



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
purchasing@bouldercounty.org

INVITATION TO BID
COVER PAGE

BID Number: **7137-20**

BID Title: **STV HUB Chiller Bid Package 2 -
Site Concrete, Steel Enclosure**

Site Location : 529 Coffman St, Longmont, CO 80502

BID Questions Due: April 6, 2020 – 2:00 p.m.

Submittal Due Date: April 16, 2020 – 2:00 p.m.

Email Address: purchasing@bouldercounty.org

Documents included in this package:

- Bid Instructions
- Terms and Conditions
- Specifications
- Insurance and W-9 Requirements
- Bid Tab Section
- Submittal Checklist
- Signature Page
- Drawings
- Sample Contract



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INSTRUCTIONS

1. Purpose/Background

This work will provide a new enclosure to house a chiller scheduled to be installed at the end of May. Work will include, removal of concrete, relocating existing area drains, installation of chiller structural pad and enclosure footings, flat work concrete as required for drainage.

2. Site Visit

The location of work is accessible and unsecured. It is the contractor's responsibility to visit site and verify existing conditions. The site is located on west side of building accessible from the parking lot. See plans for further details. Please follow social distancing guidelines when visiting the site.

3. Written Inquiries

All inquiries regarding this BID will be submitted via email to the Boulder County Purchasing Office at purchasing@bouldercounty.org on or before 2:00 p.m. **April 6, 2020**. A response from the county to all inquiries will be posted and sent via email no later than **April 10, 2020**.

Please do not contact any other county department or personnel with questions or for information regarding this solicitation.

4. Submittal Instructions

BIDs are due at the email box only, listed below, for time and date recording on or before **2:00 p.m. Mountain Time on April 16, 2020**. A bid opening will be conducted at 3:00 p.m. Mountain Time via email to those who submitted a bid.

Please note that email responses to this solicitation are required, but are limited to a maximum of 50MB capacity. NO ZIP FILES ALLOWED. Electronic submittals must be received in the email box listed below. Submittals sent to any other box will NOT be forwarded or accepted. This email box is only accessed on the due date of your questions or proposals. Please use the Delivery Receipt option to verify receipt of your email. It is the sole

responsibility of the proposer to ensure their documents are received before the deadline specified above. Boulder County does not accept responsibility under any circumstance for delayed or failed email or mailed submittals.

Email purchasing@bouldercounty.org; identified as **BID # 7137-20** in the subject line.

All BIDs must be received and time and date recorded by authorized county staff by the above due date and time. Sole responsibility rests with the bidder to see that their BID response is received on time at the stated location(s). Any BIDs received after due date and time will be returned to the bidder.

The Board of County Commissioners reserves the right to reject any and all BIDs, to waive any informalities or irregularities therein, and to accept the proposal that, in the opinion of the Board, is in the best interest of the Board and of the County of Boulder, State of Colorado.

Americans with Disabilities Act (ADA): If you need special services provided for under the Americans with Disabilities Act, contact the ADA Coordinator or the Human Resources office at (303) 441-3525 at least 48 hours before the scheduled event.



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TERMS AND CONDITIONS

1. Bidders are expected to examine the drawing, specifications, schedule of delivery, and all instructions. Failure to do so will be at the bidder's risk.
2. Each bidder will furnish the information required in the Invitation to Bid.
3. The Contract/Purchase Order will be awarded to that responsible bidder whose submittal, conforming to the Invitation to Bid, will be most advantageous to the County of Boulder, based on best value not only price.
4. The County of Boulder reserves the right to reject any or all bids and to waive informalities and minor irregularities in bids received, and to accept any portion of or all items proposed if deemed in the best interest of the County of Boulder to do so.
5. No submittal will be withdrawn for a period of thirty (30) days subsequent to the opening of bids without the consent of the County Purchasing Agent or delegated representative.
6. A signed purchase order or contract furnished to the successful bidder results in a binding contract without further action by either party.
7. Late or unsigned bids will not be accepted or considered. It is the responsibility of bidders to ensure that the bid arrives at the Administrative Services Information Desk prior to the time indicated in the "Invitation to Bid."
8. The proposed price will be exclusive of any Federal or State taxes from which the County of Boulder is exempt by law.
9. Any interpretation, correction or change of the bid documents will be made by Addendum. Interpretations, corrections and changes of the bid documents made in any other manner will not be binding, and bidder will not rely upon such interpretations, corrections and changes. The County's Representative will not be responsible for oral clarification.
10. Confidential/Proprietary Information: Bids submitted in response to this "Invitation to Bid" and any resulting contract are subject to the provisions of the Colorado Public (Open)

Records Act, 24-72-201 et.seq., C.R.S., as amended. Any restrictions on the use or inspection of material contained within the bid and any resulting contract will be clearly stated in the bid itself. Confidential/proprietary information must be readily identified, marked and separated/packaged from the rest of the bid. **Co-mingling of confidential/proprietary and other information is NOT acceptable. Neither a bid, in its entirety, nor bid price information will be considered confidential/proprietary. Any information that will be included in any resulting contract cannot be considered confidential.**

The Boulder County Attorney's Office retains sole authority for determining whether the Colorado Open Records Act requires or permits Boulder County to disclose proposal or bid documents, or any information contained therein, pursuant to an open records request.

11. Boulder County promotes the purchase/leasing of energy efficient, materials efficient and reduced toxic level products where availability, quality and budget constraints allow. Bidders are expected whenever possible to provide products that earn the ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency with power management features enabled. Bidders are encouraged to offer products and equipment with post-consumer recycled-content materials. Products should be packaged and delivered with a minimum amount of recycled packaging that adequately protects the product, but is not excessive.
12. Pursuant to Colorado law (House Bill 1292), in any bidding process for public works in which a bid is received from a non-resident bidder who is from a state that provides a percentage bidding preference, a comparable percentage disadvantage will be applied to the bid of that bidder. Bidders may obtain additional information from the Department of Personnel's website: <http://www.colorado.gov/dpa/>.



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SPECIFICATIONS

OBJECTIVE

The objective of the project is to provide a chilled water system for the building. This scope of this Bid Package 2 is to select contractor(s) to provide an enclosure to house a chiller scheduled to be installed at the end of May. Work will include, removal of concrete, relocating existing area drains, installation of chiller structural pad and enclosure footings, flat work concrete as required for drainage and fabrication/install of a metal screen wall.

PRICING

Price the two following scopes of work separately. It is not necessary to provide a price for both scopes of work. Boulder County will award the bid which best satisfies the needs of the project not necessarily the lowest price. Provide price on submittal section of this document, and any other documents as necessary to clarify your pricing.

Scope A -SITE WORK

To include but not be limited to the following:

- Concrete cutting and removal of the 22' x 38' footprint of the project.
- Relocation of drains and modifications to drain piping
- Sub soil prep, compaction and spoils haul off
- Reinforced structural slab and footings for chiller pad and screen wall.
- Concrete curbs and flatwork, with special emphasis to drainage at this critical location.
- Provide add/deduct unit pricing for each demolition, reinforced concrete work and unreinforced concrete work.
- Exclude bike removal and reinstallation.

Scope B – SCREEN WALL

To include but not be limited to the following:

- Fabrication of a steel screen wall with removable panels per plans.
- Installation
- All metal surfaces to be primed.
- Exclude final painting which will be done by Boulder County

EXISTING CONDITIONS:

- Existing location is currently a planter and parking area on the west side of building near existing trash and equipment enclosures.

PROJECT DRAWINGS AND SPECIFICATIONS:

The following list of drawings with included specifications are to be incorporated into the Contract for this work.

1. Drawings A1 and A2 dated 3/23, C0.1, C1.0 and CD1.0 dated 3/19/2020, S1 dated 3/12/2020, M0.1 and M1.0 dated 10/22/19, and E1 3/23/2020.

SCHEDULE:

With consideration of the uncertainty around the current COVID 19 issues, the chiller delivery and installation are anticipated to occur at the end of May.

The work associated with this Bid can start immediately. Ideally the relocated drain and concrete work will be completed by that time. The metal enclosure around the chiller would follow after the chiller has been installed and operating.

COORDINATING THE WORK:

1. Boulder County Public Works - Building Services (BCBS) will be the General Contractor pulling permits for the overall project.
2. Schedule and coordinate all work with BCBS staff.
3. Exclude the following work:
 - a. All electrical, low voltage, A/V removal and reinstallation will be by BCBS staff.
 - b. Exclude bike removal and reinstallation.
 - c. Final painting.

PROJECT AWARD:

Work shall be awarded based on the most responsible Proposal Bid that best satisfies the requirements of the project, not necessarily on the lowest price. Boulder County reserves the right to make the award on the basis of the Bid deemed most favorable to the County, to waive any informalities, or to reject any or all Proposals.



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INSURANCE AND W-9 REQUIREMENTS

INSURANCE REQUIREMENTS

SCOPE	General Liability	Auto Liability	Workers Compensation	Umbrella Liability	Pollution Liability
Scope A	X	X	X	X	X
Scope B	X	X	X	X	

General Liability \$1,000,000 Each Occurrence
 \$2,000,000 General Aggregate
 \$2,000,000 Products Completed Operations Aggregate
 3 years Products/Completed Operations

Automobile Liability \$1,000,000 Each Accident
 *Including Hired & Non-Owned Auto

Worker’s Compensation and Employer’s Liability
 Workers’ Compensation must be maintained with the statutory limits. Employer's Liability is required for minimum limits of \$100,000 Each Accident/\$500,000 Disease-Policy Limit/\$100,000 Disease-Each Employee.

Umbrella / Excess Insurance
 Umbrella/Excess Liability insurance in the amount \$1,000,000.00, following form.

Pollution Liability
 Coverage pay for those sums the Contractor becomes legally obligated to pay as damages because of Bodily Injury, Property Damage or environmental Damage arising out of a pollution incident caused by the Contractor’s work including Completed Operations. Coverage shall include emergency response expenses, pollution liability during transportation (if applicable) and at Non-Owned Waste Disposal Site (if applicable). The Minimum limits required are \$1,000,000 Per Occurrence/Loss and \$1,000,000 Policy Aggregate. If the coverage is written on a claims-made basis, the Contractor warrants that any retroactive date applicable to coverage under the policy

precedes the effective date of this Contract; and that continuous coverage will be maintained or an extended discovery period will be exercised for a period of three (3) years beginning from the time that work under this contract is completed.

County shall be named as an additional insured for ongoing operations and completed operations. In regards to General Liability, Umbrella/Excess Liability, and Pollution Liability: If any or all of these coverages are required above, additional insured status will be required at the time a contract is executed.

THE ADDITIONAL INSURED WORDING SHOULD BE AS FOLLOWS: County of Boulder, State of Colorado, a body corporate and politic, is named as Additional

Note that the above insurance amounts are the minimum required for this project. Proof of current insurance must be provided with your proposal in the form of a sample certificate. You are NOT required to include additional insured status until the time a contract is executed.

If you require a waiver of insurance requirements you may request one in your response with an explanation.

W-9 REQUIREMENT

Provide a copy of your business's W-9 with your proposal.



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SUBMITTAL SECTION

The bidder's attention is especially called to the items listed below, which must be submitted in full as part of the BID. Failure to submit any of the documents listed below as a part of your BID, or failure to acknowledge any addendum in writing with your BID, or submitting a bid on any condition, limitation or provision not officially invited in this Invitation to Bid (BID) may be cause for rejection of the BID.

THIS CHECKLIST MUST BE SUBMITTED AS PART OF YOUR BID PACKAGE: Bidder will check each box indicating compliance:

INCLUDED	ITEM
	Name and Address of the Partners and Subcontractors if applicable
	A detailed project schedule with an all-inclusive total cost
	Information on the relevant experience of key personnel
	State your compliance with the Terms and Conditions in the Sample Contract contained in this BID. Specifically list any deviations and provide justification for each deviation.
	Submit three references for similar projects your company has completed within the last three years and contact information
	Insurance Certificate
	W-9
	Signature Page
	Addendum Acknowledgement(s) (If Applicable)



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BID TAB

BID SUBMITTAL SECTION

BID 7137-20
ST. VRAIN UTILTIY RELOCATION

Provide a price for each item as listed below. If providing alternates submit on separate proposal sheet. Boulder County will award the BID which best satisfies the needs of the project not necessarily the lowest price.

SCOPE A -SITE WORK:

Price: _____ dollars (\$_____)

Available Start Date _____ and estimated: _____ calendar days to complete all Work

Unit pricing:

Demolition \$_____/_____(unit)

Reinforced concrete \$_____/_____(unit)

Unreinforced concrete \$_____/_____(unit)

SCOPE B – SCREEN WALL

Price: _____ dollars (\$_____)

Available Start Date _____ and estimated: _____ calendar days to complete all Work



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SIGNATURE PAGE

Contact Information	Response
Company Name including DBA	
List Type of Organization (Corporation, Partnership, etc.)	
Name, Title, and Email Address of Person Authorized to Contract with Boulder County	
Company Address	
Company Phone Number	
Company Website	

By signing below I certify that:

I am authorized to bid on my company's behalf.

I am not currently an employee of Boulder County.

None of my employees or agents is currently an employee of Boulder County.

I am not related to any Boulder County employee or Elected Official.

(Sole Proprietorships Only) I am not a Public Employees' Retirement Association (PERA) retiree.

**Signature of Person Authorized to Bid on
 Company's Behalf**

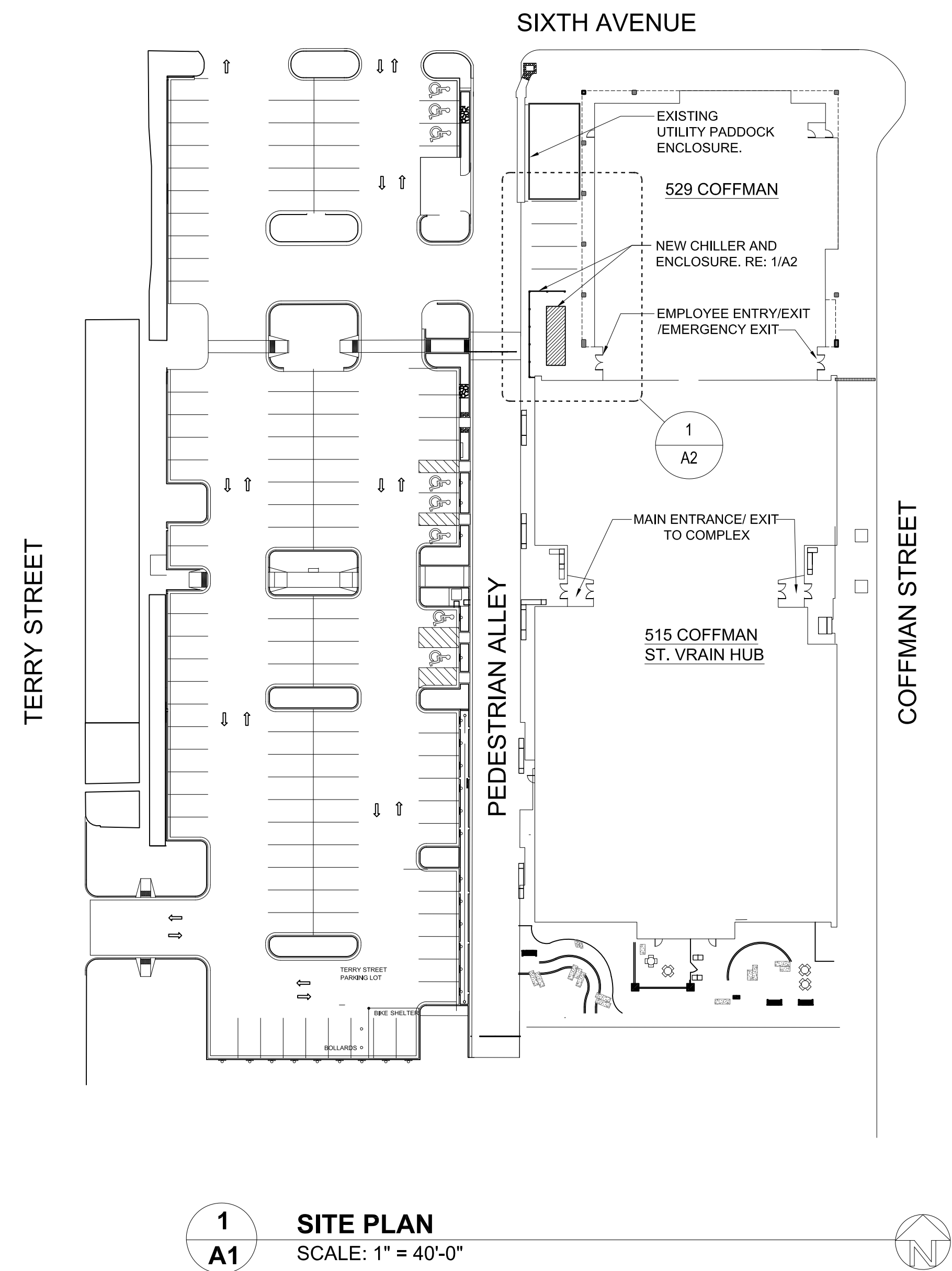
Date

Note: If you cannot certify the above statements, please explain in a statement of explanation.

BOULDER COUNTY ST. VRAIN HUB CHILLER PROJECT

529 COFFMAN ST.
LONGMONT, CO
80501

BUILDING PERMIT SUBMITTAL



1
A1 **SITE PLAN**
SCALE: 1" = 40'-0"

TYPICAL ABBREVIATIONS

A.D.A	AMERICAN DISABILITY ACT (COMPLIES WITH)	MECH.	MECHANICAL
A.F.F.	ABOVE FINISH FLOOR	MET.	METAL
ARCH.	ARCHITECT	MIR.	MIRROR
B.O.	BOTTOM OF	MIN.	MINIMUM
BLDG.	BUILDING	N.I.C.	NOT IN CONTRACT
BM	BEAM	O.C.	ON CENTER
CA	CARD ACCESS	O. DIA.	OUTSIDE DIAMETER
C.L.	CENTER LINE	OPP.	OPPOSITE
CIRC.	CIRCULAR	OTS.	OPEN TO STRUCTURE
CJ	CONTROL JOINT	PL.	PLATE
CLG.	CEILING	PERF.	PERFORATED
CONC.	CONCRETE	PH.	PHASE
CONTR.	CONTINUOUS	PRMT.	PERMIT
CONST.	CONSTRUCTION	PROP.	PROPERTY
COORD.	COORDINATE	P.T.D.	PAPER TOWEL DISPENSER
CPT.	CARPET	PTD.	PAINTED
CT	CERAMIC TILE	R.	RISER
D.F.	DRINKING FOUNTAIN	R.C.P.	REFLECTED CEILING PLAN
DIA.	DIAMETER	RE.	REFERENCE
EACH	EACH	RT	RUBBER TILE
EL.	ELEVATION	S.A.C.	SUSPENDED ACOUSTICAL CEILING
EJ	EXPANSION JOINT	SB	SOUND BOARD
EQUIPT.	EQUIPMENT	S.C.	SOLID CORE
ETC.	ET CETERA	SIM.	SIMILAR
EXP.	EXPOSED	SPEC.	SPECIFICATION
EXT.	EXTERIOR	STL.	STEEL
F.E.	FIRE EXTINGUISHER	STRUCT.	STRUCTURAL
F.D.	FLOOR DRAIN	T.	TREAD
G.C.	GENERAL CONTRACTOR	T.O.	TOP OF
GAGE	GAGE	T.P.	TOILET PAPER DISPENSER
GALV.	GALVANIZED	TYP.	TYPICAL
G.W.B.	GYPSUM WALL BOARD	U.N.O.	UNLESS NOTED OTHERWISE
I.C.F.	INSULATED CONCRETE FORM (WALL)	V.B.	VAPOR BARRIER
I.B.C.	INTERNATIONAL BUILDING CODE	V.I.F.	VERIFY IN FIELD
INS.	INSULATION	W.	WITH
INT.	INTERIOR	WD.	WOOD
J	JOINT	WP	WORK POINT
LMM	LINOLEUM		
MAN.	MANUFACTURER		
MAT.	MATERIAL		
MAX.	MAXIMUM		

PROJECT DIRECTORY

OWNER:
BOULDER COUNTY
P.O. BOX 471
BOULDER, CO 80306

ARCHITECT:
BOULDER COUNTY PUBLIC WORKS
2525 13TH ST
BOULDER, CO 80304
PROJECT ARCHITECT:
SETH JACOBS 303-441-3905
sjacobs@bouldercounty.org

GENERAL CONTRACTOR:
BOULDER COUNTY PUBLIC WORKS
2525 13TH ST
BOULDER, CO 80304
JOE MAY, 303-579-7020
jmaj@bouldercounty.org

ELECTRICAL CONTRACTOR:
BOULDER COUNTY PUBLIC WORKS
2525 13TH ST
BOULDER, CO 80304
MARTIN MARINO, 303-434-4834
mmarino@bouldercounty.org

STRUCTURAL ENGINEER:
JVA INC.
1512 LARIMER STREET
SUITE 710
DENVER, CO 80202
CHRIS D. TAYLOR, P.E., S.E.
720-975-1442
ctaylor@jvajva.com

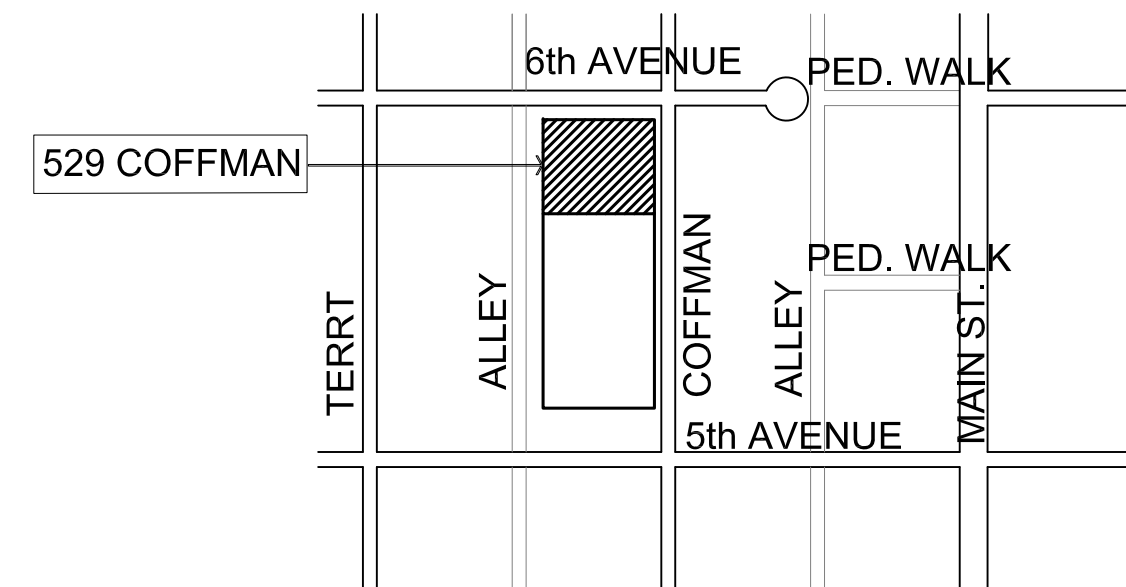
CIVIL ENGINEER:
JVA INC.
1319 SPRUCE STREET
BOULDER, CO 80302
CHARLIE HAGER, P.E., 303-358-9043
chager@jvajva.com

MECHANICAL ENGINEER:
360 ENGINEERING, INC.
1600 JACKSON ST, SUITE 360
GOLDEN, CO 80401
TAYLOR REESE, P.E.
PHONE: 720-619-1528
treese@360eng.com

ELECTRICAL ENGINEER:
ACKERMAN ENGINEERING, INC.
16205 W 64TH AVE, SUITE B3
ARVADA, CO 80007
DON ACKERMAN, P.E.
PHONE: 303-884-0253
EMAIL: dackerman@aekconsulting.com

VICINITY MAP:

Not to a known scale



LONGMONT COLORADO



SHEET INDEX

ARCH.	A1	INFORMATION SHEET: VICINITY MAP/ ABBREVIATIONS/ NOTES/ SITE PLAN
	A2	CHILLER ENCLOSURE PLAN, ENCLOSURE SECTION AND ELEVATIONS
	C0.1	GENERAL NOTES ABBREVIATIONS AND LEGEND.
CIVIL	C1.0	CIVIL SITE PLAN
	CD1.0	SITE DETAILS
STRUCT.	S1	GENERAL NOTES PLAN AND DETAILS
MECH.	M0.1	MECHANICAL SCHEDULES, LEGENDS, DETAILS, & NOTES
	M1.0	MECHANICAL FLOOR PLANS
ELEC.	E1	ELECTRICAL DESIGN, LEGEND & DIAGRAMS

CODE INFORMATION

THE PROJECT WILL BE DESIGNED AND CONSTRUCTED MEETING:

- IBC 2018, IECC 2018, IMC 2018, IPC 2018
- CITY OF LONGMONT 2020 CODE.

