ARCHITECT

STANTEC
410 17th STREET, STE. 1400
DENVER, CO, 80202
CONTACT: KURT BASFORD, kurt.basford@stantec.com
(303) 382-4924

LANDSCAPE ARCHITECT

STANTEC
410 17th STREET, STE. 1400
DENVER, CO, 80202
CONTACT: MATT DUNCAN, matthew.duncan@stantec.com
(303) 575-8469

STRUCTURAL ENGINEER

STANTEC
410 17th STREET, STE. 1400
DENVER, CO, 80202
CONTACT: FRANCIS CATANACH, francis.catanach@stantec.com
(575) 254-6062

CIVIL ENGINEER

AUSTIN CIVIL GROUP
123 NORTH 7th STREET, STE. 300
GRAND JUNCTION, CO, 81501
CONTACT: SCOTT SORENSEN, scotts@austincivilgroup.com
(970) 242-7540

ELECTRICAL ENGINEER

BIGHORN CONSULTING ENGINEERS
386 INDIAN ROAD
GRAND JUNCTION, CO, 81501
CONTACT: DREW BROWN, drew@bighorneng.com
(970) 241-8709

Colorado Mesa University
Bergman Promenade

1100 North Ave
Grand Junction, CO 81501

100% CONSTRUCTION DRAWINGS
05/01/2024

Stantec Project Number: 2270481701
Client Project Number: 1063-24-1

ABBREVIATIONS

AB	ANCHOR BOLT
ACT	ACOUSTICAL TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE NO.
ALUM	ALUMINUM
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPD	APPROVED
APPROX	APPROXIMATELY
ARCH	ARCHITECT
ASSY	ASSEMBLY
AUTO	AUTOMATIC/AUTOMATION
AVG	AVERAGE
AWI	AMERICAN WOODWORKING INSTITUTE
AWT	ACOUSTICAL WALL TREATMENT
B/B	BACK TO BACK
BD	BOARD
BL	BUILDING LINE
BLDG	BUILDING
BLKG	BLOCKING
BLST	BALLAST
BM	BEAM/BENCH MARK
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOFING
C / C	CENTER TO CENTER
CAB	CABINET
CB	CATCH BASIN
CBB	CEMENTITIOUS BACKER BOARD
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CF	CUBIC FOOT / FEET
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFLG	COUNTER FLASHING
CFMF	COLD FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT / CONSTRUCTION JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CLT	CLEAT
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONST	CONSTRUCTION
CONT	CONTINUE / CONTINUATION / CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COP	COPING
CORR	CORRIDOR
CPT	CARPET
CSK	COUNTER SUNK
CT	CERAMIC TILE
CTR	CENTER
CU FT	CUBIC FOOT / CUBIC FEET
CU YD	CUBIC YARDS
CW	COLD WATER
D	DEPTH / DEEP
DBL	DOUBLE
DEG	DEGREE
DEL	DELETE
DEMO	DEMOLITION
DET	DETAIL
DETN	DETENTION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DMPF	DAMPPROOFING
DN	DOWN
DOCS	DOCUMENTS
DR	DOOR / DRAIN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	REFERENCE ELEVATION
EL	EASEMENT LINE
ELEC	ELECTRIC / ELECTRICAL
ELEV	ELEVATOR / ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER / ENGINEERING
EOS	EDGE OF SLAB
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EST	ESTIMATE
ETC	ET CETERA
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED / EXPAND / EXPANSION
EXT	EXTERIOR / EXTERNAL / EXTINGUISHER
F / F	FACE TO FACE
F F EL	FINISHED FLOOR ELEVATION
FA	FIRE ALARM / FACE AREA / FRESH AREA
FACP	FIRE ALARM CONTROL PANEL
FD	FLOOR DRAIN
FDTN	FOUNDATION
FDV	FIRE DEPARTMENT VALVE CABINET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF INSUL	FOIL BACKED INSULATION
FH	FIRE HYDRANT / FIRE HOSE
FHC	FIRE HOSE CABINET
FIN	FINISH
FIN GR	FINISHED GRADE

ABBREVIATIONS

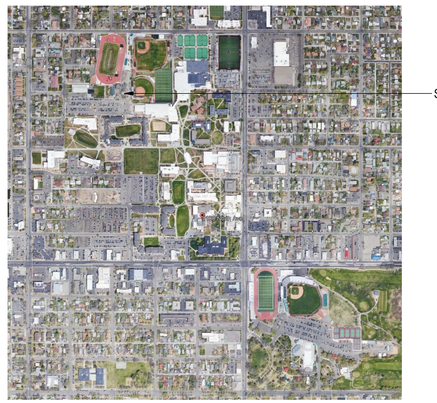
FIXT	FIXTURE
FL	FLOW LINE / FLOOR LINE
FLR	FLOOR / FLOORING
FLUOR	FLUORESCENT
FR	FRAME / FIRE RATED / FIRE RETARDANT
FT	FOOT / FEET / FIRE TREATED / FULLY TEMPERED
FTG	FOOTING
FURG	FURRING
FURN	FURNISH / FURNITURE
FUT	FUTURE
FVC	FIRE VALVE CABINET
GA	GAGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL / GENERATOR
GI	GALVANIZED IRON
GL	GLASS / GROUND LEVEL
GLZ	GLAZING
GND	GROUND
GYP BD	GYPSUM BOARD
GYP SHTG	GYPSUM SHEATHING BOARD.
HC	HANDICAPPED ACCESSIBLE / HOLLOW CORE
HD	HEAD / HEAVY DUTY
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT / HORSEPOWER / HIGH PRESSURE
HT	HEIGHT
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
ID	INSIDE DIAMETER / INTERIOR DESIGN
IF	INSIDE FACE / INTAKE FAN
IN	INCHES
INCAND	INCANDESCENT
INCL	INCLUDING
INSTL	INSTALL
INSUL	INSULATE / INSULATION
INT	INTERIOR / INTERNAL
INV	INVERT
INV EL	INVERT ELEVATION
J BOX	JUNCTION BOX
JAN	JANITOR
JAN CLO	JANITOR CLOSET
JT	JOINT
KIT	KITCHEN
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FEET
LH	LEFT HAND
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LPT	LOW POINT
LT	LIGHT
LTG	LIGHTING
LVR	LOUVER
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	METAL LATH
MO	MASONRY OPENING
MOD BIT	MODIFIED BITUMEN
MR	MOISTURE RESISTANT
MS	MOP SINK
MTD	MOUNTED
MTL	METAL
MULL	MULLION
N	NORTH
N/A	NOT APPLICABLE
NCOMBL	NONCOMBUSTIBLE
NEG	NEGATIVE
NIC	NOT IN CONTACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/O	OUT TO OUT
OA	OVERALL / OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER / OUTSIDE DIMENSION
OF	OUTSIDE FACE
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/OWNER INSTALLED
OFF	OFFICE
OH	OPPOSITE HAND / OVERHEAD / OVERHANG
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
ORN	ORNAMENTAL
ORS	OVERFLOW ROOF SCUPPER
PAT	PATTERN
PBD	PARTICLE BOARD
PCC	PRECAST CONCRETE
PERF	PERFORATED
PERM	PERMANENT
PL	PLATE / PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER / PLASTIC
PLBG	PLUMBING
PLY	PLYWOOD
PNL	PANEL
POL	POLISHED
PR	PAIR / PIPE RAIL
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PREP	PREPARATION
PROJ	PROJECT
PT	PAINT / PRESSURE TREATED
PT CONC	POST TENSION CONCRETE
PTD	PAINTED / PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE

ABBREVIATIONS

PVMT	PAVEMENT
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS / RISER
RA	RETURN AIR
RB	RUBBER BASE / RESILIENT BASE
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCED STEEL BAR
REC	RECESSED
REF	REFERENCE / REFRIGERATOR
REINF	REINFORCED / REINFORCEMENT
REM	REMOVE
REQD	REQUIRED
REV	REVISION
RGD INS	RIGID INSULATION
RH	RIGHT HAND
RL	ROOF LEADER
RLG	RAILING
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RP	REFERENCE POINT
RTG	RATING
RTU	ROOF TOP UNIT
RVL	REVEAL
S	SOUTH
SALV	SALVAGE
SAN	SANITARY
SB	SPLASH BLOCK
SCHED	SCHEDULE / SCHEDULED
SCHEM	SCHEMATIC
SCP	SCUPPER
SCWD	SOLID CORE WOOD DOOR
SEC	SECOND
SECT	SECTION
SF	SQUARE FOOT / SQUARE FEET / SUPPLY FAN
SGL	SINGLE
SH	SHEET
SHT MTL FLASH	SHEET METAL FLASHING
SHTHG	SHEATHING
SIM	SIMILAR
SLNT	SEALANT
SM	SHEET METAL / SMALL / SURFACE MOUNTED
SMACNA	SHEET METAL AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
SPEC	SPECIFICATION(S)
SPLY	SUPPLY
SPRT	SUPPORT
SQ	SQUARE
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STL JST	STEEL JOIST
STOR	STORAGE
STRUCT	STRUCTURAL
SURF	SURFACE
SUSP	SUSPENDED
SYMM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TBD	TO BE DETERMINED
TEL	TELEPHONE
TEMP	TEMPERATURE / TEMPORARY
TERR	TERRAZZO
THK	THICK / THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TMPD GL	TEMPERED GLASS
TO	TOP OF ____
TOC	TOP OF CONCRETE / TOP OF CURB
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET / TOP OF PAVEMENT
TOS	TOP OF STEEL / TOP OF SLAB
TOW	TOP OF WALL
TRTD	TREATED
TS	TUBE STEEL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UC	UNDERCUT
UL	UNDERWRITER'S LABORATORIES
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST / WIDTH / WIDE
W/	WITH
W/O	WITHOUT
WBL	WOOD BLOCKING
WC	WATER CLOSET / WALL COVERING
WD	WOOD / WOOD DOOR
WDW	WINDOW
WF	WIDE FLANGE
WGL	WIRED GLASS
WH	WATER HEATER / WEEP HOLE
WP	WATERPROOFING / WORKING POINT
WR	WATER RESISTANT / WEATHER RESISTANT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD / YARDS

GENERAL NOTES

1	THE FOLLOWING GENERAL NOTES APPLY TO THE ENTIRE SET OF DRAWINGS AND ARE NOT SPECIFIC TO ANY ONE DISCIPLINE.
2	IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH REQUIREMENTS OF THE CONTRACT BEFORE COMMENCING CONSTRUCTION, AND ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
3	THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE CROSS REFERENCE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE CONTRACTOR.
4	THE DRAWINGS AND SPECIFICATIONS ESTABLISH MINIMUM REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT.
5	ARCHITECT IS NOT RESPONSIBLE FOR ACCURACY OF EXISTING CONDITIONS SHOWN IN THESE DOCUMENTS. GC SHALL CONTACT ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES OCCUR IN THE FIELD.
6	THE CONTRACTOR SHALL IDENTIFY AND NOTIFY IN WRITING TO THE ARCHITECT CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES, AND DISCREPANCIES BETWEEN THE DOCUMENTS AND THE ACTUAL CONDITIONS AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND OWNER PRIOR TO PROCEEDING.
7	THE GENERAL NOTES, SYMBOLS AND DEFINITIONS APPLICABLE TO EACH DISCIPLINE CAN BE FOUND AT THE FRONT OF EACH DISCIPLINE'S SET OF DRAWINGS AND IS LISTED AS PART OF THE OVERALL PROJECT INDEX OF DRAWINGS.
8	BASIC FIRE PROTECTION AND EXITING CONCEPTS ARE ILLUSTRATED BY THE LIFE SAFETY AND CODE PLANS ON THE 'G' SERIES SHEETS. THE CONTRACTOR SHALL BE FAMILIAR WITH REQUIREMENTS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH REFERENCED FIRE RATED ASSEMBLY TESTS AND STANDARDS.
9	THE ARCHITECTURAL DRAWINGS ESTABLISH, COORDINATE, AS WELL AS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES.
10	THE DRAWINGS MAY MAKE REFERENCE TO AND/OR ILLUSTRATE ITEMS WHICH ARE NOT PART OF THE WORK OF THE CONTRACT. THESE 'NOT IN CONTRACT' ITEMS AS INDICATED ARE REFERENCED AND/OR ILLUSTRATED FOR THE CONTRACTORS REFERENCE, INFORMATION AND COORDINATION ONLY.
11	THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL APPLICABLE LAWS, CODES, REGULATIONS AND ORDINANCES OF THE PLACE (CITY, COUNTY,DISTRICT, AND STATE) WHERE THE PROJECT IS LOCATED.
12	THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND SIMILAR RELEASES REQUIRED FOR THE CONSTRUCTION AND OCCUPANCY OF THE PROJECT. THE CONTRACTOR SHALL FURNISH COPIES OF ALL SUCH ITEMS TO THE OWNER AND ARCHITECT WITHIN 10 DAYS OF RECEIPT OF SUCH ITEMS. IF PERMITS ARE ISSUED SUBJECT TO CERTAIN CONDITIONS OR REVISIONS TO THE WORK OR IF PERMITS ARE DELAYED FOR ANY REASON, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND ARCHITECT.
13	THE CONTRACTOR SHALL COORDINATE AND OBTAIN ALL REQUIRED INSPECTIONS OF WORK, INCLUDING THAT PERFORMED BY OWNER. CONTRACTOR SHALL REGULARLY UPDATE OWNER AND ARCHITECT REGARDING THE STATUS OF INSPECTIONS.
14	THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN AND PROTECT NEW WORK AS WELL AS EXISTING SYSTEMS AND ELEMENTS WHICH ARE TO REMAIN. ANY DAMAGE TO SUCH SYSTEMS AND ELEMENTS SHALL BE IMMEDIATELY REPAIRED IN A MANNER ACCEPTABLE TO THE ARCHITECT. IF SATISFACTORY REPAIRS CANNOT BE MADE, THE CONTRACTOR SHALL REPLACE SYSTEMS AND ELEMENTS WITH NEW PRODUCTS ACCEPTABLE TO THE ARCHITECT. ALL REPAIRS AND REPLACEMENT COSTS SHALL BE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.
15	THE CONTRACTOR SHALL COORDINATE ALL WORK WITH APPLICABLE UTILITY PROVIDERS.
16	THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL CHASE SIZES WITH MECHANICAL SUB-CONTRACTOR AND NOTIFY ARCHITECT WITH DISCREPANCIES IN THE FIELD.
17	THE DRAWINGS SHALL NOT BE REPRODUCED FOR SUBMITTALS. DRAWINGS OR PORTIONS THEREOF USED FOR SUBMITTALS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR WITHOUT THE APPROVAL OF THE ARCHITECT.
18	THE CONTRACTOR SHALL PROVIDE AND COORDINATE ALL BLOCK-OUTS, SLEEVES, INSERTS, BOLTS, PLATES, ETC. FOR ALL TRADES PRIOR TO PLACING CONCRETE OR MASONRY.
19	THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS AND SEQUENCES OF CONSTRUCTION.
20	THE CONTRACTOR SHALL PROMPTLY REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION AND DEMOLITION DEBRIS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF OWNER FOR DETAILS RELATED TO ALL SITE ACCESS AND REMOVAL PLANS.
21	THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH OWNER'S PROCEDURES FOR MAINTAINING A SECURE SITE AND BUILDING. CONTRACTOR TO ERECT A PERMANENT 6'-0" TALL CONSTRUCTION FENCE INTENDED TO MAINTAIN AOA SECURITY; COORDINATE WITH TAA.
22	EACH INSTALLER SHALL EXAMINE THE SUBSTRATE CONDITION AND/OR SITE CONDITIONS WHICH AFFECT THE QUALITY OF EACH PRODUCT TO BE INSTALLED. IF ANY CONDITIONS EXIST WHICH WILL HAVE A DETRIMENTAL EFFECT ON THE QUALITY OF THE INSTALLATION, THE INSTALLER SHALL IMMEDIATELY ADVISE THE CONTRACTOR. INSTALLATION SHALL NOT PROCEED UNTIL THE UNSATISFACTORY CONDITIONS ARE CORRECTED. INSTALLATION OF PRODUCTS SHALL SIGNIFY ACCEPTANCE BY THE INSTALLER OF THE SUBSTRATE CONDITIONS.
23	THE CONTRACTOR SHALL MAINTAIN A CURRENT/UPDATED RECORD SET OF DRAWINGS ON SITE AT ALL TIMES.
24	FOR THE PURPOSE OF PRICING/ESTIMATES, WHEN THERE IS A CONFLICT/DISCREPANCY IN THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL PRICE THE HIGHER COST ITEM, UNLESS NOTED OTHERWISE IN CONTRACTOR'S PROPOSAL.
25	CONTRACTOR AND SUBCONTRACTOR SHALL NOT SCALE CONSTRUCTION DOCUMENTS.
26	ALL FINISH MATERIALS SHALL CONFORM TO I.B.C. FOR FLAME SPREAD AND SMOKE DEVELOPMENT, REFER TO SPECIFIC MATERIAL SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS.
27	THE CONTRACTOR SHALL COORDINATE INFORMATION THAT IS PART OF ONE OR MORE SEPARATE BID PACKAGES WITH ADDITIONAL INFORMATION ISSUED IN THE BID PACKAGE. THE MULTIPLE BID PACKAGES SHALL CONSTITUTE A COMPLETE PROJECT.
28	THE CONTRACTOR SHALL COORDINATE ALL LOCATIONS AND SIZES OF HOUSEKEEPING PADS WITH MECHANICAL AND ELECTRICAL SUB-CONTRACTORS.



VICINITY MAP

NOT TO SCALE

DRAWING LIST

NO.	DRAWING NAME
GENERAL	
G-00	COVER SHEET
G-001	SHEET INDEX & GENERAL NOTES
G-002	LIFE SAFETY & CODE INFORMATION
CIVIL	
C-100	DEMOLITION & CIVIL SITE PLAN
C-200	GRADING & HORIZONTAL PLAN
LANDSCAPE	
LP-001	PLANTING NOTES
LP-002	PLANTING SCHEDULES
LP-200	OVERALL PLANTING PLAN
LP-201	PLANTING PLAN
LP-202	PLANTING PLAN
LP-203	PLANTING PLAN
LP-205	PLANTING DETAILS
LS-001	SITE NOTES & SCHEDULES
LS-100	OVERALL SITE PLAN
LS-101	SITE LAYOUT & MATERIALS PLAN
LS-102	SITE LAYOUT & MATERIALS PLAN
LS-103	SITE LAYOUT & MATERIALS PLAN
LS-501	SITE DETAILS
STRUCTURAL	
S-001	GENERAL NOTES
S-002	GENERAL NOTES
S-003	STRUCTURAL SPECIAL INSPECTIONS AND TESTS
S-004	STRUCTURAL SPECIAL INSPECTIONS AND TESTS
S-101	STRUCTURAL FLOOR PLAN & ROOF PLAN
S-501	TYPICAL MASONRY DETAILS
S-502	TYPICAL MASONRY DETAILS
ARCHITECTURAL	
A-001	ACCESSIBILITY STANDARDS
A-002	MOUNTING HEIGHTS
A-101	FLOOR PLAN & ROOF PLAN
A-121	REFLECTED CEILING PLAN
A-201	EXTERIOR ELEVATIONS
A-301	SECTIONS
A-501	DETAILS
A-611	DOOR SCHEDULE
A-901	AXONOMETRIC VIEW
MECHANICAL	
M0-1	MECHANICAL COVER SHEET
M1-1	MECHANICAL - FLOOR PLAN
ELECTRICAL	
E0-1	ELECTRICAL COVER SHEET
E2-1	ELECTRICAL/LIGHTING - FLOOR PLANS
E3-2	ELECTRICAL DETAILS
ES1-1	LIGHTING - SITE PLAN

GRAPHIC LEGEND

- XX — COLUMN GRID LINE
- XX — EXISTING COLUMN GRID LINE
- A1 / A-101 EXTERIOR; A1 / A-101 INTERIOR — ELEVATION ELEVATION NUMBER SHEET WHERE IT IS SHOWN
- A1 / A-101; A1 / A-101 — BUILDING SECTION SECTION NUMBER SHEET WHERE IT IS SHOWN
- A1 / A-101 — WALL SECTION SECTION NUMBER SHEET WHERE IT IS SHOWN
- A1 / A-101 — DETAIL INDICATOR FOR SMALL CONDITIONS DETAIL NUMBER SHEET WHERE IT IS SHOWN
- A1 / A-101 — DETAIL CALLOUT DETAIL NUMBER SHEET WHERE IT IS SHOWN
- 1 — REVISION
- PLAN NORTH — NORTH ARROW
- ROOM NAME / A101 — ROOM NAME
- 101 — DOOR NUMBER
- 1t — PARTION/WALL TYPE
- AXXX / MXXX — UPPER PARTITION / LOWER PARTITION — STACKED PARTITION/ WALL TYPE
- 1i — FURNITURE, MILLWORK, FIXTURE OR ACCESSORY
- ? — KEYNOTE
- 1t — WINDOW/LOUVER TYPE

LINETYPE LEGEND

- CENTER LINE
- PROPERTY LINE
- LIMIT OF CONTRACT
- DEMOLITION
- HIDDEN
- MATCHLINE / SEE XX/X-XXX — MATCHLINE

MATERIAL LEGEND

- CONCRETE
- CONCRETE MASONRY UNIT
- ALUMINUM
- BATT INSULATION
- CEMENTITIOUS FIREPROOFING
- CONCRETE, STUCCO, PLASTER, OR GYPSUM BOARD (ELEVATION)
- SOIL
- GLASS
- FINISH WOOD (SECTION / END)
- POROUS FILL (GRAVEL) OR ROOF BALLAST
- ROUGH WOOD FRAMING AND BLOCKING (SECTION / END)
- PLYWOOD
- RIGID OR FOAM INSULATION
- STEEL

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-7177 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	ASI 1			2024.05.10

No.	Issued	By	Appd	YYYY.MM.DD
1	ASI 1 100% CD SET			2024.05.10 2024.05.31

Permit/Seal

Client/Project
Colorado Mesa University
Colorado Mesa University Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701

File Name: N/A

Scale: As indicated

Author	Designer	Checker	2024.05.01
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
SHEET INDEX & GENERAL NOTES

Revision: 1

Drawing No.
G-001

ORIGINAL SHEET - ARCH D

BUILDING CODE DATA - CMU BERGMAN PROMENADE

1.0 GENERAL

1.1 OWNER — COLORADO MESA UNIVERSITY

1.2 SITE ADDRESS — 1100 NORTH AVENUE, GRAND JUNCTION, COLORADO 81501

1.3 CODES IN EFFECT
- INTERNATIONAL BUILDING CODE, 2018 EDITION
- INTERNATIONAL PLUMBING CODE, 2021 EDITION
- INTERNATIONAL MECHANICAL CODE, 2018 EDITION
- INTERNATIONAL ENERGY CONSERVATION CODE, 2018 EDITION
- NATIONAL ELECTRIC CODE, 2023 EDITION
- INTERNATIONAL FIRE CODE, 2018 EDITION
- ICC/ANSI A117.1-2017 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- COLORADO MESA UNIVERSITY DESIGN AND CONSTRUCTION STANDARDS, 2019 EDITION

1.4 AUTHORITY HAVING JURISDICTION — COLORADO MESA UNIVERSITY

2.0 SITE

2.1 DISTANCE TO LOT LINES — SEE CIVIL DRAWING SHEETS

2.2 PARKING DATA (IBC 1108.2.2.1) — NONE

3.0 BUILDING

3.1 BUILDING DESCRIPTION — STORAGE BUILDING
- SINGLE STORY CMU BUILDING, NON-INSULATED EXPOSED CONCRETE BLOCK BUILDING WITH STANDING SEAM ROOF.
- UN-FINISHED INTERIOR WITH EXPOSED STRUCTURE CEILING.

3.2 BUILDING USE & OCCUPANCY CLASSIFICATION (IBC 302.1)

USE	GROUP
STORAGE	S-1

3.3 OCCUPANCY SEPARATION (IBC TABLE 508.4)

OCCUPANCY	HOURS
S-1	0 HOURS

3.4 TYPE OF CONSTRUCTION (IBC 602)

TYPE	
II-B	NON-COMBUSTIBLE MATERIALS

3.5 BUILDING HEIGHT (IBC 504)

	FEET	STORIES
PROPOSED:	12' - 4"	1
ALLOWED:	*55'	2

*WITHOUT AUTOMATIC SPRINKLER SYSTEM (PER IBC 504.3)

3.6 BUILDING AREA (IBC 506)

	GROSS SQ. FT.
PROPOSED:	**1,530**
ALLOWED:	**17,500 SF FOR S-1**

3.7 FIRE RESISTANCE RATINGS (IBC TABLE 601)

ELEMENT	MATERIAL	RATING
STRUCTURAL FRAME	NON-COMBUSTIBLE	0 - HR
BEARING WALLS		
- EXTERIOR	NON-COMBUSTIBLE	0 - HR
- INTERIOR	NON-COMBUSTIBLE	0 - HR
NON-BEARING WALLS AND PARTITIONS		
-EXTERIOR	NON-COMBUSTIBLE	0 - HR
-INTERIOR	NON-COMBUSTIBLE	0 - HR
FLOOR CONSTRUCTION	NON-COMBUSTIBLE	0 - HR
ROOF CONSTRUCTION	NON-COMBUSTIBLE	0 - HR

3.8 EXTERIOR WALL FIRE RATINGS (IBC TABLE 601 & 602)

FIRE SEPARATION DISTANCE = X (FEET)	**TYPE OF** CONSTRUCTION
X > 10	II-B

3.9 OPENING PROTECTION (IBC 705) — *UNLIMITED UNPROTECTED OPENINGS

*PER IBC TABLE 705.8

4.0 LIFE SAFETY - EGRESS

4.1 OCCUPANT LOADS (IBC TABLE 1004.5)

OCCUPANCY	FUNCTION	AREA (NSF)	**OCCUPANT LOAD** FACTOR	OCCUPANTS
S-1	Accessory Storage Areas	1,504	300	6

4.2 EXIT ACCESS TRAVEL DISTANCE (IBC TABLE 1017.2)

PROPOSED: SEE LIFE-SAFETY PLANS
ALLOWED: *250' MAXIMUM
*With Sprinkler System, Based on S-1 Occupancy

4.3 COMMON PATH OF TRAVEL (IBC TABLE 1006.2.1)

OCCUPANCY	PROPOSED	MAX. ALLOWED
S-1	SEE L.S. DIAGRAM	*100'

*Without Sprinkler System

4.4 NUMBER OF EXITS (IBC TABLE 1006.2.1)

	OCCUPANTS	**MIN. NUMBER** OF EXITS
PROPOSED:	6	2
ALLOWED:	<29	1

4.5 EXIT SEPARATION (IBC 1007.1.1)

	DISTANCE BETWEEN EXITS	
PROPOSED:	33'-4"	
ALLOWED:	28'-1/2"	MINIMUM

4.6 EGRESS WIDTHS (IBC 1005.3)

OCCUPANCY	STAIRWAYS	**OTHER EGRESS** COMPONENTS
S-1	0.3	0.2
PROPOSED:		
S-1	NONE	6 * 0.2 = 1.2"

4.7 STAIR WIDTH (IBC 1009.1 & 1011.2) — NONE

4.8 CORRIDOR WIDTH (IBC TABLE 1020.2) — NONE

4.9 CORRIDOR FIRE RATING (IBC TABLE 1020.1) — NONE

4.10 DEAD END — NONE
CORRIDOR DISTANCE (IBC 1020.4)

5.0 FIRE-RESISTANT CONSTRUCTION

5.1 FIRE WALLS (IBC 706) — NOT REQUIRED

5.2 FIRE BARRIERS (IBC 707) — NOT REQUIRED

5.3 SHAFT ENCLOSURES (IBC 713) — NOT REQUIRED

5.4 FIRE PARTITIONS (IBC 708) — NOT REQUIRED

5.5 SMOKE BARRIERS (IBC 709) — NOT REQUIRED

5.6 HORIZONTAL ASSEMBLIES (IBC 711) — NOT REQUIRED

5.7 PENETRATIONS (IBC 714) — NONE

6.0 FIRE PROTECTION SYSTEMS

6.1 AUTOMATIC SPRINKLER SYSTEM (IBC 903) — NOT PROVIDED

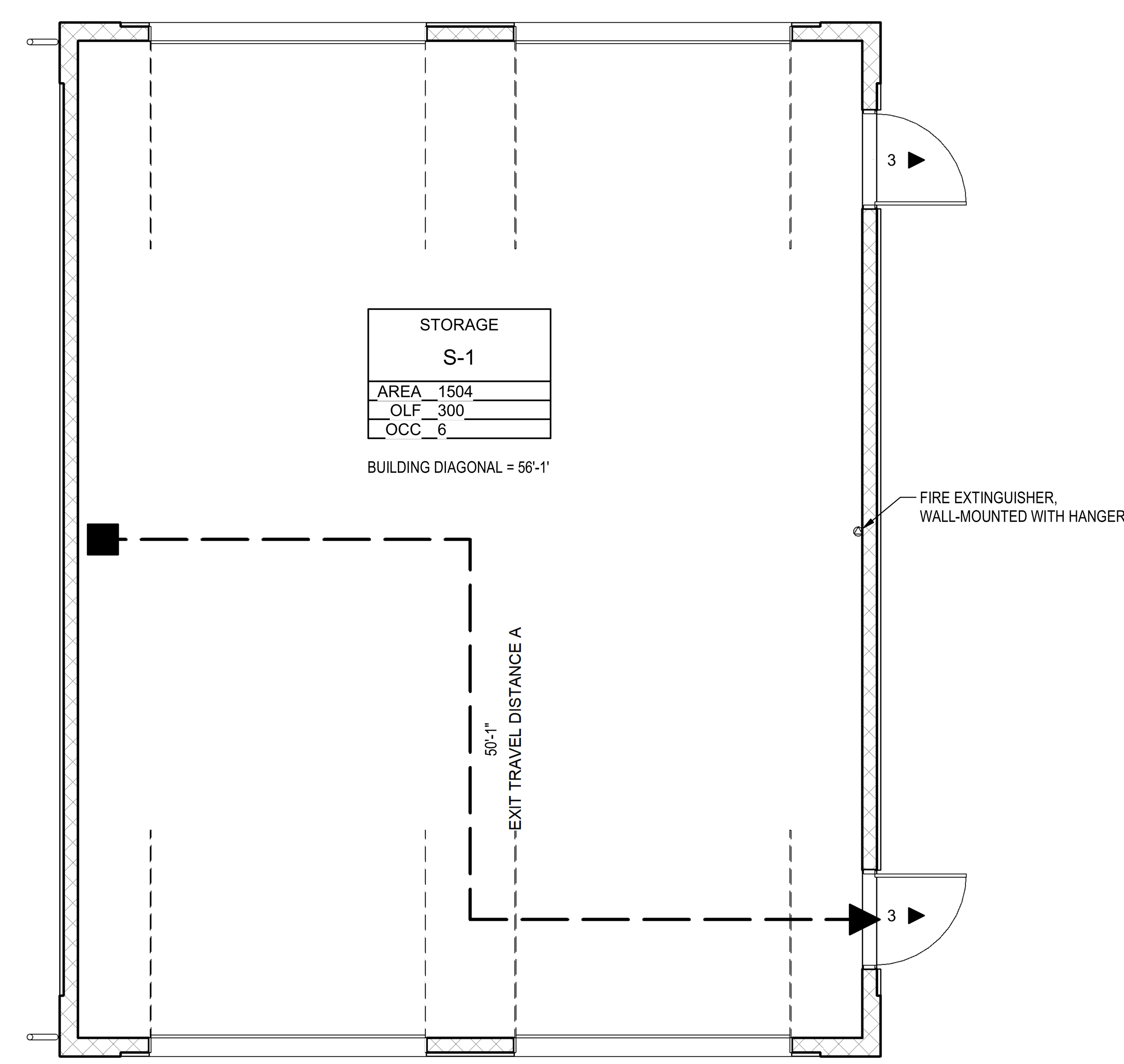
6.2 PORTABLE FIRE EXTINGUISHERS (IBC 906) — AT EXIT LOCATIONS - MAX. TRAVEL DISTANCE TO EXTINGUISHER = 75'

6.3 FIRE ALARM DETECTION SYSTEMS (IBC 907) — SEE ELECTRICAL SHEETS

7.0 ACCESSIBILITY — BUILDING ACCESSIBLE ROUTE, ENTRANCES, FACILITIES, AND SIGNAGE TO CONFORM TO REQUIREMENTS OF IBC CHAPTER 11 AND ICC/ANSI A117.1 - 2017

CODE LEGEND

- 1 HOUR FIRE BARRIER
- EXIT ACCESS TRAVEL PATH
- MAX COMMON PATH OF EGRESS
- MAX BLDG DIAG — BUILDING DIAGONAL
- ASSEMBLY A-3 — OCCUPANCY CLASSIFICATION
- AREA 528 SF — AREA
- OLF 15 — OCCUPANCY LOAD FACTOR
- OCC 36 — NUMBER OF OCCUPANTS
- FE — FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- 74 — OCCUPANT EGRESS LOAD
- FACP — FIRE ALARM CONTROL PANEL



G1 G-002 **LIFE SAFETY PLAN**
3/16" = 1'-0"

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% CD SET			2024.05.01
ASI 1			2024.05.10

Permit/Seal

Client/Project
Colorado Mesa University

Colorado Mesa University Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A
Scale: As indicated

Author	Designer	Checker	2024.05.01
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
LIFE SAFETY & CODE INFORMATION

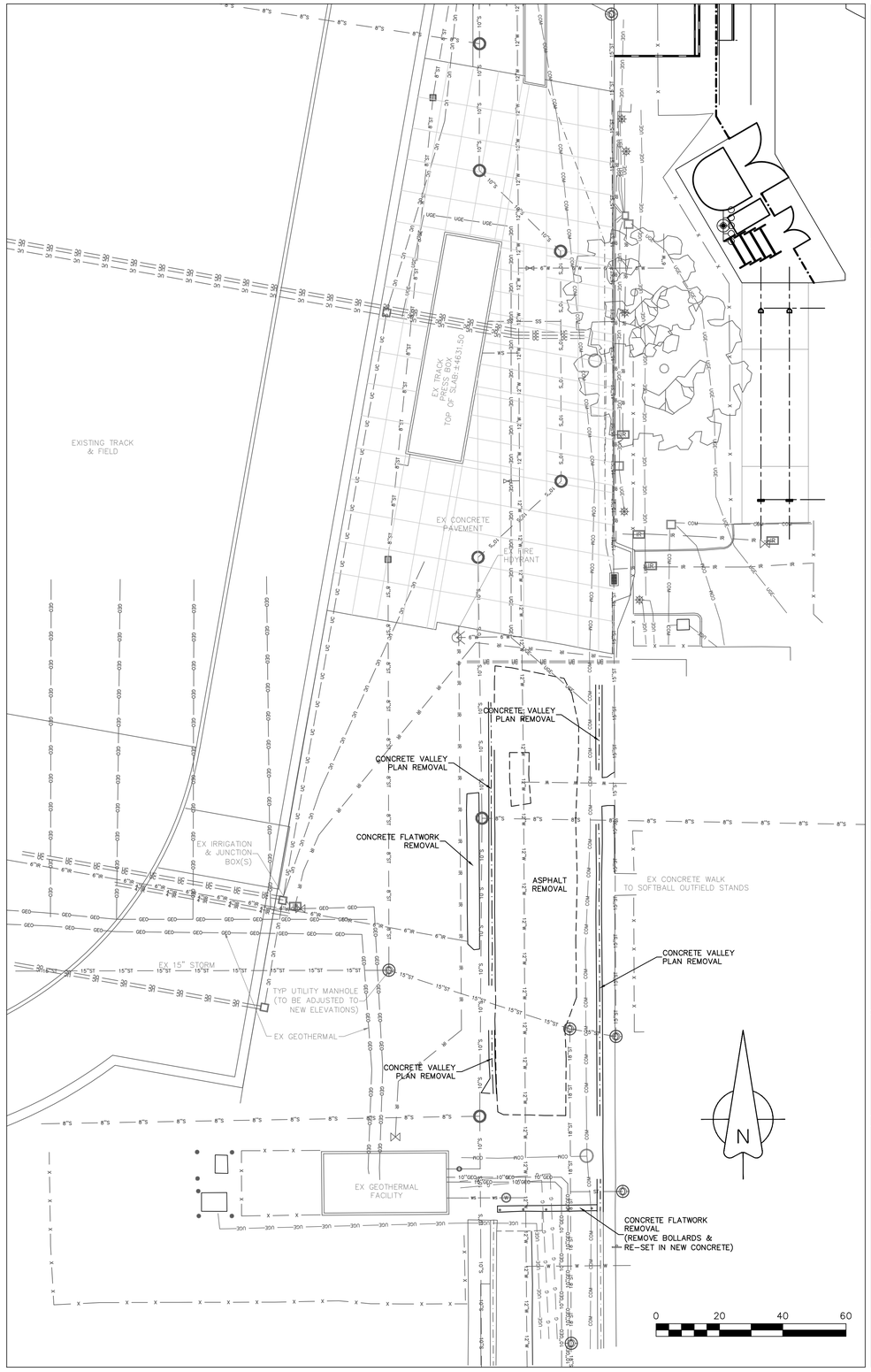
Revision:

