61 |
| 60 | 60 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 62 |
| 61 | 61 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 63 |
| 62 | 62 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 64 |
| 63 | 63 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 65 |
| 64 | 64 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 66 |
| 65 | 65 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 67 |
| 66 | 66 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 68 |
| 67 | 67 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 69 |
| 68 | 68 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 70 |
| 69 | 69 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 71 |
| 70 | 70 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 72 |
| 71 | 71 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 73 |
| 72 | 72 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 74 |
| 73 | 73 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 75 |
| 74 | 74 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 76 |
| 75 | 75 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 77 |
| 76 | 76 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 78 |
| 77 | 77 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 79 |
| 78 | 78 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 80 |
| 79 | 79 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 81 |
| 80 | 80 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 82 |
| 81 | 81 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 83 |
| 82 | 82 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 84 |
| 83 | 83 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 85 |
| 84 | 84 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 86 |
| 85 | 85 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 87 |
| 86 | 86 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 88 |
| 87 | 87 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 89 |
| 88 | 88 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 90 |
| 89 | 89 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 91 |
| 90 | 90 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 92 |
| 91 | 91 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 93 |
| 92 | 92 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 94 |
| 93 | 93 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 95 |
| 94 | 94 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 96 |
| 95 | 95 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 97 |
| 96 | 96 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | 500 | | WPC WATER COOLER | 1 | 20 | 3 | 98 |
| 97 | 97 | 20 | 1 | WPC WATER HEATER | 2000 | 1000 | 1000 | 1000 | | | | | | | |