ZONING: CBD (CENTRAL BUSINESS DISTRICT)

PROJECT DATA

PROJECT ADDRESS:
8348 Ute Highway
Longmont, Co. 80501

PROJECT DESCRIPTION:
Installing a new chiller unit on the ground level of the site. Installation includes: pouring a structural concrete slab on grade, a new steel mechanical enclosure, relocating an existing area drain, and routing of mechanical piping through existing building to air handler located on the roof.

BUILDING SQUARE FOOTAGE:
SITE: 3.11 ACRES (135,471.6 SQFT.)
PROJECT AREA: 1,184 SQFT.

GENERAL NOTES:

- A:** The contract documents include the drawings, project manual, specifications and the owner-contractor agreement. Any discrepancies found among the drawings, the specification, these general notes, and the site conditions shall be reported to the Architect who shall address such inconsistencies in writing. Any work done by the contractor after discovery of such error shall be done at the contractor's risk. The contractor shall verify and familiarize themselves with all drawings prior to proceeding with any work or fabrication.
- B:** If there is a conflict between a large scale drawings and smaller scale drawing of the same area, the larger scale drawing is to be considered more precise.
- C:** All walls are dimensioned from edge of framing unless noted otherwise.

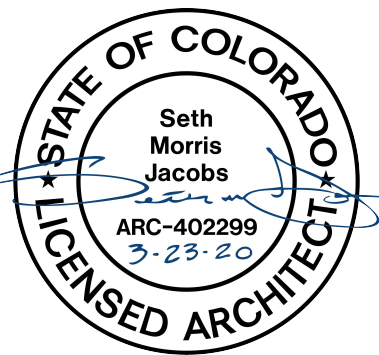


PUBLIC WORKS
COUNTY ARCHITECTS
DIVISION

2020 13TH STREET
BOULDER, CO 80302

P.O. BOX 471
BOULDER, CO 80306

PHONE 303 441 3905



BOULDER COUNTY
ST. VRAIN HUB
CHILLER PROJECT

PROJECT
ST VRAIN HUB-CHILLER PROJECT

LOCATION
529 COFFMAN ST.
LONGMONT, CO. 80501

SHEET
INFORMATION SHEET

FILE NAME
SITE PLAN chiller.dwg

ACCT.: 101862
DATE: MARCH 23, 2020
DRAWN BY: SMJ
CHECKED BY: RD

REVISIONS

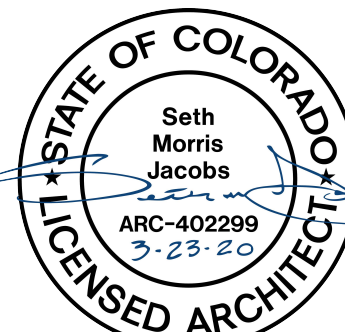
SHEET

A1

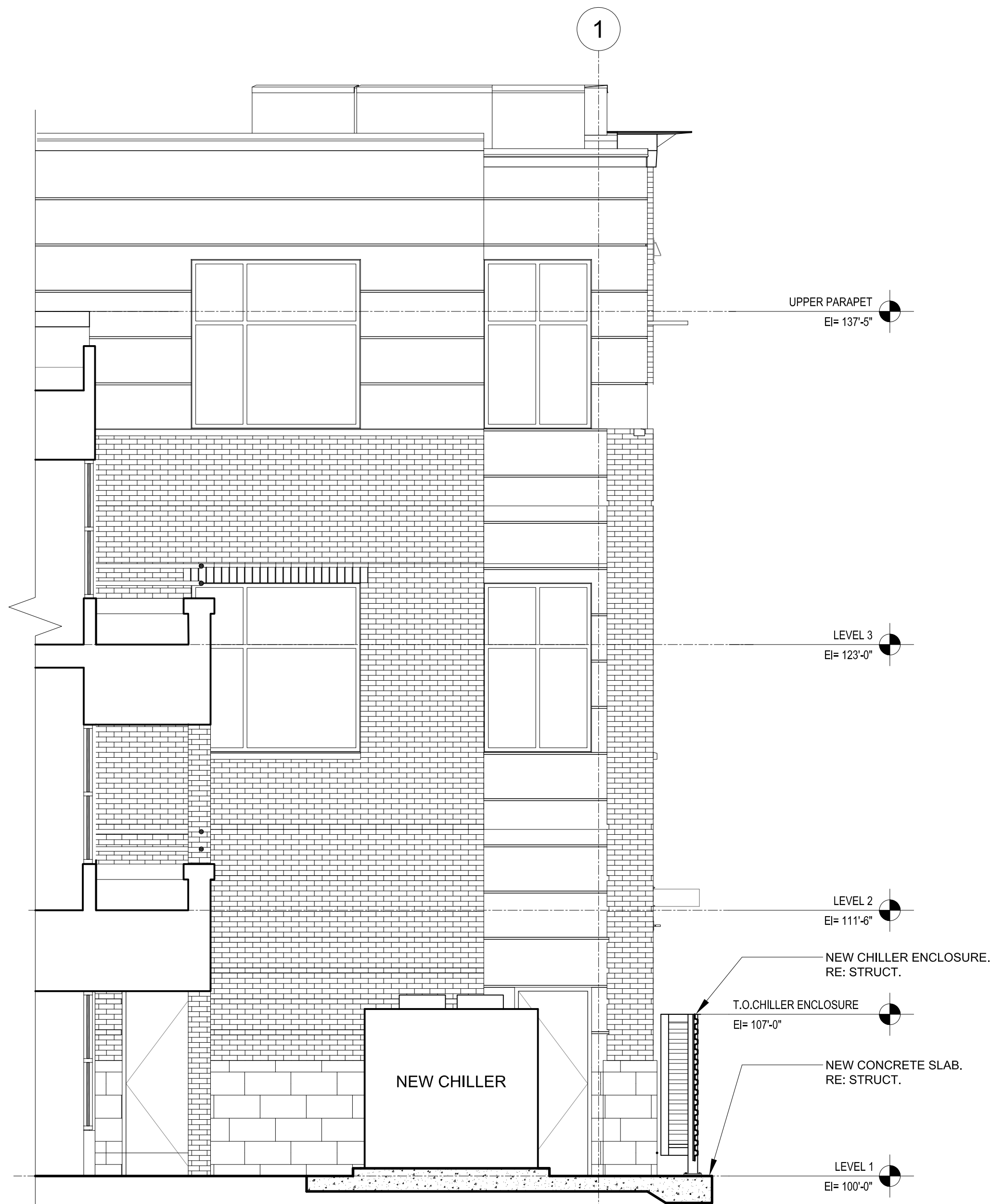
1 OF 2



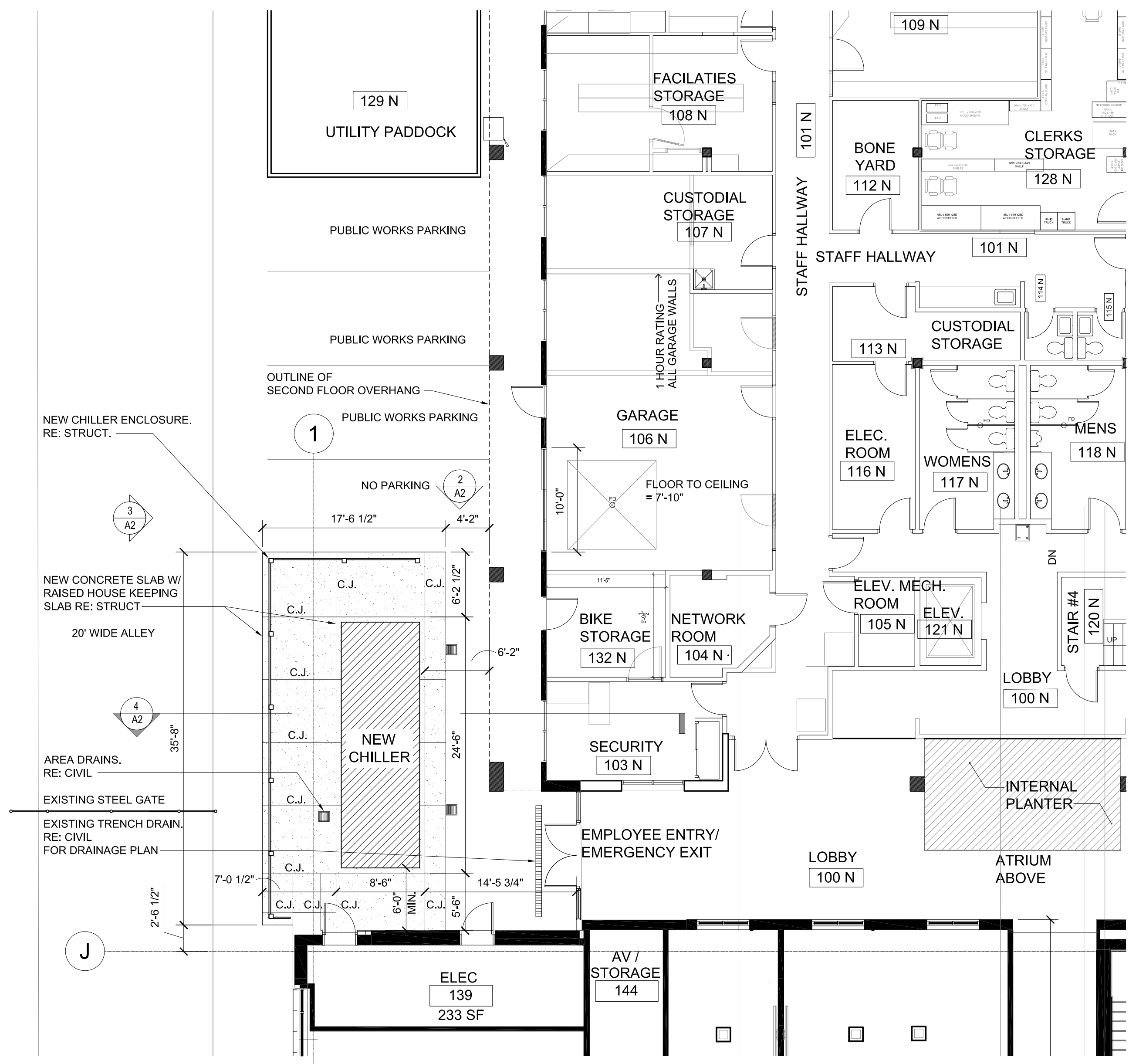
PUBLIC WORKS
COUNTY ARCHITECTS
DIVISION
2020 13TH STREET
BOULDER, CO 80302
P.O. BOX 471
BOULDER, CO 80306
PHONE 303 441 3905



**BOULDER COUNTY
ST. VRAIN HUB
CHILLER PROJECT**



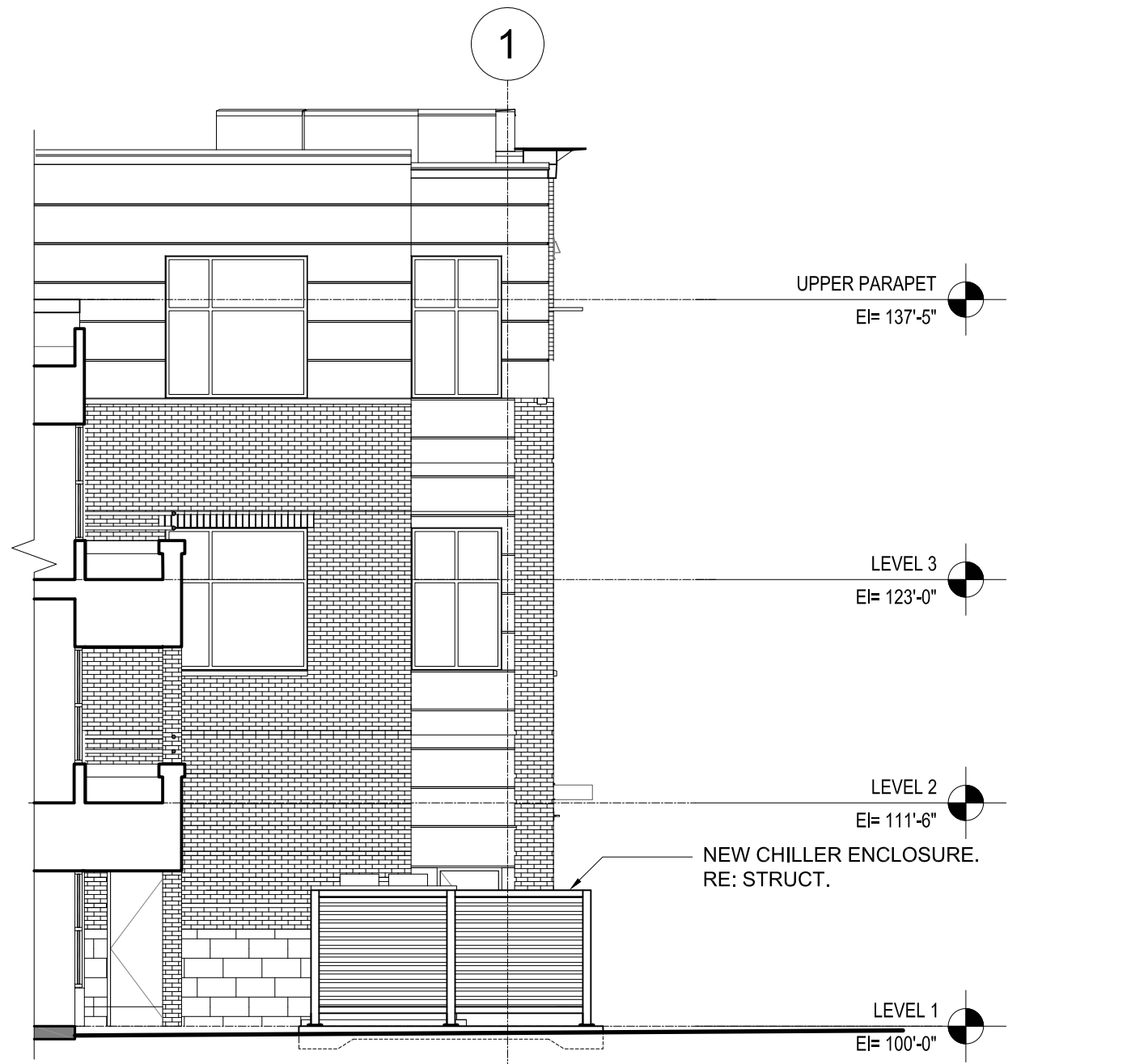
4 SECTION THROUGH CHILLER ENCLOSURE LOOKING SOUTH
SCALE: 1/4" = 1'-0"



1 CHILLER ENCLOSURE PLAN
SCALE: 1/8" = 1'-0"



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



2 CHILLER ENCLOSURE NORTH ELEVATION
SCALE: 1/8" = 1'-0"

PROJECT
ST VRAIN HUB-CHILLER PROJECT

LOCATION
529 COFFMAN ST.
LONGMONT, CO. 80501

SHEET
CHILLER / ENCLOSURE
PLAN, ENCLOSURE SECTION AND
ENCLOSURE ELEVATIONS

FILE NAME
SITE PLAN chiller.dwg

ACCT.: 101862
DATE: MARCH 23, 2020
DRAWN BY: SMJ
CHECKED BY: RD

REVISIONS

SHEET
A2
2 OF 2

ABBREVIATIONS

Table with 3 columns: Abbreviation, Description, and another Abbreviation/Description. Includes entries like AASHTO, ABAN, AC, ADDL, etc.

Table with 3 columns: Abbreviation, Description, and another Abbreviation/Description. Includes entries like INCL, ID, IN, INSUL, etc.

DESIGN LEGEND

Diagrammatic legend for design features including benchmarks, manholes, area drains, and various pipe types with their corresponding symbols.

GENERAL NOTES

- 1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF LONGMONT UTILITY DISTRICTS, COLORADO DEPARTMENT OF TRANSPORTATION, LONGMONT FIRE DEPARTMENT REQUIREMENTS, AND APPLICABLE STATE AND LOCAL STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARD SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK...



Diagrammatic legend for detail titles and section callouts, showing how to label a detail and a section cut.

SURVEY LEGEND

Diagrammatic legend for survey features including water lines, valves, manholes, electrical lines, and structures.

Boulder County Public Works County Architects Division logo and contact information: 2020 13TH STREET BOULDER, CO 80302

JVA, INC. CIVIL ENG logo and registration information: COLORADO REGISTERED PROFESSIONAL ENGINEER 37146

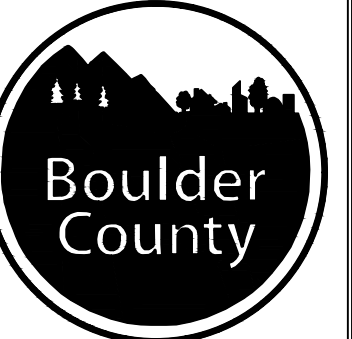
BOULDER COUNTY ST. VRAIN HUB CHILLER PROJECT title block with vertical text and project details.

PROJECT ST VRAIN HUB-CHILLER PROJECT, LOCATION 528 COFFMAN ST. LONGMONT, CO, 80501, SHEET GENERAL NOTES AND LEGEND FILE NAME

Table with 2 columns: REVISIONS, Description. Contains revision entries.

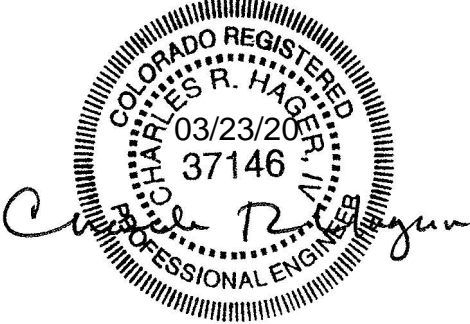
SHEET C0.1 OF logo and sheet number.