Drawing No.
G-002

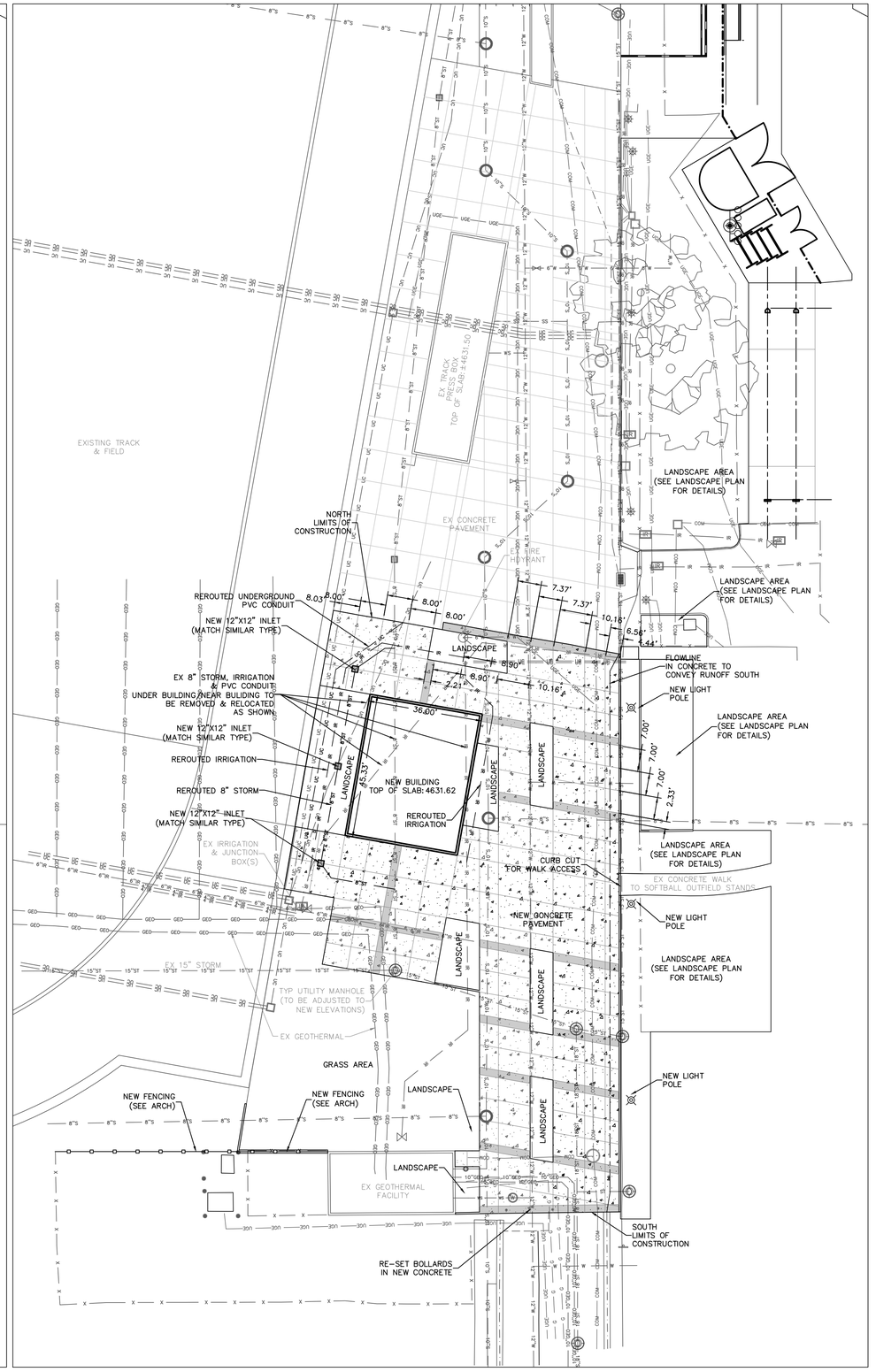
<Pick location in Project Information>
5/10/2024 3:15:56 PM

ORIGINAL SHEET - ARCH D

DEMOLITION PLAN



CIVIL SITE PLAN



CONCRETE PAVEMENT
STANDARD THICKNESS
MEDIUM BROOM FINISH

CONCRETE PAVEMENT
HEAVY DUTY CONCRETE
MEDIUM BROOM FINISH

CONCRETE PAVEMENT
STANDARD / HEAVY DUTY CONCRETE
INTEGRALLY COLORED
ACID WASH FINISH

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

A • C • G
AUSTIN CIVIL GROUP, INC.
Land Planning • Civil Engineering • Development Services
123 N. 7th Street, Suite 300 • Grand Junction, Colorado 81501
(970) 242-7540

Consultant

By	Appd	YYYY.MM.DD	Revision
STS	STS	2024.05.08	PLAN REVISION
STS	STS	2024.05.01	CONSTRUCTION DOCUMENTS Issued

Permit/Seal

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

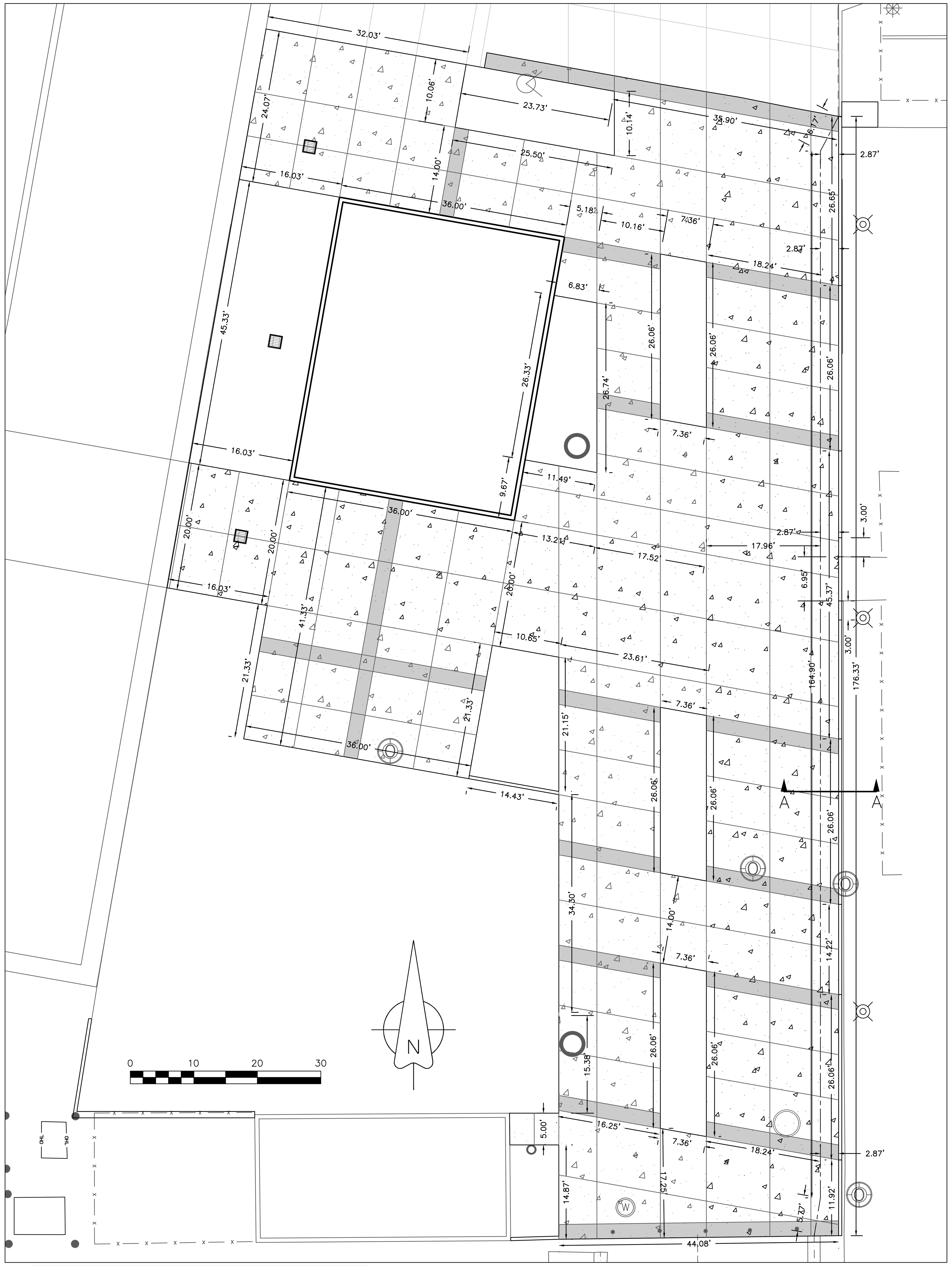
Project No.: 2270481701
File Name:
Scale: 1"=20'

Author	Designer	Checker	05/01/24
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

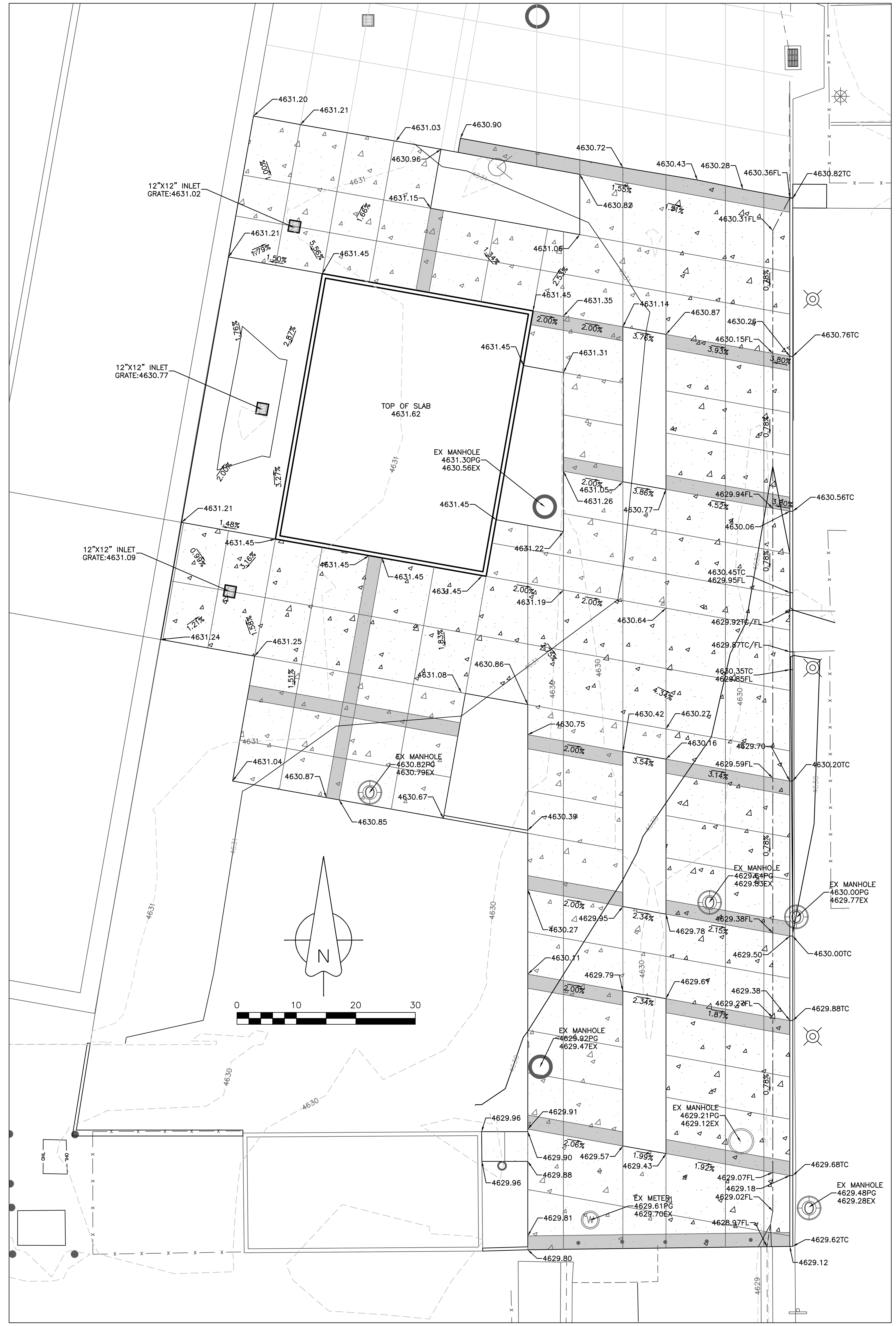
Title
DEMOLITION & CIVIL SITE PLAN

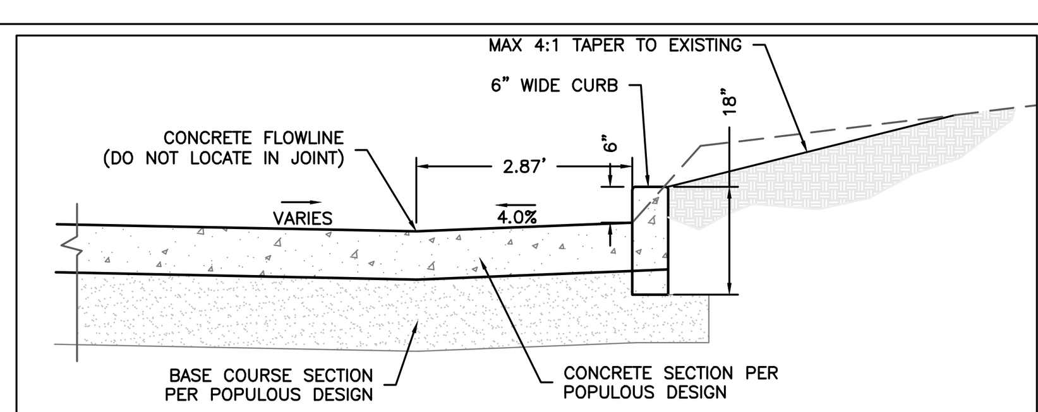
Revision:
Drawing No.
C-100

HORIZONTAL CONTROL PLAN



GRADING PLAN





EAST EDGE OF WALK
SECTION A-A

CONCRETE PAVEMENT
STANDARD THICKNESS
MEDIUM BROOM FINISH

CONCRETE PAVEMENT
HEAVY DUTY CONCRETE
MEDIUM BROOM FINISH

CONCRETE PAVEMENT
STANDARD / HEAVY DUTY CONCRETE
INTEGRALLY COLORED
ACID WASH FINISH

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

A·C·G
AUSTIN CIVIL GROUP, INC.
Land Planning • Civil Engineering • Development Services
123 N. 7th Street, Suite 300 • Grand Junction, Colorado 81501
(970) 242-2540

Consultant

Revision	By	Appd.	YYYY.MM.DD
PLAN REVISION	STS	STS	2024.05.08
CONSTRUCTION DOCUMENTS	STS	STS	2024.05.01

Issued

Permit/Seal

Client/Project
Colorado Mesa University

CMU Bergman Promenade
1100 North Ave. Grand Junction, CO 81501

Project No.: 2270481701

Scale: 1"=20'

Author Designer Checker 05/01/24

Title
GRADING & HORIZONTAL PLAN

Revision:

Drawing No.
C-200

GENERAL NOTES:

1. ALL WORK, INCLUDING CONSTRUCTION INSTALLATION, MATERIALS, TESTING AND INSPECTION, SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE AND ALL OTHER APPLICABLE LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS. ALL WORK IN PROCESS OR COMPLETE SHALL MEET ALL ADA, ADAAG, AND LOCAL JURISDICTIONAL REQUIREMENTS.
2. THOROUGHLY REVIEW THE SITE CONDITIONS, DRAWINGS, AND TECHNICAL SPECIFICATIONS PRIOR TO CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH PLANS APPROVED BY THE APPLICABLE JURISDICTIONAL AUTHORITY. OBTAIN NECESSARY PERMITS FROM ALL JURISDICTIONS AS REQUIRED TO CONSTRUCT THE WORK OF THIS PROJECT.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A COMPLETE UP-TO-DATE SET OF DRAWINGS AND SPECIFICATIONS AT THE CONSTRUCTION SITE AND ENSURING THE DOCUMENTS ARE READILY AVAILABLE FOR REVIEW BY THE LANDSCAPE ARCHITECT AND GOVERNING AGENCY.
4. REFER TO SPECIFICATIONS FOR ALL REQUIRED SUBMITTALS FOR APPROVAL BY OWNER'S REPRESENTATIVE, AS WELL AS ADDITIONAL INFORMATION PERTAINING TO THE PROJECT MATERIALS, PROCEDURES AND INSTALLATION PRIOR TO COMMENCEMENT OF THE WORK. WORK INSTALLED NOT IN COMPLIANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AT CONTRACTOR'S EXPENSE.
5. INFORMATION MENTIONED IN THE TECHNICAL SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE TECHNICAL SPECIFICATIONS SHALL BE OF LIKE EFFECT AS IF SHOWN ON OR MENTIONED IN BOTH.
6. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO ONE ANOTHER AND IMPLIED TO CORRESPOND WITH ONE ANOTHER. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION IMMEDIATELY.
7. NOTES AND DETAILS ON SPECIFIC DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
8. THESE DRAWINGS DO NOT SPECIFY SAFETY MEASURES, MATERIALS, EQUIPMENT, METHODS OR SEQUENCING TO PROTECT PERSONS AND PROPERTY. DIRECT AND IMPLEMENT SAFETY OPERATIONS AND PROCEDURES IN ACCORDANCE WITH ADA, ADAAG, AND LOCAL JURISDICTIONAL REQUIREMENTS TO PROTECT THE OWNER, OTHER CONTRACTORS, THE PUBLIC, AND OTHERS FOR THE DURATION OF THE CONTRACT.
9. THE LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND SEQUENCES OR FOR SAFETY PRECAUTIONS OR PROBLEMS UTILIZED IN CONNECTION WITH THE WORK, AND ASSUMES NO LIABILITY FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
10. THE CONTRACT DOCUMENTS DO NOT REPRESENT OR CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE LANDSCAPE ARCHITECT AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
11. SPECIAL CONSIDERATION HAS BEEN GIVEN TO THE DESIGN AND INTENDED RELATIONSHIP BETWEEN LANDSCAPE MATERIALS, FINISHES AND LAYOUT FOR NEW OR EXISTING IMPROVEMENTS IN RELATIONSHIP TO THE ARCHITECTURE AND/OR STREET, CURB & GUTTER AND SIDEWALK SYSTEMS. PAVEMENT JOINTING, FINISHES, COLOR AND GRADES HAVE BEEN STRICTLY COORDINATED. CONSTRUCTION OF THESE SYSTEMS SHALL ALSO BE STRICTLY COORDINATED.
12. ARCHITECTURAL, CIVIL, STRUCTURAL AND UTILITY ELEMENTS ARE SHOWN ON LANDSCAPE PLANS FOR REFERENCE ONLY. REFER TO INCLUDED DRAWINGS FOR ACTUAL INFORMATION. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
13. BASE INFORMATION, INCLUDING PROPERTY BOUNDARIES, EXISTING BUILDINGS, GRADING, EASEMENTS AND UTILITIES, ARE BASED ON SURVEY INFORMATION PROVIDED BY OTHERS. REFER TO SURVEY, PLAT, ROADWAY AND UTILITY DRAWINGS, AND OTHER AVAILABLE DOCUMENTS FOR PROPERTY LIMITS, EASEMENTS, EXISTING CONDITIONS, AND HORIZONTAL AND VERTICAL CONTROL. VERIFY ALL CONDITIONS AT JOB SITE AND NOTIFY LANDSCAPE ARCHITECT OF DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING THE WORK.
14. VERIFY EXISTING SITE CONDITIONS INCLUDING PROPERTY LINES, EASEMENTS, UTILITIES, STRUCTURES, WALLS, VEGETATION, FENCES, LIMITS OF ROADWAYS, CURBS AND GUTTERS, AND OTHER OBSTRUCTIONS THAT MAY AFFECT THE PROGRESS OF WORK.
15. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE OR ALTERATION. ALL SUCH IMPROVEMENTS AND STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
16. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN OR IDENTIFIED IN THE DRAWINGS. SUCH CONDITION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR DECISION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
17. THE LIMITS OF WORK OCCUR AT THE 'LIMIT OF WORK' LINE AS DEPICTED ON PLANS. THE LIMIT OF WORK LINE OR CONSTRUCTION EASEMENT LINE FOR CONSTRUCTION IS SHOWN DIAGRAMMATICALLY AND OCCURS AT BACK OF CURB , EDGE OF ROAD, FACE OF BUILDING WALL OR PROPERTY LINE EXCEPT WHERE OTHERWISE NOTED.
18. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING MEANS AND METHODS FOR CONSTRUCTION. THESE DRAWINGS MAY INDICATE A LIMIT OF PROPOSED IMPROVEMENTS, LIMIT OF SITE DEMOLITIONS, ETC. FOR DELINEATION OF EXPECTED EXTENTS OF DISTURBANCE. HOWEVER, FINAL IMPACT SHALL BE DETERMINED IN THE FIELD. SHOULD LIMITS OF DISTURBANCE EXCEED BOUNDARIES DEFINED IN DRAWINGS, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY FOR RESOLUTION.
19. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL WORK DISTURBED BY CONSTRUCTION OUTSIDE OF LIMIT LINES DEFINED ON DRAWINGS OR THROUGH CONTRACTOR MEANS AND METHODS TO A CONDITION BETTER THAN OR EQUAL TO THE EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
20. TAKE NECESSARY STEPS TO PROTECT AND MAINTAIN ALL FINISHED WORK FOR THE DURATION OF THE CONTRACT UNTIL FINAL ACCEPTANCE. THE WORK OF THIS CONTRACT WILL NOT BE CONSIDERED COMPLETE UNTIL ALL AREAS HAVE BEEN CLEANED OF ALL DIRT AND DEBRIS AND ALL DAMAGED ITEMS ARE REPAIRED.

SITE LAYOUT/CONSTRUCTION NOTES:

1. REFER TO GENERAL NOTES, THIS SHEET, FOR GENERAL SITE DEVELOPMENT INFORMATION AND REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH SUBCONTRACTORS AND OTHER TRADES AS REQUIRED TO ACCOMPLISH ALL LANDSCAPE CONSTRUCTION OPERATIONS.
3. A SYSTEM OF DIAGRAMMATIC SYMBOLS AND NOTATIONS IS USED IN THESE DRAWINGS. ***NOTE THAT NOT ALL SYMBOLS MAY BE LABELED WITH A NOTATION.*** REVIEW NOTATION CAREFULLY AND NOTIFY LANDSCAPE ARCHITECT AND REQUEST CLARIFICATION OF ANY UNCLEAR NOTATION OR DISCREPANCY PRIOR TO COMMENCING WORK.
4. ALL SYMBOLS ARE SHOWN DIAGRAMMATICALLY ILLUSTRATING APPROXIMATE LOCATION OF EXISTING AND PROPOSED MATERIALS. ANY DISCREPANCIES OR CONFLICTS BETWEEN EXISTING AND PROPOSED CONDITIONS SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT.
5. CONTRACTOR IS TO VERIFY ALL QUANTITIES. IN THE CASE OF ANY DISCREPANCIES, GRAPHICALLY SHOWN MATERIAL QUANTITIES SHALL TAKE PRECEDENCE.
6. REFERENCE TO NORTH REFERS TO TRUE NORTH.
7. REFERENCE TO SCALE IS FOR FULL SIZED DRAWINGS ONLY.
8. WRITTEN DIMENSIONS SUPERCEDE SCALED DIMENSIONS. DO NOT SCALE FROM DRAWINGS. IF THERE IS A QUESTION REGARDING DIMENSIONS, CONTACT LANDSCAPE ARCHITECT FOR VERIFICATION.
9. TAKE ALL DIMENSIONS PERPENDICULAR TO ANY REFERENCE LINE, BACK OF CURB, CENTER LINE OF TREES, AND CENTER LINE OF LIGHT POLE BASES, UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS CALLED OUT AS 'EQUAL' ARE EQUIDISTANT MEASUREMENTS.
11. ALL LAYOUT DIMENSIONS ARE TO BACK OF CURB (BOC), FACE OF WALL (FOW), OR FACE OF BUILDING (FOB) UNLESS OTHERWISE NOTED. ALL DIMENSIONS FROM STRUCTURE ARE FROM FACE OF FINISH OF EXTERIOR WALL UNLESS OTHERWISE STATED.
12. ALL LAYOUT DIMENSIONS ARE FROM PLAN VIEW CALCULATIONS. ACTUAL FIELD DIMENSIONS MAY VARY FROM PLAN DUE TO ACTUAL LENGTHS ALONG A SLOPED SURFACE.
13. ALL ANGLES ARE ASSUMED TO BE 90 DEGREES AND ALL LINES OF PAVING ARE TO BE PARALLEL OR PERPENDICULAR UNLESS OTHERWISE NOTED ON DRAWINGS. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON DRAWINGS.
14. DIMENSIONS MARKED "VERIFY" ARE TO BE FIELD MEASURED. ANY FIELD DISCREPANCIES FROM THE NOTED DIMENSIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO FURTHER WORK.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CONCURRENT WORK BY OTHER TRADES. PROVIDE SLEEVES AS REQUIRED FOR DRAINAGE, ELECTRICAL, IRRIGATION AND UTILITY LINES. COORDINATE AND FIELD VERIFY ALL SLEEVING LOCATIONS FOR ALL ELECTRICAL, IRRIGATION AND UTILITY LINES PRIOR TO CONSTRUCTION. REFERENCE ALL DRAWINGS INCLUDING CIVIL, STRUCTURAL, IRRIGATION AND ELECTRICAL FOR REQUIRED SLEEVING. REQUIRED SLEEVING MAY NOT BE SHOWN ON ALL PLANS.
16. IRRIGATION AND ELECTRICAL SLEEVES AND SUBSURFACE DRAINAGE SYSTEMS SHALL BE CONSTRUCTED PRIOR TO PAVING AND LANDSCAPE WORK. SLEEVES AND CONDUITS SHALL BE INSTALLED A MINIMUM OF 18 INCHES BELOW FINISHED GRADE AND SHALL EXTEND 12 INCHES BEYOND BACK OF CURBS, WALLS, AND PAVING OR AS NOTED OR STIPULATED BY SPECIAL CONDITIONS OR JURISDICTIONAL REQUIREMENTS.
17. COORDINATE PROPOSED WALKS AND RAMPS WITH ANY EXISTING CONDITIONS INCLUDING PUBLIC SIDEWALKS. STAKE PROPOSED WALKS AND REVIEW IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO FORMING.
18. CONCRETE SLABS OR FOOTINGS SHALL BE DOWELED INTO ABUTTING WALLS, FOUNDATIONS AND FOOTINGS AS PER SPECIFICATIONS OR AS SHOWN IN THE DRAWINGS. REQUIRED DOWELING MAY NOT BE SHOWN ON ALL PLANS.
19. PROVIDE EXPANSION JOINTS IN CONCRETE PAVING A MAXIMUM DISTANCE OF 50 FEET APART AND AT ALL INTERSECTIONS WHERE NEW CONCRETE PAVING ABUTS EXISTING CONCRETE PAVING, BUILDINGS, CURBS AND WALLS UNLESS OTHERWISE NOTED.
20. PROVIDE CONTROL JOINTS EVENLY SPACED BETWEEN EXPANSION JOINTS AS SHOWN ON DRAWINGS, EXCEPT WHERE SPECIAL JOINTING PATTERNS ARE SPECIFIED.
21. LAYOUT OF ALL SITE FURNISHINGS, INCLUDING BENCHES, TRASH RECEPTACLES, AND BICYCLE RACKS IS TO BE STAKED IN THE FIELD AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. WHERE CONCRETE FOOTINGS ARE REQUIRED FOR SITE FURNITURE, THEY ARE TO BE STAKED AND VERIFIED IN THE FIELD BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLING ADJACENT PAVEMENT OR FINISHES.
22. SEE RELATED DISCIPLINE DRAWINGS FOR ALL DIMENSIONS.

SITE UTILITIES NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. ***CALL 811 TWO (2) BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES.***
2. CONTRACTOR IS TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, ABOVE AND BELOW GRADE, PRIOR TO EXCAVATION OR TRENCHING. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BEFORE STARTING ANY WORK. MAINTAIN LOCATION OF EXISTING UTILITIES DURING ALL PHASES OF WORK.
3. DO NOT DAMAGE UTILITY LINES/STRUCTURES. RESTORATION OF UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE AND MEET JURISDICTIONAL REQUIREMENTS.

SITE MATERIAL KEYNOTES:

			DETAIL/ SHEET
1.0	**PAVEMENTS, RAMPS, CURBS & EDGING**		
	1.1	PVMT TYPE 1 - C.I.P. CONCRETE, STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	A/LS-501
	1.2	PVMT TYPE 1 - C.I.P. CONCRETE (VEHICULAR), STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	A/LS-501
	1.3	PVMT TYPE 2 - C.I.P. CONCRETE, STANDARD GRAY, ACID WASH FINISH, SAWCUT JOINTS	A/LS-501
	1.4	PVMT TYPE 2 - C.I.P. CONCRETE (VEHICULAR), STANDARD GRAY, ACID WASH FINISH, SAWCUT JOINTS	A/LS-501
	1.5	CONCRETE EDGER - C.I.P. CONCRETE, STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	B/LS-501
2.0	**JOINTING (NOT IN USE)**		
3.0	**STEPS (NOT IN USE)**		
4.0	**SITE WALLS & EMBANKMENTS (NOT IN USE)**		
5.0	**SITE FURNITURE & AMENITIES (NOT IN USE)**		
6.0	**RAILINGS, BARRIERS, FENCING & GATES**		
	6.1	FENCE TYPE 1A - COATED CHAIN LINK, 6' HEIGHT, W/ PRIVACY SCREEN, W/ MOW STRIP	C/LS-501
	6.2	FENCE TYPE 1B - COATED CHAIN LINK, 6' HEIGHT	C/LS-501
7.0	**SITE LIGHTING**		
	7.1	POLE LIGHT TYPE 1	RE: LIGHTING PLANS
8.0	**PLANTING**		
	PA	PLANTING AREA	RE: PLANTING PLANS

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% CD SET			2024.05.01
ASI 1			2024.05.10

Permit/Seal

MATTHEW D. DUNCAN
619
09/30/2008
Original Date of Licensure
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

Client/Project
Colorado Mesa University

CMU Bergman Promenade

1100 North Ave, Grand Junction, CO 81501

Project No.: 2270481701
File Name:
Scale: N.T.S.

Dwn. Dsgn. Chkd. YYYY.MM.DD

Title
SITE NOTES & SCHEDULES

Revision:
Drawing No.
LS-001

ORIGINAL SHEET - ARCH D

1 OVERALL SITE PLAN
1" = 30'-0"

N

0 30' 60'

ORIGINAL SHEET - ARCH D

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	100% CD SET Issued	AS		2024.05.01

Permit/Seal

MATTHEW D. DUNCAN
619
09/30/2008
Signature Date of Validation
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

Client/Project
Colorado Mesa University

CMU Bergman Promenade

1100 North Ave. Grand Junction, CO 81501

Project No.: 2270481701

File Name:

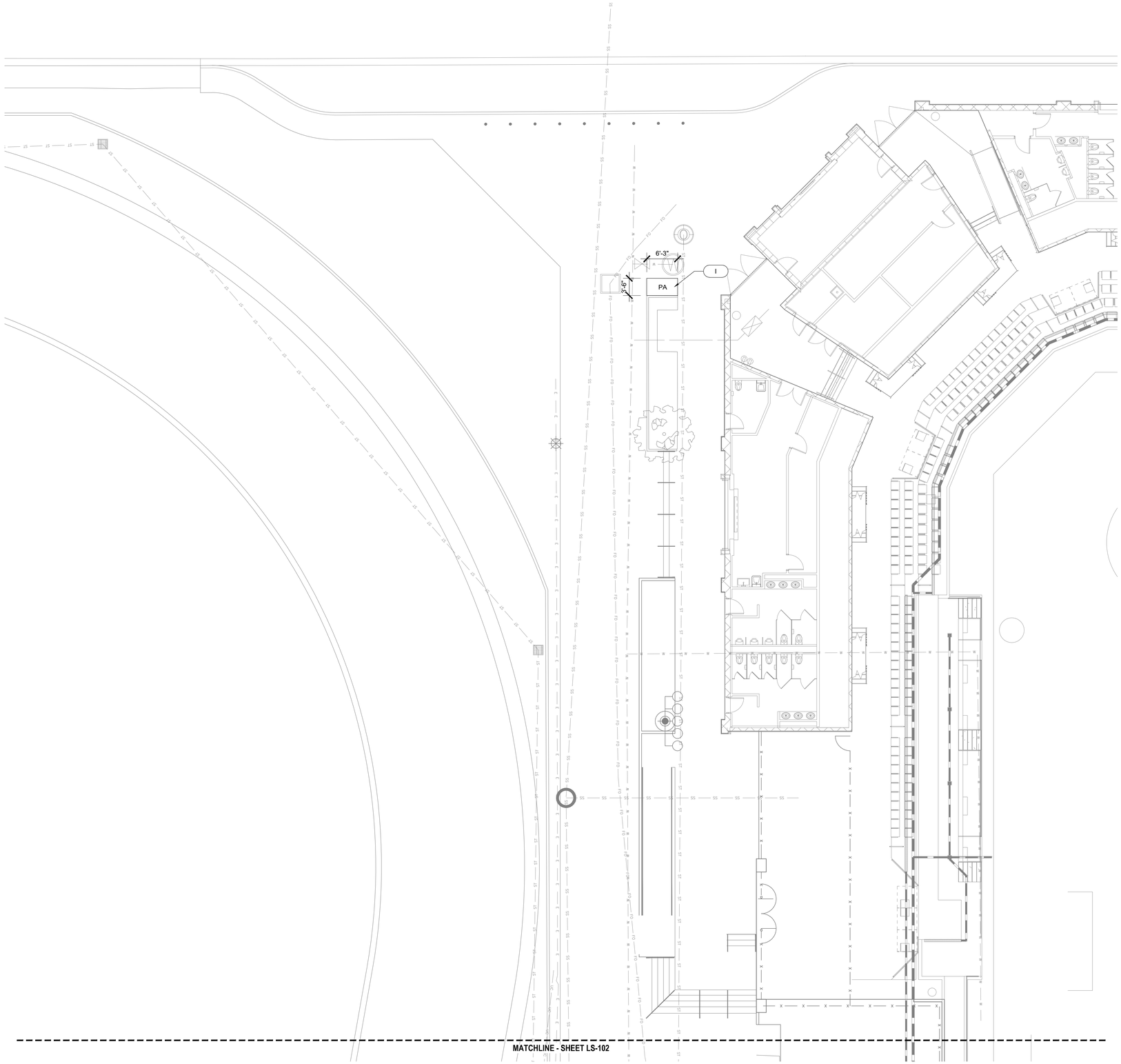
Scale: 1" = 30'-0"

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
			2024.05.01

Title
OVERALL SITE PLAN

Revision:

Drawing No.
LS-100



SITE MATERIAL KEYNOTES:

			DETAIL/ SHEET
1.0	**PAVEMENTS, RAMPS, CURBS & EDGING**		
	1.1	PVMT TYPE 1 - C.I.P. CONCRETE, STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	A/LS-501
	1.2	PVMT TYPE 1 - C.I.P. CONCRETE (VEHICULAR), STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	A/LS-501
	1.3	PVMT TYPE 2 - C.I.P. CONCRETE, STANDARD GRAY, ACID WASH FINISH, SAWCUT JOINTS	A/LS-501
	1.4	PVMT TYPE 2 - C.I.P. CONCRETE (VEHICULAR), STANDARD GRAY, ACID WASH FINISH, SAWCUT JOINTS	A/LS-501
	1.5	CONCRETE EDGER - C.I.P. CONCRETE, STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	B/LS-501
2.0	**JOINTING (NOT IN USE)**		
3.0	**STEPS (NOT IN USE)**		
4.0	**SITE WALLS & EMBANKMENTS (NOT IN USE)**		
5.0	**SITE FURNITURE & AMENITIES (NOT IN USE)**		
6.0	**RAILINGS, BARRIERS, FENCING & GATES**		
	6.1	FENCE TYPE 1A - COATED CHAIN LINK, 6' HEIGHT, W/ PRIVACY SCREEN, W/ MOW STRIP	C/LS-501
	6.2	FENCE TYPE 1B - COATED CHAIN LINK, 6' HEIGHT	C/LS-501
7.0	**SITE LIGHTING**		
	7.1	POLE LIGHT TYPE 1	RE: LIGHTING PLANS
8.0	**PLANTING**		
	PA	PLANTING AREA	RE: PLANTING PLANS