U:\Civil\Proposals\Boulder County Housing & Human Services 2020\2020 Coffman Hub Chiller\Civil Plans\2..._c-00-NA-01.dwg, 3/21/2020 - 3:18 PM, jcs

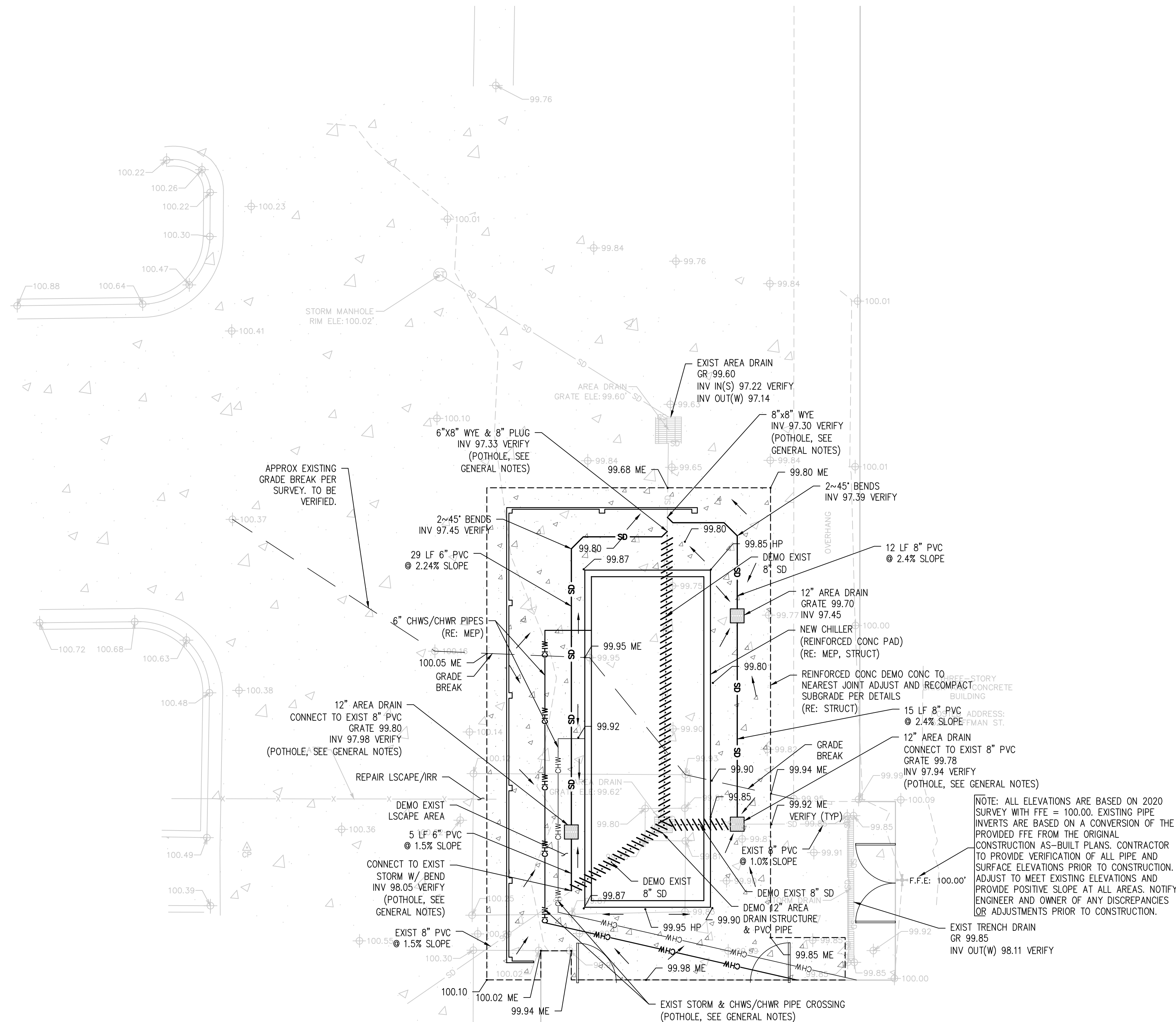


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P.O. BOX 471
BOULDER, CO 80306
PHONE 303 441 3905

JVA, INC. CIVIL ENG



**BOULDER COUNTY
ST. VRAIN HUB
CHILLER PROJECT**



- DEMOLITION NOTES:**
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
 2. ACTUAL LIMITS MAY VARY. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING LIMITS OF DEMOLITION AND CONSTRUCTION AS NECESSARY. COORDINATE DEMOLITION REQUIREMENTS, LIMITS OF DEMOLITION, SALVAGE ITEMS, PROTECTION OF ITEMS TO REMAIN, TREES, FENCING, ETC. WITH OWNER, ARCHITECT, ENGINEER, AND RELEVANT CONSTRUCTION AND PHASING PLANS.
 3. IF BUILDING DEMOLITION IS REQUIRED, REFER TO ARCHITECT AND APPLICABLE ENGINEERS FOR DETAILED DEMOLITION INFORMATION.
 4. REPLACE EXISTING FLATWORK AT UTILITY TRENCHES AS REQUIRED.
 5. ALL SAWCUTTINGS AND PAVEMENT REMOVAL SHOULD BE TO THE NEAREST JOINT.
 6. ALL DRY UTILITY AND ELECTRIC DEMOLITION OR RELOCATION SHOULD BE COORDINATED WITH PROPERTY OWNER, UTILITY OWNER, MECHANICAL ENGINEER, AND ARCHITECT PRIOR TO CONSTRUCTION.
 7. ALL NECESSARY EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO CONSTRUCTION.
 8. CONTRACTOR TO COMPLY WITH ALL REGULATORY REQUIREMENTS FOR HAZARDOUS MATERIAL REMOVAL AND DISPOSAL.
 9. REFER TO GENERAL NOTES FOR TREE PROTECTION. COORDINATE WITH LANDSCAPE ARCHITECT FOR TREE REMOVAL.
 10. CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS. PROVIDE TEMPORARY ROUTE AND SIGNAGE AS NEEDED.
 11. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT AND MAINTAIN SERVICES DURING CONSTRUCTION.
 12. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.

- HORIZONTAL CONTROL NOTES:**
1. SEE ARCHITECTURAL PLAN FOR HORIZONTAL CONTROL.

- GRADING AND DRAINAGE NOTES:**
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
 2. REFER TO HORIZONTAL CONTROL PLAN FOR FURTHER INFORMATION PERTAINING TO CURB & GUTTER, CHASES, AND DRAINAGE PANS.
 3. CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITIONS.
 4. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE OR FLOWLINE UNLESS OTHERWISE SPECIFIED.
 5. IF WALL IS SHOWN, TG DENOTES THE FINISHED GRADE ADJACENT TO THE HIGH SIDE OF THE WALL. BG DENOTES THE FINISHED GRADE ADJACENT TO THE LOW SIDE OF THE WALL. REFER TO ARCH PLANS/DETAILS FOR WALL ELEVATIONS BEYOND THE ADJACENT FINISHED GRADES (EXPOSED WALL, CAP/FOOTER, ETC.)

PROJECT
ST VRAIN HUB-CHILLER PROJECT

LOCATION
529 COFFMAN ST.
LONGMONT, CO, 80501

SHEET
CIVIL SITE PLAN

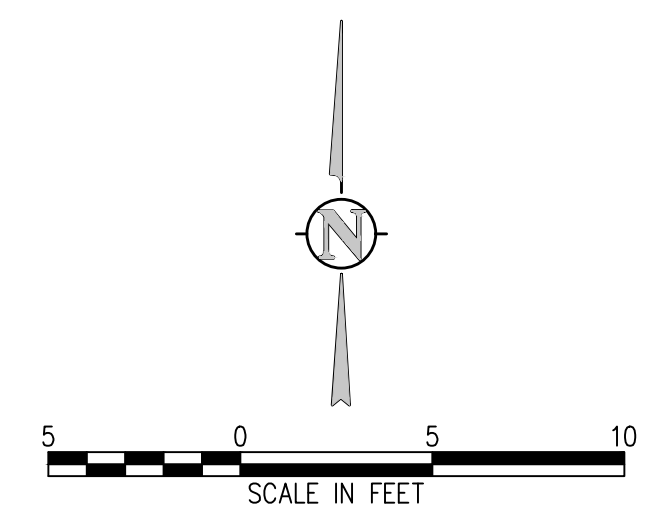
FILE NAME

ACCT: 101862
DATE: MARCH 19, 2020
DRAWN BY: JJC
CHECKED BY: CRH

REVISIONS

NO.	DESCRIPTION

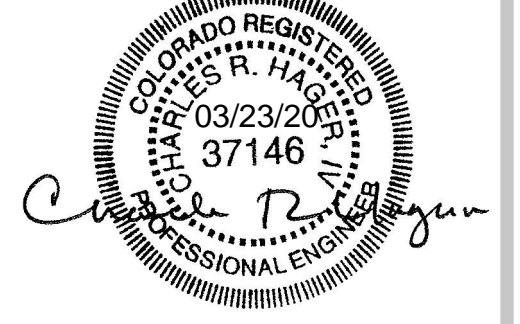
SHEET
C1.0
OF



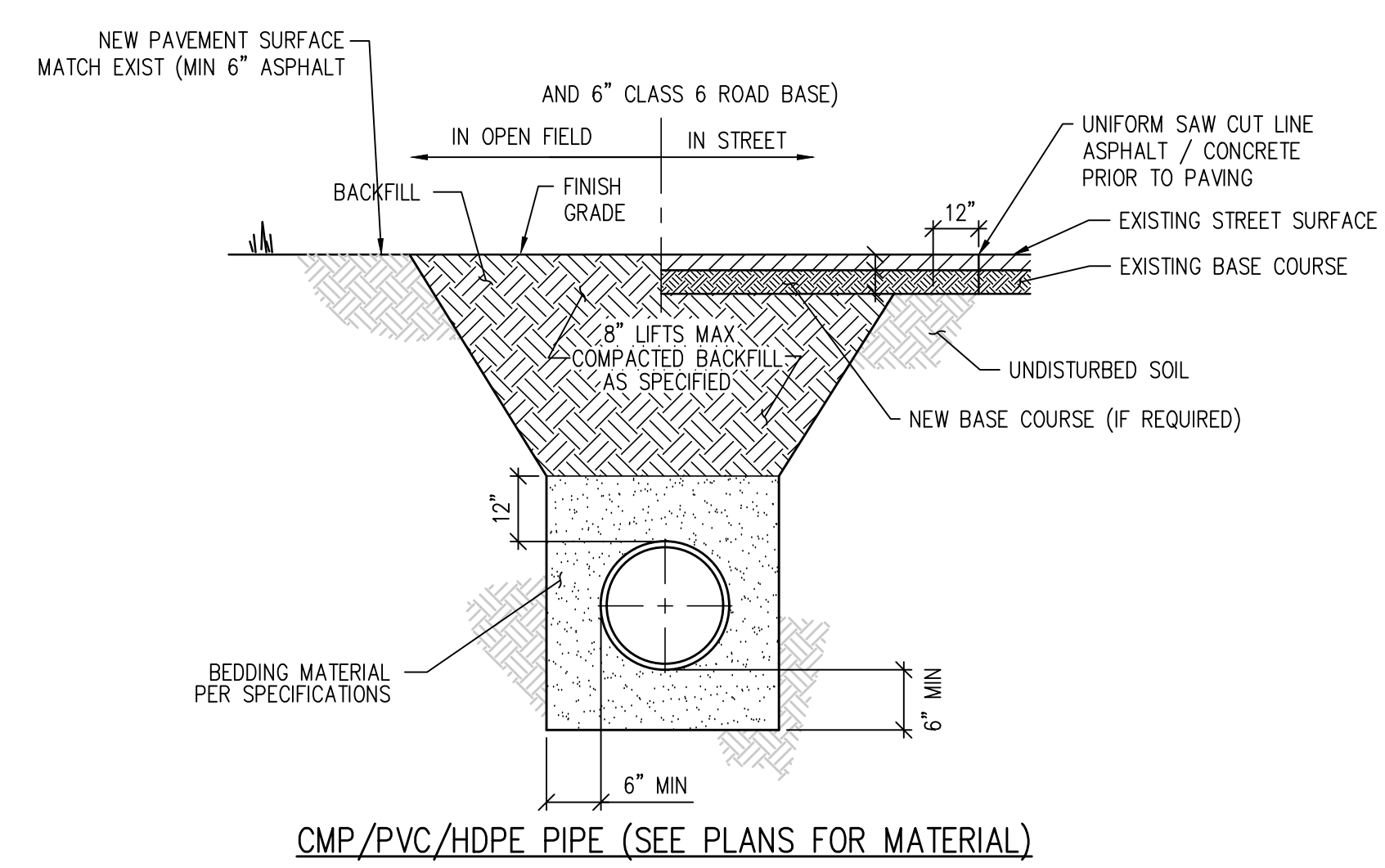


PUBLIC WORKS
COUNTY ARCHITECTS
DIVISION
2020 13TH STREET
BOULDER, CO 80302
P.O. BOX 471
BOULDER, CO 80306
PHONE 303 441 3905

JVA, INC. CIVIL ENG

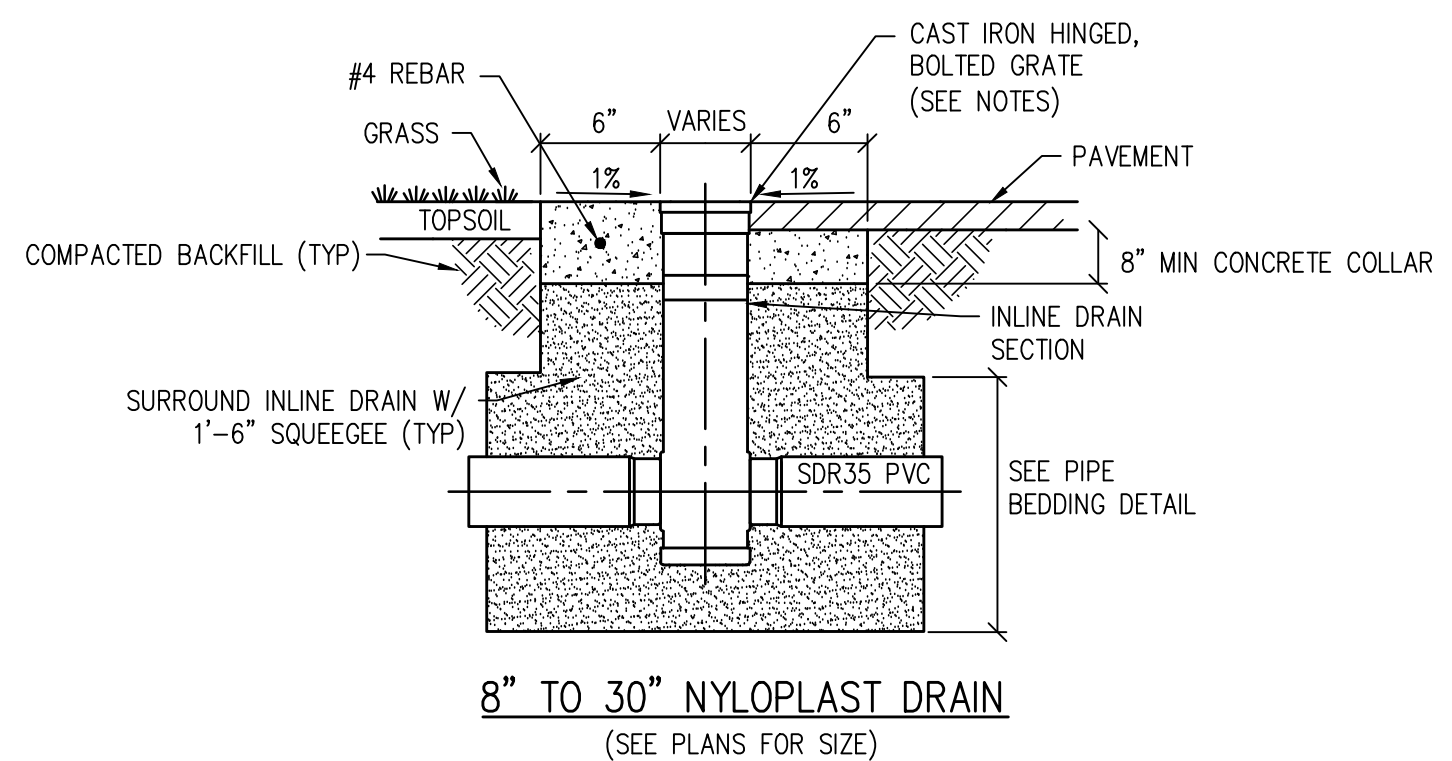


**BOULDER COUNTY
ST. VRAIN HUB
CHILLER PROJECT**



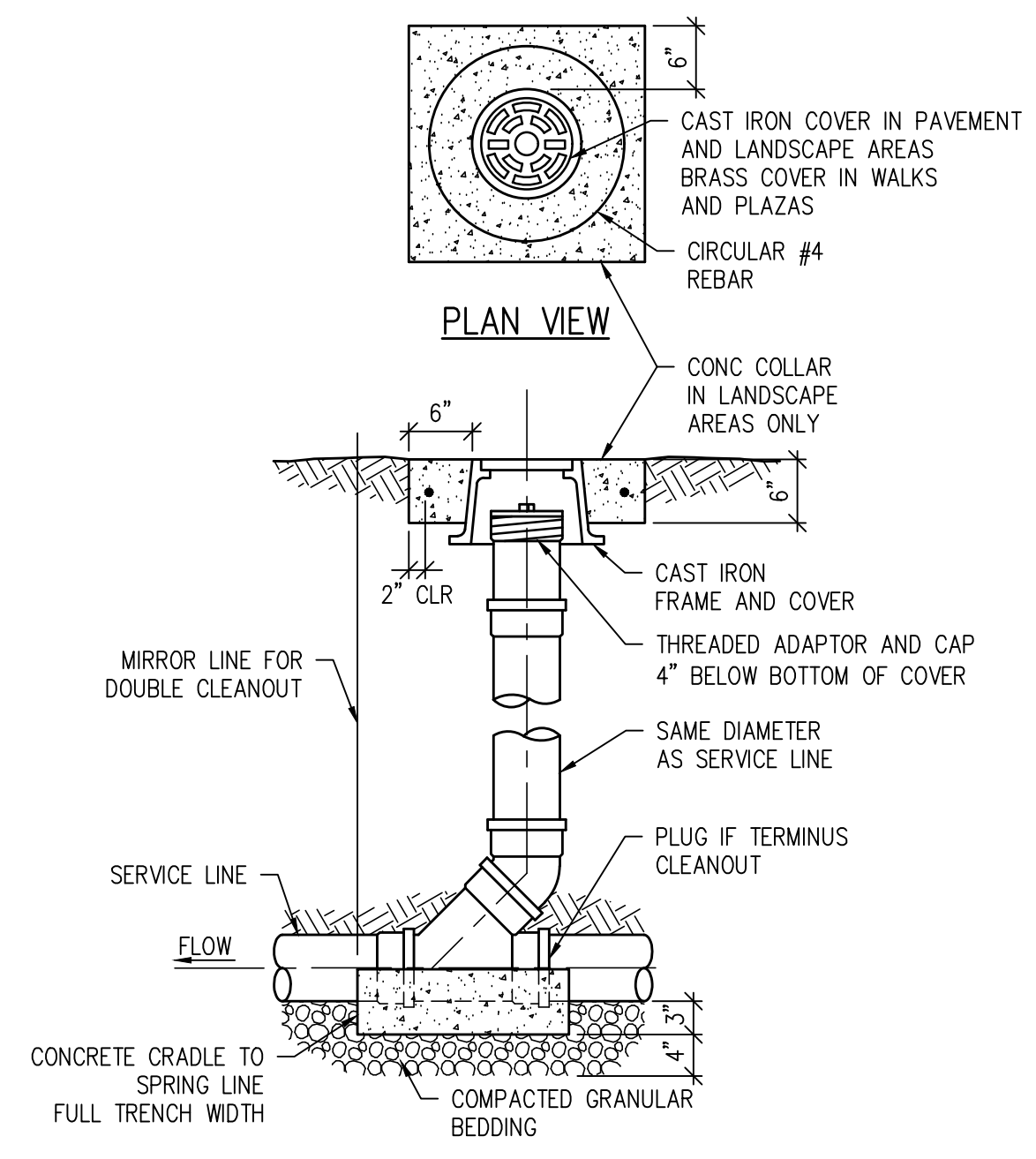
- NOTES:**
- IF UNSTABLE MATERIALS ARE FOUND IN TRENCH, OVEREXCAVATED PER SPECIFICATIONS OR AS REQUIRED.
 - TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES.
 - MINIMUM COVER IS 18" BELOW FINISHED GRADE.

STORM SEWER PIPE BEDDING DETAIL 1
NTS C1.0

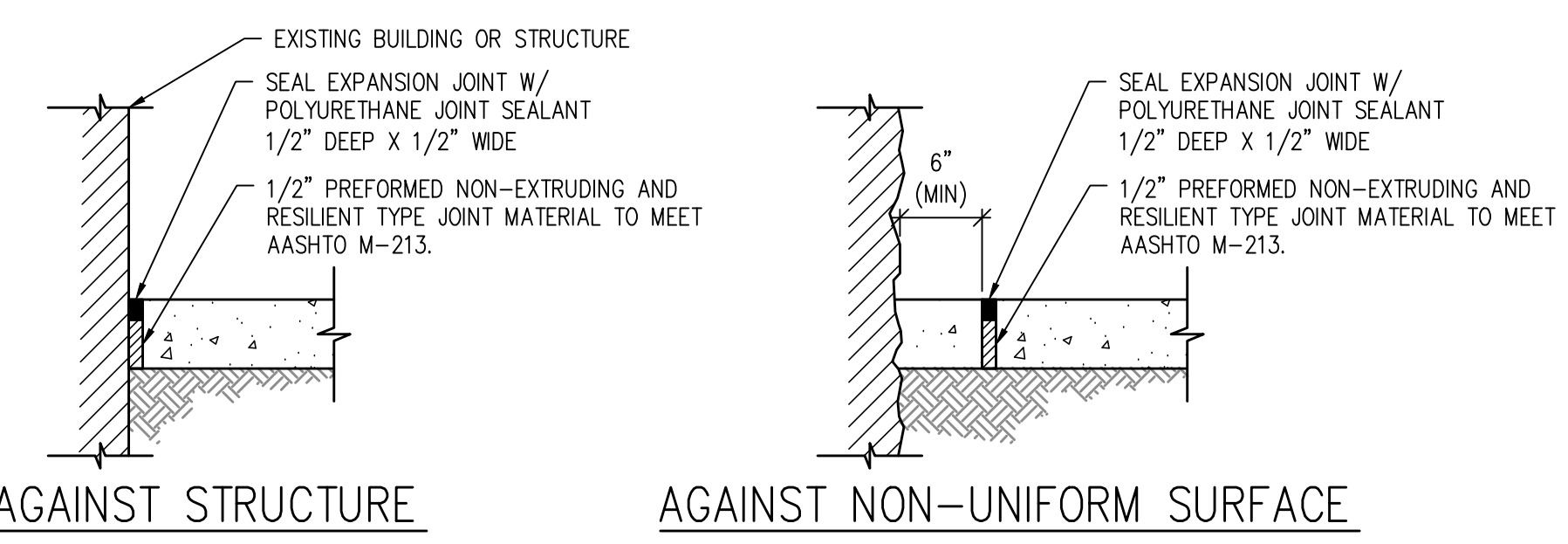


- NOTES:**
- AREA DRAIN COVER TO BE NYLOPLAST CAST HS-20 RATED BOLTED AND HINGED GRATE OR APPROVED EQUAL IN TRAFFIC AREAS.
 - AREA DRAIN INLETS IN PEDESTRIAN AREAS SHALL BE INSTALLED WITH PEDESTRIAN RATED GRATES (1/4" MAX OPENING, TYPICAL).

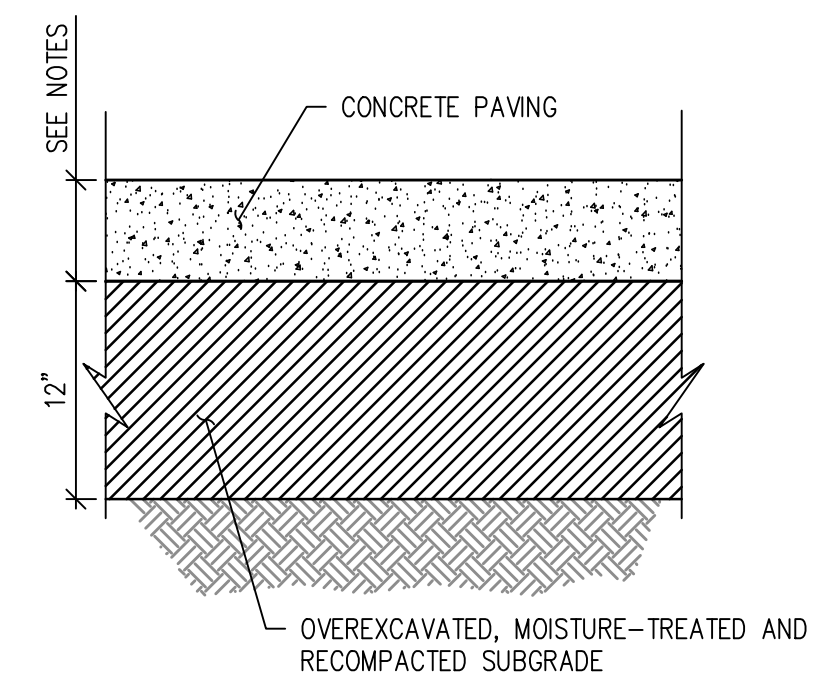
AREA DRAIN DETAIL 2
NTS C1.0



STORM CLEANOUT DETAIL 3
NTS C1.0

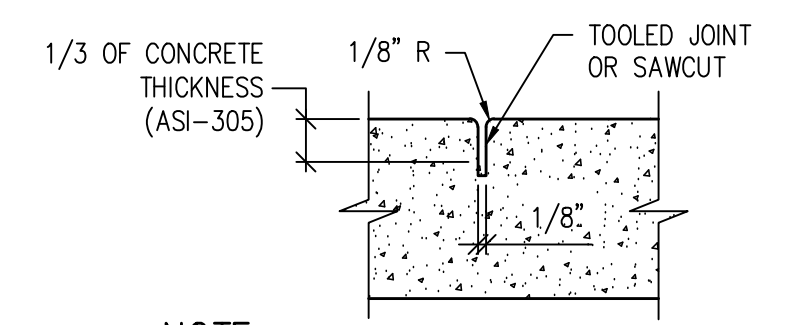


AGAINST STRUCTURE AGAINST NON-UNIFORM SURFACE



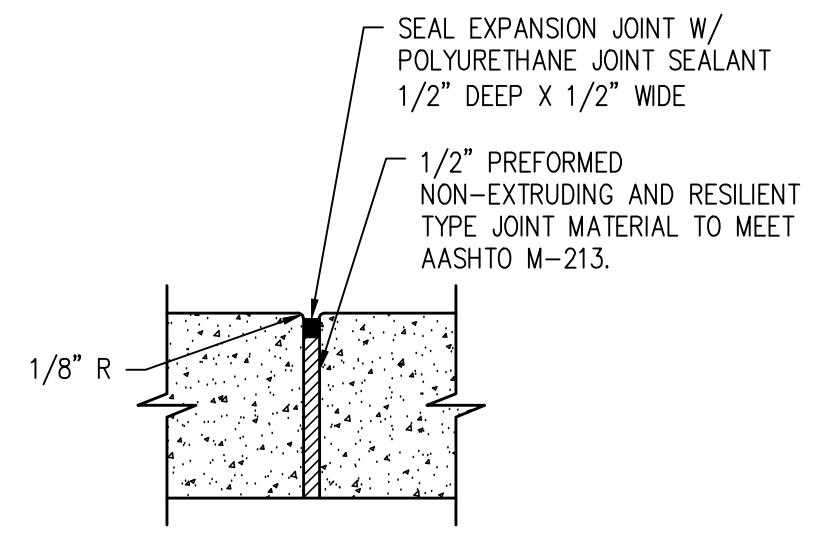
- NOTES:**
- CONCRETE THICKNESS: SEE STRUCTURAL PLANS AND DETAILS
 - COMPACT SUBGRADE.
 - SEE CONTRACTION JOINT AND EXPANSION JOINT DETAILS.

CONCRETE PAVEMENT SECTION DETAIL 5
NTS C1.0



- NOTE:**
- CONTRACTION JOINTS AT INTERVAL TO MATCH
WIDTH OF SIDEWALK (TYP).

CONTRACTION JOINT DETAIL 5
NTS REV DATE 01/2018



- NOTES:**
- CURB EXPANSION JOINTS EVERY 100' MAX AND WHEREVER SIDEWALK ABUTS EXISTING & PROPOSED CONCRETE STRUCTURES (TYP) - SEE PLAN
 - REMOVE PLASTIC FORMING MATERIAL ("ZIP STRIPS") FROM PREFORMED JOINT MATERIAL PRIOR TO PLACING SEALANT

EXPANSION JOINT DETAIL 6
NTS

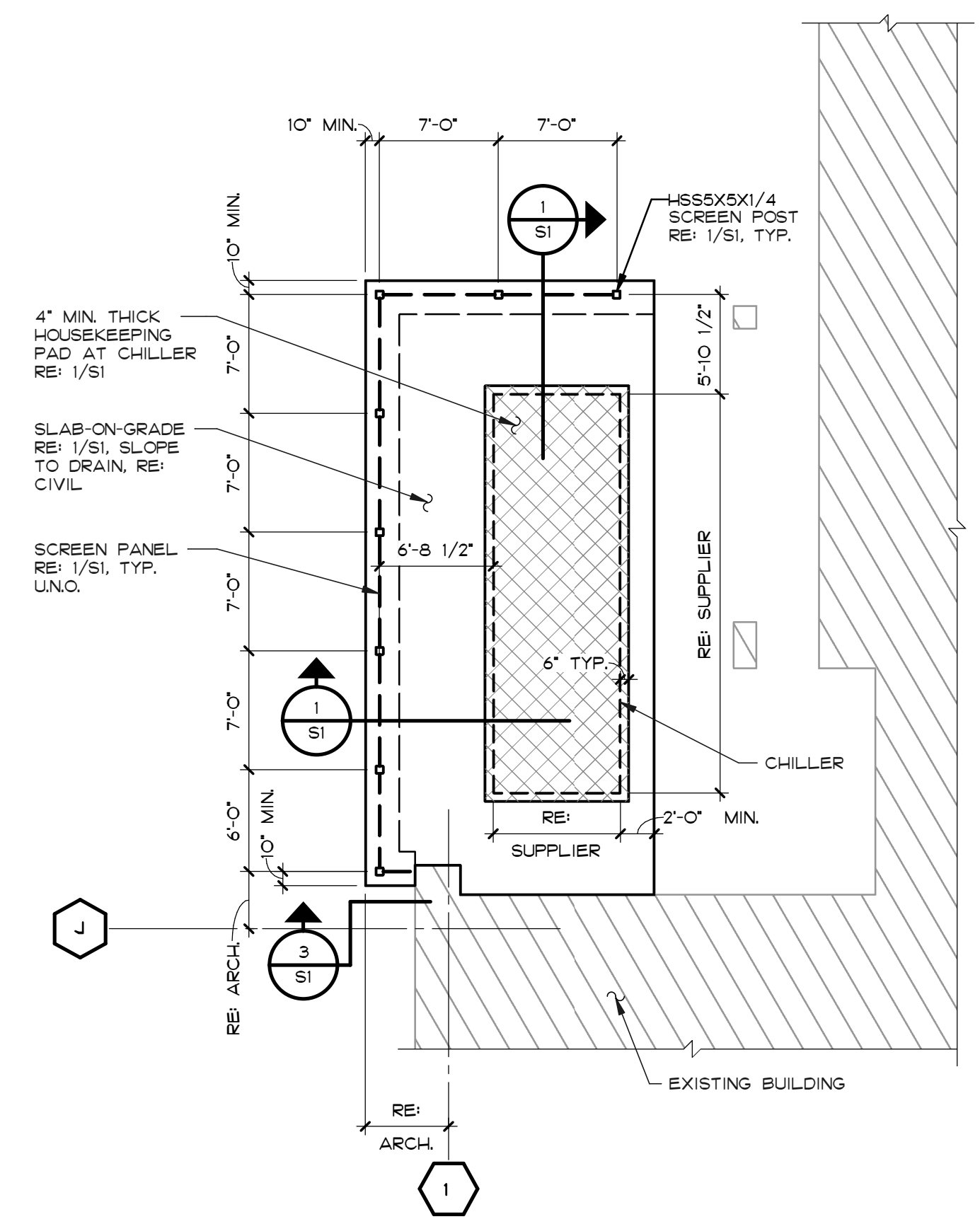
PROJECT ST VRAIN HUB -CHILLER PROJECT	
LOCATION 525 COFFMAN ST. LONGMONT, CO, 80501	
SHEET SITE DETAILS	
FILE NAME	
ACCT.:	101862
DATE:	MARCH 19, 2020
DRAWN BY:	JPC
CHECKED BY:	CRH

REVISIONS	

GENERAL NOTES

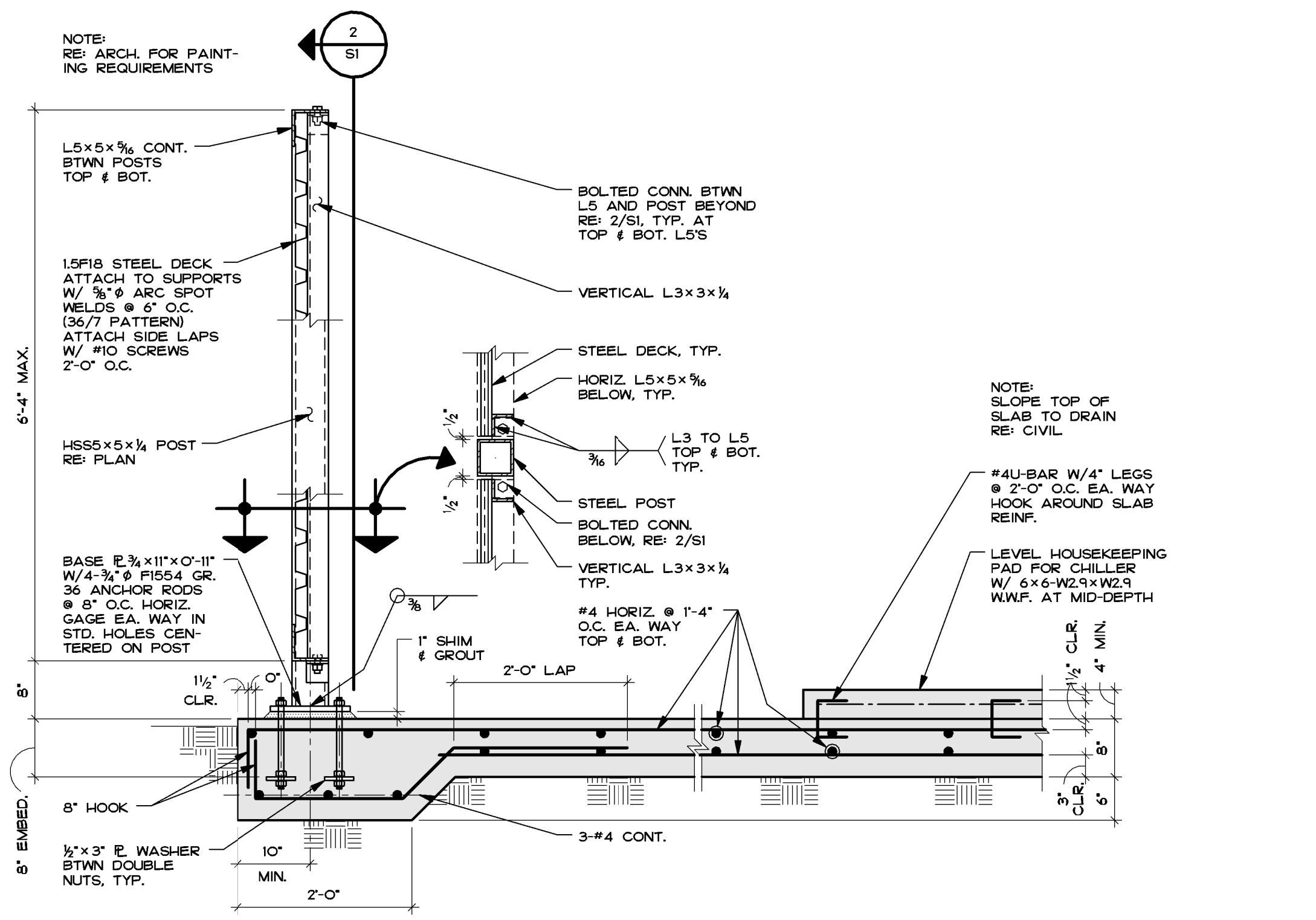
1. Design Standards:
 - A. International Building Code 2018 Edition plus current applicable City of Longmont Amendments
 - B. ASCE 7-16 Minimum Design Loads for Buildings and Other Structures
 - C. ACI 318-14 Building Code Requirements for Structural Concrete
 - D. AISC 360-16 Specification for Structural Steel Buildings (LRFD)
2. Wind Load Design Criteria:
 - A. Basic Wind Speed Vult (3-second gust) = 142 mph (ultimate)
 - B. Exposure Category C
 - C. Risk Category II
3. Concrete:
 - A. All concrete shall be made with stone aggregate and shall develop the following 28 day compressive strength (f'c):
 - Exterior slabs-on-grade..... 4500 psi (0.45 max. w/c ratio, 6% target air content)
 - B. All reinforcing bars shall be ASTM A615, Grade 60, unless noted otherwise. Welded wire fabric shall conform to ASTM A185 or ASTM A497.
 - C. Concrete Protection for Reinforcement (unless noted otherwise):
 1. Concrete poured against earth.....3"
 2. Concrete poured in forms but exposed to weather or earth:
 - a. #5 bars or smaller.....1-1/2"
 - b. Bars larger than #5.....2"
 - D. Tolerance on specified concrete cover shall be the smaller of -3/8" or -1/3 times the specified cover.
 - E. No splices of reinforcement shall be made and no welding to reinforcing shall be permitted except as detailed or authorized by the Engineer. Reinforcing lap splices are to be a minimum of 48 bar diameters unless noted or scheduled otherwise on drawings. Wire fabric reinforcement must lap one full mesh plus 2" at side and end laps, but not less than 6", and shall be wired together. Make all bars continuous at corners or provide corner bars of equal size and spacing.
 - F. Detail bars in accordance with the ACI Detailing Manual and ACI Building Code Requirements for Structural Concrete.
 - G. Provide all accessories necessary to support reinforcing at positions shown on the plans.
 - H. No chloride admixtures shall be added to concrete without Engineer's approval.
4. Steel:
 - A. Structural steel shall be detailed, fabricated and erected in accordance with the AISC "Steel Construction Manual."
 - B. All structural steel shall conform to ASTM A992 (Fy=50ksi), except HSS sections which shall conform to ASTM A500 Grade C (Fy=50ksi) or ASTM A1085 (Fy=50ksi) and plates/bars which shall conform to ASTM A529 (Fy=50ksi) or ASTM A572 (Fy=50 ksi).
 - C. All welders shall have evidence of passing the AWS standard qualification tests, and have a current certification.
 - D. Indicated welding is based upon E70XX electrodes.
 - E. Anchor rods are to be ASTM F1554 Grade 36.
 - F. Steel Deck:
 1. All steel deck shall be erected in accordance with the specifications of the Steel Deck Institute.
 2. Steel deck shall be fastened to supports as indicated in the drawings.
5. All dimensions on structural drawings shall be checked against the architectural drawings.
6. Engineer's approval must be secured for all substitutions.
7. The Engineer does not provide inspections of construction. The Engineer may make periodic observations of the construction. Such observations shall not replace required inspections by the governing authorities or serve as "Special Inspections" as may be required by the Building Code.
8. Statement of Structural Special Inspections: The owner or the owner's authorized agent, other than the contractor, shall employ one or more approved agencies to provide structural special inspections and tests during construction on the types of work listed below in accordance with Chapter 17 of the International Building Code (IBC). See references listed below for specific requirements. Special structural inspections during fabrication are not required where the work is done on the premises of a fabricator registered and approved to perform such work without special inspection.
 - A. Structural steel construction, IBC Section 1705.2.1 and AISC 360 Chapter N.
 - B. Cold-formed steel deck, IBC Section 1705.2.2 and SDI QA/QC.
 - C. Structural concrete construction, IBC Section 1705.3 and Table 1705.3.
9. Explanation of section designation used:

SECTION IDENTIFICATION	X S-X	SHEET LOCATION OF DETAILS
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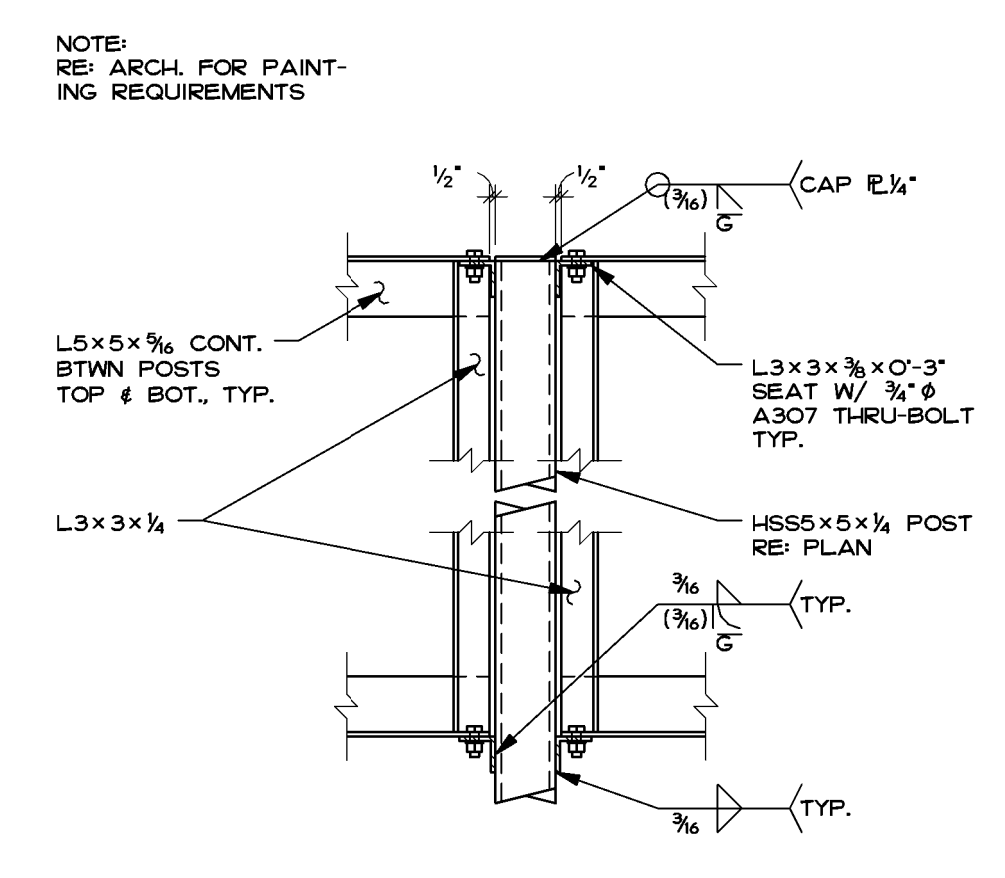