SITE MATERIAL REFERENCE NOTES:

- A — BUILDING OVERHEAD (TYP.), RE: ARCH SHEETS
- B — ALIGN PROPOSED SCORE JOINTS WITH EXISTING (TYP.)
- C — EXTEND CONCRETE WALKWAY TO PROPOSED CURB AS NEEDED
- D — CURB AND DRAINAGE PAN, RE: CIVIL DRAWINGS
- E — PROPOSED FENCE WITH PRIVACY SCREEN AND MOW STRIP
- F — PROPOSED FENCE WITHOUT PRIVACY SCREEN OR MOW STRIP
- G — EXISTING BOLLARDS (REMOVED AND RE-SET INTO PROPOSED CONCRETE PAVEMENT)
- H — EXISTING FIRE HYDRANT (TO REMAIN AND PROTECT IN PLACE)
- I — EXISTING CONCRETE PAVEMENT DEMOLISHED AND REMOVED FOR PROPOSED PLANTING AREA

SITE MATERIAL LEGEND:

- PAVEMENT TYPE 1 (CONCRETE WALKWAY, STANDARD FINISH)
- PAVEMENT TYPE 2 (HEAVY DUTY CONCRETE WALKWAY, STANDARD FINISH)
- PAVEMENT TYPE 3 (CONCRETE WALKWAY, ACCENT FINISH)
- PAVEMENT TYPE 4 (HEAVY DUTY CONCRETE WALKWAY, ACCENT FINISH)
- CONCRETE EDGER
- CHAIN-LINK FENCE TYPE 1A (W/ PRIVACY SCREEN & MOW STRIP)
- CHAIN-LINK FENCE TYPE 1B

N

0 10' 20'

1 SITE LAYOUT & MATERIALS PLAN
1" = 10'-0"

ORIGINAL SHEET - ARCH D

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	100% CD SET	AS		2024.05.10
2	ISSUED	AS		2024.05.01

Permit/Seal

MATTHEW D. DUNCAN
619
09/30/2008
Date of Expiration
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

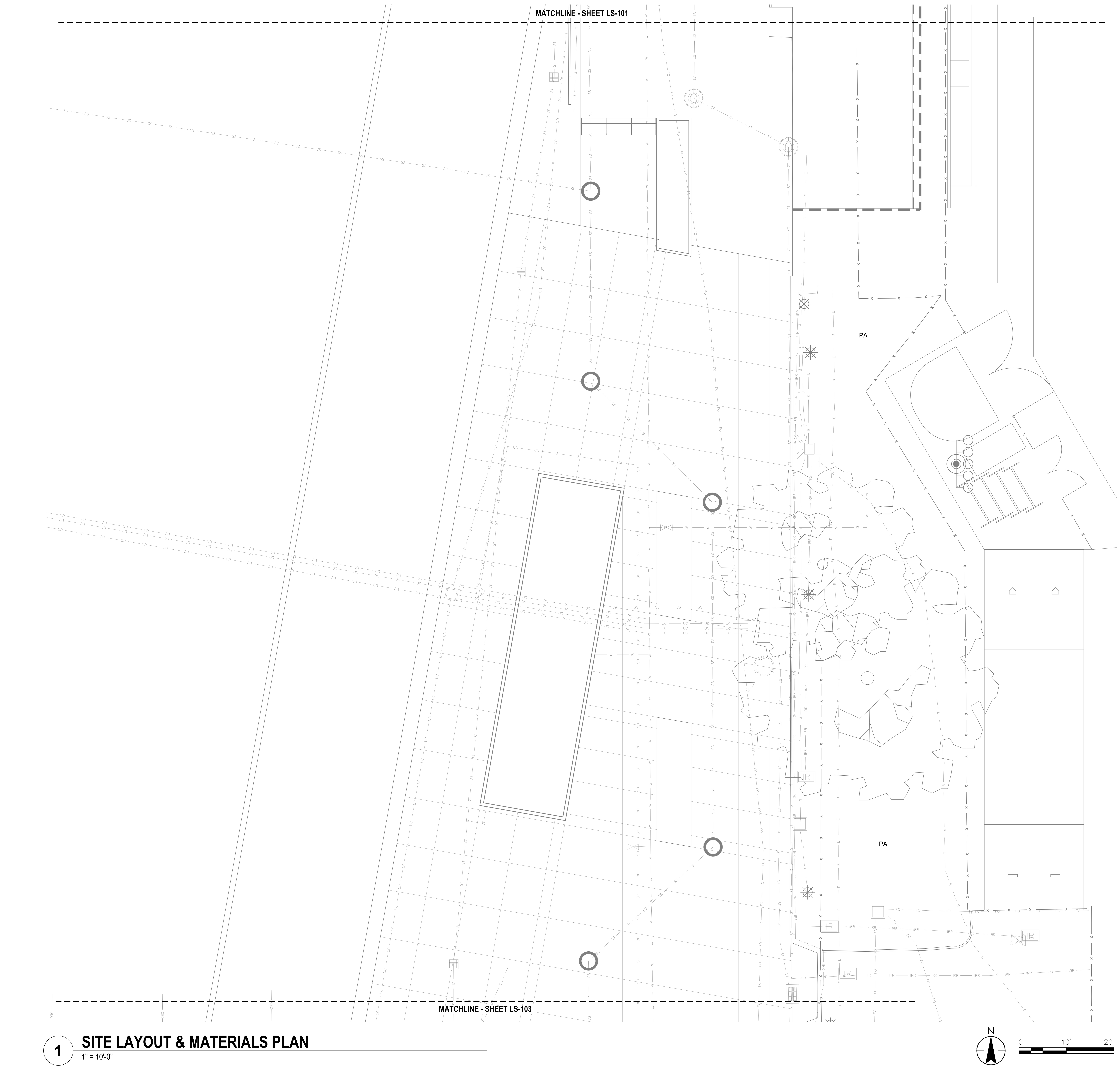
Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701
File Name:
Scale:1" = 10'-0"

Dwn.	Dsgn.	Chkd.
		2024.05.01 YYYY.MM.DD

Title
SITE LAYOUT & MATERIALS PLAN

Revision:
Drawing No.
LS-101



1 SITE LAYOUT & MATERIALS PLAN

1" = 10'-0"

SITE MATERIAL KEYNOTES:

			DETAIL/ SHEET
1.0	**PAVEMENTS, RAMPS, CURBS & EDGING**		
	1.1	PVMT TYPE 1 - C.I.P. CONCRETE, STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	A/LS-501
	1.2	PVMT TYPE 1 - C.I.P. CONCRETE (VEHICULAR), STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	A/LS-501
	1.3	PVMT TYPE 2 - C.I.P. CONCRETE, STANDARD GRAY, ACID WASH FINISH, SAWCUT JOINTS	A/LS-501
	1.4	PVMT TYPE 2 - C.I.P. CONCRETE (VEHICULAR), STANDARD GRAY, ACID WASH FINISH, SAWCUT JOINTS	A/LS-501
	1.5	CONCRETE EDGER - C.I.P. CONCRETE, STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	B/LS-501
2.0	**JOINTING (NOT IN USE)**		
3.0	**STEPS (NOT IN USE)**		
4.0	**SITE WALLS & EMBANKMENTS (NOT IN USE)**		
5.0	**SITE FURNITURE & AMENITIES (NOT IN USE)**		
6.0	**RAILINGS, BARRIERS, FENCING & GATES**		
	6.1	FENCE TYPE 1A - COATED CHAIN LINK, 6' HEIGHT, W/ PRIVACY SCREEN, W/ MOW STRIP	C/LS-501
	6.2	FENCE TYPE 1B - COATED CHAIN LINK, 6' HEIGHT	C/LS-501
7.0	**SITE LIGHTING**		
	7.1	POLE LIGHT TYPE 1	RE: LIGHTING PLANS
8.0	**PLANTING**		
	PA	PLANTING AREA	RE: PLANTING PLANS

SITE MATERIAL REFERENCE NOTES:

- A BUILDING OVERHEAD (TYP.), RE: ARCH SHEETS
- B ALIGN PROPOSED SCORE JOINTS WITH EXISTING (TYP.)
- C EXTEND CONCRETE WALKWAY TO PROPOSED CURB AS NEEDED
- D CURB AND DRAINAGE PAN, RE: CIVIL DRAWINGS
- E PROPOSED FENCE WITH PRIVACY SCREEN AND MOW STRIP
- F PROPOSED FENCE WITHOUT PRIVACY SCREEN OR MOW STRIP
- G EXISTING BOLLARDS (REMOVED AND RE-SET INTO PROPOSED CONCRETE PAVEMENT)
- H EXISTING FIRE HYDRANT (TO REMAIN AND PROTECT IN PLACE)
- I EXISTING CONCRETE PAVEMENT DEMOLISHED AND REMOVED FOR PROPOSED PLANTING AREA

SITE MATERIAL LEGEND:

- PAVEMENT TYPE 1 (CONCRETE WALKWAY, STANDARD FINISH)
- PAVEMENT TYPE 2 (HEAVY DUTY CONCRETE WALKWAY, STANDARD FINISH)
- PAVEMENT TYPE 3 (CONCRETE WALKWAY, ACCENT FINISH)
- PAVEMENT TYPE 4 (HEAVY DUTY CONCRETE WALKWAY, ACCENT FINISH)
- CONCRETE EDGER
- CHAIN-LINK FENCE TYPE 1A (W/ PRIVACY SCREEN & MOW STRIP)
- CHAIN-LINK FENCE TYPE 1B

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% CD SET			2024.05.01
ASI 1			2024.05.10

Permit/Seal

MATTHEW D. DUNCAN 619 STATE OF COLORADO LICENSED LANDSCAPE ARCHITECT 09/30/2008 Original Date of Licensure

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

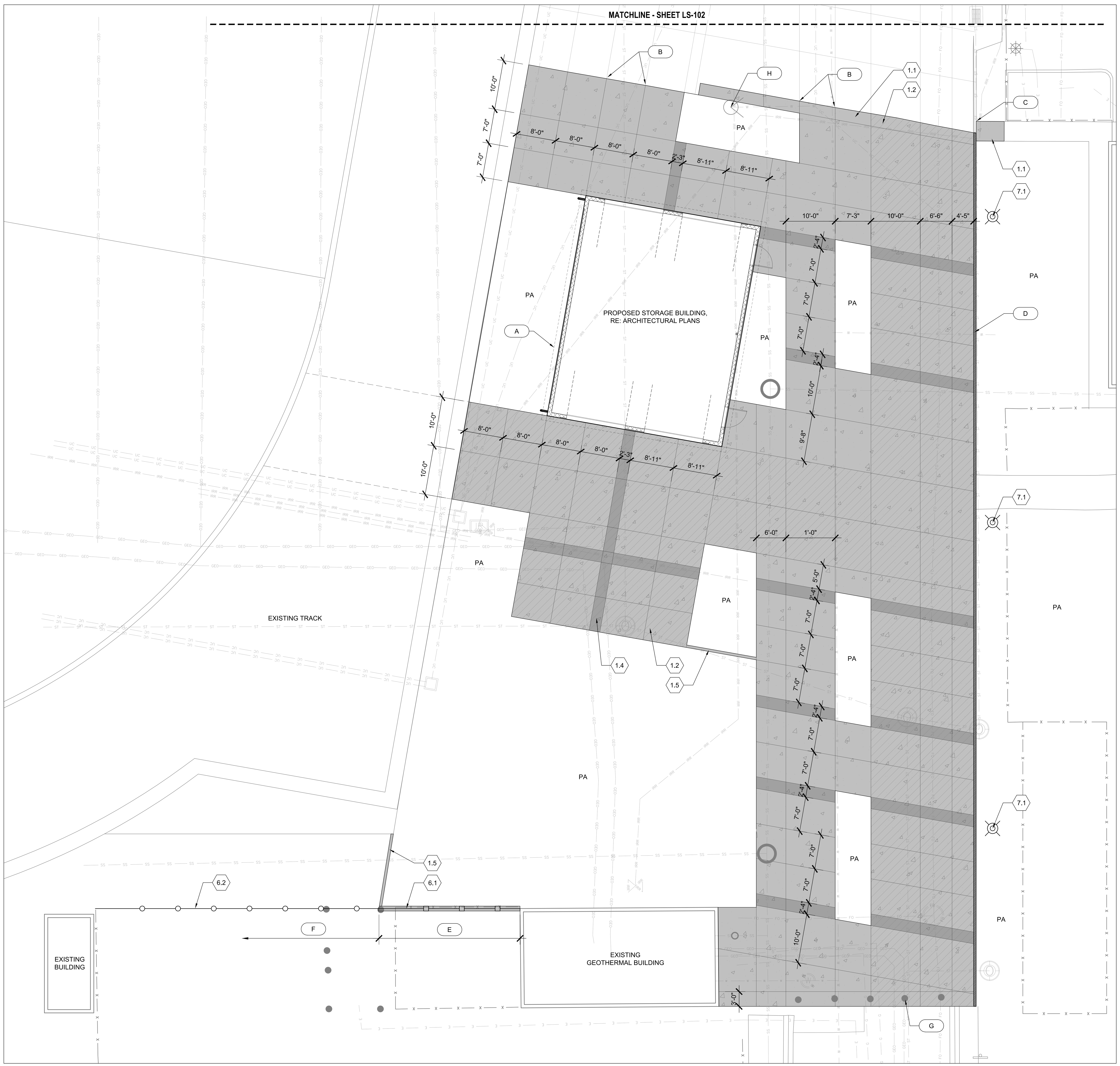
Project No.: 2270481701
File Name:
Scale: 1" = 10'-0"

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
			2024.05.01

Title
SITE LAYOUT & MATERIALS PLAN

Revision:
Drawing No.
LS-102

ORIGINAL SHEET - ARCH D



1 SITE LAYOUT & MATERIALS PLAN
1" = 10'-0"

SITE MATERIAL KEYNOTES:

		DETAIL/ SHEET
1.0	**PAVEMENTS, RAMPS, CURBS & EDGING**	
1.1	PVMT TYPE 1 - C.I.P. CONCRETE, STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	A/LS-501
1.2	PVMT TYPE 1 - C.I.P. CONCRETE (VEHICULAR), STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	A/LS-501
1.3	PVMT TYPE 2 - C.I.P. CONCRETE, STANDARD GRAY, ACID WASH FINISH, SAWCUT JOINTS	A/LS-501
1.4	PVMT TYPE 2 - C.I.P. CONCRETE (VEHICULAR), STANDARD GRAY, ACID WASH FINISH, SAWCUT JOINTS	A/LS-501
1.5	CONCRETE EDGER - C.I.P. CONCRETE, STANDARD GRAY, MEDIUM BROOM FINISH, SAWCUT JOINTS	B/LS-501
2.0	**JOINTING (NOT IN USE)**	
3.0	**STEPS (NOT IN USE)**	
4.0	**SITE WALLS & EMBANKMENTS (NOT IN USE)**	
5.0	**SITE FURNITURE & AMENITIES (NOT IN USE)**	
6.0	**RAILINGS, BARRIERS, FENCING & GATES**	
6.1	FENCE TYPE 1A - COATED CHAIN LINK, 6' HEIGHT, W/ PRIVACY SCREEN, W/ MOW STRIP	C/LS-501
6.2	FENCE TYPE 1B - COATED CHAIN LINK, 6' HEIGHT	C/LS-501
7.0	**SITE LIGHTING**	
7.1	POLE LIGHT TYPE 1	RE: LIGHTING PLANS
8.0	**PLANTING**	
PA	PLANTING AREA	RE: PLANTING PLANS

SITE MATERIAL REFERENCE NOTES:

- A — BUILDING OVERHEAD (TYP.), RE: ARCH SHEETS
- B — ALIGN PROPOSED SCORE JOINTS WITH EXISTING (TYP.)
- C — EXTEND CONCRETE WALKWAY TO PROPOSED CURB AS NEEDED
- D — CURB AND DRAINAGE PAN, RE: CIVIL DRAWINGS
- E — PROPOSED FENCE WITH PRIVACY SCREEN AND MOW STRIP
- F — PROPOSED FENCE WITHOUT PRIVACY SCREEN OR MOW STRIP
- G — EXISTING BOLLARDS (REMOVED AND RE-SET INTO PROPOSED CONCRETE PAVEMENT)
- H — EXISTING FIRE HYDRANT (TO REMAIN AND PROTECT IN PLACE)
- I — EXISTING CONCRETE PAVEMENT DEMOLISHED AND REMOVED FOR PROPOSED PLANTING AREA

SITE MATERIAL LEGEND:

- PAVEMENT TYPE 1 (CONCRETE WALKWAY, STANDARD FINISH)
- PAVEMENT TYPE 2 (HEAVY DUTY CONCRETE WALKWAY, STANDARD FINISH)
- PAVEMENT TYPE 3 (CONCRETE WALKWAY, ACCENT FINISH)
- PAVEMENT TYPE 4 (HEAVY DUTY CONCRETE WALKWAY, ACCENT FINISH)
- CONCRETE EDGER
- CHAIN-LINK FENCE TYPE 1A (W/ PRIVACY SCREEN & MOW STRIP)
- CHAIN-LINK FENCE TYPE 1B

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

Revision | By | Appd | YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
100% CD SET			2024.05.01
ASI 1			2024.05.10

Permit/Seal

MATTHEW D. DUNCAN 619 09/30/2008 Original Date of Licensure STATE OF COLORADO LICENSED LANDSCAPE ARCHITECT

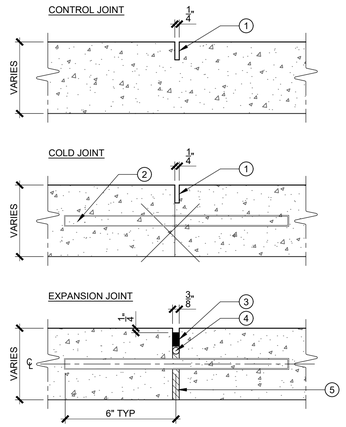
Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.: 2270481701
File Name:
Scale: 1" = 10'-0"
Dwn. Dsgn. Chkd. 2024.05.01 YYYY.MM.DD

Title
SITE LAYOUT & MATERIALS PLAN

Revision:
Drawing No.
LS-103

ORIGINAL SHEET - ARCH D



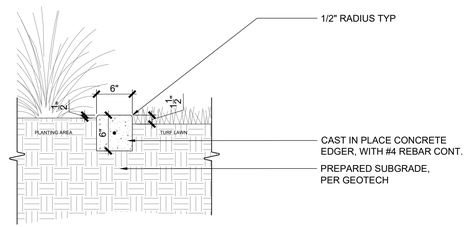
LEGEND

1. SAWCUT CONTROL JOINT 1/3 DEPTH OF SLAB, REFER TO NOTE BELOW.
2. 1/2" DIA. 12" LONG SMOOTH STEEL DOWEL, CENTER BETWEEN SLABS, 24" O.C., GREASE ONE END.
3. SEALANT, COLOR TO MATCH CONCRETE COLOR
4. BACKER ROD
5. 3/8" PRE-MOLDED EXPANSION JOINT FILLER

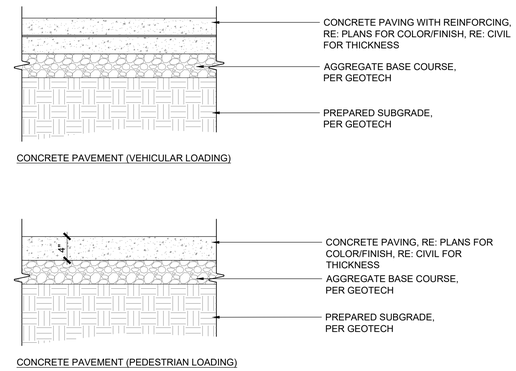
NOTES

1. JOINT LOCATION AND SPACING PER PLAN UNLESS OTHERWISE NOTED.
2. DISCONTINUE REBAR AT EXPANSION JOINT, TYP.
3. EQUALLY DIVIDE SCORED AREAS BETWEEN EXPANSION JOINTS.
4. DO NOT EXCEED 30' OC. SPACING BETWEEN EXPANSION JOINTS.
5. DO NOT INSTALL DOWELS FOR EXPANSION JOINT AT WALLS OR FLUSH CURBS.
6. EXPANSION JOINTS AT PLANTER WALLS AND BETWEEN PAVING AND STRUCTURE.

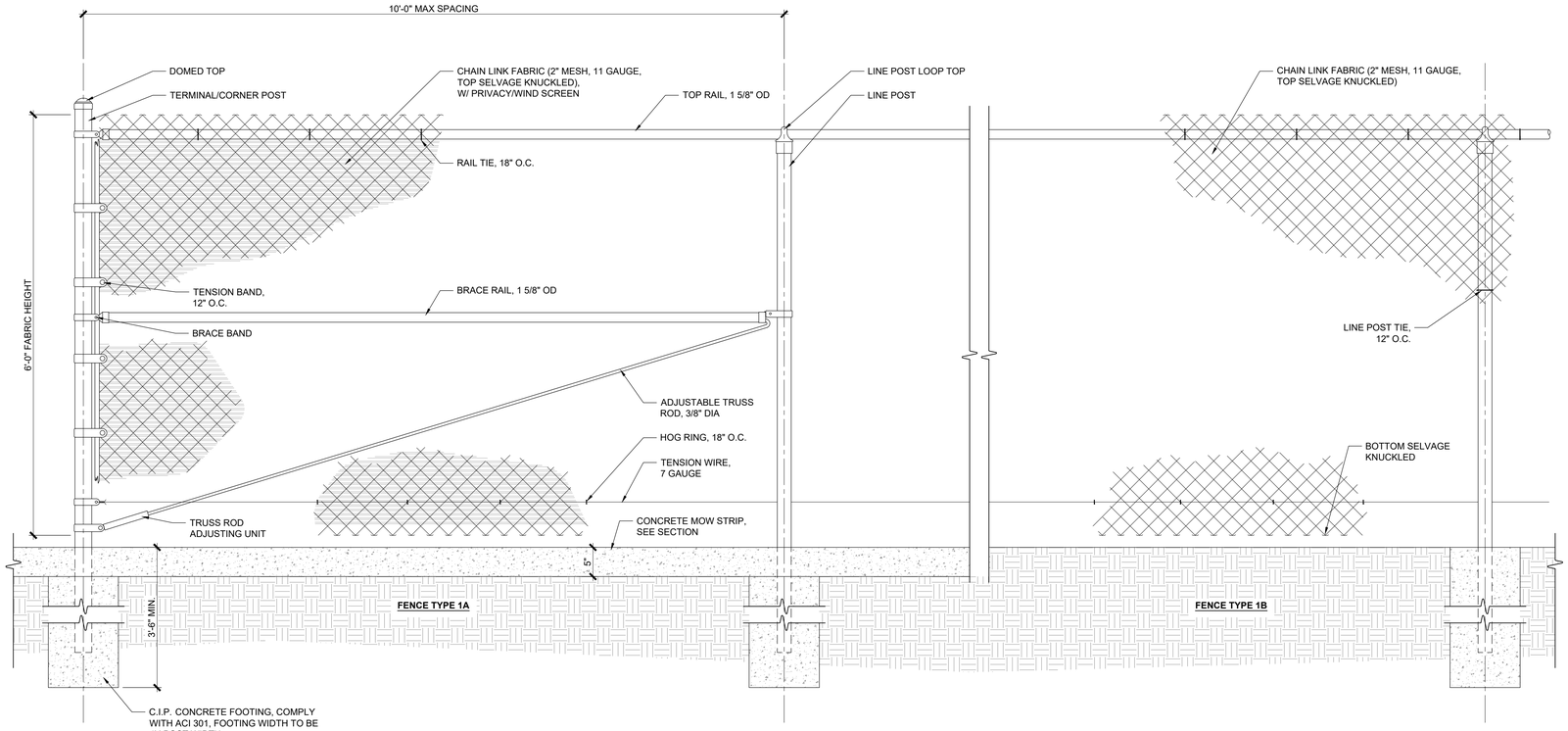
C CONCRETE PAVEMENT JOINTS
SCALE: 3" = 1'-0"



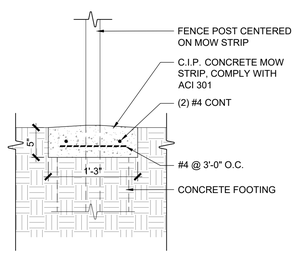
B CONCRETE EDGER
SCALE: 1" = 1'-0"



A CAST IN PLACE CONCRETE PAVING
SCALE: 1" = 1'-0"



D CHAIN LINK FENCE - 6'-0" HEIGHT
SCALE: 1" = 1'-0"



CONCRETE MOW STRIP - SECTION

CHAIN LINK FENCE BASIS OF DESIGN PRODUCT:

MANUFACTURER: MASTER HALCO
(WWW.MASTERHALCO.COM)
APPLICATION: LIGHT COMMERCIAL/INDUSTRIAL
STYLE/FINISH: SPECTRA BOND (CLASS 2A)
COLOR: BLACK

PRIVACY/WIND SCREEN BASIS OF DESIGN PRODUCT:

MANUFACTURER: DOUGLAS SPORTS GROUP
(WWW.DOUGLAS-SPORTS.COM)
PRODUCT: POLYPRO PLUS PREMIUM
STYLE: OPEN MESH
COLOR: BLACK

NOTES:

1. ALL METAL FENCE MATERIAL TO BE PVC COATED, BLACK.
2. SUBMIT SHOP DRAWINGS FOR ARCHITECT'S APPROVAL, SHOWING DETAILED LAYOUTS, ELEVATIONS, SECTIONS, DETAILS AND ATTACHMENT TO OTHER WORK.

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	100% CD SET	AG		2024.05.01
				2024.05.10

Issued

Permit/Seal

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701
File Name:
Scale:N.T.S.

Dwn.	Dsgn.	Chkd.	2024.05.01 YYYY.MM.DD

Title
SITE DETAILS

Revision:
Drawing No.
LS-501

ORIGINAL SHEET - ARCH D

PLANTING NOTES:

1. REFER TO GENERAL NOTES, SHEET LS-001, FOR GENERAL SITE DEVELOPMENT INFORMATION AND REQUIREMENTS.
2. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH SUBCONTRACTORS AND OTHER TRADES AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
3. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1-2014) PUBLISHED BY THE AMERICAN HORTICULTURE INDUSTRY ASSOCIATION.
4. ALL PLANTS WILL BE BALLED AND BURLAPPED OR CONTAINER GROWN. BARE ROOT OR SPADED PLANTS WILL NOT BE ACCEPTED. ALL ROOT WRAPPING MADE OF SYNTHETIC OR PLASTIC MATERIAL SHALL BE REMOVED AT TIME OF PLANTING.
5. ALL PLANT MATERIAL FURNISHED SHALL BE HEALTHY SPECIMENS FREE FROM PESTS, PLANT DISEASE OR DAMAGE. PRE-SELECTED, OR "TAGGED" MATERIAL MUST BE INSPECTED BY THE CONTRACTOR AND CERTIFIED PEST AND DISEASE FREE. IT IS THE CONTRACTOR'S OBLIGATION TO WARRANTY ALL PLANT MATERIALS PER THE SPECIFICATIONS.
6. SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING BED AS SHOWN ON THE DRAWINGS. IF CONFLICTS ARISE BETWEEN SIZE OF AREAS AND PLANS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR IMMEDIATE RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO THE LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE THE MATERIALS.
7. ALL PLANT MATERIAL SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO THE SITE.
8. NO SUBSTITUTIONS OF PLANT MATERIAL SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO THE SITE.
9. ALL TREE AND SHRUB TAGS SHALL REMAIN ON THE PLANTS UNTIL THE TIME OF FINAL ACCEPTANCE.
10. ALL TREES OF THE SAME SPECIES AND SIZE SHALL HAVE MATCHING HEIGHT AND FORM UNLESS OTHERWISE NOTED ON THE PLANS.
11. ALL TREES AND STAKES SHALL BE SET PLUMB UNLESS OTHERWISE NOTED.
12. ALL DECIDUOUS TREES SHALL BE WRAPPED. REFER TO SPECIFICATIONS FOR WRAP TYPE AND TIMING.
13. ALL SHRUB PLANTING AREAS ARE TO BE PREPARED AS CONTINUOUS BEDS. ALL SHRUBS, ORNAMENTAL GRASSES AND GROUND COVERS SHALL BE TRIANGULARLY SPACED, UNLESS OTHERWISE NOTED.
14. ALL PROPOSED LANDSCAPING LOCATED IN THE RIGHT-OF-WAY SHALL COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS FOR HEIGHT CLEARANCE, SPACING AND RELATIONSHIP TO OTHER IMPROVEMENTS TO PROVIDE ADEQUATE SIGHT DISTANCES AT ALL INTERSECTIONS AND ROADWAY CURVES.
15. NO TREES SHALL BE PLANTED WITHIN 10' MIN. OF ANY WATER OR SEWER MAINS, WITHIN 6' MIN. OF WATER OR SEWER SERVICE LINES, AND WITHIN 4' MIN. OF GAS LINES. STREET TREES PLANTED WITHIN THE UTILITY EASEMENT MAY CONFLICT WITH UTILITIES. ADDITIONAL CONDUIT MAY BE REQUIRED TO PROTECT UNDERGROUND ELECTRIC LINES. FOR WATER VALVES LOCATED WITHIN PLANTING AREAS, KEEP A 2' RADIUS CLEAR OF SURFACE VEGETATION AROUND THE VALVE BOX. LOCAL JURISDICTIONAL REQUIREMENTS TAKE PRECEDENT.
16. ALL PLANT MATERIAL AND FINAL LOCATIONS OF ALL PLANT MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST THE LOCATION OF PLANT MATERIAL DURING INSTALLATION AS APPROPRIATE TO THE PROJECT.
17. MINOR ADJUSTMENTS IN PLANT PLACEMENT AND SPECIES MAY BE PROPOSED BY THE CONTRACTOR FOR CONSIDERATION AND APPROVAL BY THE LANDSCAPE ARCHITECT AT THE CONSTRUCTION STAGE TO RESPOND TO FIELD CONDITIONS AND PLANT AVAILABILITY. THERE SHALL BE NO REDUCTION IN PLANT MATERIAL. FOR TREES IN THE RIGHT-OF-WAY, ADJUSTMENTS MUST HAVE PRIOR AUTHORIZATION OF LANDSCAPE ARCHITECT AND/OR CITY FORESTER AS APPLICABLE.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING PLANT MATERIAL DAMAGED DURING PLANTING OPERATIONS AND PRIOR TO FINAL ACCEPTANCE.
19. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULES.
20. OBTAIN LANDSCAPE ARCHITECT'S APPROVAL OF FINISH GRADING PRIOR TO THE COMMENCEMENT OF PLANTING OPERATIONS.
21. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE THROUGHOUT THE SITE WITH ACCURATELY SET FLOW LINES. NO LOW SPOTS OR PONDING OF SURFACE WATER WILL BE ACCEPTED IN TEMPORARY OR FINAL WORK.
22. PERFORM PERCOLATION TEST ON ALL TREE HOLES AND PLANTING BEDS PRIOR TO PLANTING. INFORM LANDSCAPE ARCHITECT OF RESULTS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
23. SEE SPECIFICATIONS FOR PLANTING REQUIREMENTS, SOIL PREPARATION TESTING, MATERIALS AND EXECUTION. ARRANGE FOR VISIT OF LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL A MINIMUM OF 48 HOURS PRIOR TO INSTALLATION.
24. CONTRACTOR IS TO FAMILIARIZE THEMSELVES WITH THE LAYOUT, GRADING AND CIVIL ENGINEERING DOCUMENTS TO COORDINATE ACTUAL LOCATION OF TREES AND SHRUBS.
25. REFER TO LAYOUT DRAWINGS FOR LANDSCAPE EDGING LAYOUT. FIELD STAKE AND REVIEW LAYOUT WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
26. FIELD STAKE AND REVIEW LOCATIONS OF ALL PROPOSED TREES WITH LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING OPERATIONS.
27. SEE DETAILS AND SPECIFICATIONS FOR STAKING METHOD, PLANT PIT DIMENSIONS AND BACKFILL REQUIREMENTS.
28. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE WATER TO NEWLY INSTALLED MATERIALS TO MAINTAIN PLANT HEALTH FOR THE DURATION OF THE CONSTRUCTION PERIOD UNTIL FINAL ACCEPTANCE IS GRANTED AND THE REQUIRED MAINTENANCE PERIOD TAKES EFFECT.
29. PLANT MATERIAL QUANTITIES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITY TAKEOFFS FOR ALL PLANT MATERIAL AS SHOWN ON PLANS.
30. COORDINATE INSTALLATION OF LARGE PLANT MATERIAL WITH INSTALLATION OF WALL FOOTINGS AND ADJACENT PAVEMENTS. ANY DAMAGE TO IMPROVEMENTS IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
31. DO NOT PRUNE TREES AND SHRUBS BEFORE DELIVERY. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, WIND BURN, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. PROVIDE PROTECTIVE COVERING OF PLANTS DURING SHIPPING AND DELIVERY. DO NOT DROP PLANTS DURING DELIVERY AND HANDLING.
32. HANDLE PLANTING STOCK BY ROOT BALL
33. STORE BULBS, CORMS, AND TUBERS IN A DRY PLACE AT 60 TO 65 DEGREES FAHRENHEIT UNTIL TIME OF PLANTING INSTALLATION.
34. APPLY ANTIDESICCANT TO TREES AND SHRUBS USING POWER SPRAY TO PROVIDE AN ADEQUATE FILM OVER TRUNKS (BEFORE WRAPPING), BRANCHES, STEMS, TWIGS, AND FOLIAGE TO PROTECT DURING DIGGING, HANDLING, AND TRANSPORTATION.
35. WRAP TREES AND SHRUBS WITH BURLAP FABRIC OVER TRUNKS, BRANCHES, STEMS, TWIGS, AND FOLIAGE TO PROTECT FROM WIND AND OTHER DAMAGE DURING DIGGING, HANDLING, AND TRANSPORTATION.
36. DELIVER PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED, AND INSTALL IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN SIX HOURS AFTER DELIVERY, SET PLANTS AND TREES IN THEIR APPROPRIATE ASPECT (SUN, FILTERED SUN, SHADE), PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.
37. PLANT DURING ONE OF THE FOLLOWING PERIODS. COORDINATE PLANTING PERIODS WITH MAINTENANCE PERIODS TO PROVIDE REQUIRED MAINTENANCE FROM DATE OF SUBSTANTIAL COMPLETION:
   - 37.1. SPRING PLANTING: APRIL 1 - JUNE 30. ADJUST FOR WEATHER LIMITATIONS AND FREEZING CONDITIONS.
   - 37.2. FALL PLANTING: SEPTEMBER 1 - NOVEMBER 30. ADJUST FOR WEATHER LIMITATIONS AND FREEZING CONDITIONS.
38. INSTALLER AGREES TO REPAIR OR REPLACE PLANTINGS AND ACCESSORIES THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD. FAILURES INCLUDE, BUT ARE NOT LIMITED, TO THE FOLLOWING:
   - 38.1. DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE, LACK OF ADEQUATE MAINTENANCE OR NEGLECT BY OWNER,
   - 38.2. STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.
   - 38.3. FAULTY PERFORMANCE OF TREE STABILIZATION.
   - 38.4. DETERIORATION OF METALS, METAL FINISHES, AND OTHER MATERIALS BEYOND NORMAL WEATHERING.
39. WARRANTY PERIODS: FROM DATE OF SUBSTANTIAL COMPLETION ARE AS FOLLOWS:
   - 39.1. TREES, SHRUBS, VINES, AND ORNAMENTAL GRASSES: 12 MONTHS
   - 39.2. GROUND COVERS, BIENNIALS, PERENNIALS: 12 MONTHS
   - 39.3. ANNUALS: 3 MONTHS
40. REMEDIAL ACTIONS AS A MINIMUM:
   - 40.1. IMMEDIATELY REMOVE DEAD PLANTS AND REPLACE UNLESS REQUIRED TO PLANT IN THE SUCCEEDING PLANTING SEASON.
   - 40.2. REPLACE PLANTS THAT ARE MORE THAN 25 PERCENT DEAD OR IN AN UNHEALTHY CONDITION AT END OF WARRANTY PERIOD.
   - 40.3. A LIMIT OF ONE REPLACEMENT OF EACH PLANT IS REQUIRED EXCEPT FOR LOSSES OR REPLACEMENTS DUE TO FAILURE TO COMPLY WITH REQUIREMENTS.
   - 40.4. PROVIDE EXTENDED WARRANTY FOR PERIOD EQUAL TO ORIGINAL WARRANTY PERIOD, FOR REPLACED PLANT MATERIAL.
41. SOIL ANALYSIS: FOR EACH UNAMENDED SOIL TYPE, CONTRACTOR SHALL PERFORM TESTING ON SOIL SAMPLES AND FURNISH A SOIL ANALYSIS AND COMPLETE SOIL MANAGEMENT REPORT CONTAINING SOIL AMENDMENT AND FERTILIZER RECOMMENDATIONS BY A QUALIFIED TESTING AGENCY.
   - 41.1. THE SOILS ANALYSIS SHALL INCLUDE THE FOLLOWING:
     - 41.1.1. SOIL TEXTURE.
     - 41.1.2. INFILTRATION RATE.
     - 41.1.3. pH.
     - 41.1.4. TOTAL SOLUBLE SALTS.
     - 41.1.5. SODIUM.
     - 41.1.6. PERCENTAGE ORGANIC MATTER.
     - 41.1.7. RECOMMENDATIONS.
   - 41.2. SOIL AMENDMENTS SHALL BE INCORPORATED ACCORDING TO RECOMMENDATIONS OF THE SOILS REPORT AND WHAT IS APPROPRIATE FOR PLANTS SELECTED. IF NO SOILS REPORT IS PROVIDED DUE TO EXTENSIVE MASS GRADING, INCORPORATE THE FOLLOWING SOIL AMENDMENTS AT A RATE OF 4 CUBIC YARDS PER 1,000 SF:
     - 41.2.1. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER PRODUCED BY COMPOSTING FEEDSTOCK, AND BEARING USCC'S :SEAL OF TESTING ASSURANCE", AND AS FOLLOWS:
       - 41.2.1.1. FEEDSTOCK: LIMITED TO LIMB AND TREE WASTE, LEAVES, GRASS, FOOD AND BREWERY WASTE, AND BIOSOLIDS.
       - 41.2.1.2. REACTION: pH OF 5 TO 7.5.
       - 41.2.1.3. SOLUBLE-SALT CONCENTRATION: LESS THAN 5 dS/m.
       - 41.2.1.4. MOISTURE CONTENT: 35 TO 55 PERCENT BY WEIGHT.
       - 41.2.1.5. ORGANIC MATTER CONTENT: MINIMUM 25 PERCENT OF DRY WEIGHT.
       - 41.2.1.6. PARTICLE SIZE: MINIMUM OF 90 PERCENT PASSING THROUGH A 1/2 INCH SIEVE.
42. PLANT MATERIALS:
   - 42.1. FURNISH NURSERY-GROWN PLANTS TRUE TO GENUS, SPECIES, VARIETY, CULTIVAR, STEM FORM, SHEARING, AND OTHER FEATURES INDICATED IN PLANT SCHEDULE INDICATED ON DRAWINGS AND COMPLYING WITH ANSI Z60.1; AND WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK, DENSLY FOLIATED WHEN IN LEAF AND FREE OF DISEASE, PESTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALED, INJURIES, ABRASIONS, AND DISFIGUREMENT.
   - 42.2. ROOT BALL DEPTH: FURNISH TREES AND SHRUBS WITH ROOT BALLS MEASURED FROM TOP OF ROOT BALL, WHICH BEGINS AT ROOT FLARE, IN ACCORDANCE WITH ANSI Z60.1.
43. TOPSOIL: IMPORTED TOPSOIL TO BE FRIABLE SANDY LOAM AND REASONABLY FREE OF ROOTS, ROCKS LARGER THAN ½", FOREIGN MATTER, AND WEEDS, AND AS FOLLOWS:
   - 43.1. REACTION: pH OF 7.2 OR LESS.
   - 43.2. SOLUBLE-SALT CONCENTRATION: LESS THAN 2 dS/m.
   - 43.3. MANUFACTURED OR BLENDED TOPSOIL MAY BE UTILIZED TO ACHIEVE THE ABOVE TOPSOIL SPECIFICATIONS.
44. PLANTING TABLETS: TIGHTLY COMPRESSED CHIP-TYPE, LONG-LASTING, SLOW-RELEASE, COMMERCIAL-GRADE PLANTING FERTILIZER IN TABLET FORM.
   - 44.1. 5-GRAM TABLETS
   - 44.2. NUTRIENT COMPOSITION: 20 PERCENT NITROGEN, 10 PERCENT PHOSPHOROUS, AND 5 PERCENT POTASSIUM, BY WEIGHT PLUS MICRONUTRIENTS.
45. ORGANIC MULCH: FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS, CONSISTING OF THE FOLLOWING, AND IN LOCATIONS INDICATED ON DRAWINGS:
   - 45.1. TYPE 1 - SHREDDED REDWOOD BARK.
     - 45.1.1. BASIS OF DESIGN: GORILLA HAIR MULCH, OR APPROVED EQUAL.
     - 45.1.2. SIZE RANGE: 3" MAXIMUM, ½" MINIMUM.
     - 45.1.3. COLOR: NATURAL.
   - 45.2. APPLY A MINIMUM OF THREE INCH (3") LAYER OF MULCH ON ALL EXPOSED SURFACES OF PLANTING AREAS.
46. TREE STABILIZATION MATERIALS:
   - 46.1. UPRIGHT STAKES: ROUGH SAWN, SOUND, NEW HARDWOOD, FREE OF KNOTS, HOLES, CROSS GRASS, AND OTHER DEFECTS, 2-BY-2-INCH NOMINAL BY LENGTH INDICATED, POINTED AT ONE END.
   - 46.2. FLEXIBLE TIES: WIDE RUBBER OR ELASTIC BANDS OR STRAPS OF LENGTH REQUIRED TO REACH STAKES OR TURNBUCKLES.
   - 46.3. FLAGS: STANDARD SURVEYOR'S PLASTIC FLAGGING TAPE, WHITE, 6 INCHES LONG.
47. SOIL PREPARATION:
   - 47.1. EXCAVATE AREAS TO BE PLANTED TO A DEPTH OF 6 INCHES TO RECEIVE AMENDED TOPSOIL AND TO REMOVE BOTH UNACCEPTABLE MATERIALS (CONCRETE SLURRY, CONCRETE CHUNKS, CEMENT, PLASTER, BUILDING DEBRIS, OILS, GASOLINE, DIESEL FUEL, PAINT THINNER, TURPENTINE, TAR, ROOFING COMPOUND, ACID, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH) AND UNSUITABLE MATERIALS (LARGE STONES, ROOTS, SOD, CLAY CLUMPS, POCKETS OF COARSE SAND).
   - 47.2. APPLY AND MIX TOPSOIL WITH AMENDMENTS ON-SITE TO PRODUCE REQUIRED PLANTING SOIL. DO NOT APPLY MATERIALS OR TILL IF EXISTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
   - 47.3. TILL SUBGRADE TO A MINIMUM DEPTH OF 12 INCHES, REMOVING STONES LARGER THAN 2" IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER.
   - 47.4. SPREAD AMENDED TOPSOIL TO A TOTAL DEPTH AS NEEDED TO RAISE GRADE PER SPECIFIC PLANTING TREATMENT, AND TILL 4 INCHES INTO SUBGRADE, MIXING THOROUGHLY TO AVOID SOIL TEXTURE ISSUES.
   - 47.5. COMPACT BLENDED PLANTING SOIL TO 75-82 PERCENT OF MAXIMUM STANDARD PROCTOR DENSITY (ASTM D 698).
   - 47.6. GRADE PLANTING SOIL TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES.
48. PLANTING PREPARATION:
   - 48.1. INSTALL EROSION-CONTROL MEASURES TO PREVENT EROSION OR DISPLACEMENT OF SOILS AND DISCHARGE OF SOIL-BEARING WATER RUN-OFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS.
   - 48.2. LAY OUT INDIVIDUAL TREE AND SHRUB LOCATIONS AND AREAS FOR MULTIPLE PLANTINGS. STAKE LOCATIONS, OUTLINE AREAS, ADJUST LOCATIONS WHEN REQUESTED, AND OBTAIN ARCHITECT'S ACCEPTANCE OF LAYOUT BEFORE EXCAVATING OR PLANTINGS.
49. EXCAVATION FOR TREES AND SHRUBS:
   - 49.1. EXCAVATE PLANTING PITS WITH SIDES SLOPING INWARD AT A 45-DEGREE ANGLE. EXCAVATIONS WITH VERTICAL SIDES ARE UNACCEPTABLE. TRIM PERIMETER OF BOTTOM LEAVING CENTER AREA OF BOTTOM RAISED SLIGHTLY TO SUPPORT ROOT BALL AND ASSIST IN DRAINAGE AWAY FROM CENTER. DO NOT FURTHER DISTURB BASE. ENSURE THAT ROOT BALL WILL SIT ON UNDISTURBED BASE SOIL TO PREVENT SETTLING. SCARIFY SIDES OF PLANTING PIT SMEARED / SMOOTHED DURING EXCAVATION.
   - 49.2. BALLED AND BURLAPPED STOCK: EXCAVATE APPROXIMATELY THREE TIMES AS WIDE AS BALL DIAMETER.
   - 49.3. CONTAINER-GROWN STOCK: EXCAVATE APPROXIMATELY THREE TIMES AS WIDE AS BALL DIAMETER.
   - 49.4. DO NOT EXCAVATE DEEPER THAN DEPTH OF THE ROOT BALL, MEASURED FROM THE ROOT FLARE TO THE BOTTOM OF THE ROOT BALL.
   - 49.5. IF ARE UNDER THE PLANT WAS INITIALLY DUB TOO DEEP, ADD SOIL TO RAISE IT TO THE CORRECT LEVEL AND THOROUGHLY TAMP THE ADDED SOIL TO PREVENT SETTLING.
   - 49.6. MAINTAIN ANGLES OF REPOSE OF ADJACENT MATERIALS TO ENSURE STABILITY. DO NOT EXCAVATE SUBGRADES OF ADJACENT PAVING, STRUCTURES, OR OTHER NEW OR EXISTING IMPROVEMENTS.
50. BACKFILL SOIL: SUBSOIL AND TOPSOIL REMOVED DURING EXCAVATIONS MAY BE USED AS BACKFILL SOIL UNLESS OTHERWISE INDICATED.
51. FILL EXCAVATIONS WITH WATER AND ALLOW TO PERCOLATE AWAY BEFORE POSITIONING TREES AND SHRUBS.
52. TREE AND SHRUB PLANTING:
   - 52.1. REMOVE STEM GIRDLING ROOTS AND KINKED ROOTS. REMOVED INJURED ROOTS BY CUTTING CLEANLY; DO NOT BREAK.
   - 52.2. BACKFILL: PLANTING SOIL
   - 52.3. AFTER PLACING SOME BACKFILL AROUND ROOT BALL TO STABILIZE PLANT, CAREFULLY CUT AND REMOVED BURLAP, ROPE, AND WIRE BASKETS FROM TOPS OF ROOT BALLS AND FROM SIDES, BUT DO NOT REMOVE FROM UNDER ROOT BALLS.
   - 52.4. BACKFILL AROUND ROOT BALL IN LAYERS, TAMPING TO SETTLE SOIL AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PLANTING PIT IS APPROXIMATELY ONE-HALF FILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE WATER IS ABSORBED.
   - 52.5. PLACE PLANTING TABLETS EQUALLY DISTRIBUTED AROUND EACH PLANTING PIT WHEN PITS APPROXIMATELY ONE-HALF FILLED. PLACE TABLETS BESIDE THE ROOT BALL ABOUT 1 INCH FROM ROOT TIPS; DO NOT PLACE TABLETS IN BOTTOM OF HOLE.
     - 52.5.1. QUANTITY: THREE TABLETS FOR EACH CALIPER INCH OF PLANT.
   - 52.6. SLOPES: WHEN PLANTING ON SLOPES, SET THE PLANT SO THE ROOT FLARE ON THE UPHILL SIDE IS FLUSH WITH THE SURROUNDING SOIL ON THE SLOPE; THE EDGE OF THE ROOT BALL ON THE DOWNHILL SIDE WILL BE ABOVE THE SURROUNDING SOIL. APPLY ENOUGH SOIL TO COVER THE DOWNHILL SIDE OF THE ROOT BALL.
53. TREE STABILIZATION - UPRIGHT STAKING AND TYING:
   - 53.1. STAKE TREES OF 2-THROUGH 5-INCH CALIPER. STAKE TREES OF LESS THAN 2-INCH CALIPER ONLY AS REQUIRED TO PREVENT WIND TIP OUT. USE A MINIMUM OF TWO STAKES OF LENGTH REQUIRED TO PENETRATE AT LEAST 18 INCHES BELOW BOTTOM OF BACKFILLED EXCAVATION AND TO EXTEND TO THE DIMENSION INDICATED ON DRAWINGS ABOVE GRADE. SET VERTICAL STAKES AND SPACE TO AVOID PENETRATING ROOT BALLS OR ROOT MASSES.
   - 53.2. STAKE TREES WITH TWO STAKES FOR TREES UP TO 12 FEET HIGH AND 2-1/2 INCHES OR LESS IN CALIPER; THREE STAKES FOR TREES LESS THAN 14 FEET HIGH AND UP TO 4 -INCHES IN CALIPER. SPACES STAKED EQUALLY AROUND TREES.
   - 53.3. SUPPORT TREES WITH BANDS OF FLEXIBLE TIES AT CONTACT POINTS WITH TREE TRUNK. ALLOW ENOUGH SLACK AVOID RIGID RESTRAINT OF TREE.
54. PERENNIAL AND ORNAMENTAL GRASS PLANTING:
   - 54.1. SET OUT AND SPACE PLANTS OTHER THAN TREES AND SHRUBS AS INDICATED ON DRAWINGS.
   - 54.2. USE PLANTING SOIL FOR BACKFILL.
   - 54.3. DIG HOLES LARGE ENOUGH TO ALLOW SPREADING OF ROOTS.
   - 54.4. WORK SOIL AROUND ROOTS TO ELIMINATE AIR POCKETS AND LEAVE A SLIGHT SAUCER INDENTATION AROUND PLANTS TO HOLD WATER.
   - 54.5. WATER THOROUGHLY AFTER PLANTING, TAKING CARE NOT TO COVER PLANT CROWNS WITH WET SOIL.
   - 54.6. PROTECT PLANTS FROM HOT SUN AND WIND; REMOVE PROTECTION IF PLANTS SHOW EVIDENCE OF RECOVERY FROM TRANSPLANTING SHOCK.
55. PLANTING AREA MULCHING:
   - 55.1. DO NOT INSTALL WEED-CONTROL BARRIERS.
   - 55.2. APPLY ORGANIC MULCH TO PLANTING AREAS AS INDICATED.
     - 55.2.1. IN PLANTING AREAS: APPLY 3 INCH AVERAGE THICKNESS OF ORGANIC MULCH OVER WHOLE SURFACE OF PLANTING AREA, AND FINISH ½ INCH BELOW SURFACE OF ADJACENT PAVEMENT. DO NOT PLACE MULCH WITHIN 3 INCHES OF TRUNKS OR STEMS.
     - 55.2.2. AROUND TREES IN TURF AREAS: APPLY MULCH RING OF 3 INCH AVERAGE THICKNESS, WITH 12 INCH RADIUS AROUND TRUNKS. DO NOT PLACE MULCH WITHIN 3 INCHES OF TRUNKS.
56. PLANT MAINTENANCE:
   - 56.1. MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, MULCHING, RESTORING PLANTING SAUCERS, ADJUSTING AND REPAIRING TREE-STABILIZATION DEVICES, RESETTING TO PROPER GRADES OR VERTICAL POSITION, AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS.
   - 56.2. FILL IN, AS NECESSARY, SOIL SUBSIDENCE THAT MAY OCCUR BECAUSE OF SETTLING OR OTHER PROCESSES. REPLACE MULCH MATERIALS DAMAGED OR LOST IN AREAS OF SUBSIDENCE.
   - 56.3. APPLY TREATMENTS AS REQUIRED TO KEEP PLANT MATERIALS, PLANTED AREAS, AND SOILS FREE OF PESTS AND PATHOGENS OR DISEASE. USE INTEGRATED PEST MANAGEMENT PRACTICES WHEN POSSIBLE TO MINIMIZE USE OF PESTICIDES AND REDUCE HAZARDS.
   - 56.4. MAINTENANCE SERVICE PERIOD FOR TREES AND SHRUBS: 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION.
   - 56.5. MAINTENANCE SERVICE PERIOD FOR PERENNIALS AND ORNAMENTAL GRASSES: 6 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION.
57. TURFGRASS SOD:
   - 57.1. COMPLYING WITH "SPECIFICATIONS FOR TURFGRASS SOD MATERIALS" IN TPI'S "GUIDELINE SPECIFICATIONS TO TURFGRASS SOD". FURNISH VIABLE SOD OF UNIFORM DENSITY, COLOR, AND TEXTURE THAT IS STRONGLY ROOTED AND CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED.
   - 57.2. TURFGRASS SPECIES: KENTUCKY BLUEGRASS MIXTURE CONTAINING 4 VARIETIES SUITABLE FOR LOCAL CLIMATE, EXPOSURE, DURABILITY, AND SOIL CONDITIONS.
     - 57.2.1. LARGE ROLLS SHALL BE UTILIZED FOR LARGE OPEN AREAS WHEN POSSIBLE.
   - 57.3. FERTILIZERS: SLOW-RELEASE GRANULAR OR PELLETED FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHORUS, AND POTASSIUM IN THE FOLLOWING COMPOSITION:
     - 57.3.1. 20 PERCENT NITROGEN, 10 PERCENT PHOSPHOROUS, AND 5 PERCENT POTASSIUM, BY WEIGHT PLUS MICRONUTRIENTS.
58. TURFGRASS AREA PREPARATION:
   - 58.1. REDUCE ELEVATION OF PLANTING SOIL TO ALLOW FOR SOIL THICKNESS OF SOD, WITH FINISH GRADE OF TURF TO BE ½ INCH BELOW SURFACE OF ADJACENT PAVEMENT.
   - 58.2. MOISTEN PREPARED AREAS BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE PLANTING. DO NOT CREATE MUDDY SOIL.
   - 58.3. BEFORE PLANTING, OBTAIN LANDSCAPE ARCHITECT'S ACCEPTANCE OF FINISH GRADING; RESTORE PLANTING AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.
59. SODDING:
   - 59.1. LAY SOD WITHIN 24 HOURS OF HARVESTING. DO NOT LAY SOD IF DORMANT OR IF GROUND IS FROZEN OR MUDDY.
   - 59.2. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD; DO NOT STRETCH OR OVERLAP. STAGGER SOD STRIPS OR PADS TO OFFSET JOINTS IN ADJACENT COURSES. AVOID DAMAGE TO SOIL OR SOD DURING INSTALLATION. TAMP AND ROLL LIGHTLY TO ENSURE CONTACT WITH SOIL, ELIMINATE AIR POCKETS, AND FORM A SMOOTH SURFACE. WORK SIFTED SOIL OR FINE SAND INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING SOD AND ADJACENT GRASS.
     - 59.2.1. LAY SOD ACROSS SLOPES EXCEEDING 1:3.
   - 59.3. SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. DURING FIRST WEEK AFTER PLANTING, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A MINIMUM DEPTH OF 1-1/2 INCHES BELOW SOD.
60. TURF MAINTENANCE:
   - 60.1. MAINTAIN AND ESTABLISH TURF BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING, AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE TURF. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS TO PRODUCE A UNIFORMLY SMOOTH TURF. PROVIDE MATERIALS AND INSTALLATION THE SAME AS THOSE USED IN THE ORIGINAL INSTALLATION.
   - 60.2. MOW TURF AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN ONE-THIRD OF GRASS HEIGHT. REMOVE NO MORE THAN ONE-THIRD OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS.
   - 60.3. MAINTENANCE SERVICE PERIOD FOR TURFGRASS SOD: 30 DAYS FROM DATE OF SUBSTANTIAL COMPLETION.
61. SATISFACTORY TURF:
   - 61.1. ENSURE AT END OF MAINTENANCE PERIOD, A HEALTHY, WELL-ROOTED, EVEN-COLORED, VIABLE TURF HAS BEEN ESTABLISHED, FREE OF WEEDS, OPEN JOINTS, BARE AREAS, AND SURFACE IRREGULARITIES.
   - 61.2. USE SPECIFIED MATERIALS TO REESTABLISH TURF THAT DOES NOT COMPLY WITH REQUIREMENTS, AND CONTINUE MAINTENANCE UNTIL TURF IS SATISFACTORY.

ORIGINAL SHEET - ARCH D

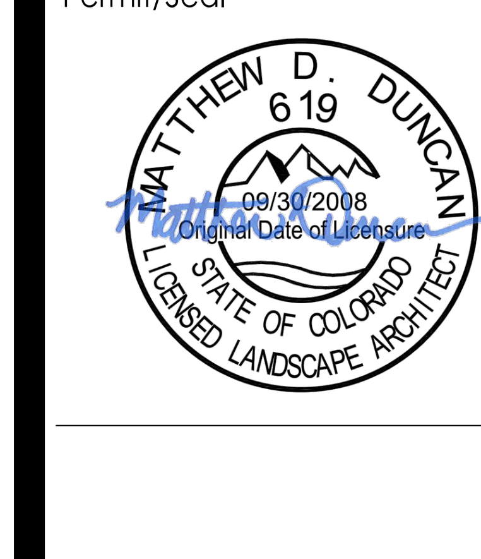
Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
ASI 1			2024.05.10
100% CD SET			2024.05.01

Permit/Seal



Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.: 2270481701
File Name:
Scale: N.T.S.

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
			2024.05.01

Title
PLANTING NOTES

Revision:
Drawing No.
LP-001

PLANTING SCHEDULE:

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	CONT	QTY
TREES					
	GIN AUT	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD MAIDENHAIR TREE	3" CAL	3
	GYM DIO	GYMNOCLADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEETREE	3" CAL	4
	PIS CHI	PISTACIA CHINENSIS	CHINESE PISTACHE	2" CAL	5
DECIDUOUS SHRUBS					
	BUD NAN	BUDDLEJA DAVIDII 'NANHO BLUE'	NANHO BLUE BUTTERFLY BUSH	5 GAL	9
EVERGREEN SHRUBS					
	PIN MUG	PINUS MUGO 'SLOWMOUND'	SLOWMOUND MUGO PINE	5 GAL	6
ORNAMENTAL GRASSES					
	CAL ACU	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	1 GAL	25
PERENNIALS					
	AGA CAN	AGASTACHE CANA 'SINNING'	SONORAN SUNSET® HUMMINGBIRD MINT	1 GAL	26
	ECH POW	ECHINACEA PURPUREA 'PAS702917'	POWWOW® WILD BERRY CONEFLOWER	1 GAL	30
	ECH SSR	ECHINACEA X 'BALSOMSED'	SOMBRERO® SALSA RED CONEFLOWER	1 GAL	29
	HEM RHR	HEMEROCALLIS X 'RED HOT RETURNS'	RED HOT RETURNS DAYLILY	1 GAL	24
	HEM ORO	HEMEROCALLIS X 'STELLA DE ORO'	STELLA DE ORO DAYLILY	1 GAL	23
	HIB LRD	HIBISCUS MOSCHEUTOS 'PAS537702'	LUNA RED™ ROSE MALLOW	1 GAL	8
	LAV HID	LAVANDULA ANGUSTIFOLIA 'HIDCOTE SUPERIOR'	HIDCOTE SUPERIOR ENGLISH LAVENDER	1 GAL	14
	LIA KOB	LIATRIS SPICATA 'KOBOLD'	KOBOLD BLAZING STAR	1 GAL	17
	PAE LAC	PAEONIA LACTIFLORA	CHINESE PEONY	1 GAL	7
	RUD GLD	RUDBECKIA FULGIDA SULLIVANTII 'GOLDSTURM'	GOLDSTURM CONEFLOWER	1 GAL	46
	SAL MAI	SALVIA NEMOROSA 'MAINACHT'	MAYNIGHT MEADOW SAGE	1 GAL	17
GROUND COVERS					
	TUR BLU	TURF SOD	KENTUCKY BLUEGRASS MIX	SOD, LARGE ROLL	16,075 SF

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

Revision | By | Appd | YYYY.MM.DD

Issued | By | Appd | YYYY.MM.DD
100% CD SET 2024.05.01
ASI 1 2024.05.10

Permit/Seal

MATTHEW D. DUNCAN 619
09/30/2008 Original Date of Licensure
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

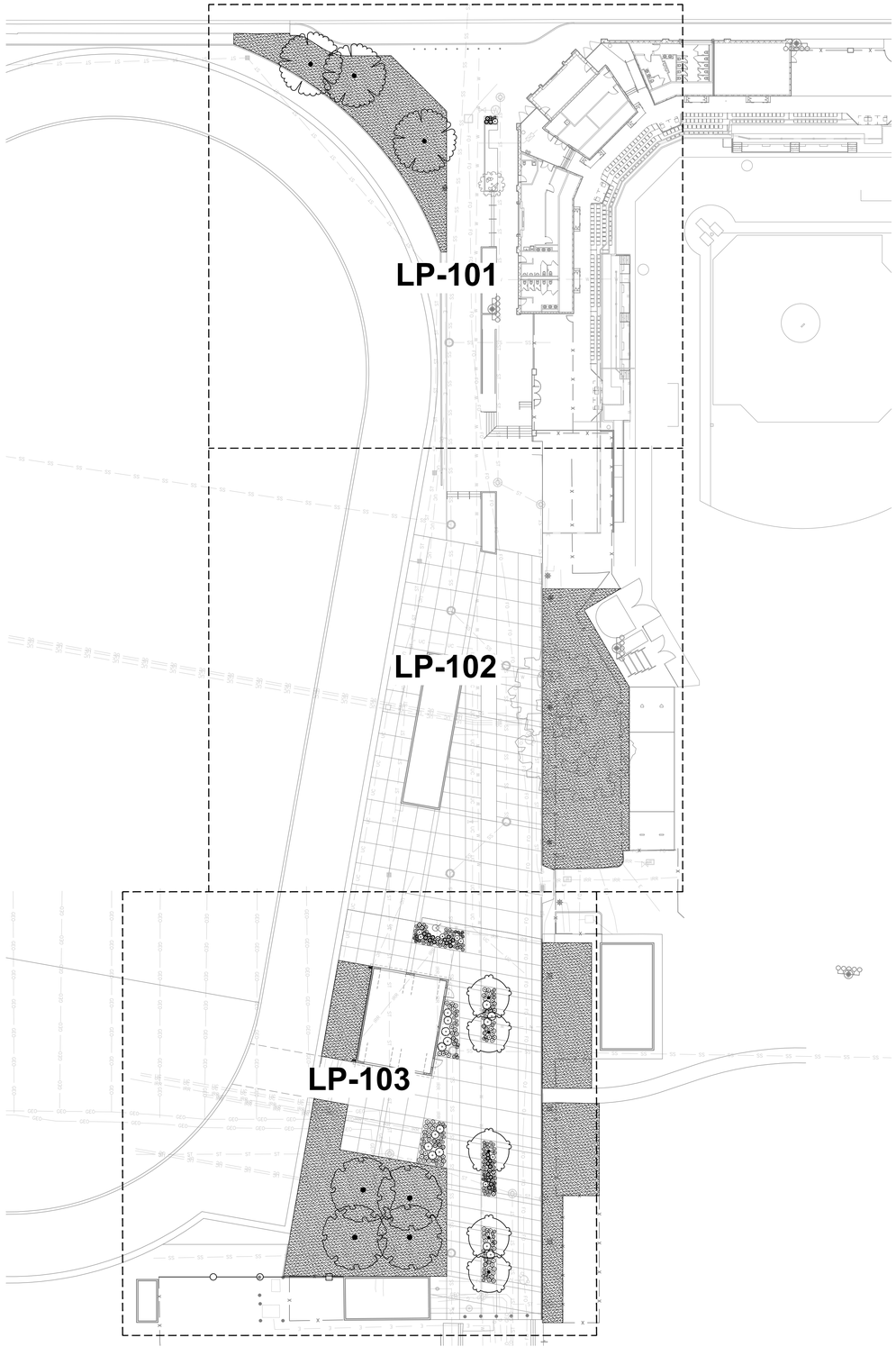
Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.: 2270481701
File Name:
Scale: N.T.S.
Dwn. Dsgn. Chkd. 2024.05.01 YYYY.MM.DD

Title
PLANTING SCHEDULES

Revision:
Drawing No.
LP-002

ORIGINAL SHEET - ARCH D



1 **OVERALL PLANTING PLAN**
1" = 30'-0"

N

0 30' 60'

ORIGINAL SHEET - ARCH D

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	100% CD SET	AS		2024.05.01
2	Issued			2024.05.10

Permit/Seal

MATTHEW D. DUNCAN
619
09/30/2008
Original Date of Issuance
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

Client/Project
Colorado Mesa University

CMU Bergman Promenade

1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701

File Name:

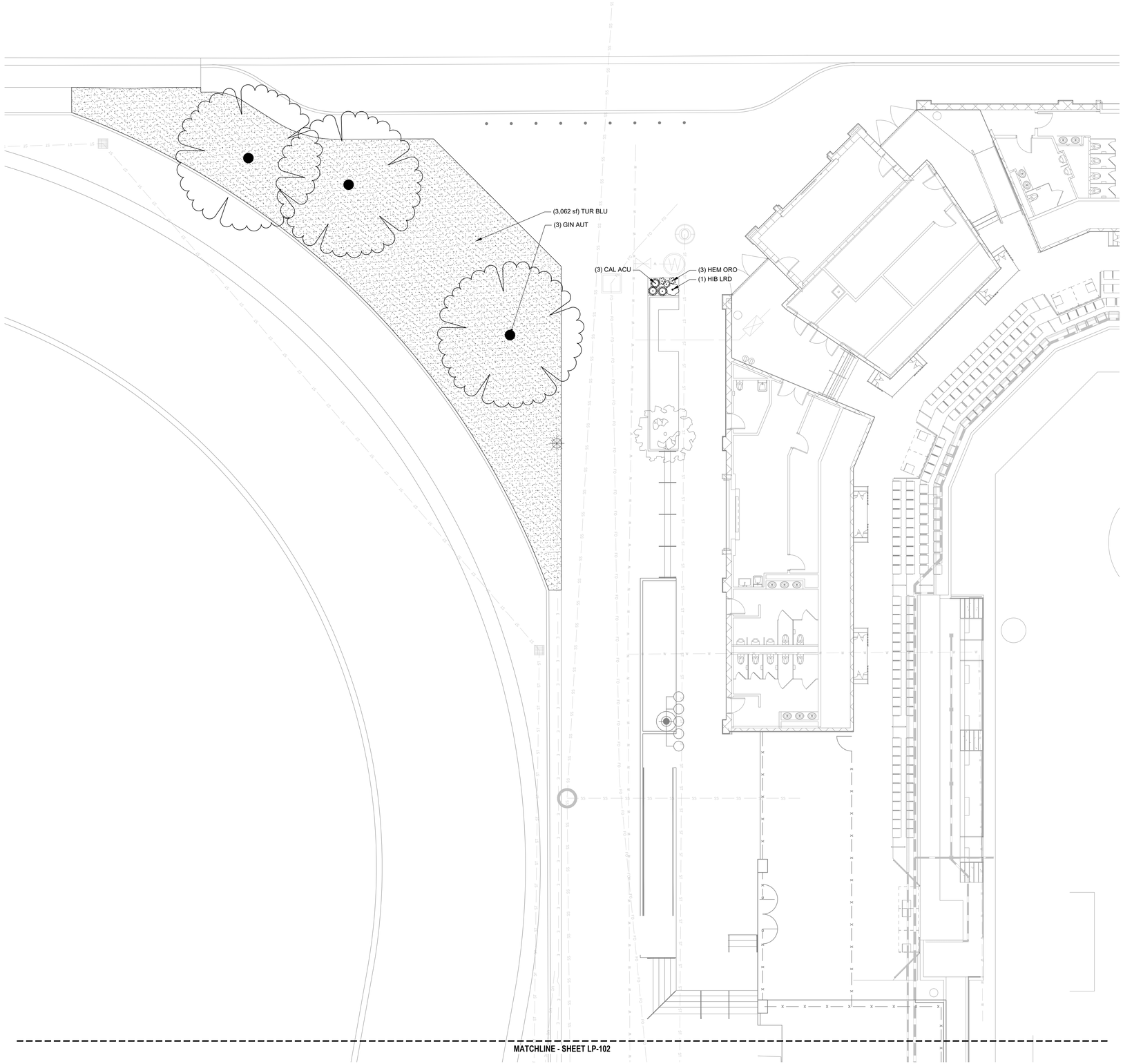
Scale:1" = 30'-0"

Dwn.	Dsgn.	Chkd.	2024.05.01 YYYY.MM.DD

Title
OVERALL PLANTING PLAN

Revision:

Drawing No.
LP-200



PLANTING LEGEND:

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	GIN AUT	GINKGO BILOBA 'AUTUMN GOLD' AUTUMN GOLD MAIDENHAIR TREE
	GYM DIO	GYMNOCLADUS DIOICUS 'ESPRESSO' KENTUCKY COFFEETREE
	PIS CHI	PISTACIA CHINENSIS CHINESE PISTACHE
DECIDUOUS SHRUBS		
	BUD NAN	BUDDLEJA DAVIDII 'NANHO BLUE' NANHO BLUE BUTTERFLY BUSH
EVERGREEN SHRUBS		
	PIN MUG	PINUS MUGO 'SLOWMOUND' SLOWMOUND MUGO PINE
ORNAMENTAL GRASSES		
	CAL ACU	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' KARL FOERSTER FEATHER REED GRASS
PERENNIALS		
	AGA CAN	AGASTACHE CANA 'SINNING' SONORAN SUNSET® HUMMINGBIRD MINT
	ECH POW	ECHINACEA PURPUREA 'PAS702917' POWWOW® WILD BERRY CONEFLOWER
	ECH SSR	ECHINACEA X 'BALSOMSED' SOMBRERO® SALSA RED CONEFLOWER
	HEM RHR	HEMEROCALLIS X 'RED HOT RETURNS' RED HOT RETURNS DAYLILY
	HEM ORO	HEMEROCALLIS X 'STELLA DE ORO' STELLA DE ORO DAYLILY
	HIB LRD	HIBISCUS MOSCHEUTOS 'PAS537702' LUNA RED™ ROSE MALLOW
	LAV HID	LAVANDULA ANGUSTIFOLIA 'HIDCOTE SUPERIOR' HIDCOTE SUPERIOR ENGLISH LAVENDER
	LIA KOB	LIATRIS SPICATA 'KOBOLD' KOBOLD BLAZING STAR
	PAE LAC	PAEONIA LACTIFLORA CHINESE PEONY
	RUD GLD	RUDBECKIA FULGIDA SULLIVANTII 'GOLDSTURM' GOLDSTURM CONEFLOWER
	SAL MAI	SALVIA NEMOROSA 'MAINACHT' MAYNIGHT MEADOW SAGE
GROUND COVERS		
	TUR BLU	TURF SOD KENTUCKY BLUEGRASS MIX

N

0 10' 20'

1 PLANTING PLAN
1" = 10'-0"

ORIGINAL SHEET - ARCH D

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

Revision	By	Appd	YYYY.MM.DD
ISSUED FOR CD SET	AG		2024.05.10
ISSUED	AG		2024.05.01

Permit/Seal

MATTHEW D. DUNCAN
619
09/30/2008
Original Date of Issue
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