FOUNDATION PLAN

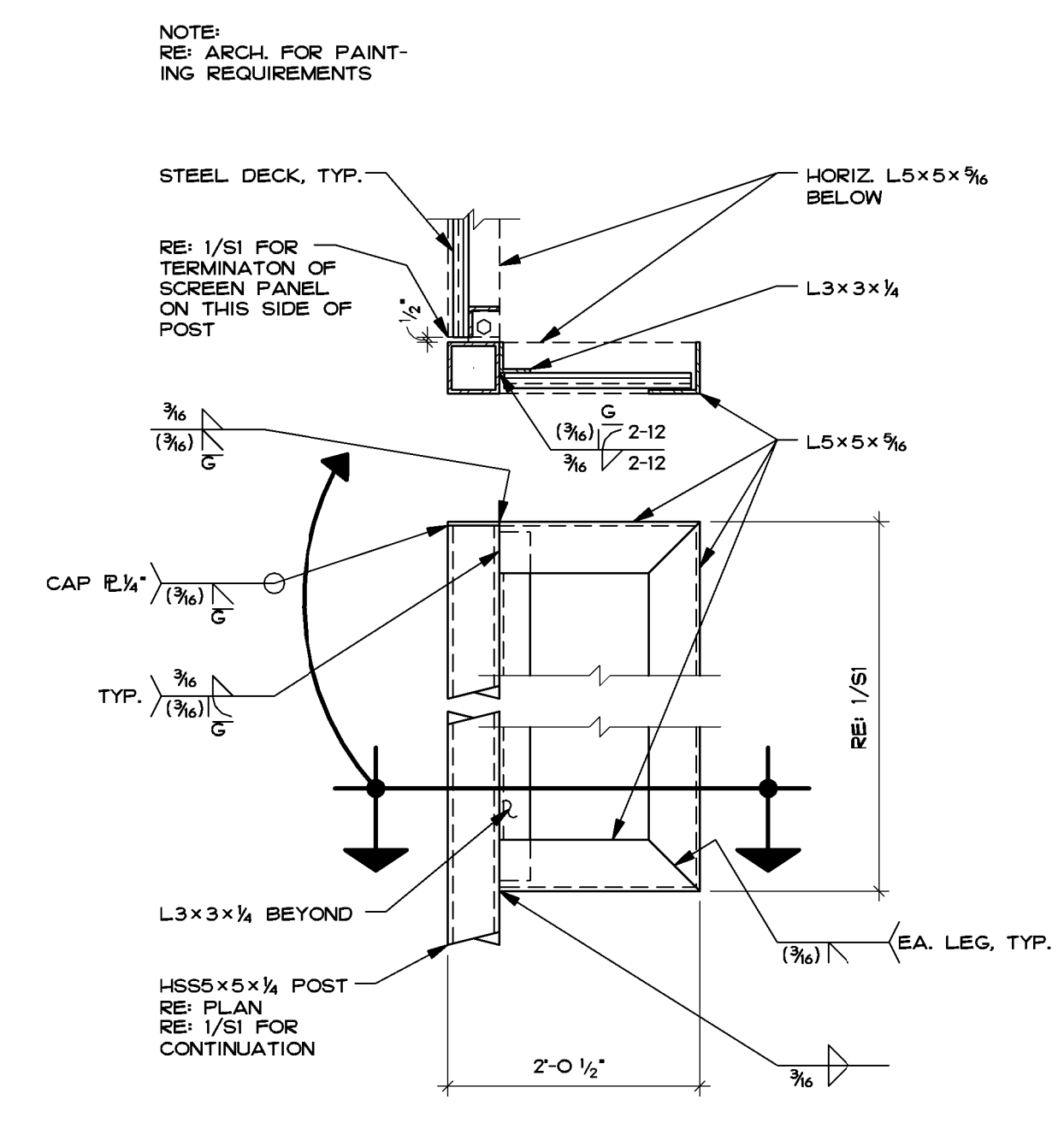
1/8" = 1'-0"



1 3/4" = 1'-0"



2 3/4" = 1'-0"



3 3/4" = 1'-0"

REVISIONS	NO.	DATE	DESCRIPTION

DESIGNED BY:	CDT
DRAWN BY:	CDT
CHECKED BY:	PJH
JOB #:	101862
DATE:	MARCH 12, 2020

BOULDER COUNTY ST. VRAIN HUB CHILLER PROJECT
529 COFFMAN ST., LONGMONT, CO 80501
GENERAL NOTES, PLAN AND DETAILS

MECHANICAL NOTES

I. GENERAL

- A. ALL WORK SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS AND SPECIFICATIONS, AND LOCAL AUTHORITY HAVING JURISDICTION.
- B. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW ALL TRANSITIONS, OFFSETS, ETC. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE ALL NECESSARY FITTINGS TO COMPLETE THE INTENT OF THE DRAWINGS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR RESOLUTION. CONTRACTOR MAY LOCATE MECHANICAL EQUIPMENT DIFFERENTLY THAN SHOWN ON DRAWINGS DUE TO CONFLICTS, AS LONG AS FUNCTION AND/OR APPEARANCE ARE NOT AFFECTED.
- C. COORDINATE SPACE REQUIREMENTS, SUPPORTS, AND INSTALLATION OF MECHANICAL WORK, WHICH ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. FOLLOW ROUTING SHOWN FOR PIPES AND DUCTS AS CLOSELY AS PRACTICABLE; PLACE RUNS PARALLEL WITH LINES OF BUILDING. UTILIZE SPACES EFFICIENTLY TO MAXIMIZE ACCESSIBILITY FOR OTHER INSTALLATIONS, FOR MAINTENANCE, AND FOR REPAIRS.
- D. COMPLY WITH MANUFACTURER'S INSTRUCTIONS INCLUDING EACH STEP IN SEQUENCE. SHOULD MANUFACTURER'S INSTRUCTIONS CONFLICT WITH THE DRAWINGS, REQUEST CLARIFICATION FROM THE ENGINEER BEFORE PROCEEDING.
- E. CONTRACTOR SHALL REVIEW THESE DOCUMENTS CAREFULLY. CONTRACTOR SHALL CONTACT THREE SIXTY (360) ENGINEERING, INC. (303-940-2050), FOR RESOLUTION OF ANY DISCREPANCIES, OMISSIONS, OR CLARIFICATIONS, BEFORE BID DATE. IN THE EVENT THAT AN INTERPRETATION OF BID DOCUMENTS IS NECESSARY AFTER THE BID DATE, THE DECISION OF 360 SHALL BE FINAL AND BINDING.
- F. PRODUCT DELIVERY, STORAGE, AND HANDLING: PROVIDE EQUIPMENT AND PERSONNEL TO HANDLE PRODUCTS BY METHODS TO PREVENT DAMAGE. PROMPTLY INSPECT SHIPMENTS TO ENSURE THAT PRODUCTS ARE UNDAMAGED. STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- G. ALL REMOVED EQUIPMENT SHALL REMAIN THE PROPERTY OF THE BUILDING OWNER AND SHALL BE STORED PER THEIR DIRECTION.
- H. THE CONTRACTOR IS RESPONSIBLE FOR THE COSTS OF ALL CHANGE ORDERS, WHICH THE OWNER AND ENGINEER HAVE NOT APPROVED IN WRITING PRIOR TO THE EXECUTION OF THE ASSOCIATED WORK.
- I. IN THE CASE OF A CONFLICT, UNLESS OTHERWISE NOTED, KEYNOTES ON MECHANICAL PLANS SHALL SUPERCEDE ANY GENERAL NOTES ON THE PLANS.

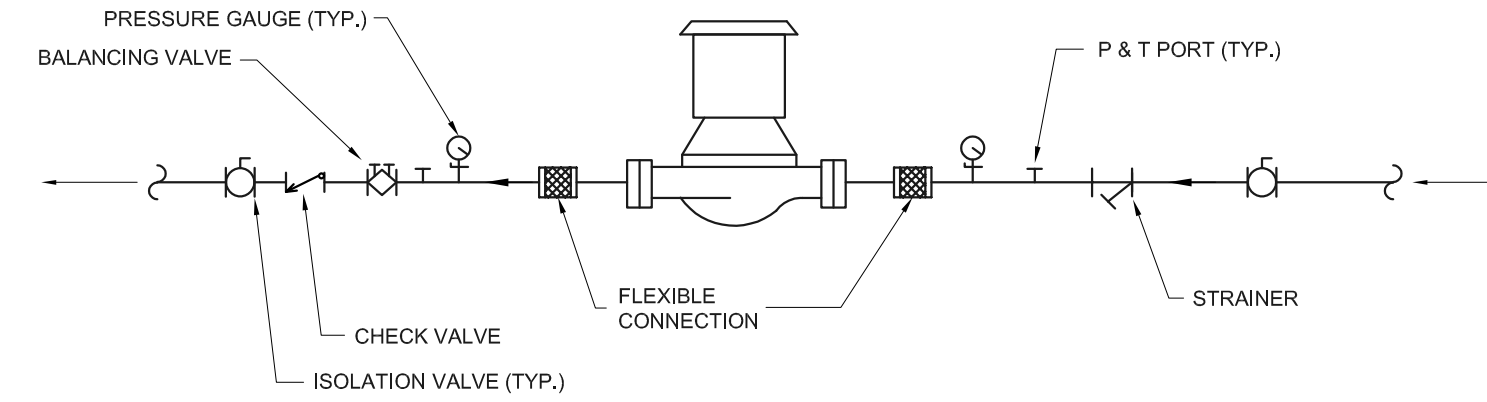
II. EQUIPMENT

- A. CHILLED WATER PIPING SHALL BE SCHEDULE 40, GRADE B, TYPE 96 STEEL PIPE; CLASS 150, MALLEABLE IRON FITTINGS, CAST-IRON FLANGES AND FLANGE FITTINGS, AND THREADED JOINTS.
- T. HYDRONIC PIPING INSULATION: MINERAL-FIBER, PREFORMED PIPE INSULATION: TYPE 1, 850° F., MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM A47, TYPE 1, GRADE A, WITH FACTORY APPLIED ASJ.
 - 1. CHILLED WATER = 1.0" THICK, CONDUCTIVITY ≤ 0.25 @ 75° F.
- U. BRONZE BALL VALVES: TWO-PIECE, FULL-PORT, LEAD-FREE BRONZE BALL VALVES WITH STAINLESS-STEEL TRIM.
- V. BUTTERFLY VALVE: KESTONE NBR LUG HIGH PERFORMANCE OR EQUAL WITH STAINLESS-STEEL DISC AND TRIM.

III. EXECUTION

- A. BALANCING:
 - 1. CONTRACTOR SHALL ADJUST AND BALANCE PUMPS AND COILS TO THE QUANTITIES SHOWN ON THE DRAWING. BALANCING WORK SHALL BE PERFORMED IN ACCORDANCE WITH NEBB OR TABB STANDARDS BY A NEBB OR TABB CERTIFIED CONTRACTOR. SUBMIT BALANCING REPORT TO THE ENGINEER.
 - 2. ADJUST SYSTEMS TO PROVIDE SPECIFIED PRESSURE DROPS AND FLOWS THROUGH HEAT TRANSFER ELEMENTS PRIOR TO THERMAL TESTING. PERFORM BALANCING BY MEASUREMENT OF TEMPERATURE DIFFERENTIAL IN CONJUNCTION WITH AIR BALANCING.
- B. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AND NOTIFY 360 ENGINEERING, INC. IF ANY CONFLICTS OCCUR.
- C. MECHANICAL CONTRACTOR TO CHECK OPERATION AND CONDITION OF ALL EXISTING MECHANICAL EQUIPMENT WITHIN THE CONFINES OF THIS SPACE AND PREPARE A WRITTEN LIST OF ANY DEFICIENCIES IN EQUIPMENT OPERATION OR CONDITION. LIST SHALL BE SUBMITTED TO PROPERTY MANAGER TWO WEEKS AFTER THE AWARD OF THE CONTRACT.
- D. ALL PIPE AND DUCT PENETRATIONS THROUGH RATED WALLS SHALL BE SEALED PER 2015 IBC.
- E. PROVIDE DIELECTRIC UNIONS AT CONNECTIONS BETWEEN DISSIMILAR METALS, I.E., IRON VALVES AND COPPER TUBING.
- F. PROVIDE PIPE HANGERS OF THE SAME MATERIAL AS THE PIPING SYSTEM OR USE COATED HANGERS.
- G. PROVIDE BALL VALVES AND UNIONS ON ALL LINES TO EQUIPMENT FOR ISOLATION AND REMOVAL.
- H. TREAT WATER PER CHILLER MANUFACTURER'S RECOMMENDATIONS AND PROVIDE 30% GLYCOL PRIOR TO RUNNING SYSTEM.
- I. PROVIDE ADHESIVE, MULTICOLOR PIPE LABELS FOR ALL SYSTEMS, PROVIDE EVERY 50 FEET, AND EVERY 25 FEET IN CONGESTED AREAS.

MECHANICAL LEGEND	
---	EXISTING DUCT
////	EXISTING TO BE REMOVED
---	NEW DUCT
⊠	SUPPLY DIFFUSER
⊡	RETURN AIR GRILLE
┌	MANUAL BALANCING DAMPER
~	FLEXIBLE DUCTWORK
⊙	THERMOSTAT
(N)	NEW
(D)	DEMO
(R)	RELOCATED
(E)	EXISTING



- NOTES:**
1. SUPPORT PUMP FROM PIPING ONLY. DO NOT SUPPORT PUMP FROM MOTOR.

1 **M0.1** **HORIZONTAL IN-LINE CIRCULATION PUMP DETAIL**
SCALE: N.T.S.

AIR COOLED CHILLER SCHEDULE																			
GENERAL			EVAPORATOR PERFORMANCE @ 95°F AMBIENT							ELECTRICAL				PHYSICAL				NOTES	
TAG	MFG	MODEL	EWT [°F]	LWT [°F]	FLOW RATE [GPM]	MIN. FLOW RATE [GPM]	PRESSURE DROP [FT W.C.]	TOTAL CAPACITY [TONS]	COOLING CAPACITY [TONS]	VOLTAGE [V]	PHASE	FREQ [HZ]	MCA [A]	MOC [A]	LENGTH [IN]	WIDTH [IN]	HEIGHT [IN]		WEIGHT [LBS]
C-1	CARRIER	30RB210	55.0	45.0	460.2	279.7	14.2	210.0	184	460	3	60.0	422.9	450.00	283	89	90	12772	1,2,3,4,5,6,7

NOTES:

1. (1) HERMETICALLY SEALED SCROLL COMPRESSORS
2. FACTORY MOUNTED DISCONNECT
3. MINIMUM TURNDOWN CAPACITY OF 6%. PROVIDE WITH MINIMUM LOAD CONTROL.
4. 10 STEPS OF CAPACITY CONTROL.
5. HIGH EFFICIENCY VARIABLE CONDENSER.
6. PERFORMANCE BASED ON 30% PROPYLENE GLYCOL.
7. PROVIDE FACTORY MOUNTED CONTROL WITH BACNET CAPABILITY.
8. 5300' ALTITUDE

PUMP SCHEDULE														
GENERAL				PERFORMANCE			ELECTRICAL				WT. LBS. (DRY)	NOTES		
TAG	MANUFACTURER	MODEL#	SYSTEM	FLOW [GPM]	HEAD [FT.]	EFF. %	POWER [HP]	[BHP]	VOLTAGE [V]	PHASE			FREQUENCY [HZ]	SPEED [RPM]
P-1	GRUNDFOS	40957 VL	CHW	308.8	45	72.8	7.5	4.96	460	3	60	1775	320	1,2,3,4
P-2	GRUNDFOS	40957 VL	CHW	308.8	45	72.8	7.5	4.96	460	3	60	1775	320	1,2,3,4

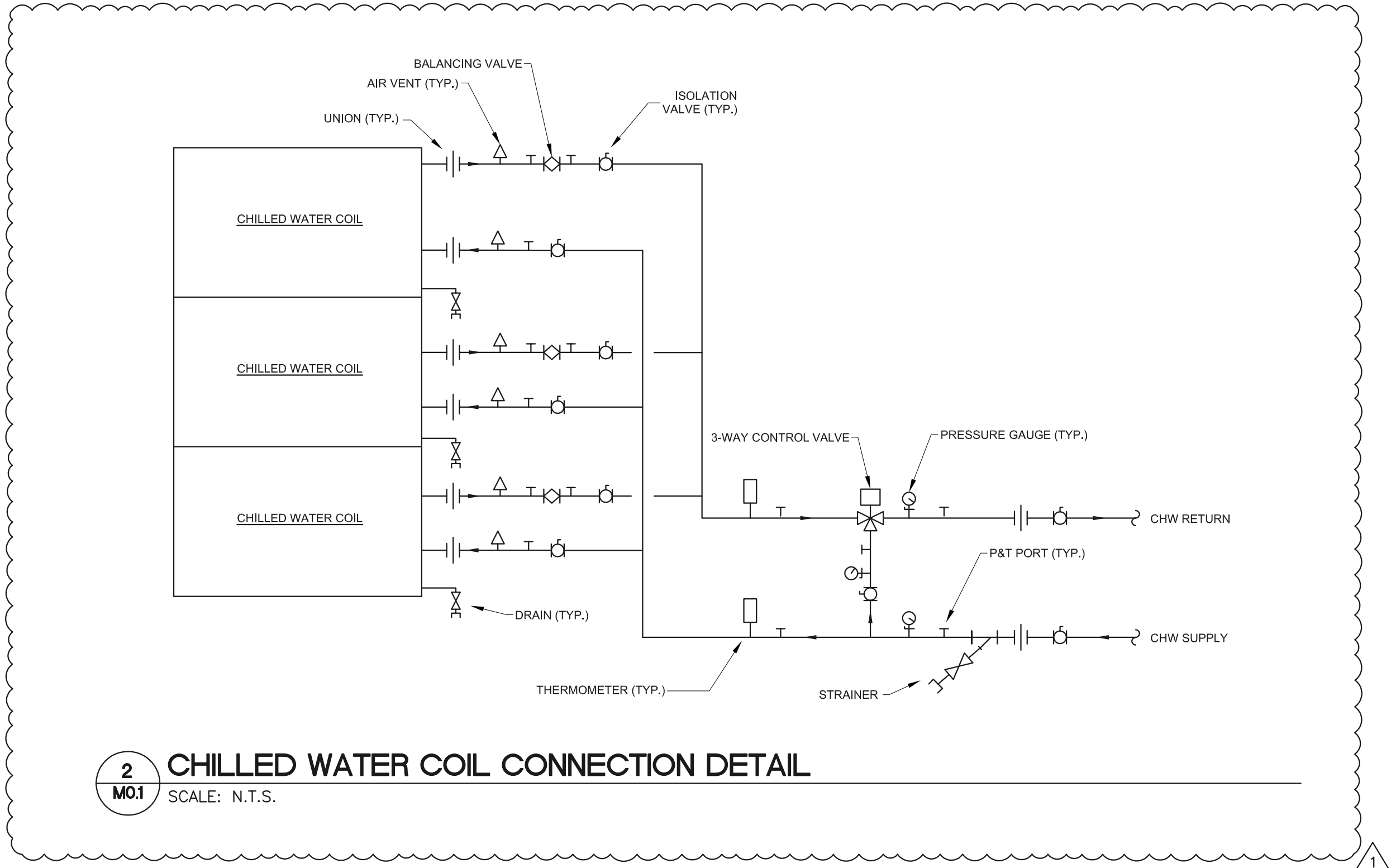
NOTES:

1. PROVIDE PUMP WITH VFD.
2. PROVIDE WITH FLEXIBLE CONNECTION AND SUCTION DIFFUSER.
3. PROVIDE FACTORY AUTHORIZED REP. START-UP
4. PERFORMANCE BASED ON 30% GYLCOL @ 5300'.

MISCELLANEOUS HVAC EQUIPMENT SCHEDULE						
TAG	DESCRIPTION	LOOP SERVED	MANUFACTURER	MODEL#	OPERATING WEIGHT	NOTES
ET-1	EXPANSION TANK	CHILLED WATER	ARMSTRONG	AST-60	350	1,4
PF-1	CHEMICAL POT FEEDER	CHILLED WATER	GRISWOLD	FB-5	100	2,3

NOTES:

1. ASME RATED.
2. WITH STRAINER.
3. 5 GALLON FUNNEL PACKAGE AND PEDESTAL.
4. PROVIDE WITH CALIFORNIA CODE SIGHT GLASS



2 **M0.1** **CHILLED WATER COIL CONNECTION DETAIL**
SCALE: N.T.S.

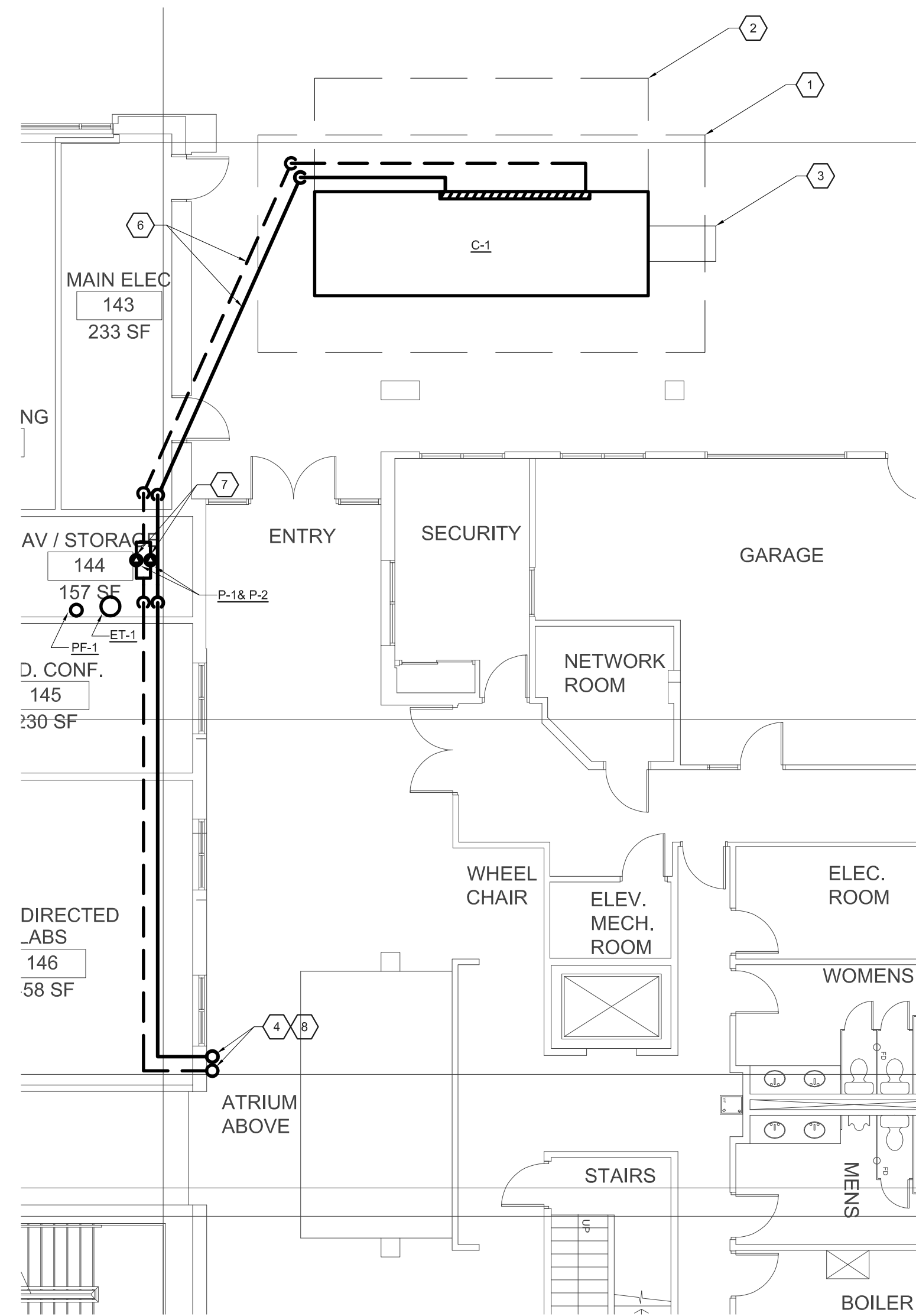
BOULDER COUNTY ST. VRAIN HUB
515 COFFMAN STREET
LONGMONT, CO 80501



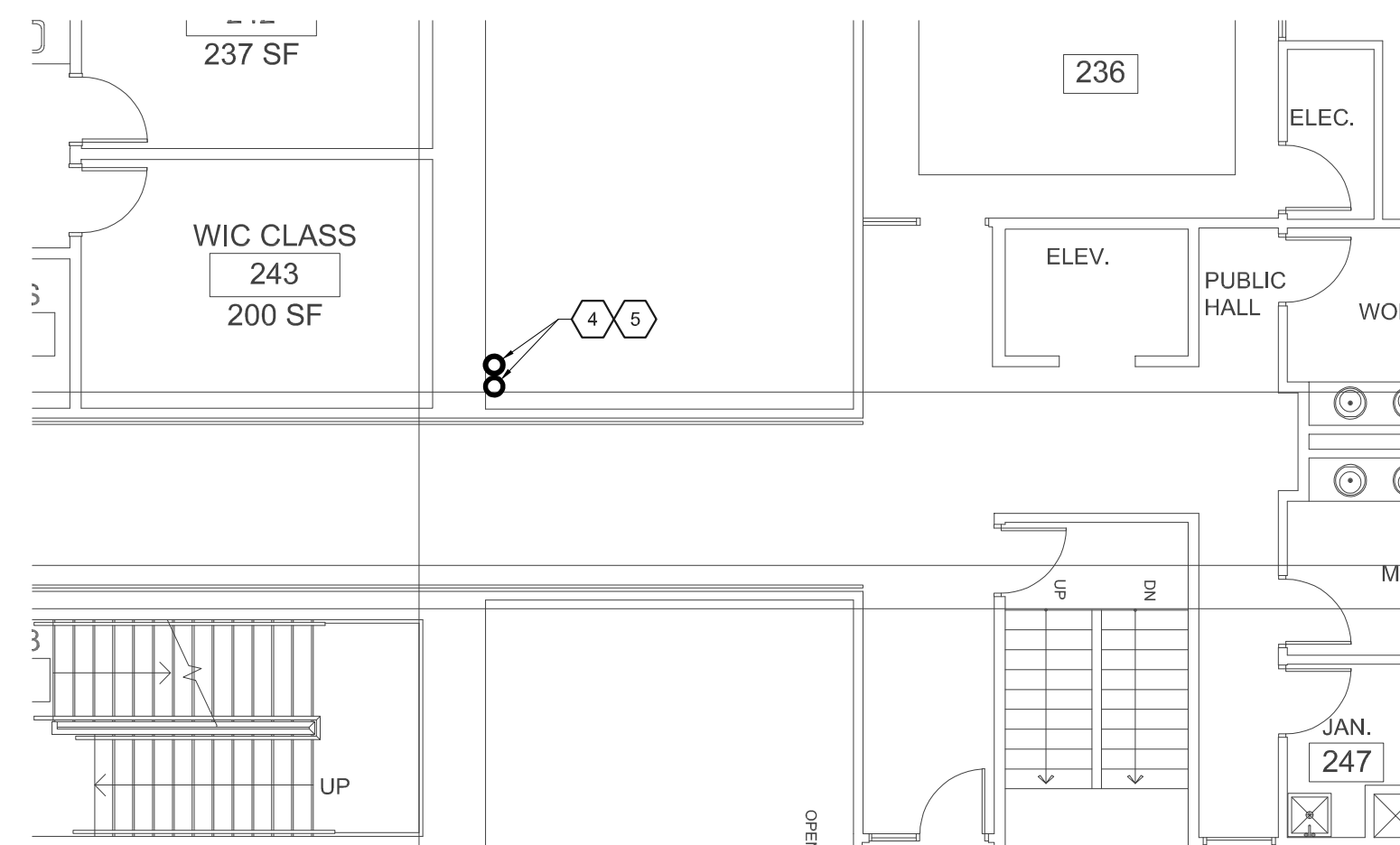
ISSUE	DATE
100% CD	10/22/19
ADDENDUM 1	12/23/19



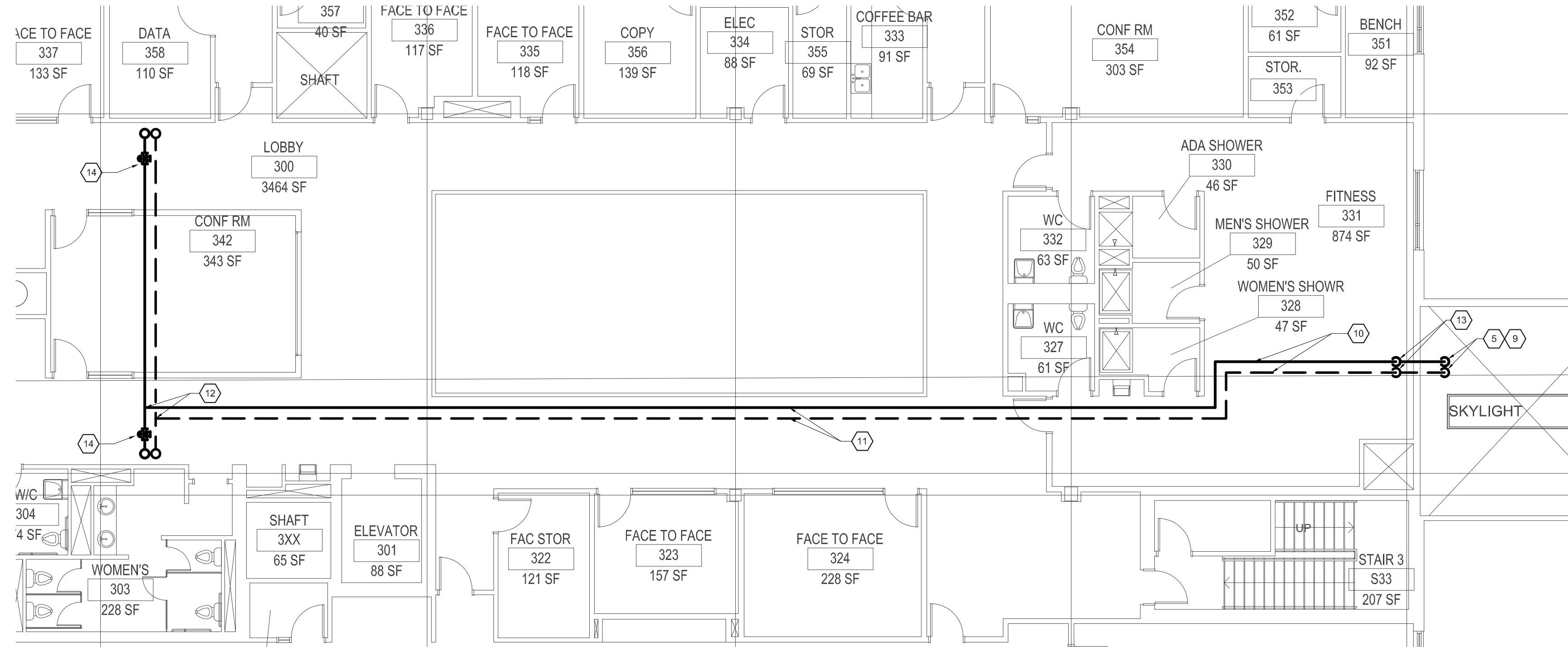
SHEET NUMBER
M0.1
SHEET:
MECHANICAL
SCHEDULES, LEGENDS,
DETAILS, & NOTES



1 FIRST FLOOR MECHANICAL FLOOR PLAN
 MLO SCALE: 1/8" = 1'-0"



2 SECOND FLOOR MECHANICAL FLOOR PLAN
 MLO SCALE: 1/8" = 1'-0"



3 THIRD FLOOR MECHANICAL FLOOR PLAN
 MLO SCALE: 1/8" = 1'-0"



KEY NOTES:

- 1 PROVIDE 4'-0" SERVICE CLEARANCE AROUND ENTIRE CHILLER.
- 2 PROVIDE 8'-0" SERVICE CLEARANCE BY REMOVABLE SCREEN.
- 3 PROVIDE 4'-8" SERVICE CLEARANCE BY REMOVABLE SCREEN.
- 4 ROUTE CHWS & CHWR PIPE TO LEVEL ABOVE.
- 5 ROUTE CHWS & CHWR PIPE TO LEVEL BELOW.
- 6 6" CHWS & CHWR PIPES ENTER ELECTRICAL ROOM BELOW GRADE.
- 7 INLINE CHW CIRCULATION PUMPS.
- 8 6" CHWS & CHWR ENTER ATRIUM AT RM 146 CEILING AND ROUTE UP ALONG ATRIUM WALL TO ATRIUM CEILING.
- 9 4" CHWS & CHWR TEES UP, ISOLATION VALVES, PENETRATES WALL AND CAPPED FOR FUTURE CONNECTION TO NORTH BUILDING AHU.
- 10 6" CHWS & CHWR CONTINUE HIGH ALONG EXPOSED STRUCTURE IN FITNESS ROOM, OVER DUCTS AS NECESSARY.
- 11 6" CHWS & CHWR CONTINUE ABOVE CORRIDOR CEILING.
- 12 6" CHWS & CHWR TEES TO 4" CHWS & CHWR WITH ISOLATION VALVES ROUTES UP THROUGH CURB TO EACH AHU.
- 13 6" CHWS & CHWR ELBOW UP TO HIGH ALONG CEILING.
- 14 3-WAY VALVE.

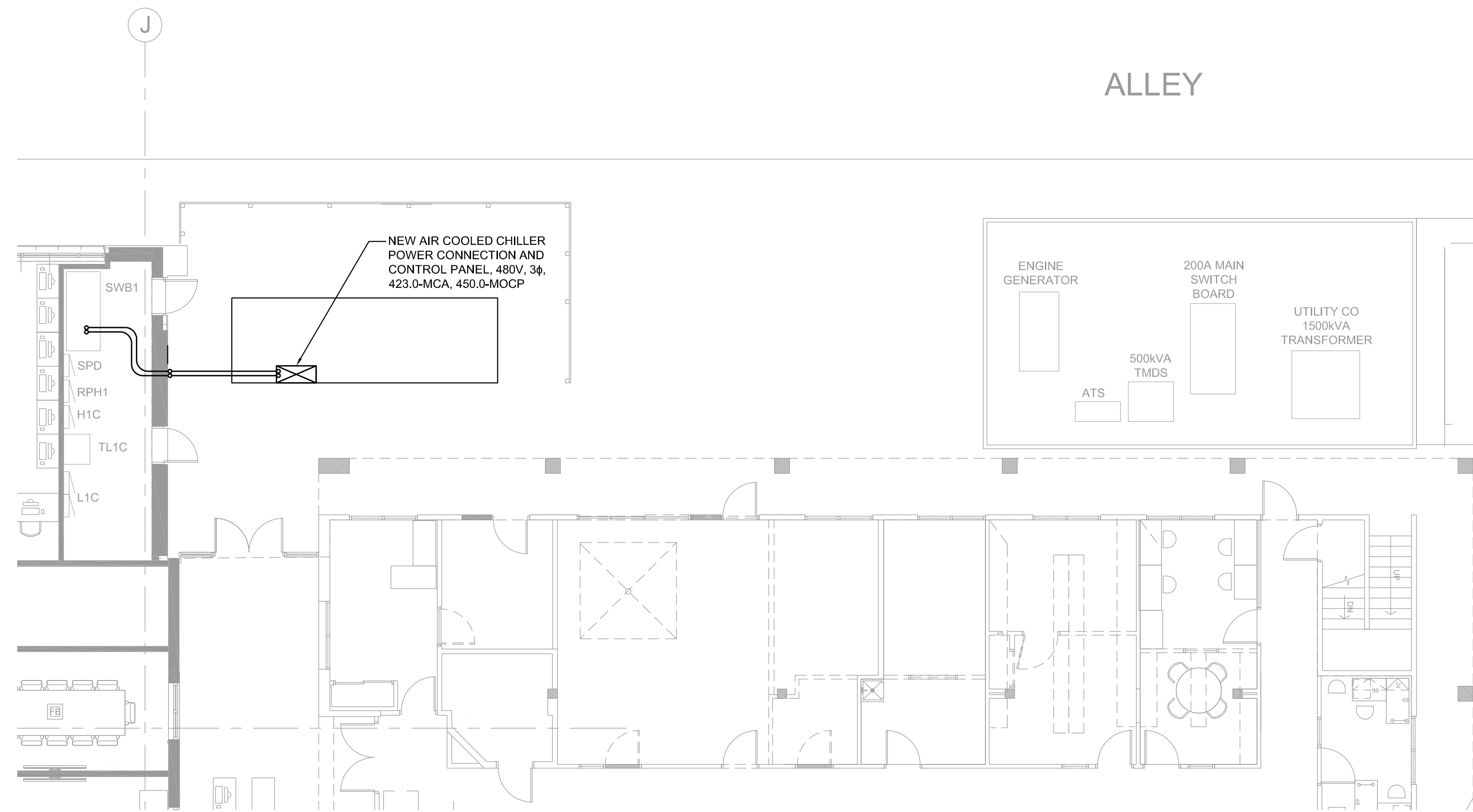
BOULDER COUNTY ST. VRAIN HUB
515 COFFMAN STREET
LONGMONT, CO 80501



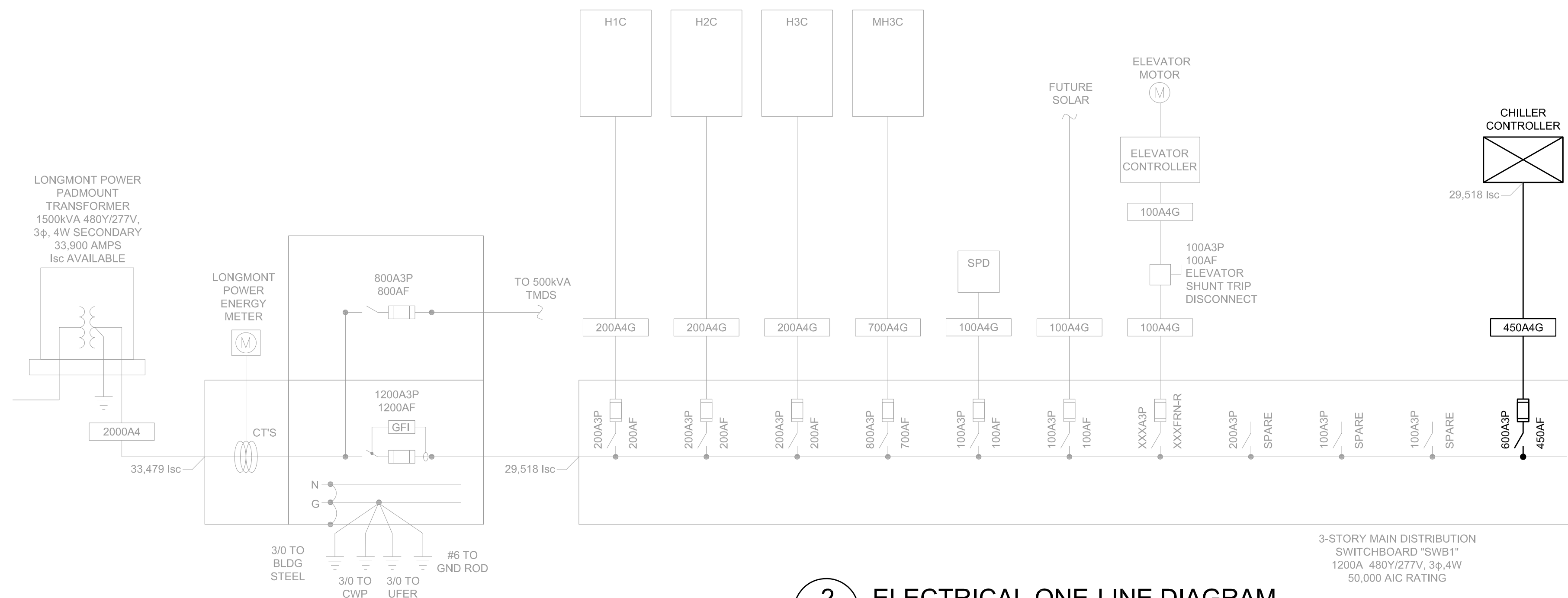
ISSUE	DATE
100% CD	10/22/19

SHEET NUMBER
M1.0
 SHEET:
 MECHANICAL FLOOR
 PLANS





1 ELECTRICAL PLAN
E1 SCALE: 1/8" = 1'-0"



2 ELECTRICAL ONE-LINE DIAGRAM
E1 SCALE: NONE

PEAK DEMAND LOAD CALCULATION
St Vrain Hub Chiller - 515 Coffman St

Existing Peak Demand	288.00 kW
Power Factor	0.92
Peak Demand Load Factor	125%
New Code Demand Load	
Chiller	351.09 kVA
	0.00 kVA
Total New Code Demand	742.39 kVA
@ 480Y/277V	894.45 Amps

FEEDER SCHEDULE
ALL WIRE SHALL BE COPPER UNLESS NOTED OTHERWISE

Feeder Key	# of Runs	Wire Size	Ground	Conduit	Notes
450A.4G	2 Sets	4#4/0	+1#2G	2 1/2" C	

Short Circuit Summary
Point-to-Point * Feeder Summary

Description	Phase	Length	Isc Avail	# Runs	C	V(L-L)	Isc @ Device
Main SWB - SWB1			29518				29518
Chiller Controller	3	40	29518	2	15082	480	25868

POWER, LIGHTING, & TELECOM

- ⊙ J-BOX
- ⊙ MOTOR
- ⊕ CEILING RECEPTACLE
- ⊕ FLOOR RECEPTACLE
- ⊕ DUPLEX RECEPTACLE
- ⊕ FOUR-PLEX RECEPTACLE
- ⊕ BLANK FACE GFCI PROTECTION DEVICE
- ⊕ SPECIAL NEMA RECEPTACLE
- ⊕ HEAVY DUTY DISCONNECT SWITCH
- ⊕ MOTOR STARTER
- ⊕ HEAVY DUTY STARTER-DISCONNECT
- ⊕ VFD MOTOR STARTER
- ⊕ VFD HEAVY DUTY STARTER-DISCONNECT
- ⊕ TRANSFORMER
- ⊕ SURGE SUPPRESSION DEVICE
- ⊕ METER
- ⊕ THERMAL OVERLOAD SW
- ⊕ BRANCH CIRCUIT PANEL
- ▶ TELEPHONE OUTLET
- ▶ TELE-DATA OUTLET
- ▶ DATA OUTLET
- ▶ TELEPHONE OUTLET FLOOR
- ▶ TELE-DATA OUTLET FLOOR
- ▶ TV OUTLET
- ⊕ EMERGENCY BATTERY LIGHT
- ⊕ WALL MOUNTED EXIT SIGN
- ⊕ CEILING MOUNT EXIT SIGN
- ⊕ CLG MNT EX/EM LT COMBO
- ⊕ SURFACE WALL LUMINAIRE
- ⊕ SURFACE CEILING LUMINAIRE
- ⊕ KEYLESS LAMP HOLDER
- ⊕ RECESSED DOWNLIGHT
- ⊕ RECESSED WALL WASHER LUMINAIRE STRIP
- ⊕ SURFACE OR WALL LUMINAIRE
- ⊕ RECESSED LUMINAIRE
- ⊕ TRACK LIGHTING
- ⊕ PARKING LOT POLE LIGHT
- ⊕ PEDESTRIAN POLE LUMINAIRE
- ⊕ FLOOD LUMINAIRE
- S SWITCH
- S₃ 3-WAY SWITCH
- S₃ OCCUPANCY SENSOR SWITCH
- S₃ OCC. SENSOR DIMMER SWITCH
- S_{3V} LOW VOLTAGE SWITCH
- D DIMMER SWITCH
- ⊕ PHOTOCELL
- ⊕ OCCUPANCY SENSOR
- ⊕ OCC. SEN. POWER PACK
- ⊕ ROOM CONTROLLER
- ⊕ TIME CLOCK
- ⊕ CLOCK-WALL MOUNT
- ⊕ CLOCK/SPEAKER IN COMBINATION BACK-BOX
- ⊕ SPEAKER-WALL MOUNT
- ⊕ SPEAKER HORN-WALL MOUNT
- ⊕ SPEAKER-RECESSED CEILING (HARD CEILING)
- ⊕ SPEAKER-RECESSED CEILING (LAYIN GRID CEILING)
- ⊕ SPEAKER-SURFACE OR PENDANT MOUNT CEILING
- ⊕ CALL STATION
- ⊕ PUSH BUTTON STATION