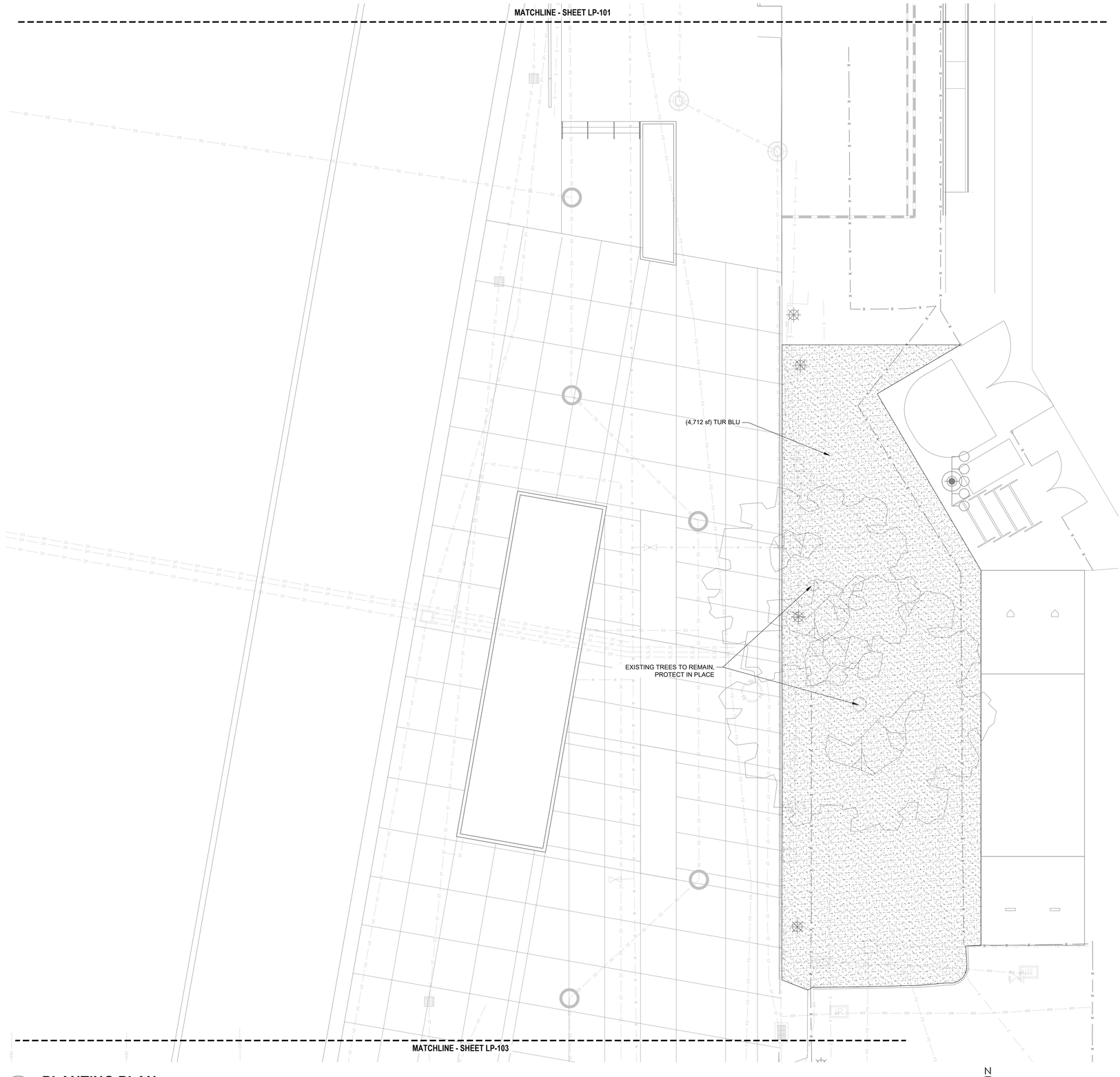
Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701
File Name:
Scale:1" = 10'-0"

Dwn.	Dsgn.	Chkd.	2024.05.01 YYYY.MM.DD

Title
PLANTING PLAN

Revision:
Drawing No.
LP-201



PLANTING LEGEND:

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	GIN AUT	GINKGO BILOBA 'AUTUMN GOLD' AUTUMN GOLD MAIDENHAIR TREE
	GYM DIO	GYMNOCLADUS DIOICUS 'ESPRESSO' KENTUCKY COFFEETREE
	PIS CHI	PISTACIA CHINENSIS CHINESE PISTACHE
DECIDUOUS SHRUBS		
	BUD NAN	BUDDLEJA DAVIDII 'NANHO BLUE' NANHO BLUE BUTTERFLY BUSH
EVERGREEN SHRUBS		
	PIN MUG	PINUS MUGO 'SLOWMOUND' SLOWMOUND MUGO PINE
ORNAMENTAL GRASSES		
	CAL ACU	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' KARL FOERSTER FEATHER REED GRASS
PERENNIALS		
	AGA CAN	AGASTACHE CANA 'SINNING' SONORAN SUNSET® HUMMINGBIRD MINT
	ECH POW	ECHINACEA PURPUREA 'PAS702917' POWWOW® WILD BERRY CONEFLOWER
	ECH SSR	ECHINACEA X 'BALSOMSED' SOMBRERO® SALSA RED CONEFLOWER
	HEM RHR	HEMEROCALLIS X 'RED HOT RETURNS' RED HOT RETURNS DAYLILY
	HEM ORO	HEMEROCALLIS X 'STELLA DE ORO' STELLA DE ORO DAYLILY
	HIB LRD	HIBISCUS MOSCHEUTOS 'PAS537702' LUNA RED™ ROSE MALLOW
	LAV HID	LAVANDULA ANGUSTIFOLIA 'HIDCOTE SUPERIOR' HIDCOTE SUPERIOR ENGLISH LAVENDER
	LIA KOB	LIATRIS SPICATA 'KOBOLD' KOBOLD BLAZING STAR
	PAE LAC	PAEONIA LACTIFLORA CHINESE PEONY
	RUD GLD	RUDBECKIA FULGIDA SULLIVANTII 'GOLDSTURM' GOLDSTURM CONEFLOWER
	SAL MAI	SALVIA NEMOROSA 'MAINACHT' MAYNIGHT MEADOW SAGE
GROUND COVERS		
	TUR BLU	TURF SOD KENTUCKY BLUEGRASS MIX

1 **PLANTING PLAN**
1" = 10'-0"

ORIGINAL SHEET - ARCH D

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	100% CD SET	AS		2024.05.10
2	Issued	AS		2024.05.01

Permit/Seal

MATTHEW D. DUNCAN 619 — 09/30/2008 — STATE OF COLORADO — LICENSED LANDSCAPE ARCHITECT

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701
File Name:
Scale:1" = 10'-0"

Dwn.	Dsgn.	Chkd.	2024.05.01 YYYY.MM.DD

Title
PLANTING PLAN

Revision:
Drawing No.
LP-202

MATCHLINE - SHEET LP-102

(2) PAE LAC
(3) ECH SSR
(4) LIA KOB
(2) PAE LAC
(1) HIB LRD
(7) ECH SSR
(5) HEM ORO
(2) HIB LRD
(6) HEM ORO
(2) HIB LRD
(7) SAL MAI
(2) ECH SSR
(6) CAL ACU
(3) LIA KOB
(6) CAL ACU
(4) ECH SSR

(5) RUD GLD
(5) ECH POW
(5) HEM RHR
(5) AGA CAN
(2) BUD NAN
(1) PIN MUG
(2) AGA CAN
(3) LAV HID
(5) RUD GLD
(3) ECH POW
(2) PIN MUG
(727 sf) TUR BLU
(4) AGA CAN
(3) BUD NAN
(4) HEM RHR
(3) LAV HID
(2) PIS CHI
(6) RUD GLD
(2) ECH POW
(3) ECH POW
(4) RUD GLD

(1,548 sf) TUR BLU

(7) RUD GLD
(4) HEM RHR
(4) AGA CAN
(3) ECH POW
(2) PIN MUG
(5) AGA CAN
(5) LAV HID
(1,701 sf) TUR BLU
(3) BUD NAN
(7) RUD GLD
(7) SAL MAI
(6) ECH SSR
(1) PIS CHI
(5) CAL ACU
(1) HIB LRD
(4) GYM DIO
(4,325 sf) TUR BLU
(3) SAL MAI
(2) PAE LAC
(5) CAL ACU
(4) HEM RHR
(3) ECH POW
(3) LIA KOB
(7) LIA KOB
(5) HEM ORO
(4) HEM ORO
(1) PAE LAC
(1) HIB LRD
(7) ECH SSR
(7) RUD GLD
(3) ECH POW
(4) HEM RHR
(1) PIN MUG
(3) AGA CAN
(1) BUD NAN
(3) LAV HID
(5) RUD GLD
(3) AGA CAN
(2) PIS CHI
(5) ECH POW
(3) HEM RHR

N
0 10' 20'

1 PLANTING PLAN
1" = 10'-0"

PLANTING LEGEND:

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	GIN AUT	GINKGO BILOBA 'AUTUMN GOLD' AUTUMN GOLD MAIDENHAIR TREE
	GYM DIO	GYMNOCLADUS DIOICUS 'ESPRESSO' KENTUCKY COFFEETREE
	PIS CHI	PISTACIA CHINENSIS CHINESE PISTACHE
DECIDUOUS SHRUBS		
	BUD NAN	BUDDLEJA DAVIDII 'NANHO BLUE' NANHO BLUE BUTTERFLY BUSH
EVERGREEN SHRUBS		
	PIN MUG	PINUS MUGO 'SLOWMOUND' SLOWMOUND MUGO PINE
ORNAMENTAL GRASSES		
	CAL ACU	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' KARL FOERSTER FEATHER REED GRASS
PERENNIALS		
	AGA CAN	AGASTACHE CANA 'SINNING' SONORAN SUNSET® HUMMINGBIRD MINT
	ECH POW	ECHINACEA PURPUREA 'PAS702917' POWWOW® WILD BERRY CONEFLOWER
	ECH SSR	ECHINACEA X 'BALSOMSED' SOMBRERO® SALSA RED CONEFLOWER
	HEM RHR	HEMEROCALLIS X 'RED HOT RETURNS' RED HOT RETURNS DAYLILY
	HEM ORO	HEMEROCALLIS X 'STELLA DE ORO' STELLA DE ORO DAYLILY
	HIB LRD	HIBISCUS MOSCHEUTOS 'PAS537702' LUNA RED™ ROSE MALLOW
	LAV HID	LAVANDULA ANGUSTIFOLIA 'HIDCOTE SUPERIOR' HIDCOTE SUPERIOR ENGLISH LAVENDER
	LIA KOB	LIATRIS SPICATA 'KOBOLD' KOBOLD BLAZING STAR
	PAE LAC	PAEONIA LACTIFLORA CHINESE PEONY
	RUD GLD	RUDBECKIA FULGIDA SULLIVANTII 'GOLDSTURM' GOLDSTURM CONEFLOWER
	SAL MAI	SALVIA NEMOROSA 'MAINACHT' MAYNIGHT MEADOW SAGE
GROUND COVERS		
	TUR BLU	TURF SOD KENTUCKY BLUEGRASS MIX

ORIGINAL SHEET - ARCH D

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	ISSUED AS 100% CD SET	AS		2024.05.01
2				2024.05.10

Permit/Seal

MATTHEW D. DUNCAN
619
09/30/2008
Original Date of Licensure
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

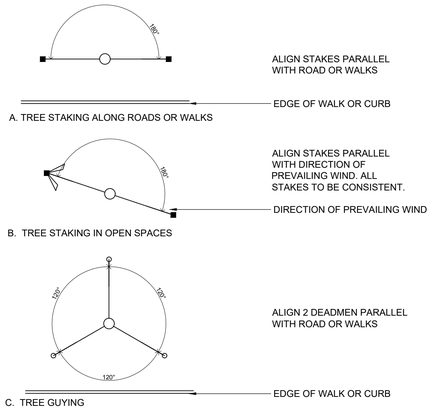
Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701
File Name:
Scale:1" = 10'-0"

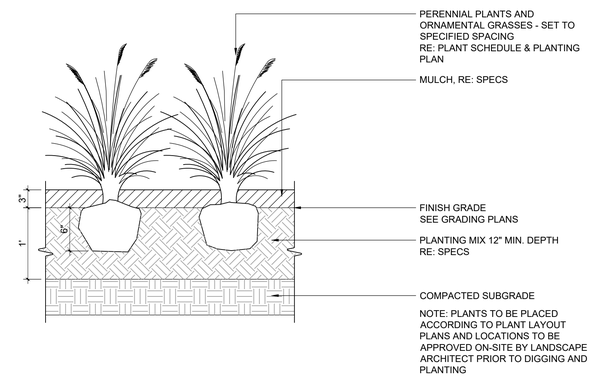
Dwn.	Dsgn.	Chkd.	2024.05.01 YYYY.MM.DD

Title
PLANTING PLAN

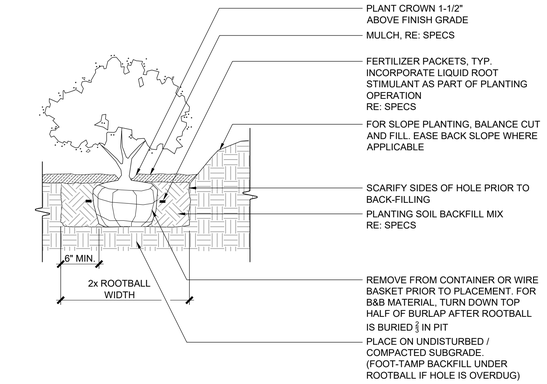
Revision:
Drawing No.
LP-203



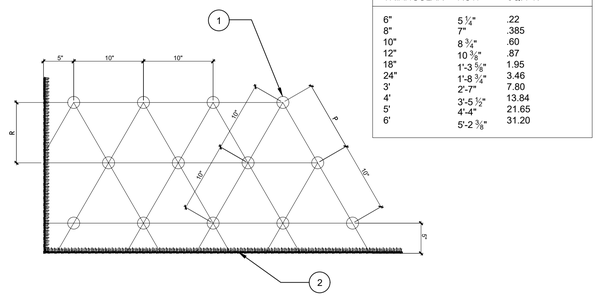
G TYPICAL TREE STAKING & GUYING
SCALE: 3/4" = 1'-0"



D ORNAMENTAL GRASS/PERENNIAL PLANTING
SCALE: 1" = 1'-0"



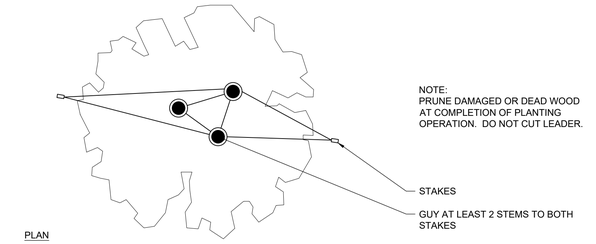
B SHRUB PLANTING
SCALE: 1/2" = 1'-0"

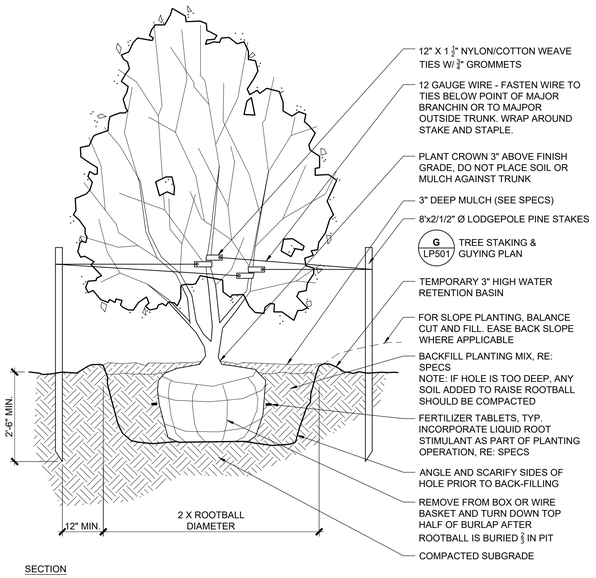


(P) TRIANGULAR	(R) ROW	AREA PER PLANT SQ. FT.
6"	5 ¼"	.22
8"	7"	.385
10"	8 ¾"	.60
12"	10 ⅜"	.87
18"	1'-3 ⅝"	1.95
24"	1'-8 ¾"	3.46
3'	2'-7"	7.80
4'	3'-5 ½"	13.84
5'	4'-4"	21.65
6'	5'-2 ⅜"	31.20

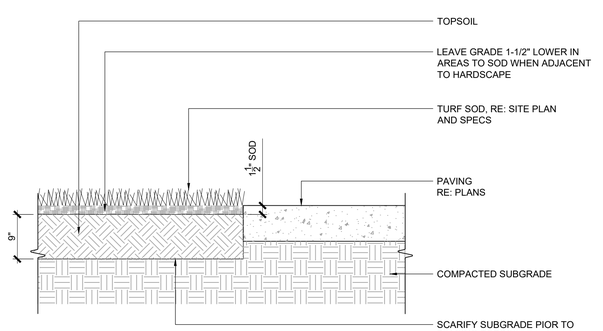
1. FOR TRIANGULAR SPACING OF SHRUBS, ORNAMENTAL GRASSES, ANNUALS, PERENNIALS AND GROUNDCOVERS, SEE PLANT SCHEDULE FOR SPACING.
2. EDGE OF PAVING, WALL, PLANTER BED, OR METAL LANDSCAPE BORDER - SEE PLAN.

F TRIANGULAR SPACING FOR SHRUBS & GROUNDCOVER
SCALE: 3/4" = 1'-0"

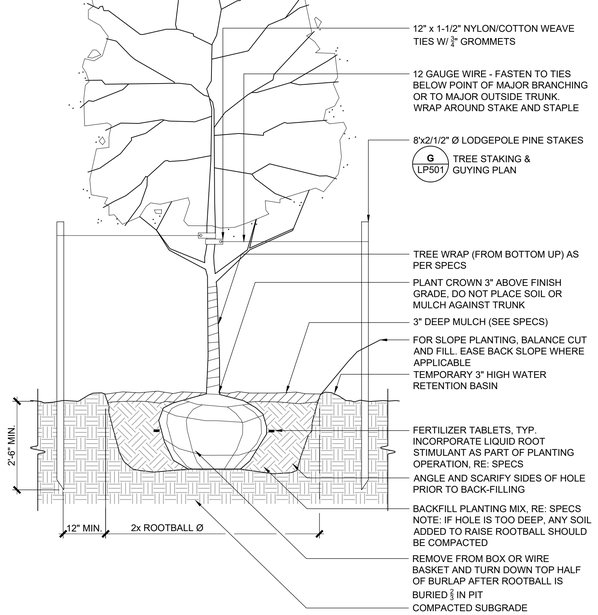




C MULTI-TRUNK TREE PLANTING
SCALE: 1/2" = 1'-0"



E TURFGRASS SOD
SCALE: 1" = 1'-0"



A DECIDUOUS TREE PLANTING
SCALE: 1/2" = 1'-0"

ORIGINAL SHEET - ARCH D

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

Revision	By	Appd	YYYY.MM.DD
2024.05.10			
2024.05.01			

Issued	By	Appd	YYYY.MM.DD
100% CD SET	AS		2024.05.01

Permit/Seal

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701
File Name:
Scale:N.T.S.

Dwn.	Dsgn.	Chkd.	2024.05.01 YYYY.MM.DD

Title
PLANTING DETAILS

Revision:
Drawing No.
LP-501

GENERAL NOTES

VIII. ANCHOR RODS

1. ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 WITH CLASS 1A THREADS, UNLESS NOTED OTHERWISE. FURNISH ANCHOR RODS PREFABRICATED WITH MATCHING DOUBLE HEAVY HEX NUTS JAMMED AT THE END EMBEDDED IN CONCRETE. FURNISH HARDENED PLATE WASHERS, LOCK WASHERS, AND MATCHING HEAVY HEX NUTS FOR SECURING THE BASE PLATE TO THE ANCHOR RODS. A RIGID STEEL TEMPLATE SHALL BE USED TO LOCATE ANCHOR RODS WHILE PLACING CONCRETE.
2. HOOKED ANCHOR RODS SHALL NOT BE USED EXCEPT WHERE NOTED.
3. ANCHOR RODS SHALL HAVE SUFFICIENT LENGTH TO PROVIDE THE MINIMUM EMBEDMENT SHOWN ON THE DRAWINGS, MEASURED FROM THE FACE OF THE CONCRETE TO THE NEAR FACE OF THE DOUBLE NUT, WITH ADEQUATE EXTENSION AS REQUIRED TO RECEIVE THE BASE PLATE WITH FULL THREAD PROJECTION FOR NUT INSTALLATION.
4. ANCHOR ROD INSTALLATION SHALL BE COORDINATED WITH REINFORCING AND FRAMEWORK.
5. LEVELING NUTS SHALL NOT BE USED EXCEPT AFTER EVALUATION BY THE CONTRACTOR'S ERECTION ENGINEER.
6. AFTER BASE INSTALLATION, ANCHOR ROD NUTS SHALL BE INSTALLED TO A SNUG-TIGHT CONDITION.
7. NO HEATING OR BENDING OF THE ANCHOR RODS IS PERMITTED. HOLES IN THE BASE MATERIAL SHALL NOT BE ENLARGED BY BURNING.

IX. STEEL ROOF DECK:

1. THE STEEL DECK SHALL BE OF DEPTH AND GAUGE SHOWN ON THE STRUCTURAL DRAWINGS. STEEL DECK SIZE HAS BEEN SPECIFIED BASED ON 3-SPAN DESIGN VALUES, CONTRACTOR SHALL REVIEW ACTUAL SPAN CONDITIONS FOR ALL DECK LAYOUTS WHEN DESIGNING SHORING. ALL ROOF DECK AND ACCESSORIES SHALL BE GALVANIZED CONFORMING TO ASTM A653 WITH A MINIMUM YIELD STERNGTH OF 38 ksi. GALVANIZED DECK SHALL BE ZINC COATED ASTM A653-G60. FOR DECK EXPOSED TO WEATHER USE G90. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3.
2. MINIMUM BEARING ON STEEL DECK ON SUPPORTS SHALL BE 2". ALL 3" STEEL DECK SHALL HAVE MINIMUM BEARING OF 3". NONCOMPOSITE UNITS SHALL BE FASTENED AS NOTED ON THE PLANS, AT MINIMUM CONNECT THE STEEL SUPPORTS AT THE ENDS OF THE UNITS AND AT INTERMEDIATE SUPPORTS BY A MINIMUM OF FOUR CONNECTIONS PER 3'-0" OF WIDTH. WHERE TWO UNITS ABUT, EACH UNIT SHALL BE SO FASTENED TO THE STEEL FRAMING. THE SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED BETWEEN SUPPORTS BY CONNECTIONS AT A MAXIMUM SPACING OF 1'-0" ON CENTER UNLESS NOTED OTHERWISE. DECK UNITS SHALL BE CONNECTED TO THE STEEL SUPPORTS AT THE SIDE BOUNDARIES AT A MAXIMUM SPACING OF 1'-0" ON CENTER. ALL WELDS ON STEEL DECK EXPOSED TO WEATHER SHALL BE DE-SLAGGED, CLEANED, AND TOUCHED-UP WITH A ZINC RICH PRIMER.
3. WHERE STEEL MEMBERS ARE PARALLEL TO THE DECK FLUTES AND AT THE SAME ELEVATION OF THE BOTTOM OF THE DECK, ADJUST DECK LAYOUT AND WELD DECK TO STEEL WITH SAME WELDING AS REQUIRED FOR SIDE BOUNDARIES.
4. HANGERS SUPPORTED BY METAL DECKING ONLY OR METAL DECKING WITH INSULATED FILL SHALL BE ATTACHED TO STEEL BARS, 3/8" ROUND x 12" OR 1 1/2" SQUARE x 12" FLAT, PLACED PERPENDICULAR TO FLUTES. ONLY LIGHT DUCTWORK (12"x16" MAX), PIPING (1 1/2" ROUND PIPING MAX) OR CEILINGS MAY BE HUNG FROM SUCH INSTALLATIONS. HANGERS MUST BE TWO FLUTES APART WHERE THEY OCCUR ON THE SAME DECK SPAN.
5. STEEL DECK TYPES SHALL BE AS FOLLOWS: ROOF DECK - VERCO TYPE HSB-36, VULCRAFT 1.5B, OR APPROVED EQUAL.
6. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC. FOR SIZES AND LOCATIONS OF OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS. SEE TYPICAL DETAILS FOR FRAMING SUPPORT AT DECK OPENINGS.
7. THE STEEL DECK FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL DECK FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION.

X. OPEN WEB STEEL JOISTS:

1. ALL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. ALL WELDING PER AMERICAN WELDING SOCIETY (AWS) STANDARDS. COMPLIANCE WITH AWS STANDARDS MAY BE WAIVED IF ALL WELDS ARE INSPECTED BY AN INDEPENDENT TESTING LABORATORY.
2. HORIZONTAL & DIAGONAL BRIDGING SHALL BE PROVIDED BY JOIST MANUFACTURER IN ACCORDANCE WITH SJI STANDARDS. LOCATION AND TYPE OF BRIDGING SHALL BE CLEARLY INDICATED ON THE SHOP DRAWING, AND SHALL NOT CONFLICT W/OPENING LOCATIONS.
3. WHERE AIR DUCTS OR OTHER EQUIPMENT INTERRUPTS HORIZONTAL BRIDGING, SUPPLY DIAGONAL BRIDGING IN BAYS ADJACENT TO INTERRUPTED BAY. CONTRACTOR TO COORDINATE LOCATIONS WITH MECHANICAL PRIOR TO FABRICATION.
4. BOTTOM CHORDS OF JOISTS IN LINE WITH COLUMNS ARE TO BE EXTENDED AS DETAILED.
5. JOIST MANUFACTURER SHALL DESIGN JOISTS FOR THE "DESIGN LOADS" IN THE GENERAL NOTES, AND FOR ANY ADDITIONAL LOADS AT LOCATIONS AS SHOWN ON THE PLANS, INCLUDING A NET UNFACTORED WIND UPLIFT LOAD NORMAL TO THE SURFACE OF THE ROOF PER THE LOAD DIAGRAMS.
6. JOIST MANUFACTURER SHALL DESIGN AND SUBMIT CALCULATIONS BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED FOR ALL JOISTS AND JOIST GIRDERS. CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS. JOISTS SHALL BE DESIGNED TO RESIST THE LOAD COMBINATIONS SPECIFIED IN IBC, SECTION 1605. LIVE LOAD DEFLECTIONS SHALL BE LIMITED TO SPAN/360 AT SIMPLE SPAN FLOOR MEMBERS, 2X SPAN/360 AT CANTILEVER FLOOR MEMBERS, SPAN/240 AT SIMPLE SPAN ROOF MEMBERS AND 2X SPAN /240 AT CANTILEVER ROOF MEMBERS. ALL JOIST AND JOIST GIRDERS SHALL BE CAMBERED FOR THE DESIGN DEAD LOAD. TO ACCOUNT FOR ADDITIONAL CONTRACTED LOADS, MANUFACTURER SHALL ADD ADDITIONAL WEB MEMBERS AS REQUIRED AND ADJUST CHORD AND WEB SIZE ACCORDINGLY, BUT SHALL NOT ALTER DEPTH OF JOISTS. MANUFACTURER SHALL DESIGN AND SUBMIT CALCULATIONS FOR ALL JOIST SHOES WHERE BEARING LENGTH IS LESS THAN 4" AT LH SERIES JOISTS OR 2 1/2" FOR K SERIES JOISTS.
7. JOISTS ADJACENT TO STRUCTURAL STEEL MEMBERS SHALL BE DESIGNED TO HAVE ZERO CAMBER.
8. ALL CONCENTRATED LOADS TO STEEL JOISTS SHALL OCCUR WITHIN 6" OF PANEL POINT.
9. DO NOT PLACE LOADS ON JOISTS OR GIRDERS UNTIL BRIDGING IS INSTALLED AND BEARING CONNECTIONS HAVE BEEN INSTALLED.
10. STEEL JOIST AND GIRDER SHOES SHALL BE FABRICATED IN COORDINATION WITH THE ROOF SLOPE.

V. CONCRETE JOINTS (CONT.):

2. SLAB ON GRADE CONTRACTION JOINTS SHALL BE PROVIDED TO CONTROL THE CRACKING PATTERNS AT LOCATIONS INDICATED, OR AS APPROVED BY THE ARCHITECT.
3. LOCATE JOINTS AT COLUMN LINES WHERE APPLICABLE, WITH SPACING NOT TO EXCEED 15-FEET AND RATIO OF LONG TO SHORT SIDE OR POUR NOT TO EXCEED 1.5. MAXIMUM RECTANGULAR SLAB AREA CONTROLLED BY JOINTING NOT TO EXCEED 225 SQUARE-FEET. CONTRACTOR OPTION TO FORM EITHER SAWCUT OR TOOLED JOINTS.
4. WALL CONTRACTION JOINTS SHALL BE PROVIDED TO CONTROL THE CRACKING PATTERNS AT LOCATIONS INDICATED, OR AS APPROVED BY THE ARCHITECT.
   A. LOCATE JOINTS AT COLUMN LINES WHERE APPLICABLE, WITH SPACING NOT TO EXCEED TWICE THE WALL HEIGHT OR 20-FEET AND PREFERABLY MATCHES LAYOUT OF SLAB JOINTING.
   B. FORM CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF CONCRETE WALL THICKNESS BY ATTACHING 1/2"- WIDE BEVELLED WOOD STRIPS TO INSIDE OF BOTH SIDES OF CONCRETE FORM.

VI. REINFORCING STEEL

1. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
2. REINFORCING STEEL FOR CAST-IN-PLACE NONPRESTRESSED CONCRETE MEMBERS SHALL HAVE THE FOLLOWING CONCRETE COVER, SEE ACI 117 FOR TOLERANCES.

A. CONCRETE EXPOSED TO EARTH OR IN CONTACT WITH GROUND:	
a. CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH	3"
b. EXPOSED TO WEATHER OR IN CONTACT WITH EARTH (#5 AND SMALLER)	1-1/2"
c. EXPOSED TO WEATHER OR IN CONTACT WITH EARTH (#6 AND LARGER)	2"
d. DEEP FOUNDATIONS (PILES)	
B. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
a. SLABS, JOISTS AND WALLS (#11 AND SMALLER)	3/4"
b. SLABS, JOISTS AND WALLS (#14 AND LARGER)	1-1/2"
c. BEAMS, COLUMNS AND PEDESTALS	1-1/2"

3. BAR SPLICES MAY BE DELETED AND CONTINUOUS REINFORCING USED AT CONTRACTORS OPTION. BAR SPLICES SHALL BE MADE AT POINTS OF MINIMUM STRESS. IN FRAMED BEAMS AND SLABS SPLICE TOP BARS AT MID-SPAN, BOTTOM BARS OVER SUPPORTS.
4. STEEL REINFORCEMENT SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR IN ACCORDANCE WITH ACI 315: "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT", AND SHALL INDICATE:
   A. MATERIAL AND GRADE
   B. BAR SCHEDULES WITH BAR LENGTHS AND BENT BAR DIAGRAMS
   C. ARRANGEMENT, SPACING, COVER, LAP LOCATIONS AND LENGTHS
   D. SPLICE DETAILS FOR MECHANICAL SPLICES
   E. SUPPORTS FOR CONCRETE REINFORCEMENT
   F. SPECIAL REINFORCEMENT AT OPENINGS
5. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH ACI 318 AND THE 'MANUAL OF STANDARD PRACTICE' BY CRSI AS MODIFIED BY THE CONTRACT DOCUMENTS.
6. FIELD BENDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT SEOR APPROVAL. ALL REINFORCING BENDS SHALL BE MADE COLD.
7. WHEN MULTIPLE GRADES OF REINFORCEMENT ARE USED, MARK ALL BARS SO IDENTIFICATION CAN BE MADE DURING IN-PLACE INSPECTION.
8. WELDED REINFORCING STEEL SHALL COMPLY WITH ASTM A706, GRADE 60. REINFORCEMENT SHALL ONLY BE WELDED WHERE SPECIFICALLY NOTED ON THE DRAWINGS. WELDING SHALL CONFORM TO AWS D1.4 USING E90XX ELECTRODES.
9. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064 (PLAIN & DEFORMED WIRE). F_y = 70 000PSI. LAP WELDED WIRE REINFORCEMENT BY 6" OR ONE AND A HALF FULL MESHES, WHICHEVER IS GREATER.
10. EPOXY COATED REINFORCEMENT (ASTM A775 (STRAIGHT BARS), ASTM A934 (BENT BARS)) SHALL BE USED WHERE PERMANENTLY EXPOSED TO WATER, DEICING SALTS AND WHERE NOTED IN THE CONTRACT DOCUMENTS.
11. SPECIAL CONCRETE MOMENT FRAMES AND BOUNDARY ZONES IN SPECIAL CONCRETE SHEAR WALLS: ACTUAL YIELD STRENGTH BASED ON MILL TESTS SHALL NOT EXCEED SPECIFIED STRENGTH BY MORE THAN 18 ksi (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN 3 ksi). THE RATIO OF ACTUAL ULTIMATE TENSILE STRESS TO ACTUAL YIELD STRENGTH SHALL NOT BE LESS THAN 1.25.

VII. STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC 360
2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
   A. ANGLES AND CHANNELS: ASTM A36 (FY = 36 KSI)
   B. PLATES, BARS: ASTM A36 (FY = 36 KSI)
   C. RECTANGULAR HSS: ASTM A500 GRADE B (FY=46 KSI)
3. TOP OF STEEL ELEVATION SHALL BE AT BOTTOM OF DECK, UNLESS NOTED OTHERWISE.
4. WHERE A MEMBER IS INDICATED AS BENT, FACETTED OR CRANKED, ENSURE FULL MEMBER CAPACITY IS PROVIDED THROUGH JOINT. MEMBER SPLICES SHALL ALSO HAVE FULL MEMBER CAPACITY UNLESS OTHERWISE NOTED.
5. FIELD CUTTING OR DRILLING STRUCTURAL STEEL IS STRICTLY PROHIBITED WITHOUT PRIOR REVIEW AND APPROVAL BY SEOR. ALL HOLES AND CUTS SHALL BE PERFORMED IN THE SHOP AS IDENTIFIED ON STRUCTURAL DRAWINGS OR SHOP DRAWINGS.
6. ANCHOR STUDS, SHEAR STUDS, AND DEFORMED ANCHORS.
   A. WELDED STUDS (HEADED OR THREADED) SHALL BE ASTM A108, MINIMUM DIAMETER SHALL BE 3/4" UNLESS NOTED OTHERWISE.
   B. DEFORMED ANCHORS SHALL BE ASTM A496
   C. STUDS AND ANCHORS SHALL BE WELDED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS
7. WELDED CONNECTIONS:
   A. ALL WELDS SHALL CONFORM TO AWS D1.1. WELDING ELECTRODES SHALL BE CLASS E70XX.
   B. MINIMUM FILLET WELD SIZE SHALL BE 1/4" UNLESS NOTED OTHERWISE.
   C. WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS, REFER TO SPECIFICATIONS.
   D. WHERE FIELD WELDING IS SPECIFICALLY NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY. THE CONTRACTOR SHALL DETERMINE SUITABILITY OF SHOP OR FIELD WELDING FOR ALL CONDITIONS. ALL BOLTED CONNECTIONS MUST BE IN ADDITION TO THESE REQUIREMENTS.
   E. WELD LENGTHS SPECIFIED ON PLANS ARE THE NET EFFECTIVE LENGTH. WELD SIZE SHALL BE AISC MINIMUM UON AS LARGER WELD.
   F. ALL CJP WELDS SHALL BE MADE WITH FILLER METAL WITH A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F. NDT AND INSPECTIONS PER THE 'STRUCTURAL TESTING AND INSPECTIONS' SHEET.
   G. CONTRACTOR TO PROVIDE WELDING PROCEDURE SPECIFICATION FOR REVIEW AND APPROVAL BY SEOR.
8. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. NO FABRICATION OF STEEL SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.
9. STEEL FINISHES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE IN ARCHITECTURAL SPECIFICATIONS:
   A. INTERIOR TO RECEIVE ENCASEMENT OR SPRAY-ON FIREPROOFING: NONE
   B. INTERIOR TO RECEIVE FINISH PAINT: REFER TO SPECIFICATIONS
   C. EXTERIOR: HOT-DIPPED GALVANIZED COATING CONFORMING TO ASTM A123 OR HIGH-PERFORMANCE COATING AT CONDITIONS AS IDENTIFIED IN SPECIFICATIONS.
10. FIREPROOFING: REFER TO ARCHITECTURAL PLANS FOR MINIMUM HOURLY VALUES OF STEEL FIRE PROTECTION FOR DETERMINING THE THICKNESS OF SPRAY APPLIED FIREROOFING. THE STRUCTURAL FRAME CONSISTS OF COLUMNS AND GIRDERS, BEAMS, TRUSSES, AND SPANDRELS HAVING DIRECT CONNECTIONS TO THE COLUMNS AND BRACING MEMBERS DESIGNED TO CARRY GRAVITY LOADS. FLOOR OR ROOF MEMBERS THAT HAVE NO CONNECTION TO COLUMNS SHALL BE CONSIDERED SECONDARY MEMBERS.
11. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS). IN GENERAL, AESS IS NOT DESIGNATED ON THE STRUCTURAL DRAWINGS.
12. CONTRACTOR SHALL HOLD A PRE-DETAILING CONFERENCE TO DEFINE THE FOLLOWING:
   A. STEEL COLUMN LENGTH ADJUSTMENT FOR ELASTIC SHORTENING EFFECTS.
   B. STEEL TRUSS CAMBERING.
   C. ELEMENTS AFFECTED BY STEEL ERECTION PROCEDURE, SUCH AS MEMBER SIZES, CONNECTIONS, SPLICES, BASE PLATES, ANCHOR BOLTS, ROCK ANCHORS, ETC.
   D. ERECTION PROCEDURES AND SEQUENCES WITH REGARD TO TEMPERATURE EFFECTS.

III. FOUNDATIONS:

1. FOUNDATION DESIGN CRITERIA ARE BASED ON THE HUDDLESTON-BERRY, LLC AUGUST 20, 2019 #00569-0043. COPIES ARE AVAILABLE FOR REVIEW AT THE ARCHITECT'S OFFICE.
2. FOOTINGS ARE DESIGNED BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF. THE ALLOWABLE BEARING MAY BE INCREASED BY ONE THIRD FOR WIND OR SEISMIC.
3. SOIL PREPARATION OF THE SITE SHALL FOLLOW THE RECOMMENDATIONS DESCRIBED IN THE GEOTECHNICAL REPORT. THIS INCLUDES REMOVAL OF EXISTING STRUCTURES/UTILITIES, REMOVAL OF EXISTING FILL WHERE DEEMED NECESSARY, PREPARATION OF THE SUBGRADE & COMPACTION, EXCAVATIONS FOR NEW FOUNDATIONS & SLABS, AND BACKFILLING TO RETAINING WALLS.
4. WHERE SOIL CONDITIONS ARE FOUND DURING CONSTRUCTION THAT DO NOT MEET CRITERIA DESCRIBED IN THE REPORT, SPECIAL INSPECTOR/CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY.
5. LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION OF FOUNDATION TO AVOID ANY INTERFERENCE. CONTRACTOR SHALL EXPOSE EXISTING UTILITY LINES IN THE IMMEDIATE AREA TO DETERMINE THEIR EXACT INVERT ELEVATION, SIZE AND LOCATION RELATIVE TO THE FOUNDATION. NOTIFY THE ENGINEER IMMEDIATELY OF ANY INTERFERENCE WITH PILES, FOOTINGS OR FOUNDATION WALLS.
6. CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, AND SEEPAGE. WATER SHALL NOT BE ALLOWED TO STAND IN TRENCHES OR FORMS BEFORE OR AFTER CONCRETE IS PLACED, AND SHALL BE PUMPED OUT. IF BOTTOMS OF TRENCHES BECOME SOFTENED DUE TO RAIN OR OTHER WATER BEFORE FOUNDATIONS ARE CAST, THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, EXCAVATE THE SOFTENED MATERIAL AND REPLACE WITH CONCRETE.
7. CONTRACTOR SHALL PROVIDE FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN THE EARTH BANKS AND ANY EXISTING STRUCTURE.
8. EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING OF CONCRETE AND REINFORCING. CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER.
9. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGNS, PERMITS AND INSTALLATION OF BRACING AND PROTECTION.

IV. REINFORCED CONCRETE:

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318 AND ACI 301 WITH MODIFICATIONS AS NOTED ON THE CONTRACT DOCUMENTS.
2. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND BEAR THE WET SEAL OF A CIVIL ENGINEER LICENSED IN THE STATE OF THE PROJECT AND BE PROVIDED TO THE SEOR FOR REVIEW. EACH MIX DESIGN SHALL BEAR THE NAME OF THE PROJECT AND THE SPECIFIC USE.
3. CONCRETE MODULUS OF ELASTICITY SHALL MEET THE MINIMUM PROVIDED IN ACI 318 SECTION 19.2.2 FOR THE 28-DAY STRENGTH SPECIFIED BELOW. TEST SHALL BE IN ACCORDANCE WITH ASTM C469.
4. CONCRETE SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS.

LOCATION	STRENGTH, f'c	CONCRETE TYPE
A. SLAB ON GRADE	4,500 PSI	NORMAL WEIGHT
B. FOUNDATIONS	4,000 PSI	NORMAL WEIGHT
C. ALL LOCATIONS UON	3,000 PSI	NORMAL WEIGHT

5. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II. CONCRETE EXPOSED TO SOILS CONTAINING CORROSIVE ELEMENTS (SULFATES) SHALL COMPLY WITH IBC 1904.1.
6. FLY ASH MAY BE USED AS A SUBSTITUTE FOR PORTLAND CEMENT. WEIGHT OF FLY ASH SHALL NOT EXCEED 15% OF CEMENT WEIGHT. FLY ASH SHALL CONFORM TO ASTM C618 CLASS F AND LOSS OF IGNITION SHALL BE LIMITED TO 2%.
7. MIXING OPERATIONS SHALL CONFORM TO ASTM C94.
8. ALL CONCRETE NOT IN CONTACT WITH EARTH TO HAVE FINISH AS SPECIFIED BY ARCHITECT OR AS COVERED IN PROJECT SPECIFICATIONS. UNLESS OTHERWISE NOTED, NON-ARCHITECTURAL CONCRETE COLUMNS AND WALLS SHALL HAVE 3/4" CHAMFERED CORNERS.
9. AGGREGATE FOR NORMALWEIGHT CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C33 AND PROJECT SPECIFICATIONS
10. ALL CONCRETE SHALL BE REINFORCED. PROVIDE MINIMUM TEMPERATURE REINFORCEMENT AS REQUIRED BY ACI-318 IN ELEMENTS WHERE NO REINFORCEMENT IS INDICATED ON THE DRAWINGS.
11. DRY PACK OR GROUT UNDER BASE PLATES AND SILL PLATES SHALL BE 7000 PSI MIN AT 28 DAYS.
12. CONCRETE PLACEMENT SHALL CONFORM TO ACI 304 AND PROJECT SPECIFICATIONS. SANDBLAST ALL CONCRETE SURFACES WHICH NEW CONCRETE WILL BE PLACED AGAINST.
13. TWO HOURS MUST ELAPSE BETWEEN END OF COLUMN OR WALL POURS AND THE BEGINNING OF FLOOR POURS.
14. MACROSYNTHETIC FIBERS SHALL CONFORM TO ASTM D7508.
15. ALL REINFORCEMENT, ANCHOR BOLTS AND OTHER EMBEDDED ITEMS SHALL BE SECURELY HELD IN PLACE WHILE CONCRETE IS POURED. ADDITIONAL BARS TO BE PROVIDED BY THE CONTRACTOR FOR SUPPORT AS NEEDED.
16. MECHANICAL, ELECTRICAL AND PLUMBING OPENINGS AND SLEEVES ARE SHOWN INDICATIVELY AND SMALL OPENINGS AND SLEEVES ARE NOT SHOWN. SEE SLAB EDGE, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES FOR SIZE AND LOCATION OF ALL SLAB AND WALL OPENINGS AND SLEEVES. CONTRACTOR TO DEVELOP AND SUBMIT A SINGLE COORDINATION DRAWING COMBINING ALL TRADES INDICATING ALL SLAB OPENINGS AND SLEEVES PRIOR TO POURING CONCRETE FOR REVIEW BY STRUCTURAL ENGINEER.
17. ALL PIPE AND CONDUIT OPENINGS SHALL BE SLEEVED AND CAST IN PLACE UNLESS OTHERWISE NOTED. DO NOT SAWCUT, CORE OR CORE DRILL STRUCTURAL CONCRETE WITHOUT EXPLICIT DIRECTION FROM THE STRUCTURAL ENGINEER. DRILL BITS THAT CAN CUT OR DAMAGE REINFORCING ARE NOT PERMITTED TO BE USED ON STRUCTURAL CONCRETE.
18. CONDUITS AND PIPES SHALL NOT BE PERMITTED IN STRUCTURAL CONCRETE ELEMENTS UNLESS SPECIFICALLY REVIEWED BY THE STRUCTURAL ENGINEER. ALL CONDUITS TO BE EMBEDDED IN THE STRUCTURAL CONCRETE SHALL BE SUBMITTED FOR STRUCTURAL REVIEW ON A SINGLE COORDINATED CONDUIT DRAWING COMBINING ALL TRADES DEVELOPED AND COORDINATED BY THE CONTRACTOR. COORDINATED CONDUITS/PIPES MUST BE PLACED IN ONE LAYER AVOIDING CROSSOVER AND SPACED AT THE GREATER OF 3" OR 3 DIAMETERS. DRAWINGS SHALL SHOW STUB-UP LOCATIONS, BEND RADIUS AND DETAILS OF CONDUIT/PIPE INSTALLATION. ALL CONDUITS AND PIPES SHALL BE INSTALLED PER THE REQUIREMENTS OF ACI 318 SECTIONS 20.7 AND 26.8.2.
   A. ELECTRICAL CONDUIT SHALL BE RIGID STEEL CONDUIT OR FLEXIBLE PLASTIC CONDUIT. ALUMINUM CONDUIT IS PROHIBITED. CONDUIT OUTSIDE DIAMETER SHALL NOT EXCEED 2" OR 1/6 SLAB THICKNESS, WHICHEVER IS LESSER. CONDUIT SHALL BE FIRMLY CHAIRED AND TIED TO PREVENT DISPLACEMENT DURING POURING.
   B. FOR CONDUIT PLACED IN SLABS ON STEEL DECKING, CONDUIT SHALL RUN IN THE STEEL DECK FLUTES PER THE TYPICAL CONDUIT IN SLAB ON STEEL DECK DETAIL.

V. CONCRETE JOINTS:

1. CONSTRUCTION JOINTS SHALL BE INSTALLED SUCH THAT STRENGTH AND APPEARANCE OF CONCRETE ARE NOT IMPAIRED, AT LOCATIONS INDICATED OR AS APPROVED BY THE ARCHITECT. SEE PROJECT SPECIFICATIONS FOR LIMITS ON LOCATION AND SPACING.
   A. LOCATE JOINTS FOR BEAMS, SUSPENDED SLABS, JOISTS AND GIRDERS IN THE MIDDLE THIRD OF SPANS. OFFSET JOINTS IN GIRDERS A MINIMUM DISTANCE OF TWICE THE BEAM WIDTH FROM A BEAM-GIRDER INTERSECTION.
   B. LOCATE HORIZONTAL JOINTS IN WALLS AND COLUMNS AT THE UNDERSIDE OF FLOORS, SLABS, BEAMS, AND GIRDERS AND AT THE TOP OF FOOTINGS OR FLOOR SLABS, OR AT 40-FEET MAXIMUM HEIGHT, UNLESS PERMITTED BY ENGINEER.
   C. LOCATE VERTICAL JOINTS IN WALLS AT DISCONTINUITIES, BESIDES PILES INTEGRAL WITH WALLS, NEAR REENTRANT CORNERS, AND IN CONCEALED LOCATIONS WHERE POSSIBLE. PREFERRED JOINT INTERVALS SHALL BE 15-25 FEET AS APPROPRIATE, WITH A MAXIMUM SPACING OF 30-FEET. AVOID LOCATING VERTICAL JOINTS WITHIN 15-FEET OF A BUILDING CORNER.
   D. LAYOUT OF CONSTRUCTION JOINTS IN SLABS ON GRADE MAY CORRESPOND WITH CONTRACTION JOINTS.
   E. LEAVE 7 DAYS, MINIMUM, BETWEEN ADJACENT POURS IN WALLS, UNLESS APPROVED BY ENGINEER.

I. GENERAL NOTES:

1. ALL STRUCTURAL WORK SHALL CONFORM TO THE DRAWINGS, THE PROJECT SPECIFICATIONS, ALL DRAWING NOTES, AND THE 2021 INTERNATIONAL BUILDING CODE (IBC) WITH MESA COUNTY AMENDMENTS.
2. ALL APPLICABLE REFERENCE STANDARDS, AS MODIFIED BY THE BUILDING CODE, INCLUDE:
   A. ASCE/SEI 7-16: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
   B. ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   C. AISC 360-16: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
   D. AISC 341-16: SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
   E. AWS D1.1: STRUCTURAL WELDING CODE - STEEL
   F. ACI 117-10: STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIAL
   G. TMS 402-16: BUILDING CODE FOR MASONRY STRUCTURES
   H. TMS 602-16: SPECIFICATION FOR MASONRY STRUCTURES
   I. AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2016
3. THE SCOPE OF WORK IS NOT SOLELY DEFINED BY THESE DOCUMENTS.
4. TYPICAL DETAILS APPLY THROUGHOUT THE PROJECT, EVEN IF NOT SPECIFICALLY REFERENCED IN PLANS OR DETAILS. DETAILS OF CONSTRUCTION NOT FULLY SHOWN OR NOTED ON THE DRAWINGS NOR CALLED OUT IN THE SPECIFICATIONS SHALL BE OF THE SAME SIZE AND CHARACTER AS FOR SIMILAR CONDITIONS WHICH ARE SHOWN AND NOTED.
5. ALL FORCES INDICATED IN THE STRUCTURAL DRAWINGS ARE SERVICE LOADS AS DEFINED BY ASCE-7, UNLESS NOTED OTHERWISE.
6. DO NOT USE SCALED DIMENSIONS; USE ONLY WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATIONS BEFORE PROCEEDING WITH WORK.
7. SEE ARCHITECTURAL DRAWINGS FOR SITE POSITIONING AND PROJECT DATUM, REFERENCE IS *(0'-0")* AS SHOWN ON ARCHITECTURAL DRAWINGS.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY AND THE MEANS AND METHODS OF CONSTRUCTION.
9. STRUCTURAL ELEMENTS SHALL BE CENTERED ABOUT GRIDLINES OR DIMENSION LINES, UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL PROVIDE ENGINEERED DESIGNS OF TEMPORARY SHORING AND BRACING AND MAKE SAFE ALL FLOORS, ROOFS, WALLS, EXCAVATIONS AND ADJACENT PROPERTY AS PROJECT CONDITIONS AND LOCAL BUILDING CODE REQUIRE.
11. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON PLAN. DISCREPANCIES AND/OR INTERFERENCES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.
12. OPENINGS SHALL NOT BE MADE IN ANY STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
13. DEFICIENT WORK AND WORK NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AS IDENTIFIED BY THE ARCHITECT OR INSPECTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL COMPENSATE OWNER FOR SERVICES ARISING FROM DEFICIENT WORK.
14. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY REQUIRED DEWATERING OF THE SITE DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL PREPARE ENGINEERED DESIGN AND SHALL BE RESPONSIBLE FOR CONFIRMING ADEQUACY OF AS BUILT STRUCTURE FOR ALL SURCHARGE LOADS RESULTING FROM COMPACTION AS WELL AS CRANES TRUCKS, BULLDOZERS OR ANY OTHER CONSTRUCTION EQUIPMENT. ENGINEERED DESIGNS SHALL BE PREPARED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION AND SUBMITTED TO ENGINEER OF RECORD FOR REVIEW.
16. THE STRUCTURAL COMPONENTS BY THEMSELVES ARE A NON-SELF-SUPPORTING STRUCTURE. LATERAL FORCES DUE TO WIND, EARTHQUAKE, OR SOIL ARE CARRIED BY THE ROOF AND FLOOR DIAPHRAGMS TO THE LATERAL SYSTEM. CERTAIN ELEMENTS SHOWN ON THE STRUCTURAL DRAWINGS (SUCH AS BRACING, ROOF AND FLOOR SLABS, AND CONCRETE IN COMPOSITE COLUMNS) ARE REQUIRED FOR OVERALL OR LOCAL STABILITY OF OTHER ELEMENTS (SUCH AS BEAMS, COLUMNS, AND WALLS). IF DUE TO SEQUENCING OF CONSTRUCTION, THESE STABILITY ELEMENTS ARE NOT IN PLACE, THE CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED TO PERFORM THE WORK IN THE JURISDICTION WHERE THE PROJECT IS LOCATED, WHO SHALL INVESTIGATE WHERE TEMPORARY SHORING/BRACING IS REQUIRED AND SHALL DESIGN THIS TEMPORARY SHORING/BRACING. THE CONTRACTOR SHALL PROVIDE THIS SHORING/BRACING UNTIL THE REQUIRED STRUCTURAL ELEMENTS AND THEIR CONNECTIONS HAVE BEEN INSTALLED AND REACH THEIR FINAL DESIGN STRENGTHS.
17. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FRAMED FLOORS OR ROOFS. THE CONSTRUCTION MATERIAL LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING WHERE STRUCTURE IS NOT COMPLETE OR HAS NOT ATTAINED DESIGN STRENGTH.
18. BUILDING TOLERANCES: STANDARD TOLERANCES SHALL BE BASED ON THE REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE AND ACI 117, STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS.

II. DESIGN LOADS:

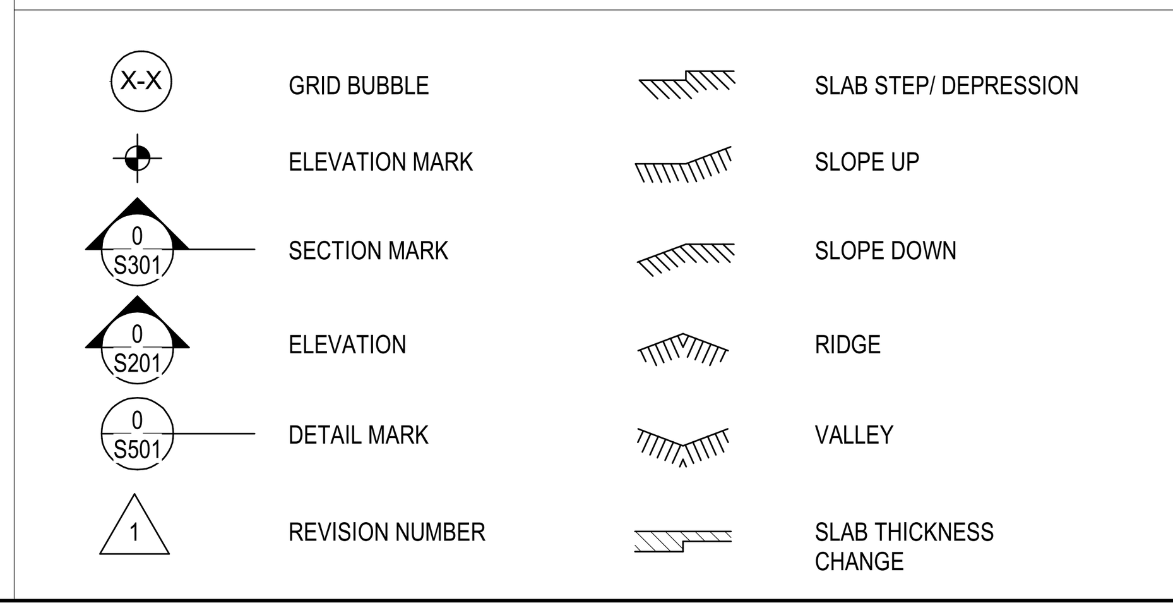
1. DEAD LOAD: THE SELF WEIGHT OF THE STRUCTURE.

2. SUPERIMPOSED DEAD LOAD:	
A. ROOF LEVEL:	
a. ROOFING	5 PSF
b. MEP	5 PSF
3. LIVE LOAD:	
A. ROOFS:	20 PSF
B. ROOF TERRACES:	100 PSF
C. PUBLIC AREAS, STAIRS, CORRIDORS 1ST FLOOR:	100 PSF
D. CORRIDORS 2ND FLOOR AND ABOVE:	80 PSF
E. RESIDENTIAL:	40 PSF
F. PARKING:	40 PSF
G. LIGHT STORAGE:	125 PSF
H. OFFICES:	50 PSF
I. PARTITIONS:	15 PSF
J. STAIRS:	100 PSF
4. SNOW LOAD:	
A. GROUND SNOW LOAD (Pg) =	30 PSF
B. SNOW IMPORTANCE FACTOR (I):	1.0
C. ROOF EXPOSURE CONDITION:	EXPOSED
D. THERMAL FACTOR (Ct) =	1.0
E. DRIFT LOAD AND WIDTH:	16.5 PSF, 3'-9"
F. FLAT-ROOF SNOW LOAD (Pf) =	30 PSF
5. WIND LOAD	
A. ULTIMATE DESIGN BASIC WIND SPEED V(ult) =	104 MPH
B. RISK CATEGORY =	II
C. WIND EXPOSURE CATEGORY =	B
D. ENCLOSURE CATEGORY:	ENCLOSED
E. INTERNAL PRESSURE COEFFICIENT (GCPi):	+/- 0.18
F. GUST EFFECT FACTOR (G):	0.85
G. COMPONENT AND CLADDING LOADS	SEE PLAN
6. SEISMIC LOAD	
A. SITE CLASS =	D
B. RISK CATEGORY =	II
C. SEISMIC IMPORTANCE FACTOR =	1.0
D. MAPPED SPECTRAL RESPONSE	
a. SHORT PERIOD S_S =	0.20 g
b. 1-SECOND PERIOD S_1 =	0.48 g
E. DESIGN SPECTRAL RESPONSE (5% DAMPED)	
a. SHORT PERIOD S_{DS} =	0.18 g
b. 1-SECOND PERIOD S_{D1} =	0.074 g
F. SEISMIC DESIGN CATEGORY:	B
G. SEISMIC FORCE RESISTING SYSTEM:	ORDINARY REINFORCED MASONRY SHEAR WALLS
H. BASE SHEAR COEFFICIENT Cs =	0.02
I. RESPONSE MODIFICATION FACTOR R =	2
J. ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE PROCEDURE
K. REDUNDANCY FACTOR (p):	1.3
L. DESIGN BASE SHEAR =	10.54 k

ABBREVIATIONS

#	POUND
&	AND
@	AT
AB	ANCHOR BOLT
ACS	ALL COMMON SIDES
ADDL	ADDITIONAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
ALT	ALTERNATE
ARCH, ARCH'L	ARCHITECT, ARCHITECTURAL
BL	BRICKLEDGE
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAILING
BO	BOTTOM OF
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOS	BOTTOM OF STEEL
BOT, BOTT	BOTTOM
BP	BASE PLATE
BRBF	BUCKLING RESTRAINED BRACED FRAME
BRG	BEARING
BTWN	BETWEEN
C	CHANNEL
CB	CONCRETE BEAM
CC	CARRIED COLUMN
CEN	CENTER
CFMF	COLD-FORMED METAL FRAMING
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONT	CONTINUOUS
CTR	CENTERED
CWI	CERTIFIED WELDING INSPECTOR
D, DIA	DIAMETER
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEF	DEFORMED, DEFINITION
DEFL	DEFLECTION
DET, DTL	DETAIL
DIAG	DIAGONAL
DN	DOWN
DWG	DRAWING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EN	EDGE NAILING
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQ SPA	EQUAL SPACE
ES	EACH SIDE
EW	EACH WAY
EXIST, (E)	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN, FNDN	FOUNDATION
FF EL	FINISH FLOOR ELEVATION
FN	FIELD NAILING
FOA	FACE OF ANGLE
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FT	FEET
FTG	FOOTING
Fy	YIELD STRESS
GA	GAGE, GUAGE
GALV	GALVANIZED
GB	GRADE BEAM
GLB	GLUED-LAMINATED BEAM
GT	GIRDER TRUSS
H, HORIZ	HORIZONTAL
HC	HOLLOW CORE
HI	HIGH
HK	HOOK
HSS	HOLLOW STRUCTURAL STEEL
IN	INCHES
INFO	INFORMATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS
KB	KNEE BRACE
L	ANGLE
LB	POUND
LF	LINEAR FOOT
LG	LENGTH
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO	LOW
LT WT	LIGHTWEIGHT
LVL	LEVEL
MAX	MAXIMUM
MC	MOMENT CONNECTION
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR, MANUF	MANUFACTURER
MID	MIDDLE
MIL	MILLIMETER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
N	NORTH
NA	NOT APPLICABLE
NDT	NON-DESTRUCTIVE TESTING
NEW, (N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
PERP	PERPENDICULAR
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
REF	REFER, REFERENCE
REINF	REINFORCED, REINFORCEMENT
REM	REMAINDER
REQ'D	REQUIRED
REQ'MTS, REQMTS	REQUIREMENTS
REV	REVISION
SAD	SEE ARCHITECTURAL DRAWINGS
SC	SLIP CRITICAL
SCHED	SCHEDULE
SCJ	SAWN CONTROL JOINT
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SOG	SLAB ON GRADE
SPA	SPACES, SPACING
SQ	SQUARE
SSH	SHORT SLOTTED HOLE
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURE, STRUCTURAL
SUPP	SUPPORT
T&B	TOP AND BOTTOM
TEMP	TEMPORARY
THK	THICK
TO	TOP OF
TOC	TOP OF CONCRETE
TOF	TOP OF FOUNDATION
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOSC	TOP OF STRUCTURAL CONCRETE
TOSL	TOP OF SLAB
TOT	TOTAL
TOW	TOP OF WALL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V, VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WB	WIND BRACE
WBBP	WIND BRACE BASEPLATE
WHSS	WELDED HEADED STEEL STUD
WP	WORKING POINT, WORK POINT
WRT	WITH RESPECT TO
WT	WEIGHT
WWR	WELDED-WIRE REINFORCEMENT
YD	YARD

SYMBOLS



Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
ASI 1			2024.05.10

Permit/Seal

05/06/2024

COLORADO LICENSED PROFESSIONAL ENGINEER
FRANCIS G. CATANACH
41534

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A
Scale: As indicated

DK	HG	FC	2024.05.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
GENERAL NOTES

Revision:
Drawing No.
S-001

<Pick location in Project Information>
5/7/2024 9:47:36 AM

ORIGINAL SHEET - ARCH D

GENERAL NOTES

XV. QUALITY ASSURANCE AND SPECIAL INSPECTIONS

1. OWNER WILL ENGAGE AN INDEPENDENT TESTING AGENCY TO PERFORM THE TESTS AND INSPECTIONS SHOWN ON THE 'STRUCTURAL TESTING AND INSPECTIONS' SHEET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE PRIOR NOTICE TO ALLOW FOR COMPLETION OF THESE REQUIREMENTS.

2. CONTRACTOR SHALL SUBMIT A STATEMENT OF RESPONSIBILITY TO THE BUILDING DEPARTMENT AND OWNER PRIOR TO WORK ON WIND OR SEISMIC FORCE RESISTING SYSTEMS AND COMPONENTS WHICH ARE LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.

XVI. CONCRETE MASONRY:

1. ALL CONCRETE MASONRY UNITS (CMU) SHALL BE NORMAL WEIGHT OR LIGHT WEIGHT AGGREGATE CONFORMING TO THE REQUIREMENTS OF ASTM C-90. PROVIDE TWO-CELL HOLLOW BLOCK WITH NOMINAL FACE SIZE 8"X16" WITH 6", 8" OR 12" NOMINAL THICKNESS AT LOCATIONS AS SHOWN ON ARCHITECTURAL DRAWINGS. MINIMUM EXTERIOR WALL NOMINAL THICKNESS SHALL BE 8". ALL UNITS SHALL BE PLACED IN RUNNING BOND.

2. MORTAR AND GROUT MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. ALL MIX DESIGNS SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND BE WET STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE OF THE PROJECT.

3. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY SHALL BE f'm=2000 PSI, DETERMINED BY THE UNIT STRENGTH METHOD.

4. MORTAR SHALL CONFORM TO ASTM C270 TYPE M OR S, MINIMUM COMPRESSIVE STRENGTH = 2000 PSI.

5. GROUT SHALL CONFORM TO ASTM C476, MINIMUM COMPRESSIVE STRENGTH 2000 PSI.

6. BOND BEAMS AND ALL CELLS WITH VERTICAL REINFORCEMENT SHALL BE FULLY GROUTED. VERTICAL REINFORCEMENT SHALL BE SECURED IN PLACE PRIOR TO GROUT PLACEMENT

7. HORIZONTAL JOINT REINFORCEMENT SHALL BE WELDED "LADDER" OR "TRUSS" DESIGN, CONFORMING TO ASTM A951, WITH WIRE CONFORMING TO ASTM A82. FOR REINFORCEMENT AT EXTERIOR WALLS, HOT-DIP GALVANIZE TO ASTM A153 (1.5OZ/FT2). FOR INTERIOR WALLS, MILL GALVANIZE TO ASTM A641 (0.1OZ/FT2)

8. VERTICAL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN SUPPORTS WITH MINIMUM SPLICE LENGTHS OF 2'-6". PROVIDE ADDITIONAL BARS EACH CORNER, END OF WALL, EDGE OF OPENING, AND EDGE WHERE WALL IS INTERRUPTED BY STEEL COLUMN.

9. THE FIRST BLOCK COURSE ON FOOTING SHALL BE FILLED SOLID WITH GROUT.

10. CONCRETE BLOCK BELOW BEAM BEARING POINTS SHALL BE FILLED SOLID WITH GROUT FOR A MINIMUM OF TWO COURSES IN DEPTH AND FOR A WIDTH OF 24".

11. ALL MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION. FLOOR AND ROOF DIAPHRAGMS PROVIDE STABILITY FOR WALLS. UNTIL THESE ARE IN PLACE, MASONRY WALLS SHALL NOT BE BUILT HIGHER THAN 10 TIMES THEIR THICKNESS WITHOUT BRACING.

12. REINFORCEMENT SHALL BE SUPPORTED TO PREVENT DISPLACEMENTS BEYOND TOLERANCES AND BY 1/2" CLEAR MINIMUM FROM WALLS OF MASONRY UNITS PRIOR TO GROUTING.

13. ALIGN FOOTING DOWELS WITH CELLS. CELLS TO BE IN VERTICAL ALIGNMENT.

14. CLEANOUTS SHALL BE PROVIDED FOR GROUT POURS WHICH EXCEED 5'-4".

XVII. DESIGN OF STEEL CONNECTIONS:

1. STEEL CONNECTIONS NOT FULLY DETAILED IN THE STRUCTURAL DRAWINGS ARE CONTRACTOR ENGINEERED DESIGNS.

2. THE CONTRACTOR'S DESIGN ENGINEER SHALL SUPERVISE THE PREPARATION OF CALCULATIONS AND SHOP DRAWINGS FOR THESE CONNECTIONS, AND CHECK THE SHOP DRAWINGS FOR COMPLIANCE WITH CONTRACT DOCUMENTS, GOVERNING CODES, AND PREVAILING STANDARDS OF PRACTICE. THE SHOP DRAWINGS AND CALCULATIONS NOT STAMPED AND SIGNED AS REQUIRED FOR CONTRACTOR ENGINEERED DESIGNS WILL BE RETURNED UNREVIEWED FOR RESUBMISSION.

3. STEEL CONNECTIONS SHALL BE DESIGNED, DETAILED AND CONSTRUCTED PER THE REQUIREMENTS OF AISC "MANUAL OF STEEL CONSTRUCTION" INCLUDING AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" AND AISC "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS".

4. DESIGN OF STEEL CONNECTIONS FOR SHEAR SHALL INCLUDE THE EFFECTS OF ECCENTRICITY.

5. CONTRACTOR SHALL PROVIDE STIFFENERS AND REINFORCING PLATES WHERE NEEDED TO RESIST THE LOCAL EFFECTS OF DESIGN LOADS AND CONNECTION DESIGN.

6. MOMENT CONNECTIONS ARE REQUIRED TO DEVELOP THE DESIGN FLEXURAL STRENGTH/ALLOWABLE FLEXURAL STRENGTH ACCORDING TO THE LIMIT STATE OF YIELDING (M), AND THE DESIGN SHEAR STRENGTH/ALLOWABLE SHEAR STRENGTH ASSUMING Cv = 1 (V) OF THE MEMBER AS FOLLOWS:

CONDITION	% OF M	%OF V
A. BEAM TO COLUMN	85	50
B. CANTILEVER BEAM	100	50
C. CANTILEVER BACKSPAN	100	50

7. CONNECTION WORK POINT SHALL BE ASSUMED TO BE CENTERLINE OF CONNECTING MEMBERS UON.

XVIII. EXISTING STRUCTURE & EXISTING CONDITIONS

1. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS & LINTEL, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.

2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASE, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.

3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.

4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL IS TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.

XI. MECHANICAL AND ADHESIVE ANCHORS

1. ADHESIVE ANCHORS AND DOWELS INSTALLED INTO CONCRETE:
   A. "SET-XP" BY SIMPSON STRONG TIE (ICC ESR-2508)
   B. "HIT-RE 500-SD" BY HILTI, INC. (ICC ESR-3814)
   C. "PURE110+BY DEWALT (ICC ESR-3298)

2. ADHESIVE ANCHORS AND DOWELS INSTALLED INTO GROUT-FILLED CMU:
   A. "SET-XP" BY SIMPSON STRONG TIE (UES ER-265)
   B. "HIT HY-270" BY HILTI, INC. (ICC ESR-4143)
   C. "AC100+GOLD" BY DEWALT (ICC ESR-3200)

3. ADHESIVE ANCHORS AND DOWELS INSTALLED INTO UNREINFORCED BRICK MASONRY (URM):
   A. "ET-HP" BY SIMPSON STRONG TIE (ICC ESR-3638)
   B. "HIT HY-270" BY HILTI, INC. (ICC ESR-4144)
   C. "AC100+GOLD" BY DEWALT (ICC ESR-4105)

4. EXPANSION ANCHORS INSTALLED INTO CONCRETE:
   A. "STRONG-BOLT 2" BY SIMPSON STRONG-TIE (ICC ESR-3037)
   B. "KWIK BOLT TZ2 (KB-TZ2)" BY HILTI, INC. (ICC ESR-4266)
   C. "POWER-STUD+SD2" BY DEWALT (ICC ESR-2502)

5. EXPANSION ANCHORS INSTALLED INTO CMU
   A. "STRONG-BOLT 2" BY SIMPSON STRING-TIE (UES ER-240)
   B. "KWIK BOLT TZ2 (KB-TZ2)" BY HILTI, INC. (ICC ESR-4561)
   C. "POWER-STUD+ SD1" BY DEWALT (ICC ESR-2966)

6. SCREW ANCHORS INSTALLED INTO CONCRETE:
   A. "TITEN HD" BY SIMPSON STRING-TIE (ICC ESR-2713)
   B. "KH-EZ" BY HILTI, INC. (ICC ESR-3056)
   C. "SCREW-BOLT+" BY DEWALT (ICC ESR-3889)

7. SCREW ANCHORS INSTALLED INTO GROUT=FILLED CMU:
   A. "TITEN HD" BY SIMPSON STRONG-TIE (ICC ESR-1056)
   B. "KH-EZ" BY HILTI, INC. (ICC ESR-3027)
   C. "SCREW-BOLT+" BY DEWALT (ICC ESR-4042)

8. ADHESIVE ANCHORS: ASTM A36 THREADED RODS WITH ASTM A 563 GRADE A NUTS AND ANSI B18.22.1 TYPE A WASHERS, UNLESS OTHERWISE NOTED. ANCHORS DESIGNATED AS ASTM A193 GRADE B7 THREADED RODS TO USE ASTM A 563 GRADE DH HEAVY HEX NUTS AND ASTM F 436 WASHERS.

9. ADHESIVE DOWELS: ASTM A615 GRADE 60 REINFORCING STEEL.

10. ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC-ES REPORT AND MANUFACTURERS RECOMMENDATIONS.

11. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS PER ICC-ES REPORT & MANUFACTURERS RECOMMENDATIONS.

12. CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL OR ADHESIVE ANCHORS.

13. PRIOR TO ALL DRILLING OR CORING, THE CONTRACTOR SHALL (1) VERIFY THE EXISTING CONCRETE OR MASONRY THICKNESS TO PREVENT DAMAGE TO THE OPPOSITE FACE OF CONCRETE AND MAINTAIN 1 -1 /2 " CLEAR COVER U.N.O., AND (2) IDENTIFY EXISTING REINFORCING LOCATIONS BY PACHOMETER, PROBING, CHIPPING, ETC. TO AVOID DAMAGE EXISTING REINFORCING.

14. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.

15. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) CERTIFIED THROUGH ACI/CRSI OR EQUIVALENT (ACI 318-14 17.8.2.2)

16. ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (ACI 318-14 17.1.2)

XII. MECHANICAL/ELECTRICAL/PLUMBING SYSTEM SUPPORTS

1. THE CONTRACTOR SHALL DESIGN AND SUPPLY ALL ADDITIONAL MISCELLANEOUS METALS AND SYSTEM SUPPORT COMPONENTS THAT ARE NECESSARY TO SUPPORT ALL MECHANICAL, ELECTRICAL (TELECOM, AUDIO VISUAL, ETC.) AND PLUMBING/FIRE PROTECTION SYSTEMS. SUCH METALS AND SUPPORT COMPONENTS AND THEIR CONNECTIONS SHALL BE PROVIDED AS NECESSARY TO DIRECTLY AND CONCENTRICALLY IMPOSE LOADS ON THE PRIMARY STRUCTURE. STEEL ROOF DECK SHALL NOT DIRECTLY SUPPORT THESE SYSTEMS. THE CONNECTIONS TO THE PRIMARY STRUCTURE ARE SUBJECT TO THE REQUIREMENTS OF THE MISCELLANEOUS METALS SECTION ABOVE.