GENERAL

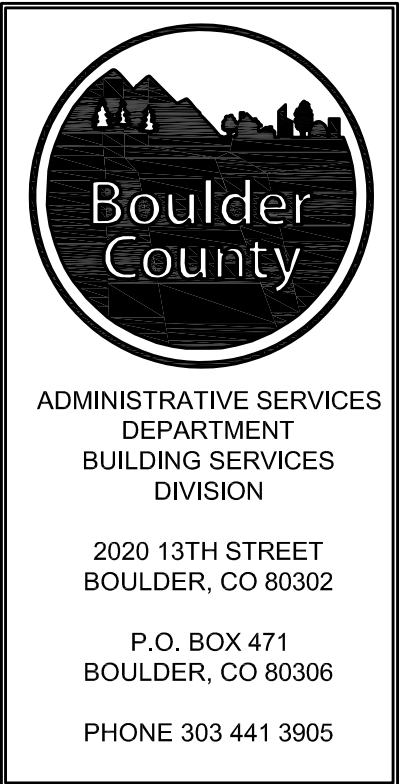
- ⊕ SECTION BUBBLE
- SECTION LETTER
- # REFERENCE DWG NUMBER
- ⊕ REFERENCE BUBBLE
- SECTION NUMBER
- # REFERENCE NUMBER
- # REVISION NUMBER
- # DRAWING NOTE
- ~ BREAKLINE
- MATCHLINE
- WIREMOLD
- OPE --- OVERHEAD PRIMARY ELECTRIC
- OSE --- OVERHEAD SECONDARY ELECTRIC
- UPE --- UNDERGROUND PRIMARY ELECTRIC
- USE --- UNDERGROUND SECONDARY ELECTRIC
- UBE --- UNDERGROUND BRANCH ELECTRIC
- OBE --- OVERHEAD BRANCH ELECTRIC
- UC --- UNDERGROUND COMMUNICATION
- ⊕ BOLD LINEWEIGHT AND/OR "N" INDICATES NEW DEVICE OR EQUIPMENT
- ⊕ BOLD LINEWEIGHT AND/OR "R" INDICATES DEVICE OR EQUIPMENT TO BE REPLACED
- ⊕ LIGHT LINEWEIGHT AND/OR "E" INDICATES EXISTING DEVICE TO REMAIN
- ⊕ DASHED LINETYPE AND/OR "D" INDICATES DEVICE TO BE REMOVED / DEMOLISHED

ELECTRONIC SAFETY & SECURITY

- ⊕ MAGNETIC DOOR HOLD
- ⊕ SMOKE DETECTOR
- ⊕ THERMAL DETECTOR
- ⊕ DUCT SMOKE DETECTOR
- ⊕ MANUAL PULL STATION
- ⊕ COMBO SPEAKER/STROBE
- ⊕ CEILING ALARM STROBE LIGHT
- ⊕ WALL ALARM STROBE LIGHT
- ⊕ ALARM SPEAKER OR HORN
- ⊕ REMOTE INDICATOR LIGHT
- ⊕ FLOW SWITCH
- ⊕ TAMPER SWITCH
- ⊕ CONTROL MODULE
- ⊕ MONITOR MODULE
- ⊕ BEAM DETECTION TRANSMITTER
- ⊕ BEAM DETECTION RECEIVER
- ⊕ CARBON MONOXIDE DETECTOR
- ⊕ REMOTE TEST SWITCH
- ⊕ AIPHONE MONITOR STATION
- ⊕ AIPHONE INTERCOM STATION
- ⊕ ELECTRIC DOOR HARDWARE
- ⊕ GLASS BREAK DETECTOR
- ⊕ CAMERA
- ⊕ MOTION SENSOR
- ⊕ CARD READER
- ⊕ DOOR POSITION SWITCH
- ⊕ DOOR STRIKE
- ⊕ SECURITY CONTROL KEYPAD

DEFINITIONS

- AC INDICATES ABOVE COUNTER, COORDINATE EXACT HEIGHT
- BC INDICATES BELOW COUNTER, COORDINATE EXACT HEIGHT
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- GFI INDICATES GROUND FAULT CIRCUIT INTERRUPT DEVICE
- D INDICATES EXISTING DEVICE TO BE REMOVED
- E INDICATES EXISTING DEVICE TO REMAIN AS IS
- R INDICATES EXISTING DEVICE TO BE REPLACED
- RL INDICATES EXISTING DEVICE TO BE RELOCATED TO POSITION SHOWN
- SPD INDICATES SURGE SUPPRESSION DEVICE
- USB INDICATES UNIVERSAL SERIAL BUS DEVICE
- VFD INDICATES VARIABLE FREQUENCY MOTOR DRIVE
- WP INDICATES WEATHERPROOF EQUIPMENT/DEVICE
- EMT ELECTRICAL METALLIC CONDUIT
- FMC FLEXIBLE METALLIC CONDUIT
- LFC LIQUIDTIGHT FLEXIBLE CONDUIT
- PVC POLYVINYL CHLORIDE CONDUIT
- RNC RIGID NONMETALLIC CONDUIT
- RSC RIGID STEEL CONDUIT
- CT CURRENT TRANSFORMER
- HVAC HEATING, VENTILATION AIR CONDITIONING
- LED LIGHT EMITTING DIODE
- AIC AMPS INTERRUPTING CAPACITY
- Isc SHORT CIRCUIT CURRENT
- FLA FULL LOAD AMPS
- MCA MINIMUM CIRCUIT AMPS
- MCCB MOLDED-CASE CIRCUIT BREAKER
- MCP MOTOR CIRCUIT PROTECTOR
- MOCPP MAXIMUM OVERCURRENT PROTECTION
- OCPP OVERCURRENT PROTECTIVE DEVICE
- N.C. NORMALLY CLOSED
- N.O. NORMALLY OPEN
- NEC NATIONAL ELECTRICAL CODE NFPA 70
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- UL UNDERWRITERS LABORATORY
- ACS ACCESS CONTROL SYSTEM
- SDS SECURITY DETECTION SYSTEM
- VSS VIDEO SURVEILLANCE SYSTEM
- ANN FIRE ALARM ANNUNCIATOR PANEL
- DACT DIGITAL ALARM COMMUNICATOR TRANSMITTER
- EOL END-OF-LINE
- FACP FIRE ALARM CONTROL PANEL
- NAC NOTIFICATION APPLIANCE CIRCUIT
- SLC SIGNALING LOOP CIRCUIT
- AV AUDIO/VISUAL
- MDF MAIN DISTRIBUTION FRAME
- IDF INTERMEDIATE DISTRIBUTION FRAME
- LAN LOCAL AREA NETWORK
- WAN WIDE AREA NETWORK
- TBB TELECOMMUNICATIONS BONDING BACKBONE
- TGB TELECOMMUNICATIONS GROUND BUS BAR
- UPS UNINTERRUPTIBLE POWER SUPPLY



BOULDER COUNTY
ST VRAIN HUB BUILDING CHILLER
515 COFFMAN ST, LONGMONT, CO 80501

PROJECT
LONGMONT ST VRAIN HUB BUILDING CHILLER

LOCATION
529 Coffman Street
LONGMONT, CO 80501

SHEET
ELECTRICAL DESIGN
LEGEND & DIAGRAMS

FILE NAME

ACC'T. DATE: 03-23-2020
DRAWN BY: AEL
CHECKED BY: DJA

REVISIONS

SHEET
E1
OF

Sample Construction Contract

DETAILS SUMMARY	
Document Type	Choose an item.
OFS Number-Version	
County Contact Information	
Boulder County Legal Entity	Choose an item.
Department	
Division/Program	
Mailing Address	
Contract Contact – <i>Name, email</i>	
Invoice Contact – <i>Name, email</i>	
Contractor Contact Information	
Contractor Name	
Contractor Mailing Address	
Contact 1- <i>Name, title, email</i>	
Contact 2- <i>Name, title, email</i>	
Contract Term	
Start Date	
Expiration Date	
Final End Date	
Contract Amount	
Contract Amount	
Fixed Price or Not-to-Exceed?	Choose an item.
Brief Description of Work	
Contract Documents	
a. Formal Procurement (RFP/Bid/SOQ) No. Bid Variable (the "Bid Documents")	

b. Contractor's proposal in response to the Bid Documents (the "Proposal")	
c. Project Details, including project-specific terms and a Scope of Work, attached as Exhibit A (the "Scope of Work")	
d. Fee Schedule, attached as Exhibit B (the "Fee Schedule")	
Purchasing Details – County Internal Use Only	
Grant Funded?	Yes or No
Bid Number	
Award Date	
If no Bid No., bid process used	Choose an item.
COVID-19	YES or NO
Project #	
Purchasing Notes (optional)	
Contract Notes	
<i>Additional information not included above</i>	

THIS CONTRACT ("Contract") is entered into by and between the Board of County Commissioners on behalf of the County of Boulder, State of Colorado, a body corporate and politic, for the benefit of the [Department] ("County") and [Supplier] ("Contractor"). County and Contractor are each a "Party," and collectively the "Parties."

In consideration of the mutual covenants contained in this Contract, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

1. Incorporation into Contract: The **Details Summary** is incorporated into this Contract. The **Contract Documents** are incorporated into this Contract by reference, except to the extent that the Proposal, if any is incorporated, contains any obligations placed upon County and not otherwise contained in this Contract.

2. Work to be Performed: Contractor will provide all labor and equipment and do all tasks necessary and incidental to performing the work as described in the **Details Summary** and **Contract Documents** (the "Work"). Contractor will perform the Work (i) in a good and workmanlike manner, (ii) at its own cost and expense, (iii) in accordance with recognized industry standards of care, skill and diligence for the type of work being performed, and (iv) in strict accordance with the Contract. County and its representatives shall have access to the Work at all times.

a. Contractor shall supervise and direct the Work and shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract.

b. Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, transportation, and other facilities and services necessary for the proper execution and completion of the Work. Contractor warrants that all materials incorporated into the Work will be new unless otherwise specified.

c. Contractor shall at all times enforce good order among its employees and shall not employ on the Work any unfit person or anyone not skilled in the task assigned to such person. Contractor shall initiate, maintain, and supervise all safety precautions and programs in connection with the Work to ensure safe conditions on the premises at all times. Contractor shall comply with all laws, regulations, ordinances, rules, and orders of any public authority bearing on the safety of persons and property. In the event that County notifies Contractor of any unsafe conditions or practices, Contractor shall immediately take all actions required to remediate them at no expense to County. County reserves the right to immediately suspend the Work in the event of imminent hazard, as determined by County.

d. At all times, Contractor shall keep the premises free from accumulation of waste materials or rubbish caused by Contractor's operations. Upon completion of the Work, Contractor shall remove all of its waste materials and rubbish from the premises, as well as its tools, construction equipment, machinery and surplus materials.

e. Contractor shall confine operations on the premises to areas permitted by law, ordinances, permits, this Contract, and as directed by County, including storage of any materials or equipment.

f. Any claim for an increase in the **Contract Amount** shall be made and generally described by Contractor in writing and delivered to County promptly, in no event later than thirty (30) days after the occurrence of the event giving rise to the claim. Notice of the amount of the claim with supporting data shall be delivered to County within sixty (60) days after such occurrence and shall be accompanied by Contractor's written statement that the amount claimed covers all known amounts to which Contractor is entitled as a result of the occurrence of said event. All claims for increase in the **Contract Amount** shall be determined by County if the Parties are unable to otherwise reach agreement on the claim.

g. Before ordering any materials or doing any Work, Contractor shall verify all measurements for the Work and shall be responsible for the correctness of same.

3. Term of Contract: The **Contract Term** begins on the **Start Date** and expires on the **Expiration Date**, unless terminated sooner. All the Work must be performed during the **Contract Term**.

4. Payment for Work Performed: In consideration of the Work performed by Contractor, and subject to conditions contained in this Contract, County will pay an amount not to exceed the **Contract Amount** to Contractor in accordance with the **Contract Documents**.

5. Invoicing: Contractor will promptly provide a copy of its Form W-9 and invoice template to County upon request. Contractor must submit an invoice to the County by the fifteenth (15th) day of the month for completion of any Work performed in the prior calendar month. All invoices submitted require the following components: Contractor's name and address (submitted W-9 address must match remit address), detailed description of services, dates of services, itemization of labor and materials costs, "Bill to: Boulder County" language, payment remittance address, payer, name and address, date of invoice, unique invoice number, and total amount due. Contractor must send all completed invoices to the **Invoice Contact** in the **Details Summary**. County may require delivery of invoices by email. Failure to submit invoices in a timely manner and in accordance with the terms of this Contract may cause a delay in payment. County may recoup any damages incurred because

of Contractor's failure to submit invoices pursuant to the terms of this paragraph. County's acceptance or payment of an invoice will not constitute acceptance of any Work performed under this Contract.

6. Extra Time to Complete the Work (Additional Time only): If Contractor cannot complete the Work by the **Expiration Date**, Contractor may request extra time to complete the Work. County, in its sole discretion, may grant Contractor additional time to complete the Work by sending a written notice of extension to Contractor. An extension of time to complete the Work will not entitle Contractor to additional compensation from County.

7. Extension of Contract Term (Additional Time and Work): Upon mutual agreement of the Parties, this Contract may be extended until the **Final End Date**. During any extended **Contract Term**, the terms of this Contract will remain in full force and effect, unless otherwise amended in writing by the Parties. Where the Contractor will provide additional services for additional compensation beyond the initial **Contract Amount**, the Parties must execute a written amendment before the then-current **Expiration Date**. If necessary, the written amendment will incorporate an updated Scope of Work and updated Fee Schedule as exhibits. Contractor must provide a current Certificate of Insurance to the County that complies with the **Insurance Requirements** of this Contract, if any, prior to any extended **Contract Term**.

8. Schedule of Work: County may designate the hours (on a daily or weekly basis) during which Contractor may perform the Work, strictly for the purposes of minimizing inconvenience to the County and interference with County operations. Contractor will otherwise set its own work schedule. Contractor shall promptly notify County of any aspect of the Work that will not be delivered or accomplished according to the initial schedule.

9. Indemnity: Contractor will be liable for any damages to persons or property caused by or arising out of the actions, obligations, or omissions of Contractor, its employees, agents, representatives or other persons acting under Contractor's direction or control in performing or failing to perform the Work under this Contract. Contractor will indemnify and hold harmless County, its elected officials and appointed department heads, and its employees, agents and representatives (the "indemnified parties"), from any and all liability, claims, demands, actions, damages, losses, judgments, costs or expenses, including attorneys' fees, which may be made or brought or which may result against any of the indemnified parties as a result or on account of the actions or omissions of Contractor, its employees, agents or representatives, or other persons acting under Contractor's direction or control. This indemnification obligation will extend to claims based on Contractor's unauthorized use or disclosure of confidential information and intellectual property infringement. County will not be obligated to indemnify or defend Contractor under any circumstances. Contractor's obligations under this provision shall survive expiration or termination of this Contract. Nothing contained in this Contract or the **Contract Documents** is intended to limit or restrict the indemnification rights or obligations of any Party under this provision, or damages available for breaches of the obligations herein.

10. Nondiscrimination: Contractor will comply with the Colorado Anti-Discrimination Act, C.R.S. § 24-34-401, et seq., as amended, and all applicable local, State and Federal laws concerning discrimination and unfair employment practices. County prohibits unlawful discrimination on the basis of race, color, religion, gender, gender identity, national origin, age 40 and over, disability, socio-economic status, sexual orientation, genetic information, or any other status protected by applicable Federal, State or local law. Contractor must require that its subcontractors, if any, similarly comply with all applicable laws concerning discrimination and unfair employment practices.

11. Information and Reports: Contractor will provide to authorized County, State, and Federal government representatives all information and reports that may be required for any purpose authorized by law. Contractor will permit access to such representatives to Contractor's facilities, books, records, accounts, and any other relevant sources of information. Where information

required by a representative is in the exclusive possession of a person or entity other than Contractor, Contractor must so certify to the County and explain what efforts it has made to obtain the information.

12. Independent Contractor: Contractor is an independent contractor for all purposes in performing the Work. None of Contractor, its agents, personnel or subcontractors are employees of the County for any purpose, including the Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the provisions of the Internal Revenue Code, the Colorado Workers' Compensation Act, the Colorado Unemployment Insurance Act, and the Public Employees Retirement Association. Accordingly, County will not withhold or pay any income tax, payroll tax, or retirement contribution of any kind on behalf of Contractor or Contractor's employees. As an independent contractor, Contractor is responsible for employing and directing such personnel and agents as it requires to perform the Work. Contractor will exercise complete authority over its personnel and agents and will be fully responsible for their actions.

13. Termination

a. Breach: Either Party's failure to perform any of its material obligations under this Contract, in whole or in part or in a timely or satisfactory manner, will be a breach. The institution of proceedings under any bankruptcy, insolvency, reorganization or similar law, by or against Contractor, or the appointment of a receiver or similar officer for Contractor or any of its property, which is not vacated or fully stayed within thirty (30) days after the institution of such proceeding, will also constitute a breach. In the event of a breach, the non-breaching Party may provide written notice of the breach to the other Party. If the breaching Party does not cure the breach, at its sole expense, as reasonably determined by the non-breaching Party in its sole discretion, within thirty (30) days after delivery of notice, the non-breaching Party may exercise any of its remedies provided under this Contract or at law, including immediate termination of this Contract.

b. Non-Appropriation: The other provisions of this Contract notwithstanding, County is prohibited by law from making commitments beyond the current fiscal year. Payment to Contractor beyond the current fiscal year is contingent on the appropriation and continuing availability of funding in any subsequent year. County has reason to believe that sufficient funds will be available for the full **Contract Term**. Where, however, funds are not allocated for any fiscal period beyond the current fiscal year, County may terminate this Contract without penalty by providing seven (7) days' written notice to Contractor.

c. Convenience: In addition to any other right to terminate under this Section 13, County may terminate this Contract, in whole or in part, for any or no reason, upon seven (7) days' advance written notice to Contractor.

14. Contractor Obligations upon Termination or Expiration: By the **Expiration Date** or effective date of termination, if earlier, Contractor must (1) remove from County property all of its personnel, equipment, supplies, trash and any hazards created by Contractor, (2) protect any serviceable materials belonging to the County, and (3) take any other action necessary to leave a safe and healthful worksite. Any items remaining on County property after the Expiration Date or the effective date of termination, if earlier, will be deemed abandoned by Contractor.

15. Payable Costs in Event of Early Termination: If County terminates this Contract before the **Expiration Date**, Contractor's payments (and any damages associated with any lawsuit brought by Contractor) are limited to only (1) payment for Work satisfactorily executed and fully and finally completed, as determined by County in its sole discretion, prior to delivery of the notice to terminate, and (2) the reasonable and actual costs Contractor incurred in connection with performing the Work prior to delivery of the notice to terminate. Contractor explicitly waives all claims it may have against

the County for any other compensation, such as anticipatory profits or any other consequential, special, incidental, punitive or indirect damages.

16. Remedies for Non-Performance: If Contractor fails to perform any of its obligations under this Contract, County may, at its sole discretion, exercise one or more of the following remedies (in addition to any other remedies provided by law or in this Contract), which shall survive expiration or termination of this Contract:

a. Suspend Performance: County may require that Contractor suspend performance of all or any portion of the Work pending necessary corrective action specified by the County and without entitling Contractor to an increase in compensation or extension of the performance schedule. Contractor must promptly stop performance and incurring costs upon delivery of a notice of suspension by the County.

b. Withhold Payment Pending Corrections: County may permit Contractor to correct any rejected Work at the County 's discretion. Upon County 's request, Contractor must correct rejected work at Contractor's sole expense within the time frame established by the County. Upon full and final completion of the corrections satisfactory to the County, County will remit payment to Contractor.

c. Deny Payment: County may deny payment for any Work that does not comply with the requirements of the Contract or that Contractor otherwise fails to provide or fully and finally complete, as determined by the County in its sole discretion. Upon County request, Contractor will promptly refund any amounts prepaid by the County with respect to such non-compliant Work.

d. Removal: Upon County 's request, Contractor will remove any of its employees or agents from performance of the Work, if County, in its sole discretion, deems any such person to be incompetent, careless, unsuitable, or otherwise unacceptable.

17. Binding Arbitration Prohibited: County does not agree to binding arbitration by any extra-judicial body or person.

18. Conflicts of Interest: Contractor may not engage in any business or personal activities or practices or maintain any relationships that conflict in any way with the full performance of Contractor's obligations.

19. Notices: All notices provided under this Contract must be in writing and sent by Certified U.S. Mail (Return Receipt Requested), electronic mail, or hand-delivery to the other Party's **Contact** at the address specified in the **Details Summary**. For certified mailings, notice periods will begin to run on the day after the postmarked date of mailing. For electronic mail or hand-delivery, notice periods will begin to run on the date of delivery.

20. Statutory Requirements: This Contract is subject to all statutory requirements that are or may become applicable to counties or political subdivisions of the State of Colorado generally, including but not limited to: C.R.S. § 38-26-107, which requires withholding funds where the County receives a claim for payment from a supplier or subcontractor of Contractor upon notice of final settlement (required for public works contracts that exceed \$150,000); C.R.S. § 8-17-101 et seq.; C.R.S. § 18-8-301, et seq.; and C.R.S. § 18-8-401, et seq.