XIII. DEFERRED STRUCTURAL SUBMITTALS

1. SOME STRUCTURAL SYSTEMS ARE DEFINED AS VENDOR-DESIGNED COMPONENTS PER THE STRUCTURAL DOCUMENTS. THESE ELEMENTS OF THE DESIGN ARE DEFERRED SUBMITTAL COMPONENTS AND HAVE NOT BEEN PERMITTED UNDER THE BASE BUILDING APPLICATION. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT THE STAMPED COMPONENT SYSTEM DOCUMENTS TO THE BUILDING OFFICIAL FOR APPROVAL.

2. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATION THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

3. SUBMITTALS TO BE PREPARED BY A LICENSED ENGINEER LAWFULLY ELIGIBLE TO DESIGN THE ELEMENT OR COMPONENT (SPECIALTY ENGINEER) AND SHALL BE SEALED IN ACCORDANCE WITH STATE LAW. SUBMITTALS SHALL INCLUDE:
   A. CALCULATIONS
   B. DIAGRAMS SHOWING LOADS APPLIED TO THE PRIMARY STRUCTURE INCLUDING MAGNITUDES, LOCATIONS, AND DIRECTIONS, SEPARATED INTO DEAD, LIVE, WIND AND/OR SEISMIC COMPONENTS.
   C. ERECTION OR DESIGN DRAWINGS AS NECESSARY TO DESCRIBE THE SYSTEM OR COMPONENT AND ITS CONNECTION TO THE PRIMARY STRUCTURE.

4. SUBMIT (1) REPRODUCIBLE COPY, (1) SET SEALED COPY FOR THE SEOR'S FILE, AND ADDITIONAL COPIES AS NECESSARY FOR THE BUILDING DEPARTMENT. SUBMITTALS CONTAINING EXCEPTIONS, CORRECTIONS, OR OTHER REVIEW COMMENTS ARE NOT ACCEPTABLE FOR SUBMITTAL TO THE BUILDING DEPARTMENT.

5. THE SEOR'S REVIEW IS STRICTLY LIMITED TO THE FOLLOWING:
   A. DRAWINGS AND CALCULATIONS ARE PROPERLY SEALED.
   B. LOAD CRITERIA IS CONSISTENT WITH CONTRACT DOCUMENTS.
   C. CONNECTIONS TO THE PRIMARY STRUCTURE ARE CONSISTENT WITH THE PRIMARY STRUCTURE DESIGN.
   D. THE BASE STRUCTURE IS CAPABLE OF SUPPORTING IMPOSED LOADS.

6. THE SPECIALTY ENGINEER'S SEAL WILL CERTIFY THAT THE ITEMS DESIGNED BY THE SPECIALTY ENGINEER CONFORM TO THE CRITERIA WITHIN THE CONTRACT DOCUMENTS AND ALL APPLICABLE CODES AND STANDARDS.

7. IF THE LOADS IMPOSED ON THE STRUCTURE EXCEED THE CRITERIA WITHIN THE CONTRACT DOCUMENTS THE SUBMITTALS WILL BE REJECTED. CHANGES TO THE PRIMARY STRUCTURE TO ACCOMMODATE SPECIALTY ITEMS WILL ONLY BE MADE AT COST AFTER

8. THE FOLLOWING LIST INCLUDES THE ITEMS THAT ARE DEFINED AS DEFERRED STRUCTURAL SUBMITTAL COMPONENTS. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR ADDITIONAL DEFERRED SUBMITTAL COMPONENTS.
   A. STEEL JOISTS

XIV. SLAB EDGE/OPENING/STEP DIMENSIONS

1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL CONCRETE DIMENSIONS NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBLE TO DEVELOP DETAILED SLAB EDGE PLANS BASED ON THE ARCHITECTURAL AND STRUCTURAL PLANS AND DETAILS. SUBMITTED DRAWINGS SHALL CONTAIN ALL CURBS AND EMBEDMENT. DIMENSIONS MAY VARY FROM THE ARCHITECTURAL PLANS AND DETAILS AS THE RESULT OF THE DEPENDENCY ON THE ADJACENT MATERIALS THAT ARE DETERMINED BY THE CONTRACTOR AND/OR SUPPLIER (EXTERIOR SKIN, ELEVATOR EQUIPMENT, FINAL MEP SHAFT SIZES, ETC.) EDGE FRAMEWORK LOCATIONS MAY BE ADJUSTED AS NECESSARY TO ACCOUNT FOR CONSTRUCTION METHODS AND FOR SLAB SHRINKAGE.

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	ASI 1			2024.05.10

Issued

Permit/Seal

05/06/2024

COLORADO LICENSED
TRAVIS G. CATANACH
41534
PROFESSIONAL ENGINEER

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A
Scale: 12" = 1'-0"

DK	HG	FC	2024.05.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
GENERAL NOTES

Revision:
Drawing No.
S-002

<Pick location in Project Information>
5/7/2024 11:47:36 AM

ORIGINAL SHEET - ARCH D

SPECIAL INSPECTION AND TEST REQUIREMENTS

TYPE		FREQUENCY	REQUIRED INSPECTIONS AND/OR TESTS	REFERENCES CODES/STANDARDS
COLD-FORMED STEEL DECK				IBC 1705.2.2
1. PRIOR TO DECK PLACEMENT	☑	PERFORM	VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	ANSI/SDI STANDARD FOR QA/QC FOR INSTALLATION OF STEEL DECK CONSTRUCTION DOCUMENTS
	☑	PERFORM	DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	
2. AFTER DECK PLACEMENT	☑	PERFORM	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS.	
	☑	PERFORM	VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCITON DOCUMENTS.	
	☑	PERFORM	DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES.	
3. PRIOR TO WELDING	☑	OBSERVE	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	
	☑	OBSERVE	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	
	☑	OBSERVE	MATERIAL INDENTIFICATION (TYPE/GRADE)	
	☑	OBSERVE	CHECK WELDING EQUIPMENT	
4. DURING WELDING	☑	OBSERVE	USE OF QUALIFIED WELDERS	
	☑	OBSERVE	CONTROL AND HANDLING OF WELDING CONSUMABLES	
	☑	OBSERVE	ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	
	☑	OBSERVE	WPS FOLLOWED	
5. AFTER WELDING	☑	PERFORM	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS.	
	☑	PERFORM	WELDS MEET VISUAL ACCEPTANCE CRITERIA	
	☑	PERFORM	VERIFY REPAIR ACTIVITIES	
	☑	PERFORM	DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	
6. PRIOR TO MECHANICAL FASTENING	☑	OBSERVE	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	
	☑	OBSERVE	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	
	☑	OBSERVE	PROPER STORAGE FOR MECHANICAL FASTENERS	
7. DURING MECHANICAL FASTENING	☑	OBSERVE	FASTENERS ARE POSITIONED AS REQUIRED	
	☑	OBSERVE	FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS	
8. AFTER MECHANICAL FASTENING	☑	PERFORM	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	
	☑	PERFORM	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	
	☑	PERFORM	CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	
	☑	PERFORM	VERIFY REPAIR ACTIVITIES	
	☑	PERFORM	DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	

OPEN-WEB STEEL JOISTS AND JOIST GIRDERS				IBC 1705.2.3
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	☑	PERIODIC	END CONNECTIONS - WELDING OR BOLTED	SJI CJ; SJI 100 CONSTRUCTION DOCUMENTS
	☑	PERIODIC	BRIDGING - HORIZONTAL OR DIAGONAL	

COLD-FORMED STEEL TRUSSES				IBC 1705.2.4
1. COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER	☑	PERIODIC	VERIFY THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE	CONSTRUCTION DOCUMENTS

COLD FORMED STEEL LIGHT-FRAME				IBC 1705.11.2, 1705.12.3
1. WIND RESISTANCE/ SEISMIC RESISTANCE	☑	PERIODIC	WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE RESISTING SYSTEM.	
	☑	PERIODIC	SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, DRAG STRUTS AND HOLD-DOWNS.	
	☑	PERIODIC	INSTALLATION OF COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES (SDC D,E,F)	

SPECIAL INSPECTION AND TEST REQUIREMENTS

TYPE		FREQUENCY	REQUIRED INSPECTIONS AND/OR TESTS	REFERENCES CODES/STANDARDS
MASONRY - LEVEL 2				IBC 1705.4
1. VERIFICATION	☑	PERIODIC	PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.	TMS 602: 1.5
	☑	PERIODIC	PRIOR TO CONSTRUCTION, VERIFICATION OF f'_m AND f'_{AAC}	TMS 602: 1.4 B
	☑	CONTINUOUS	DURING CONSTRUCTION, WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE - VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI)	TMS 602: 1.5, 1.6.3
2. AS MASONRY CONSTRUCTION BEGINS	☑	PERIODIC	PROPORTIONS OF SITE PREPARED MORTAR	TMS 602: 2.1, 2.6 A, 2.6 C
	☑	PERIODIC	GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	TMS 602: 2.4 B, 2.4 H
	☑	PERIODIC	GRADE, TYPE AND SIZE OF REINFORCEMENT CONNECTORS, ANCHOR BOLTS AND PRESTRESSING TENDONS AND ANCHORAGES	TMS 602: 3.4, 3.6 A
	☑	PERIODIC	PRESTRESSING TECHNIQUE	TMS 602: 3.6 B
	☑	CONTINUOUS	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	TMS 602: 2.1 C.1
	☑	PERIODIC	SAMPLE PANEL CONSTRUCTION	TMS 602: 1.6 D
3. PRIOR TO GROUTING	☑	PERIODIC	GROUT SPACE	TMS 602: 3.2 D, 3.2 F
	☑	PERIODIC	PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	TMS 602: 2.4, 3.6
	☑	PERIODIC	PLACEMENT OF REINFORCING, CONNECTORS AND ANCHOR BOLTS	TMS 602: 3.2 E, 3.4
	☑	PERIODIC	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	TMS 602: 2.6 B, 2.4 G.1.b
4. DURING CONSTRUCTION	☑	PERIODIC	MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	TMS 602: 1.5
	☑	PERIODIC	PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	TMS 602: 3.3 B
	☑	PERIODIC	SIZE AND LOCATION OF STRUCTURAL MEMBERS	TMS 602: 3.3 F
	☑	PERIODIC	TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	TMS 402: 1.2.1(e), 6.2.1, 6.3.1
	☑	CONTINUOUS	WELDING OF REINFORCEMENT	TMS 402: 6.1.6.1.2
	☑	PERIODIC	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)	TMS 602: 1.8 C, 1.8 D
	☑	CONTINUOUS	APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	TMS 602: 3.6 B
	☑	CONTINUOUS	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	TMS 602: 3.5, 3.6 C
	☑	CONTINUOUS	PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	TMS 602: 3.3 B.9, 3.3 F.1.b
5. PREPARATION OF SPECIMENS	☑	PERIODIC	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	TMS 602: 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

CAST-IN-PLACE DEEP FOUNDATION ELEMENTS				IBC 1705.8
1. DRILLING OPERATIONS	☑	CONTINUOUS	INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	GEOTECHNICAL REPORT CONSTRUCTION DOCUMENTS
2. VERIFICATION	☑	CONTINUOUS	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	

WIND RESISTING COMPONENTS				IBC 1705.11.3
1. FASTENING OF COMPONENTS	☑	PERIODIC	ROOF COVERING, ROOD DECK, AND ROOF FRAMING CONNECTIONS	
	☑	PERIODIC	EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGM	

SEISMIC RESISTING COMPONENTS				
1. SEISMIC ISOLATION SYSTEMS	☑	PERIODIC	SEISMIC ISOLATION SYSTEMS IN SEISMICALLY ISOLATED STRUCTURES DURING THE FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES	IBC 1705.12.8
	☑	PERIODIC	SEISMIC ISOLATION SYSTEMS IN SEISMICALLY ISOLATED STRUCTURES SHALL BE TESTED IN ACCORDANCE WITH ASCE 7 SECTION 17.8 (SDC B,C,D,E,F)	

STATEMENT OF SPECIAL INSPECTIONS

INSPECTION AND TESTING REQUIREMENTS ON THIS SHEET ARE IN ACCORDANCE WITH SECTION 1705 OF THE CALIFORNIA BUILDING CODE (IBC) AND HAVE BEEN IDENTIFIED AS A STATEMENT OF SPECIAL INSPECTIONS AS REQUIRED BY IBC SECTION 1704.3. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION AS REQUIRED BY IBC SECTION 1705 AND IDENTIFY THE APPROVED AGENCIES TO THE BUILDING OFFICIAL. THESE SPECIAL INSPECTIONS AND TESTS ARE IN ADDITION TO THE INSPECTIONS BY THE BUILDING OFFICIAL THAT ARE IDENTIFIED IN IBC SECTION 110. SPECIAL INSPECTORS SHALL BE QUALIFIED IN ACCORDANCE WITH IBC SECTION 1704.2.1, AND ALL OTHER APPLICABLE SECTIONS AND STANDARDS.

SPECIAL INSPECTIONS AND TESTS INDICATED ON THIS SHEET ARE FOR THE STRUCTURAL WORK, SEE OTHER DISCIPLINES DRAWINGS AND SPECIFICATIONS FOR REQUIRED NONSTRUCTURAL SPECIAL INSPECTIONS AND TESTS.

DEFINITIONS

SPECIAL INSPECTION	INSPECTION OF CONSTRUCTION REQUIRING THE EXPERTISE OF AN APPROVED SPECIAL INSPECTOR IN ORDER TO ENSURE COMPLIANCE WITH THE BUILDING CODE AND THE APPROVED CONSTRUCTION DOCUMENTS.
SPECIAL INSPECTOR	A QUALIFIED PERSON EMPLOYED OR RETAINED BY AN APPROVED AGENCY AND APPROVED BY THE BUILDING OFFICIAL AS HAVING THE COMPETENCE NECESSARY TO INSPECT A PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION.
PERIODIC	SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF WORK.
CONTINUOUS	SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT CONTINUOUSLY WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED
OBSERVE	THE INSPECTOR SHALL OBSERVE THESE FUNCTIONS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.
PERFORM	THESE INSPECTIONS SHALL BE PERFORMED FOR EACH CONNECTION OR MEMBER, AND COMPLETED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.
☑	INDICATES SPECIAL INSPECTION OF ITEM IS REQUIRED FOR THE WORK DEFINED IN THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT.

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	Issued			2024.05.10

Permit/Seal

COLORADO LICENSED
FRANCIS G. CATANZARO
41534
PROFESSIONAL ENGINEER
05/06/2024

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A

Scale: 3/4" = 1'-0"

DK	HG	FC	2024.05.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
STRUCTURAL SPECIAL INSPECTIONS AND TESTS

Revision:

Drawing No.
S-003

SPECIAL INSPECTION AND TEST REQUIREMENTS

TYPE		FREQUENCY	REQUIRED INSPECTIONS AND/OR TESTS	REFERENCES CODES/STANDARDS
STRUCTURAL STEEL				IBC 1705.2.1
3. AFTER WELDING	☑	OBSERVE	WELDS CLEANED	AISC 360
	☑	PERFORM	SIZE, LENGTH AND LOCATION OF WELDS	AISC 341
	☑	PERFORM	WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/ BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	CONSTRUCTION DOCUMENTS
	☑	PERFORM	ARC STRIKES	
	☑	PERFORM	K-AREA: WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INPSECT THE WEB K-AREA FOR CRACKS WITHIN 3-INCHES OF THE WELD.	
	☑	PERFORM	WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES	
	☑	PERFORM	PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	
	☑	PERFORM	BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	
	☑	PERFORM	REPAIR ACTIVITIES	
	☑	PERFORM	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	
	☑	PERFORM	NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF EOR	
4. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS	☑	PERFORM	NDT SHALL BE PERFORMED AND DOCUMENTED IN ACCORDANCE WITH AISC 360 SECTION N5.5. SEE GENERAL NOTES FOR RISK CATEGORY.	
5. PRIOR TO BOLTING	☑	PEFORM	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	
	☑	OBSERVE	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	
	☑	OBSERVE	CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	
	☑	OBSERVE	CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	
	☑	OBSERVE	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	
	☑	OBSERVE	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIUES AND METHODS USED. NOT APPLICABLE FOR SNUG-TIGHT JOINTS.	
	☑	OBSERVE	PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	
6. DURING BOLTING	☑	OBSERVE	FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	
	☑	OBSERVE	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	
	☑	OBSERVE	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	
	☑	OBSERVE	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	
7. AFTER BOLTING	☑	PEFORM	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	
8. ANCHOR RODS AND EMBEDMENTS	☑	PEFORM	VERIFY PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DRAWINGS. VERIFY DIAMETER, GRADE, TYPE, AND LENGTH OF ANCHOR ROD OR EMBEDDED ITEM, AND EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE.	
9. VERIFICATION	☑	PEFORM	VERIFY FABRICATED STEEL OR ERECTED STEEL FRAME FOR COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS.	
10. SEISMIC RESISTANCE	☑	PEFORM	RBS CONNECTION REQUIREMENTS, IF APPLICABLE • CONTOUR AND FINSH • DIMENSIONAL TOLERANCES	IBC 1705.12.1.2
	☑	PEFORM	PROTECTED ZONE - NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR, AS APPLICABLE	
	☑	PEFORM	NONDESTRUCTIVE TESTING OR STRUCTURAL STEEL IN THE SEISMIC FORCE RESISTING SYSTEM INCLUDING STRUTS COLLECTORS, CHORDS AND FOUNDATION ELEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH AISC 341 SECTION J6.2.	IBC 1705.13.1

SPECIAL INSPECTION AND TEST REQUIREMENTS

TYPE		FREQUENCY	REQUIRED INSPECTIONS AND/OR TESTS	REFERENCES CODES/STANDARDS
CONCRETE				IBC 1705.3
1. REINFORCEMENT	☑	PERIODIC	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	ACI 318: 20, 25.2, 25.3, 26.6.1-26.6.3 IBC 1908.4
2. REINFORCING BAR WELDING	☑	PERIODIC	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	AWS D1.4 ACI 318: 26.6.4
	☑	PERIODIC	INSPECT SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"	
	☑	CONTINUOUS	INSPECT ALL OTHER WELDS	
3. ANCHORS	☑	PERIODIC	INSPECT ANCHORS CAST IN CONCRETE	ACI 318: 17.8.2
4. ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	☑	CONTINUOUS	INSPECT ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	ACI 318: 17.8.2.4
	☑	PERIODIC	INSPECT ALL OTHER MECHANICAL OR ADHESIVE ANCHORS - SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI318: 17.8.2 OR OTHER QUALIFICATION PROCEDURES.	ACI 318: 17.8.2
5. DESIGN MIX	☑	PERIODIC	VERIFY USE OF REQUIRED DESIGN MIX	ACI 318:19, 26.4.3, 26.4.4 IBC 1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT	☑	CONTINUOUS	FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	ASTM C172, C31 IBC 1908.10
7. DURING PLACEMENT	☑	CONTINUOUS	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	ACI318: 26.5 IBC: 1908.6,1908.7,1908.8
	☑	PERIODIC	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	ACI318: 26.5.3-26.5.5 IBC: 1908.9
8. PRESTRESSED CONCRETE	☑	CONTINUOUS	APPLICATION OF PRESTRESSING FORCES	ACI318: 26.10
	☑	CONTINUOUS	GROUTING OF BONDED PRESTRESSING TENDONS	
9. PRECAST CONCRETE	☑	PERIODIC	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	ACI 318: 26.9
10. IN-SITU CONCRETE STRENGTH	☑	PERIODIC	VERIFY IN-SITU CONCRETE STRENGTH: • PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE • PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTRUAL SLABS	ACI 318: 26.11.2
11. FORMWORK	☑	PERIODIC	INSPECT FORMWORK FOR SHAPE, LOCATION, ABD DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	ACI 318: 26.11.1.2(b)
STRUCTURAL STEEL				IBC 1705.2.1
1. QUALITY ASSURANCE	☑	OBSERVE	REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS AS LISTED IN AISC 360 SECTION N3.2 FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.	AISC 360 AISC 341 CONSTRUCTION DOCUMENTS
2. PRIOR TO WELDING	☑	OBSERVE	INSPECT WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS.	
	☑	PERFORM	WPS AVAILABLE.	
	☑	PERFORM	MANUFACTURER CERTIFICATES FOR WELDING AVAILABLE.	
	☑	OBSERVE	MATERIAL IDENTIFICATION (TYPE/GRADE).	
	☑	OBSERVE	WELDER IDENTIFICATION SYSTEM.	
	☑	OBSERVE	FIT UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	
	☑	OBSERVE	FIT UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K- JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	
	☑	OBSERVE	CONFIGURATION AND FINISH OF ACCESS HOLES	
	☑	OBSERVE	FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	
2. DURING WELDING	☑	OBSERVE	CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	
	☑	OBSERVE	USE OF QUALIFIED WELDERS	
	☑	OBSERVE	NO WELDING OVER CRACKED TACK WELDS	
	☑	OBSERVE	ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	
	☑	OBSERVE	WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/ FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTENED (MIN/MAX) • PROPER POSITION (F, V, H, OH) • INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	
	☑	OBSERVE	WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	
	☑	PERFORM	PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	

STATEMENT OF SPECIAL INSPECTIONS

INSPECTION AND TESTING REQUIREMENTS ON THIS SHEET ARE IN ACCORDANCE WITH SECTION 1705 OF THE CALIFORNIA BUILDING CODE (IBC) AND HAVE BEEN IDENTIFIED AS A STATEMENT OF SPECIAL INSPECTIONS AS REQUIRED BY IBC SECTION 1704.3. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION AS REQUIRED BY IBC SECTION 1705 AND IDENTIFY THE APPROVED AGENCIES TO THE BUILDING OFFICIAL. THESE SPECIAL INSPECTIONS AND TESTS ARE IN ADDITION TO THE INSPECTIONS BY THE BUILDING OFFICIAL THAT ARE IDENTIFIED IN IBC SECTION 110. SPECIAL INSPECTORS SHALL BE QUALIFIED IN ACCORDANCE WITH IBC SECTION 1704.2.1, AND ALL OTHER APPLICABLE SECTIONS AND STANDARDS.

SPECIAL INSPECTIONS AND TESTS INDICATED ON THIS SHEET ARE FOR THE STRUCTURAL WORK, SEE OTHER DISCIPLINES DRAWINGS AND SPECIFICATIONS FOR REQUIRED NONSTRUCTURAL SPECIAL INSPECTIONS AND TESTS.

DESIGNATED SEISMIC FORCE RESISTING SYSTEM:

THE LATERAL FORCE RESISTING SYSTEM CONSISTS OF A STEEL DECK CONNECTED TO REINFORCED MASONRY WALLS.

DEFINITIONS

SPECIAL INSPECTION	INSPECTION OF CONSTRUCTION REQUIRING THE EXPERTISE OF AN APPROVED SPECIAL INSPECTOR IN ORDER TO ENSURE COMPLIANCE WITH THE BUILDING CODE AND THE APPROVED CONSTRUCTION DOCUMENTS.
SPECIAL INSPECTOR	A QUALIFIED PERSON EMPLOYED OR RETAINED BY AN APPROVED AGENCY AND APPROVED BY THE BUILDING OFFICIAL AS HAVING THE COMPETENCE NECESSARY TO INSPECT A PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION.
PERIODIC	SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF WORK.
CONTINUOUS	SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT CONTINUOUSLY WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED
OBSERVE	THE INSPECTOR SHALL OBSERVE THESE FUNCTIONS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.
PERFORM	THESE INSPECTIONS SHALL BE PERFORMED FOR EACH CONNECTION OR MEMBER, AND COMPLETED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.
☑	INDICATES SPECIAL INSPECTION OF ITEM IS REQUIRED FOR THE WORK DEFINED IN THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT.

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
ASI 1	Issued			2024.05.10

Permit/Seal

COLORADO LICENSED FRANCIS C. CATANACH PROFESSIONAL ENGINEER 41534 — 05/06/2024

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A

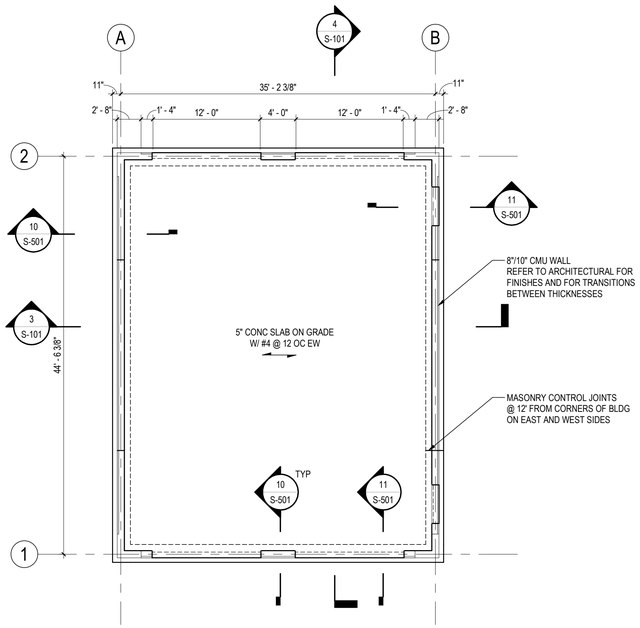
Scale: 3/4" = 1'-0"

DK	HG	FC	2024.05.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

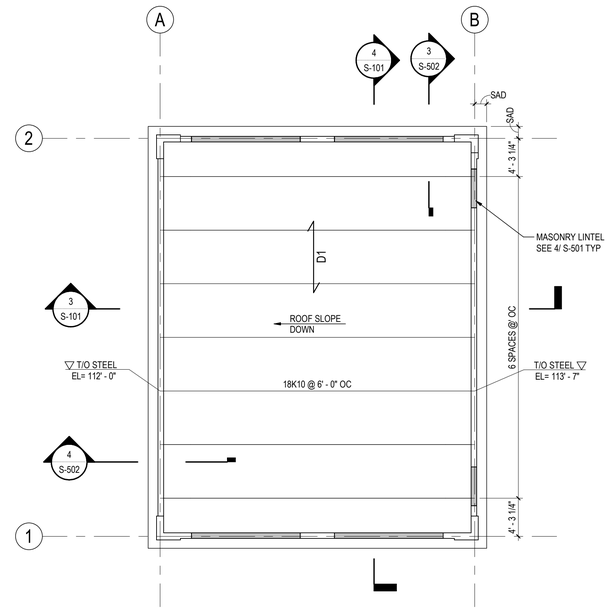
Title
STRUCTURAL SPECIAL INSPECTIONS AND TESTS
Copy 1

Revision:

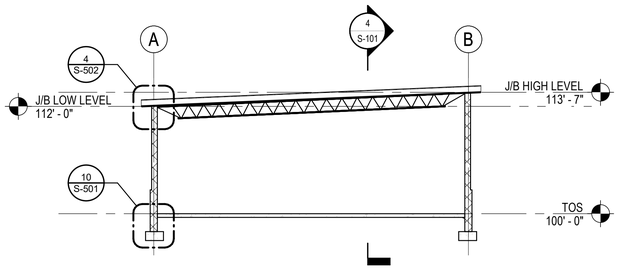
Drawing No.
S-004



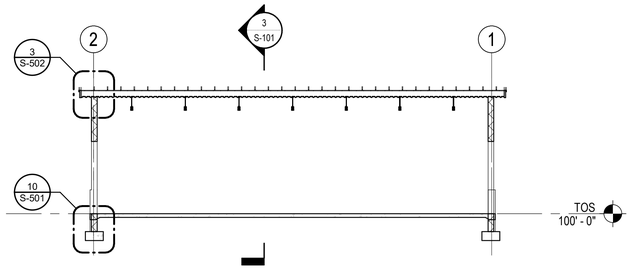
1 STRUCTURAL FOUNDATION PLAN
S-101 — 1/8" = 1'-0"



2 ROOF PLAN
S-101 — 1/8" = 1'-0"



3 TRANSVERSE SECTION
S-101 — 1/8" = 1'-0"



4 LONGITUDINAL SECTION
S-101 — 1/8" = 1'-0"

STEEL DECK SCHEDULE												
DECK	DECK TYPE	HEIGHT	GAGE	FACTORY VENTED	MINIMUM SECTION PROPERTIES			DECK ATTACHMENT				SIDE LAP ATTACHMENT
								TO PERIMETER SUPPORT		TO INTERMEDIATE SUPPORT		
					I (IN^4)	S+ (IN^3)	S- (IN^3)	PERPENDICULAR TO DECK	PARALLEL TO DECK	PERPENDICULAR TO DECK	PARALLEL TO DECK	
D1	VERCO PLB-36	1 1/2"	22	NO	0.192	0.176	0.188	4-1/2" DIA PUDDLE WELD @ DOWN FLUTES	1/2" DIA PUDDLE WELD @ 12" OC	4-1/2" DIA PUDDLE WELD @ DOWN FLUTES	1/2" DIA PUDDLE WELD @ 12" OC	VSC2 @ 24" OC
D1A	VERCO PLB-36	1 1/2"	22	NO	0.192	0.176	0.188	HILTI X-ENP-19 L15 FASTENERS @ DOWN FLUTES	HILTI X-ENP-19 L15 FASTENERS @ 24" OC	HILTI X-ENP-19 L15 FASTENERS @ DOWN FLUTES	HILTI X-ENP-19 L15 FASTENERS @ 24" OC	HILTI SLC @ 36" OC

NOTES
1. ALL STL DECK SHALL CONFORM TO IAPMO REPORT NO. ER-0217.
2. WHENEVER POSSIBLE, DECK LAYOUTS SHALL PROVIDE SHEETS OF SUFFICIENT LENGTH TO SPAN CONTINUOUSLY ACROSS AT LEAST THREE SPANS. ENDS SHALL TERMINATE OVER A SUPPORT PERPENDICULAR TO THE DECK SPAN, EXCEPT AT OPNGS OR BUILDING EDGES WHERE DECKS MAY BE CANTILEVERED.
3. PROVIDE A MINIMUM OF 2" BEARING AT SUPPORTING MEMBERS PERPENDICULAR TO DECK SPAN AND 1 1/2" AT MEMBERS PARALLEL TO DECK SPAN.
4. DIAMETER OF PUDDLE WELD SHOWN REPRESENTS EFFECTIVE FUSION AREA.
5. EACH PUDDLE WELD SHOWN MAY BE REPLACED WITH A SHEAR STUD WELDED THROUGH DECK.
6. SLAB TYPES DESIGNATED WITH "A" ARE AN OPTION TO THE BASIC TYPE. FOR EXAMPLE, SLAB TYPE 'D1A' MAY BE USED IN LIEU OF 'D1'.

5 STEEL DECK SCHEDULE
S-101 — NTS

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

Issued	By	Appd	YYYY.MM.DD
ASI 1	DK	HG	2024.05.10

Revision

Permit/Seal

COLORADO LICENSED
FRANCIS G. CATANZARO
41534
PROFESSIONAL ENGINEER
05/06/2024

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A
Scale: As indicated

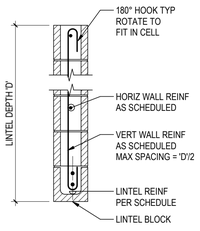
DK	HG	FC	2024.05.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
STRUCTURAL FLOOR PLAN & ROOF PLAN

Revision:
Drawing No.
S-101

<Pick location in Project Information>
5/7/2024 4:47:37 AM

ORIGINAL SHEET - ARCH D

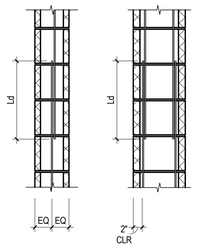


CMU LINTEL SCHEDULE		
OPENING WIDTH	MIN DEPTH 'D'	LINTEL REINFORCING
0' TO 7'-0"	12"	(1) #5
7'-1" TO 12'-0"	24"	(1) #5

NOTES
1. EXTEND LINTEL REINFORCING PAST THE FACE OF EACH JAMB A DISTANCE OF 'Ld' OR 24" MINIMUM, WHICHEVER IS GREATER. WHERE EXTENSION IS NOT POSSIBLE EXTEND REINF 12" MINIMUM AND TERMINATE IN A STANDARD HOOK. AT CORNERS PROVIDE HOOK AND EXTEND PAST CORNER A DISTANCE OF 'Ld'

4 S-501 CMU LINTEL SCHEDULE
NTS

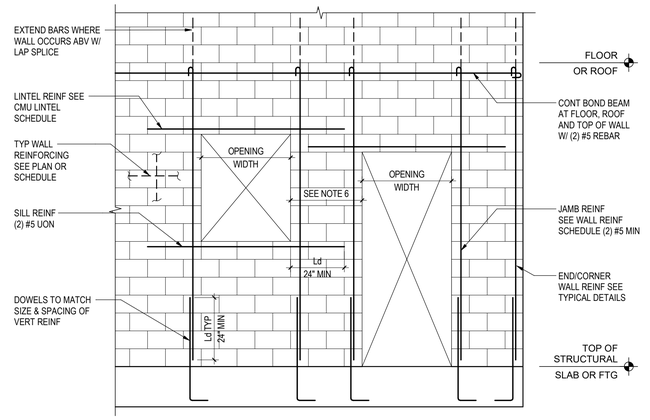
CMU TENSION DEVELOPMENT / LAP SPLICE SCHEDULE (Ld, INCHES)				f'm = 2000 psi
BAR SIZE	BAR COVER OR CLEAR SPACING BETWEEN BARS BEING SPLICED OR DEVELOPED WHICHEVER IS SMALLER			
	2.0"	2.5"	3.0"	≥3.5"
#3	15	12	12	12
#4	24	18	15	15
#5	36	30	24	21
#6	66	54	45	39
#7	87	72	60	51
#8	SEE NOTE 2			
#9	SEE NOTE 2			



SINGLE CURTAIN DOUBLE CURTAIN

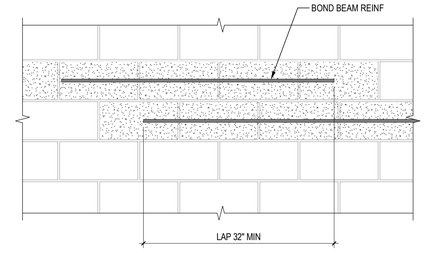
NOTES
1. REINFORCING SHALL BE PLACED AS SHOWN AN AS INDICATED ON THE DRAWINGS.
2. WHEN EPOXY-COATED BARS ARE USED THE TABLE LENGTH SHALL BE INCREASED BY 50%.
3. USE MECHANICAL SPLICES FOR #8 AND LARGER BARS. MECHANICAL SPLICES MAY BE USED IN LIEU OF LAP SPLICES AT CONTRACTOR'S OPTION.
4. MECHANICAL SPLICES SHALL BE TYPE 2 AS DEFINED IN ACI 318 AND SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STERNGTH (Fy) OF THE SPLICED BAR.
5. WHERE MECHANICAL SPLICES ARE USED, STAGGER MECHANICAL SPLICES BY 24" OC.
6. MAXIMUM BAR SIZE:
   6" BLOCK = #6
   8" BLOCK = #8
   12" BLOCK = #9
7. REINFORCEMENT SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN ONE-FIFTH THE REQUIRED LENGTH OF LAP NOR MORE THAN 8".

3 S-501 CMU REBAR DEV LENGTH AND LAP SPLICE
NTS

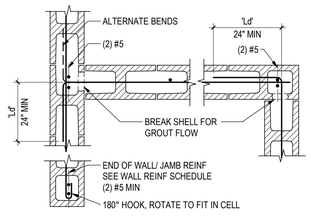


CMU WALL CONSTRUCTION NOTES
1. ALL REINFORCEMENT SHOWN IS IN ADDITION TO TYPICAL WALL REINFORCEMENT
2. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF CONTROL JOINTS.
3. USE VERTICAL BAR POSITIONERS AT 8 FT OC MAX.
4. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM UNITS.
5. HORIZONTAL REINFORCEMENT SHALL BE DISCONTINUOUS THROUGH CONTROL JOINTS EXCEPT BOND BEAMS AT FLOORS, ROOF AND TOP OF WALL AND AT MASONRY LINTELS, WHICH SHALL BE CONTINUOUS.
6. WALL SEGMENTS IN WHICH THE LENGTH IS LESS THAN OR EQUAL TO 5X THE WALL THICKNESS SHALL BE REINFORCED PER TYPICAL CMU PIER DETAIL. REINFORCEMENT SHALL EXTEND TO THE ROOF OR FLOOR ABOVE THE PIER AND THE FOUNDATION OR FLOOR BELOW THE PIER.