21. Public Contracts for Services (C.R.S. §§ 8-17.5-101, et seq.): Contractor hereby certifies, warrants, and agrees that it does not knowingly employ or contract with an illegal alien who will perform work under this Contract and further certifies that it will confirm the employment eligibility of all employees who are newly hired for employment to perform work under this Contract by participating in the E-Verify Program established under Pub. L. 104-28 or the department verification program established under C.R.S. § 8-17.5-102(5)(c). Contractor (i) shall not knowingly employ or

contract with an illegal alien to perform work under this Contract; (ii) shall not enter into a contract with a subcontractor that fails to certify to the contractor that the subcontractor shall not knowingly employ or contract with an illegal alien to perform work under this Contract; (iii) has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this Contract through participation in the E-Verify program or department program; (iv) is prohibited from using either the E-Verify program or department program procedures to undertake preemployment screening of job applicants while this Contract is being performed; and (v) shall comply with any reasonable request by the department made in the course of an investigation that the Colorado Department of Labor and Employment is undertaking pursuant to the authority established in C.R.S. § 8-17.5-102(5). If Contractor obtains actual knowledge that a subcontractor performing work under this Contract knowingly employs or contracts with an illegal alien, Contractor shall (a) notify the subcontractor and County within three (3) days that Contractor has actual knowledge that subcontractor is employing or contracting with an illegal alien; and (b) terminate the subcontract if, within three (3) days of receiving notice hereunder, subcontractor does not stop employing or contracting with the illegal alien; except that Contractor shall not terminate the contract with the subcontractor if during such three (3) days the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with an illegal alien. Contractor's violation of this provision will constitute a material breach of this Contract, entitling the County to terminate the contract for breach. If this Contract is so terminated, Contractor shall be liable for actual and consequential damages to the County.

22. Entire Agreement/Binding Effect/Amendments: This Contract represents the complete agreement between the Parties and is fully binding upon them and their successors, heirs, and assigns, if any. This Contract terminates any prior agreements, whether written or oral in whole or in part, between the Parties relating to the Work. This Contract may be amended only by a written agreement signed by both Parties.

23. Assignment/Subcontractors: This Contract may not be assigned or subcontracted by Contractor without the prior written consent of the County. If Contractor subcontracts any of its obligations under this Contract, Contractor will remain liable to the County for those obligations and will also be responsible for subcontractor's performance under, and compliance with, this Contract. Contractor shall not contract with a person or entity to whom County has made a reasonable objection.

24. Governing Law/Venue: The laws of the State of Colorado govern the construction, interpretation, performance, and enforcement of this Contract. Any claim relating to this Contract or breach thereof may only be brought exclusively in the Courts of the 20th Judicial District of the State of Colorado and the applicable Colorado Appellate Courts.

25. Breach: The failure of either Party to exercise any of its rights under this Contract will not be deemed to be a waiver of such rights or a waiver of any breach of the Contract. All remedies available to a Party in this Contract are cumulative and in addition to every other remedy provided by law.

26. Severability: If any provision of this Contract becomes inoperable for any reason but the fundamental terms and conditions continue to be legal and enforceable, then the remainder of the Contract will continue to be operative and binding on the Parties.

27. Third-Party Beneficiary: Enforcement of the terms and conditions and all rights and obligations of this Contract are reserved to the Parties. Any other person receiving services or benefits under this Contract is an incidental beneficiary only and has no rights under this Contract. Notwithstanding, where the beneficiary **Department** is led by an Elected Official, such Elected Official shall be considered a third-party beneficiary.

28. Colorado Open Records Act: County may disclose any records that are subject to public release under the Colorado Open Records Act, C.R.S. § 24-72-200.1, et seq.
29. Conflict of Provisions: If there is any conflict between the terms of the main body of this Contract and the terms of any of the **Contract Documents**, the terms of the main body of the Contract will control.
30. Governmental Immunity: Nothing in this Contract shall be construed in any way to be a waiver of the County's immunity protection under the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, et seq., as amended.
31. Representations and Warranties: Contractor represents and warrants the following:
- a. Execution of this Contract and performance thereof is within Contractor's duly authorized powers;
 - b. The individual executing this Contract is authorized to do so by Contractor;
 - c. Contractor is authorized to do business in the State of Colorado and is properly licensed by all necessary governmental and public and quasi-public authorities having jurisdiction over the Work and the Contractor; and
 - d. Contractor and its subcontractors, if any, are financially solvent, able to pay all debts as they mature, and have sufficient working capital to complete the Work and perform all obligations under the Contract.
32. Legal Compliance: Contractor assumes full responsibility for obtaining and maintaining any permits and licenses required to perform the Work. Contractor is solely responsible for insuring that its performance under this Contract and the Work itself will comply with all Federal, State, and local laws, regulations, ordinances and codes. Contractor shall promptly notify County if any drawings or specifications are at variance with any laws, regulations, ordinances, or codes. If Contractor performs any Work contrary to such laws, regulations, ordinances, or codes, Contractor shall bear all costs arising therefrom. County approval of the Work or any aspect of Contractor's performance, such as drawings, specifications, plans, designs, or other Contractor-drafted documents, shall not be interpreted to mean that Contractor has satisfied its obligations under this Section.
33. Litigation Reporting: Contractor is not currently involved in any action before a court or other administrative decision-making body that could affect Contractor's ability to perform the Work. Contractor will promptly notify the County if Contractor is served with a pleading or other document in connection with any such action.
34. Tax Exemption: County is exempt from payment of Federal, State, and local government taxes. Contractor shall collect no tax from the County, and the County shall not be liable to pay any taxes imposed on Contractor. County shall provide its tax exemption status information to Contractor upon request.
35. Delegation of Authority: The Parties acknowledge that the Board of County Commissioners has delegated authority to the Department Head or Elected Official that leads the beneficiary **Department** and their designees to act on behalf of the County under the terms of this Contract, including but not limited to the authority to terminate this Contract.
36. Ownership of Work Product: All work product, property, data, documentation, information or materials conceived, discovered, developed or created by Contractor pursuant to this Contract ("Work Product") will be owned exclusively by the County. To the extent possible, any Work Product will be deemed to be a work made for hire. Contractor unconditionally and irrevocably transfers and assigns to the County all right, title and interest in and to any Work Product.

37. Publicity Releases: Contractor will not refer to this Contract or the County in commercial advertising without prior written consent of the County. This provision shall survive expiration or termination of this Contract.
38. Execution by Counterparts; Electronic Signatures: This Contract may be executed in multiple counterparts, each of which will be deemed an original, but all of which will constitute one agreement. The Parties approve the use of electronic signatures, governed by the Uniform Electronic Transactions Act, C.R.S. §§ 24 71.3 101 to 121. The Parties will not deny the legal effect or enforceability of this Contract solely because it is in electronic form or because an electronic record was used in its creation. The Parties will not object to the admissibility of this Contract in the form of electronic record, or paper copy of an electronic document, or paper copy of a document bearing an electronic signature, because it is not in its original form or is not an original.
39. Limitation on Public Statements and Lobbying Activity. During the term of this Contract, Contractor may receive from the County its confidential data, work product, or other privileged or confidential information that is protected by law. To maintain the fact and appearance of absolute objectivity, Contractor shall not, without the prior written consent of the County, which shall not be unreasonably withheld, do any of the following: (a) disclose information obtained because of this contractual relationship to any third party; (b) lobby any State or Federal agency on any pending matter while this Contract is effective; or (c) make any public statements or appear at any time to give testimony at any public meeting on the subject matters regarding which Contractor is or was retained by the County. County may set reasonable conditions on any disclosure authorized by the County under this provision. Notwithstanding, Contractor may make disclosures as required by law, and to law enforcement officials in connection with any criminal justice investigation.
40. Sustainability: All construction, deconstruction, remodel, and office move projects are required to follow construction waste procedure modeled off of Boulder County BuildSmart Code, International Green Construction Code (IGCC), International Energy Conservation Code (IECC), and Leadership in Energy and Environmental Design (LEED) certification, as an effort to achieve maximum jobsite waste diversion, energy efficiency, and water conservation. All 'demolition projects' are to follow deconstruction procedures. Instead of demolition project materials being crushed and primarily sent to the landfill, these projects should be systematically dismantled, typically in the opposite order they were constructed, in order to maximize the salvage of materials. Any hazardous materials encountered should follow state and federal standards, and contractor shall leverage the Boulder County Hazardous Materials Management facility for hazardous materials. The development of a project diversion plan is encouraged to include material types and volume/weight estimations as well as planned destinations. Projects must track all jobsite waste.
41. Limitation of Liability: COUNTY SHALL NOT BE LIABLE TO CONTRACTOR FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, PUNITIVE, OR INDIRECT DAMAGES ARISING FROM OR RELATING TO THIS CONTRACT, REGARDLESS OF ANY NOTICE OF THE POSSIBILITY OF SUCH DAMAGES. COUNTY'S AGGREGATE LIABILITY, IF ANY, ARISING FROM OR RELATED TO THIS CONTRACT, WHETHER IN CONTRACT, OR IN TORT, OR OTHERWISE, IS LIMITED TO, AND SHALL NOT EXCEED, THE AMOUNTS PAID OR PAYABLE HEREUNDER BY COUNTY TO CONTRACTOR. ANY CONTRACTUAL LANGUAGE LIMITING CONTRACTOR'S LIABILITY SHALL BE VOID.
42. County Opportunity to Review: Contractor shall provide County with the opportunity to review and approve or take other appropriate action upon the Contractor's submittals, such as Shop Drawings, Product Data, and Samples, but only for conformance with the design concept of the Work and with the information given in the Contract Documents.
43. Notice to Proceed: The Parties agree that time is of the essence and work will begin after a "Notice to Proceed" has been issued by the County and in accordance with the terms therein.

44. Retainage: County may retain partial payment pending completion and County acceptance of the Work as satisfactory and fully and finally complete. For contracts that exceed \$150,000, the retention rate shall not exceed five percent (5%). C.R.S. § 24-91-103. Contractor is responsible for submitting a final invoice for any retainage held by County. If It becomes necessary for County to take over completion of the Work, all of the amounts owing to Contractor, including the withheld percentage, shall be applied: First, towards completion of the Work; second, towards performance of the withholding requirement set forth in C.R.S. § 38-26-107; third, to the surety furnishing bonds for the Work, to the extent such surety has incurred liability or expense in competing the Work or made payments pursuant to C.R.S. § 38-26-106; then, to Contractor. Such retained percentage as may be due to Contractor shall be due and payable as provided by C.R.S. § 38-26-107.

45. Bonds: Upon County's request, Contractor shall obtain and deliver to County payment and performance bonds each equal to 100% of the total Contract. Bonds shall be executed by a qualified corporate surety and must be acceptable to County. County reserves the right to accept other acceptable forms of surety in lieu of a bond, and to reduce the bond requirements set forth herein consistent with C.R.S. § 38-26-106.

46. Change Orders: If unforeseen modifications or changes are required, Contractor may submit a Change Order request to County, which must include a complete description, timeline, and fee schedule for the proposed work. Change Orders are not effective until approved by County in writing.

47. No Suspension or Debarment: Contractor certifies, and warrants for the duration of this Contract, that neither it nor its principals nor any of its subcontractors are debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this Contract by any Federal or State department or agency. Contractor shall comply, and shall require its subcontractors to comply, with subpart C of 2 C.F.R. § 180.

48. Permits/Licenses/Code Compliance: Prior to starting the Work, Contractor will identify and obtain, and maintain during this Contract, all permits and licenses necessary to perform the Work. Contractor shall comply with all State and local codes. Contractor is responsible for locating all public utilities, as necessary. Contractor shall require its subcontractors to comply with this provision. HVAC, roofing, and general contractors must be licensed through Boulder County Land Use. Electricians and plumbers must be licensed through the State and registered with Boulder County Land Use Building Safety and Inspection Division. Architects, Professional Engineers and Professional Land Surveyors must be fully-licensed through the State. All required permits and licenses must be provided to County prior to Contractor beginning the Work.

49. Stormwater Quality Protection Requirements: Contractor will take all measures necessary to prevent pollutants from entering storm drains and watercourses. To eliminate stormwater pollution, Contractor shall implement effective Best Management Practices (BMPs). BMPs include general good housekeeping practices, appropriate scheduling of activities, operational practices, maintenance procedures and other measures to prevent the discharge of pollutants directly or indirectly to the storm drain system. These BMPs shall be maintained for the duration of this Contract. Contractor shall also be responsible for proper disposal of all waste materials, including wastes generated by the implementation of BMPs. Contractor shall otherwise comply with the Federal Clean Water Act, Colorado Water Quality Control Act, and Boulder County's local Clean Water Act, Illegal Discharge Ordinance (No. 2012-4). For work performed in urbanized areas, Contractor must comply with the requirements of MS4 permit (COR090000), which is available through the Colorado Department of Public Health and Environment.

50. Guaranties and Warranties: Upon completion of the Work, Contractor will provide County with a written guaranty covering all labor, materials and workmanship incorporated into the Work for one (1) year, or within any such longer period of time as may be prescribed by law, the specifications, or any other applicable special warranty required by the **Contract Documents**. Final payment upon full and final completion of the Work will not relieve Contractor of responsibility for faulty material or workmanship, which County may require Contractor to fix at Contractor's sole expense, in addition to County's other remedies. This provision shall apply to Work completed by Contractor's employees and subcontractors.

51. Final Payment: A final inspection of the Work shall be conducted by County. If a list of deficiencies results from such final inspection, Contractor shall promptly rectify all items appearing thereon before final payment will be made. When County indicates acceptance of the Work, Contractor may request final payment from County, including any retained amounts. Final payment shall be subject to C.R.S. § 38-26-107.

52. Notice of Final Settlement: Prior to remitting final payment to Contractor, County shall publish a Notice of Final Settlement in accordance with C.R.S. § 38-26-107. Final payment will be rendered in accordance with the statute and the other terms of this Contract. Final payment will not be rendered until County, in its sole discretion, determines full and final completion of the Work.

53. Geographic Information System (GIS) Data: Contractors agree that the following, specified data formats, shall be used and/or adhered to when submitting required data to the County:

a. All GIS data must be ArcGIS 10.x compatible. Shapefiles may be accepted with written, pre-approval, from the County.

b. All GIS data must have complete metadata, following Boulder County GIS Metadata Standards located at: <https://assets.bouldercounty.org/wpcontent/uploads/2018/03/metadata-standards-contractors.pdf>

c. All Computer Aided Design (CAD) files must have an assigned real world coordinate system to ensure compatible conversion into the County's GIS system, if necessary.

d. All spatial or georeferenced data will be provided to the county in the following coordinate system:

i. Name:
NAD 1983 HARN State Plane Colorado
North FIPS 0501 Feet

ii. Unit:
Foot US

iii. Projection:
Lambert Conformal Conic

iv. Horizontal Datum:
North American Datum 1983 HARN

v. Vertical Datum:
North American Vertical Datum 1988

vi. Spheroid:
GRS 1980

e. Contractors are responsible for capturing section corners or quarter corners for specific projects to be added into the Public Land Survey System (PLSS) project for updating the section corners, Contractors shall provide high-accuracy PLSS monument coordinates for each corner section or quarter corner section monument used as control points or that occur within the project area (“putting it on the cap”) as is reasonable, depending on the difficulty to access the point. All positions to be collected shall be required to use (at a minimum) the Real-Time Kinematic (RTK) method.

54. State Specifications: The Standard Specifications for Road and Bridge Construction 2017, either in whole or as set forth in the Bid Documents, are expressly incorporated into this Contract by reference.

55. Determination of Unit Prices: County will determine the actual quantities and classifications of Unit Price Work performed by Contractor. The Parties will review the County's preliminary determinations before County renders a written decision thereon (by recommendation of an Application for Payment or otherwise), which shall be final and binding upon Contractor. The value of any Unit Price Work covered by a Change Order or claim for an increase or decrease in the Contract Amount shall be determined by applying the unit prices to the quantities of items.

a. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, the Parties agree that the Contract Amount includes the total cost of Unit Price Work, determined by multiplying the quantity of each item by its unit price. Initial quantity determinations are estimates, which must be adjusted to reflect actual quantities. Contractor shall make a claim in writing to County for any additional amounts owed where actual quantities exceed estimated quantities. Contractor shall provide such written claim within twenty (20) days of providing the items and shall be accompanied by supporting documentation. The written claim shall include a statement that the claimed amount covers all known amounts (direct, indirect and consequential) to which Contractor is owed. County shall only pay Contractor for actual quantities of items provided hereunder.

b. The Parties agree that each unit price adequately covers Contractor's overhead and profit for each item.

56. Records Retention/Access/Audits: Contractor shall maintain all records and documents pertaining to this Contract in accordance with the requirements prescribed by County. Such records shall be maintained for a period of five (5) calendar years after the date of Contractor's final payment from County under this Contract. Contractor agrees that County or their designated representative shall have the right to review and to copy any records and supporting documentation pertaining to the performance of this Contract as necessary and upon request, throughout the term of this Contract, and for five (5) calendar years after the date of the final payment hereunder. Contractor agrees to allow the auditor(s) access to such records during normal business hours and to allow interviews of any employees who might reasonably have information related to such records. County and Contractor acknowledge that protected information is exempt from this requirement without proper client release.

57. Legal Interpretation. Each Party recognizes that this Contract is legally binding and acknowledges that it has had the opportunity to consult with legal counsel of its choice about this Contract. The rule of construction providing that any ambiguities are resolved against the drafting Party will not apply in interpreting the terms of this Contract.

58. Insurance: Prior to commencing the Work, Contractor will provide a Certificate of Insurance to the County demonstrating adequate insurance coverage as required by this paragraph. All policies evidencing coverage required by the Contract will be issued by insurance companies

satisfactory to the County. Contractor will forward Certificates of Insurance directly to the **County Department** and **Contact** listed in the **Details Summary**.

a. Boulder County as Additional Insured: Boulder County shall be named as an additional insured for General Liability, Umbrella/Excess Liability, and Pollution Liability, as designated in this Contract. Additional insured shall be endorsed to the policy.

THE ADDITIONAL INSURED WORDING SHOULD BE AS FOLLOWS: *County of Boulder, State of Colorado, a body corporate and politic, is named as Additional Insured.*

b. Notice of Cancellation: Each insurance policy required by this Contract shall provide the required coverage and shall not be suspended, voided or canceled except after thirty (30) days' prior written notice has been given to the County except when cancellation is for non-payment of premium, then ten (10) days' prior notice may be given. If any insurance company refuses to provide the required notice, Contractor or its insurance broker shall notify the County any cancellation, suspension, or nonrenewal of any insurance policy within seven (7) days of receipt of insurers' notification to that effect.

c. Insurance Obligations of County: County is not required to maintain or procure any insurance coverage beyond the coverage maintained by the County in its standard course of business. Any insurance obligations placed on the County in any of the **Contract Documents** shall be null and void.

d. Deductible: Any and all deductibles contained in any insurance policy shall be assumed by and at the sole risk of Contractor.

e. Primacy of Coverage: Coverage required of Contractor and its subcontractors, if any, shall be primary over any insurance or self-insurance program carried by the County.

f. Subrogation Waiver: All insurance policies in any way related to this Contract secured or maintained by Contractor as required herein shall include clauses stating that each carrier shall waive all rights of recovery, under subrogation or otherwise, against County, its organizations, officers, agents, employees, and volunteers.

g. Requirements. For the entire duration of this Contract including any extended or renewed terms, and longer as may be required by this Contract, Contractor shall procure and maintain at its own expense, and without cost to the County, the following kinds and minimum amounts of insurance to insure the liability risks that Contractor has assumed under this Contract:

i. **Commercial General Liability**

Coverage should be provided on an Occurrence form, ISO CG0001 or equivalent. The policy shall be endorsed to include Additional Insured Owners, Lessees or Contractors endorsements CG 2038 (or equivalent), Designated Construction Project(s) General Aggregate Endorsement CG2503 (or equivalent) and Additional Insured Completed Operations for Owners, Lessees or Contractors CG 2037 (or equivalent). Minimum limits required of \$1,000,000 Each Occurrence, \$2,000,000 General Aggregate and \$2,000,000 Products/Completed Operations Aggregate. The County requires the Products/Completed Operations coverage to be provided 3 years after completion of construction. An endorsement must be included with the certificate.

ii. **Automobile Liability**

Bodily Injury and Property Damage for any owned, hired, and non-owned vehicles used in the performance of the Contract. Minimum limits \$1,000,000 Each Accident.

iii. **Workers' Compensation and Employer's Liability**

Workers' Compensation must be maintained with the statutory limits. Employer's Liability is required for minimum limits of \$100,000 Each Accident/\$500,000 Disease-Policy Limit/\$100,000 Disease-Each Employee.

Delete Instruction: This coverage may not be required if contractor is not mandated under State law to maintain this coverage. A waiver is available on the contracts routing website.

iv. **Umbrella / Excess Insurance**

Umbrella/Excess Liability insurance in the amount \$[X],000,000.00, following form.

Delete Instruction: This insurance is a broad, high-limit policy, which acts more than the underlying primary insurance policy. This coverage is designed to provide additional liability limits beyond the primary insurance limits and is triggered upon the underlying limits becoming exhausted. Umbrella / Excess insurance is most commonly required when an exposure to the County could potentially create liabilities in excess of the basic insurance limits. The most common limits for these policies range from \$2,000,000 to \$5,000,000.

Delete Instruction: THE STATED INSURANCE LIMITS FOR ALL COVERAGES ARE MINIMUM AMOUNTS; DEPENDING ON THE CONTRACT, HIGHER LIMITS MAY BE REQUIRED OR ADVISABLE. CONTACT RISK MANAGEMENT IF YOU HAVE ANY QUESTIONS ABOUT MINIMUM LIMITS. DELETE THIS PARAGRAPH WHEN FINALIZING THE CONTRACT.

[Signature Page to Follow]

IN WITNESS WHEREOF, the Parties have executed and entered into this Contract as of the latter day and year indicated below.

SIGNED for and on behalf of Boulder County	SIGNED for and on behalf of Contractor
Signature:	Signature:
Name:	Name:
Title:	Title:
Date:	Date:
<i>↓↓ For Board-signed documents only ↓↓</i>	
Attest:	<i>Initials</i>
Attestor Name:	
Attestor Title:	