2 S-501 CMU WALL CONSTRUCTION
NTS

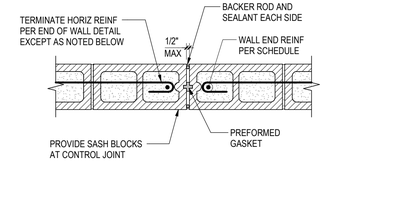


8 S-501 STEP IN BOND BEAM
NTS



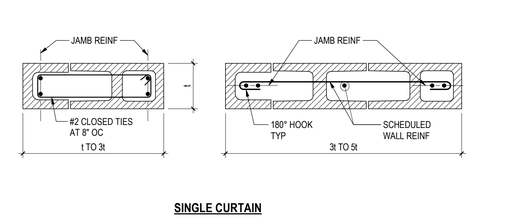
END / INTERSECTION	CORNER
SINGLE CURTAIN	

7 S-501 TYPICAL CMU WALL ENDS AND INTERSECTIONS
NTS



NOTES
1. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF CONTROL JOINTS. IF LOCATION IS NOT SPECIFIED CONTRACTOR SHALL OBTAIN ARCHITECTS APPROVAL OF JOINT LOCATIONS.
2. CONTROL JOINT SPACING SHALL NOT EXCEED 25'-0"
3. HORIZONTAL REINFORCEMENT AT FLOOR, ROOF, AND TOP OF WALL BOND BEAMS SHALL BE CONTINUOUS THRU JOINT.

6 S-501 CMU WALL CONTROL JOINTS
NTS

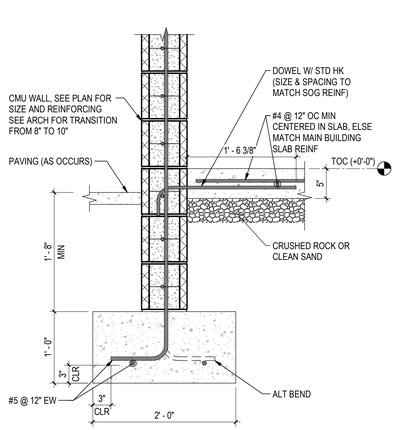


SINGLE CURTAIN

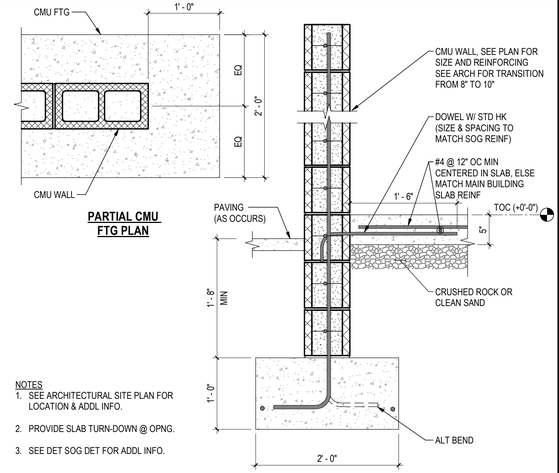
NOTES
1. THIS DETAIL APPLIES TO ALL WALL SEGMENTS WHERE THE LENGTH IS LESS THAN OR EQUAL TO 5X THE WALL THICKNESS.
2. GROUT ALL CELLS SOLID.

5 S-501 CMU PIER REINFORCMENT
NTS

11 S-501 CONCRETE STEM WALL AT DOOR
NTS



10 S-501 TYPICAL FOOTING SECTION
NTS



NOTES
1. SEE ARCHITECTURAL SITE PLAN FOR LOCATION & ADDL INFO.
2. PROVIDE SLAB TURN-DOWN @ OPNG.
3. SEE DET SOG DET FOR ADDL INFO.

9 S-501 TYPICAL EXTERIOR CMU WALL
NTS

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	ASI 1			2024.05.10

Issued

Permit/Seal

05/06/2024
COLORADO LICENSED
FRANCIS C. CATANACH
41534
PROFESSIONAL ENGINEER

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A
Scale: As indicated

DK	HG	FC	2024.05.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

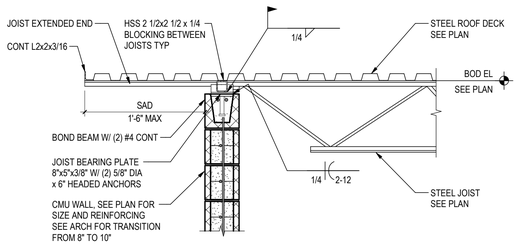
Title
TYPICAL MASONRY DETAILS

Revision:

Drawing No.
S-501

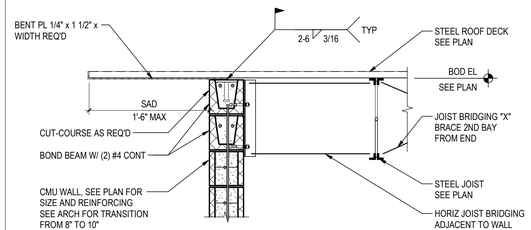
•Pick location in Project Information
5/7/2024 9:47:38 AM

ORIGINAL SHEET - ARCH D



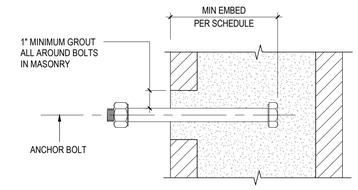
4 EXTENDED ROOF JOIST TO CMU

S-502 NTS



3 EXTENDED BRIDGING SUPORT AT CMU

S-502 NTS

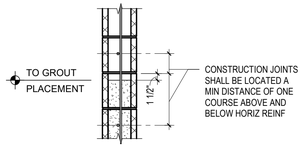


ANCHOR BOLT EMBEDMENT SCHEDULE	
BOLT DIA	EMBEDMENT
1/2"	4"
5/8"	5"
3/4"	6"
7/8"	6"

NOTES
1. ANCHOR BOLTS SHALL BE HEADED BOLTS OR THREADED ROD W/ DOUBLE HEX NUT & SPOILED THREADS AT EMBEDDED END
2. MINIMUM BOLT SPACING SHALL BE 12 BOLT DIAMETERS
3. MINIMUM EDGE DISTANCE SHALL BE 6 BOLT DIAMETERS WITH A MINIMUM OF 6" TO END OF WALL.
4. PROVIDE TEMPLATE FOR POSITIONING OF BOLT

2 EMBEDDED ANCHOR BOLTS

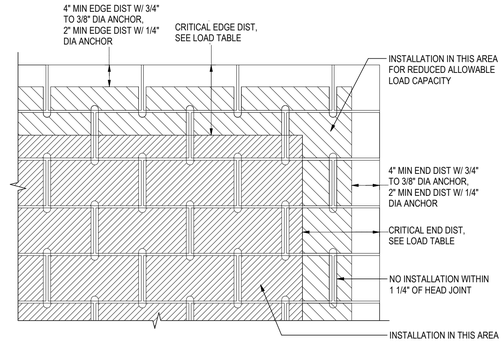
S-502 NTS



NOTES
1. PROVIDE CONSTRUCTION JOINTS WHEN GROUTING IS STOPPED FOR MORE THAN 1 HOUR
2. PROVIDE CLEANOUTS IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR WHEN GROUT POUR HEIGHT EXCEEDS 5' - 0"
3. PROVIDE CLEANOUTS AT EACH VERTICAL REBAR, SPACING OF CLEANOUTS SHALL NOT EXCEED 32" OC
4. CONSTRUCT CLEANOUTS WITH AN OPENING OF SUFFICIENT SIZE TO PERMIT REMOVAL OF DEBRIS. THE MINIMUM OPENING DIMENSION SHALL BE 3 INCHES.

1 CONSTRUCT JOINTS AND CLEANOUTS

S-502 NTS



5 ANCHOR INSTALLATION AT CMU WALL

S-502 NTS

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-7177 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	Issued			2024.05.10

Permit/Seal

05/06/2024

COLORADO LICENSED
FRANCIS G. CATANZARO
41534
PROFESSIONAL ENGINEER

Client/Project
Colorado Mesa University

CMU Bergman Promenade

1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A

Scale: As indicated

DK	HG	FC	2024.05.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

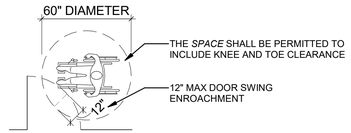
Title
TYPICAL MASONRY DETAILS

Revision:

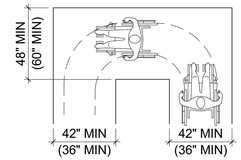
Drawing No.
S-502

ORIGINAL SHEET - ARCH D

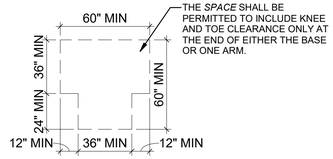
***ACCESSIBILITY STANDARDS ARE TYPICAL, AND MAY NOT ALL OCCUR IN PROJECT**



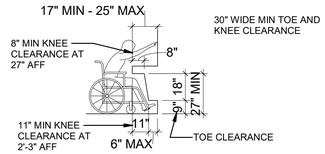
B CIRCULAR TURNING SPACE



D CLEAR WIDTH AT 180° TURN



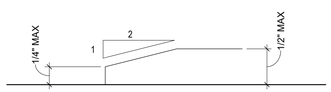
A T-SHAPED TURNING SPACE [304.3]



C TOE AND KNEE CLEARANCES [306.2 306.3]

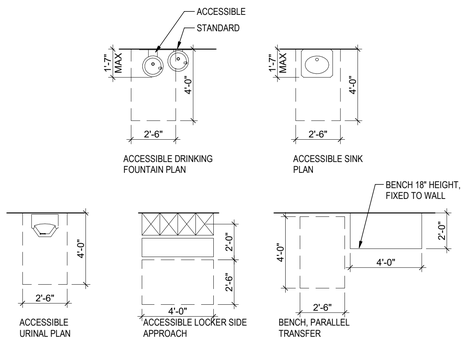
WHEEL CHAIR TURNING SPACE AND TOE AND KNEE CLEARANCES

1/4" = 1'-0"



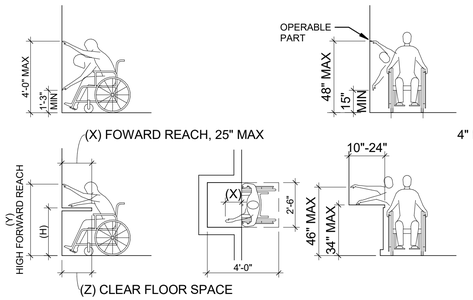
CODE - THRESHOLD ON ACCESSIBLE PATH

NTS



CLEAR FLOOR SPACE REQ

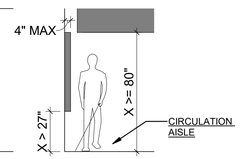
1/4" = 1'-0"



A REACH RANGES [308]

NOTES:
1. Z NOT LESS THAN X.
2. WHEN X < 20", THEN Y = 48" MAX.
3. WHEN X IS 20-25", THEN Y = 44" MAX.

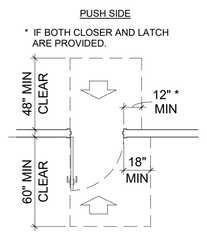
OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN 308.



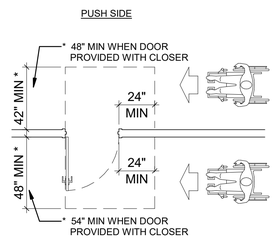
B PROTRUDING OBJECTS [307.2]

REACH RANGES AND PROTRUDING OBJECTS

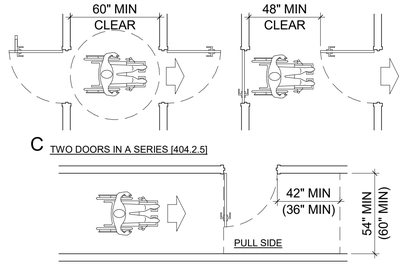
1/4" = 1'-0"



A FRONT APPROACHES [404.2.3.2]



B LATCH APPROACHES [404.2.3.2]



C TWO DOORS IN A SERIES [404.2.5]

D HINGE SIDE APPROACH [404.2.3.2]

FLOOR CLEARANCE

1/4" = 1'-0"

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD
1	100% CD SET	AS		2024.05.10
				2024.05.01

Permit/Seal

Client/Project
Colorado Mesa University
Colorado Mesa University Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A
Scale: As indicated

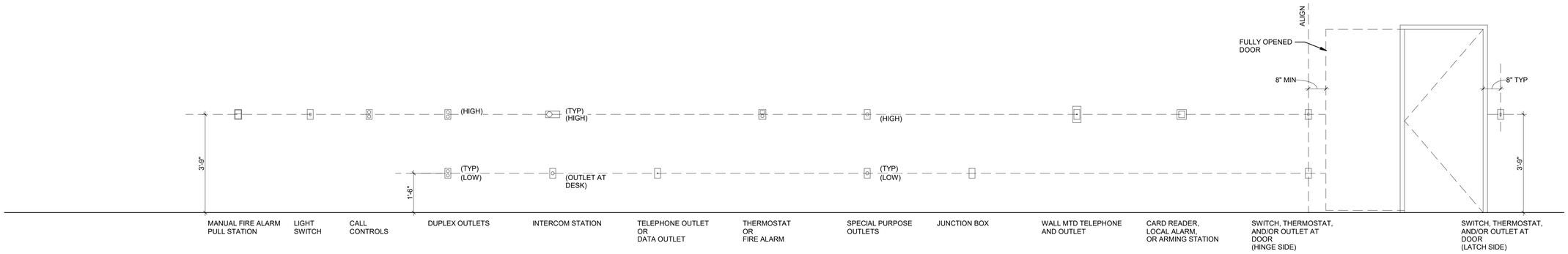
Author	Designer	Checker	2024.05.01
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

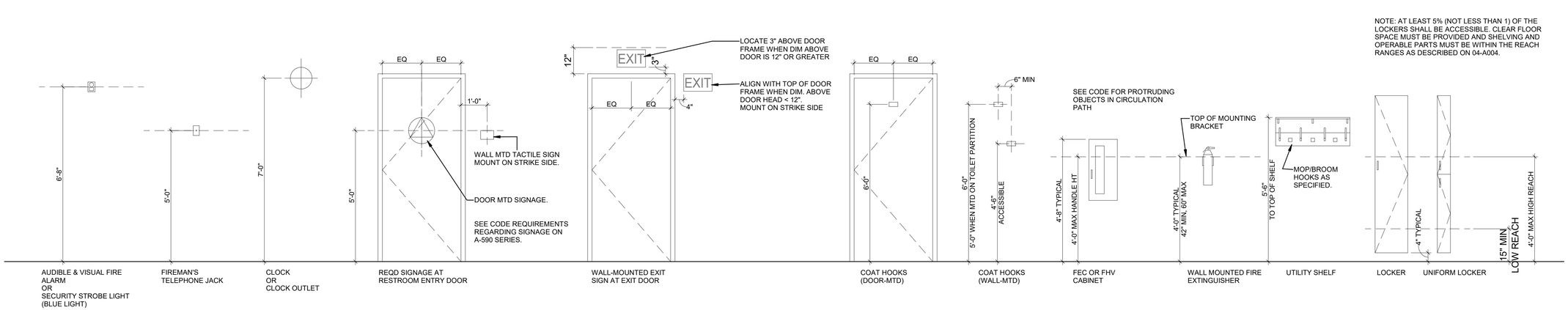
Title
ACCESSIBILITY STANDARDS

Revision:
Drawing No.
A-001

ORIGINAL SHEET - ARCH D

***ACCESSIBILITY STANDARDS AND MOUNTING HEIGHTS ARE TYPICAL, AND MAY NOT ALL OCCUR IN PROJECT**





NOTE: AT LEAST 5% (NOT LESS THAN 1) OF THE LOCKERS SHALL BE ACCESSIBLE. CLEAR FLOOR SPACE MUST BE PROVIDED AND SHELVING AND OPERABLE PARTS MUST BE WITHIN THE REACH RANGES AS DESCRIBED ON 04-A004.

STANDARD MOUNTING HEIGHTS

1/2" = 1'-0"

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD
1	100% CD SET	AS		2024.05.10
				2024.05.01

Permit/Seal

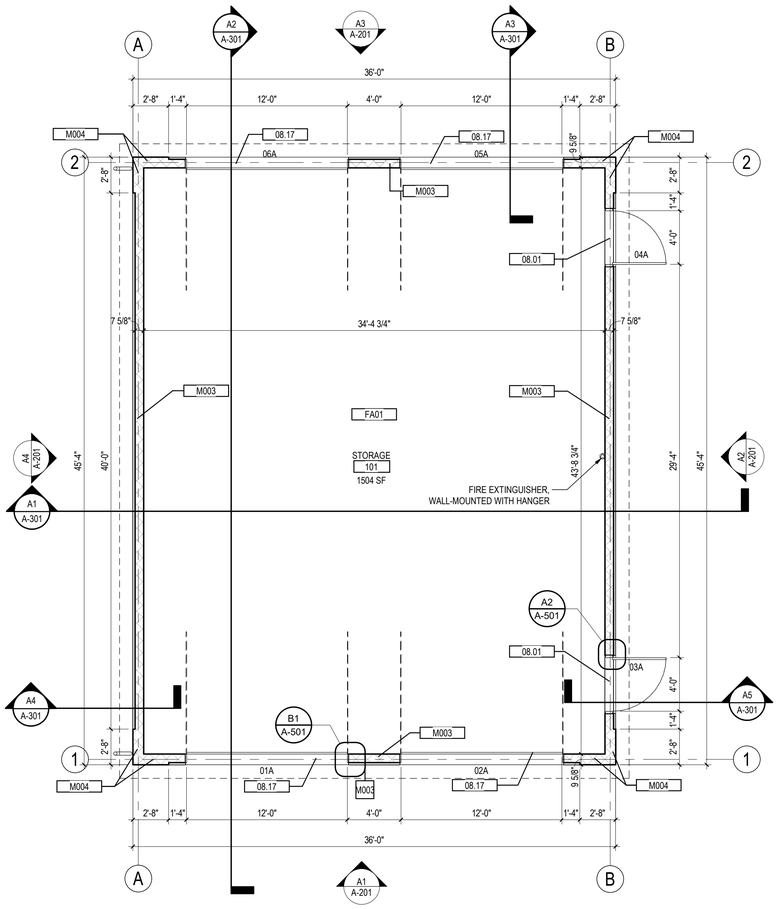
Client/Project
Colorado Mesa University
Colorado Mesa University Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A
Scale: 1/2" = 1'-0"

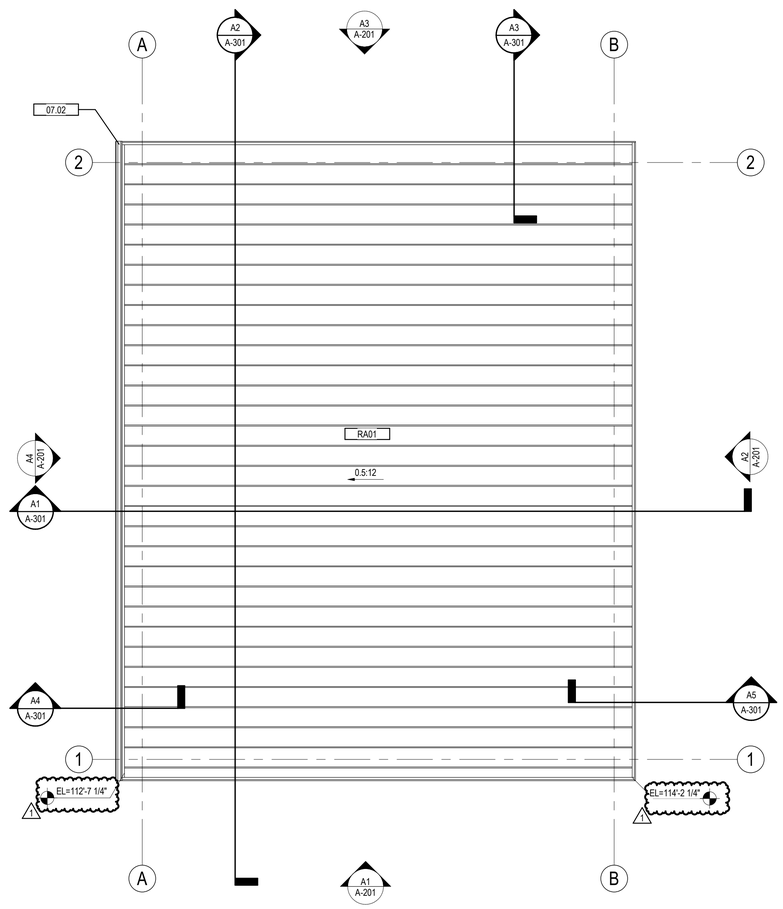
Author	Designer	Checker	2024.05.01
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
MOUNTING HEIGHTS

Revision:
Drawing No.
A-002



A1 FLOOR PLAN
A-101 3/16" = 1'-0"



A2 ROOF PLAN
A-101 3/16" = 1'-0"

FLOOR PLAN NOTES

1	SEE SHEET G-001 FOR GENERAL NOTES, ABBREVIATIONS, AND ANNOTATION SYMBOLS
2	SEE SHEET SERIES A-000 FOR TYPICAL MOUNTING HEIGHTS AND ACCESIBILITY STANDARDS
3	UTILITIES SHOWN FOR REFERENCE ONLY
4	INTERIOR DIMENSIONS ARE TAKEN FROM CENTERLINE GRID, CENTERLINE OF STUD, OR FACE OF FINISH
5	EXTERIOR DIMENSIONS ARE TAKEN FROM BUILDING LINE (EXTERIOR FACE OF GIRT)
6	ALL PARTITIONS ARE TO UNDERSIDE OF STRUCTURE, UNLESS NOTED OTHERWISE.
7	RE: A611 FOR OPENINGS.
8	PROVIDE BACKING FOR WALL MOUNTED EQUIPMENT, ACCESSORIES, AND CASEWORK; PER MANUFACTURERS RECOMMENDATIONS
9	CLEAR (CLR) DIMENSIONS ARE TO FACE OF FINISH.
10	PROVIDE 3' SPLASH BLOCKS AT ALL DOWNSPOUT LOCATIONS, UNLESS NOTED OTHERWISE.
11	CONTRACTOR TO VERIFY ALL REQ. DIMENSIONS AND CLEARANCES TYPICAL AT ALL APPLIANCES

ROOF PLAN NOTES

1	ROOF TYPE IS RA01, UNLESS NOTED OTHERWISE
2	REF: MECHANICAL DRAWINGS FOR EQUIPMENT SCHEDULES & WEIGHTS

SHEET NOTES

07.02	SHEET METAL FLASHING AND TRIM - GUTTER, COLOR TO MATCH METAL ROOF.
08.01	HOLLOW METAL DOORS AND FRAMES, COLOR TO MATCH WALL TYPE M003 SANDSTONE BUFF COLOR.
08.17	STEEL SECTIONAL OVERHEAD DOOR
FA01	CAST-IN-PLACE, CONCRETE SLAB-ON-GRADE, RE: STRUCTURAL DRAWINGS FOR DETAILS ON FILL REQUIREMENTS
M003	8" CMU BLOCK WALL. FINISH TO MATCH EXISTING SANDSTONE BUFF STUCCO COLOR AT TRACK BUILDING.
M004	10816 CMU BLOCK WALL WITH 8" OFFSET CORES 2:2 BEVEL, RE: C2/A-501. FINISH TO MATCH EXISTING RED BRICK MASONRY COLOR AT BASEBALL FIELD BUILDING.
RA01	STRUCTURAL STANDING SEAM METAL ROOF WITH METAL PLATE AT SOFFIT OVERHANG, COLOR TO MATCH ADJACENT ATHLETIC BUILDINGS.

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	AS-1			2024.05.10

AS-1	100% CD SET			2024.05.01
Issued				YYYY.MM.DD

Permit/Seal

Client/Project
Colorado Mesa University

Colorado Mesa University Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A
Scale: 3/16" = 1'-0"

Author	Designer	Checker	2024.05.01
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
FLOOR PLAN & ROOF PLAN

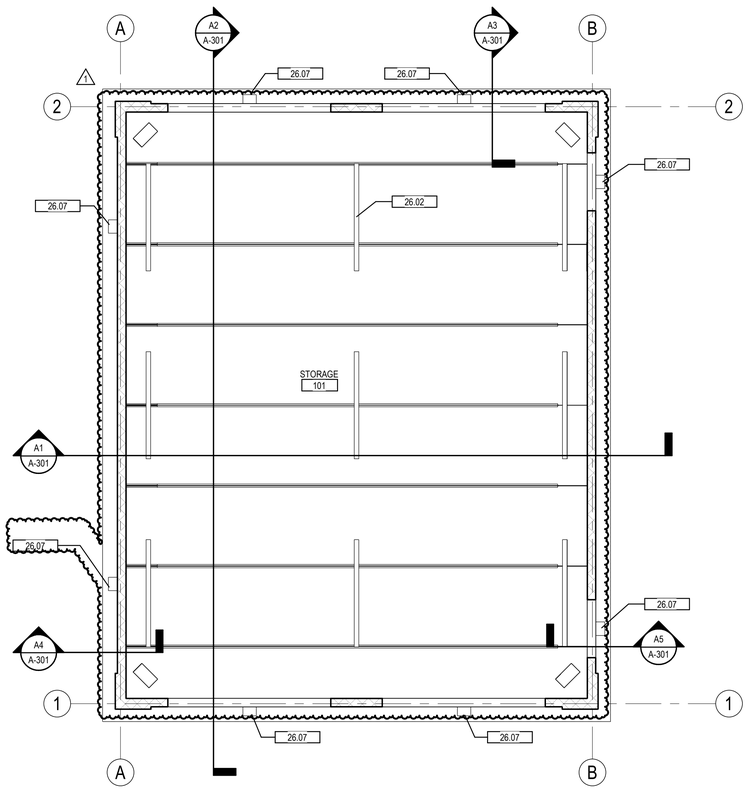
Revision:1
Drawing No.
A-101

REFLECTED CEILING PLAN NOTES

1	PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS ON SITE AND NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
2	LIGHTS ARE SHOWN FOR REFERENCE ONLY. RE: LIGHTING AND ELECTRICAL DRAWINGS FOR SPECIFICATION INFORMATION. NEW LIGHTING LOCATIONS TAKE PRECEDENCE OVER ALL OTHER CEILING AND PLENUM MOUNTED ITEMS. G.C. SHALL COORDINATE ANY DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION.
3	PRIOR TO CLOSING UP ANY CEILING, ANY PLENUM SYSTEMS SHALL BE INSPECTED AND TESTED BY CONTRACTOR AND PROPER AUTHORITIES HAVING JURISDICTION TO ENSURE THEIR PROPER INSTALLATION AND FUNCTION.
4	REFER TO ELECTRICAL DRAWINGS FOR LIGHT SWITCH LOCATIONS.
5	CEILING IS OPEN TO STRUCTURE, UNLESS NOTED OTHERWISE.

SHEET NOTES

26.02	TYPICAL STORAGE LIGHT FIXTURE - @ 9' AFF. RE: ELECTRICAL DRAWINGS FOR LOCATION.
26.07	EXTERIOR LIGHTING - @ 9' AFF. RE: ELECTRICAL DRAWINGS FOR LOCATION.



A1 / A-121 **REFLECTED CEILING PLAN**

3/16" = 1'-0"

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	ASI 1			2024.05.10

No.	Issued	By	Appd	YYYY.MM.DD
1	100% CD SET			2024.05.01

Permit/Seal

Client/Project
Colorado Mesa University

Colorado Mesa University Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701

File Name: N/A

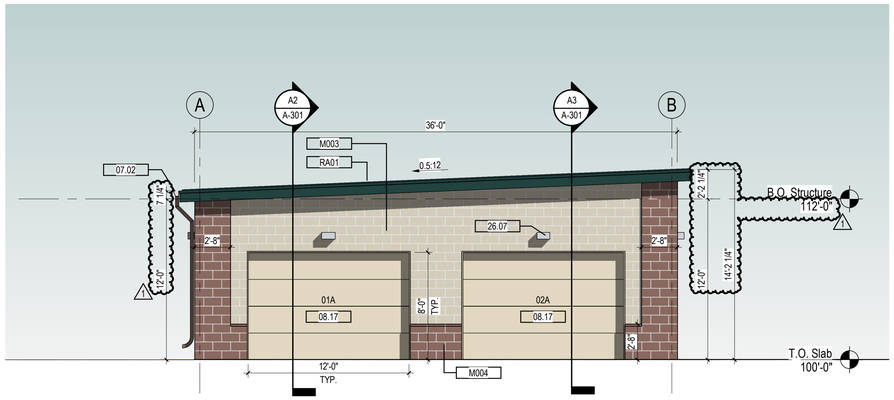
Scale: 3/16" = 1'-0"

Author	Designer	Checker	2024.05.01
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

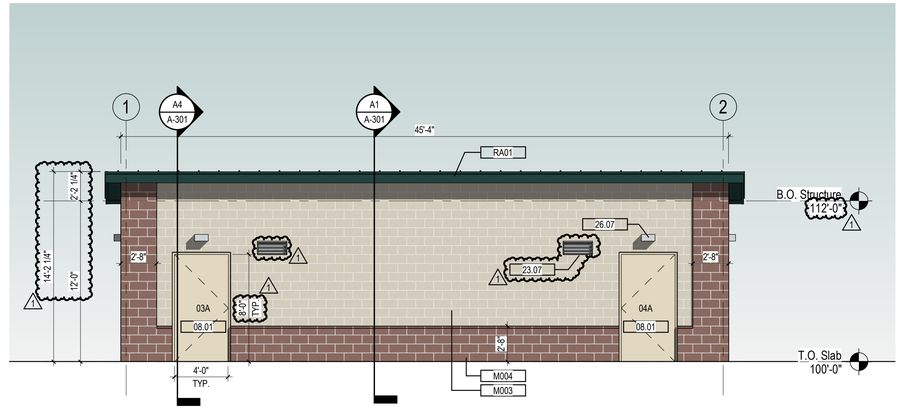
Title
REFLECTED CEILING PLAN

Revision: 1

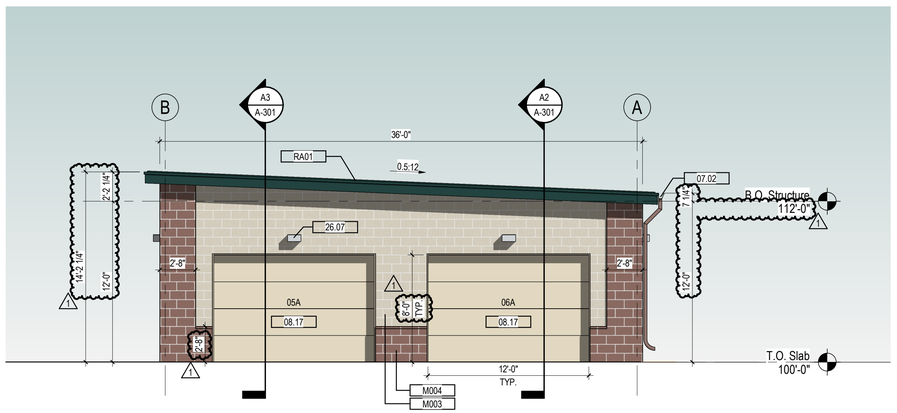
Drawing No.
A-121



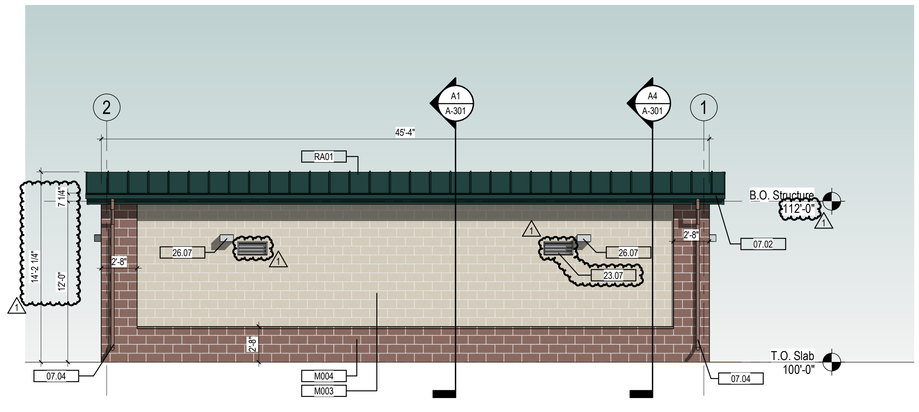
A1 A-201 **SOUTH ELEVATION**
3/16" = 1'-0"



A2 A-201 **EAST ELEVATION**
3/16" = 1'-0"



A3 A-201 **NORTH ELEVATION**
3/16" = 1'-0"



A4 A-201 **WEST ELEVATION**
3/16" = 1'-0"

BUILDING ELEVATION NOTES

1	REFERENCE A-611 FOR DOOR TYPES AND SCHEDULE.
2	PROVIDE WALL PACK LIGHTING COMPLYING WITH CENTERED ABOVE EACH EXTERIOR DOOR AND OHD'S.
3	REF: SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FINISHES.
4	ALIGN LOUVERS TO CENTER OF PANEL OR CENTER OF OPENINGS WHERE APPLICABLE.

SHEET NOTES

07.02	SHEET METAL FLASHING AND TRIM - GUTTER, COLOR TO MATCH METAL ROOF.
07.04	SHEET METAL FLASHING AND TRIM - DOWNSPOUT; REF: CIVIL, COLOR TO MATCH WALL TYPE M004.
08.01	HOLLOW METAL DOORS AND FRAMES, COLOR TO MATCH WALL TYPE M003 SANDSTONE BUFF COLOR.
08.17	STEEL SECTIONAL OVERHEAD DOOR.
23.07	MECHANICAL LOUVER - REF: MECHANICAL, COLOR TO MATCH WALL TYPE M003 SANDSTONE BUFF COLOR.
26.07	EXTERIOR LIGHTING - @ 9' AFF. RE: ELECTRICAL DRAWINGS FOR LOCATION.
M003	8" CMU BLOCK WALL. FINISH TO MATCH EXISTING SANDSTONE BUFF STUCCO COLOR AT TRACK BUILDING.
M004	10816 CMU BLOCK WALL WITH 8" OFFSET CORES 2.2 BEVEL, RE: C2/A-501. FINISH TO MATCH EXISTING RED BRICK MASONRY COLOR AT BASEBALL FIELD BUILDING.
RA01	STRUCTURAL STANDING SEAM METAL ROOF WITH METAL PLATE AT SOFFIT OVERHANG, COLOR TO MATCH ADJACENT ATHLETIC BUILDINGS.

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	AS-1			2024.05.10

No.	Issued	By	Appd	YYYY.MM.DD
AS-1	100% CD SET			2024.05.01

Permit/Seal

Client/Project
Colorado Mesa University
Colorado Mesa University Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

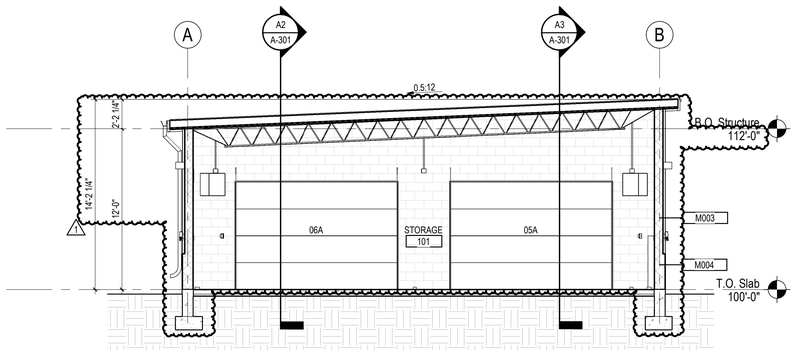
Project No.:2270481701
File Name: N/A
Scale: 3/16" = 1'-0"

Author	Designer	Checker	2024.05.01
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

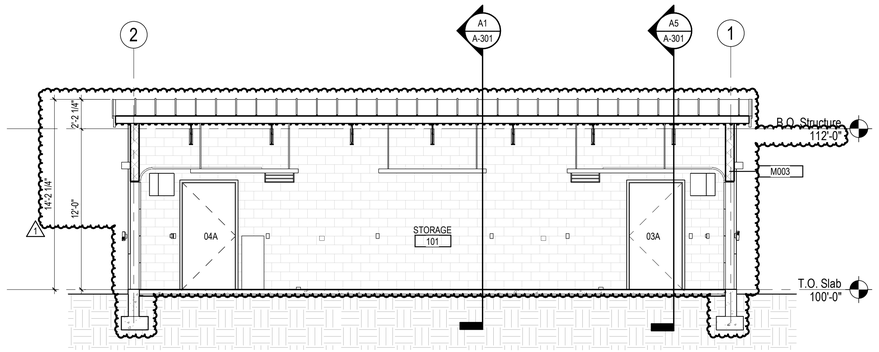
Title
EXTERIOR ELEVATIONS

Revision: 1
Drawing No.
A-201

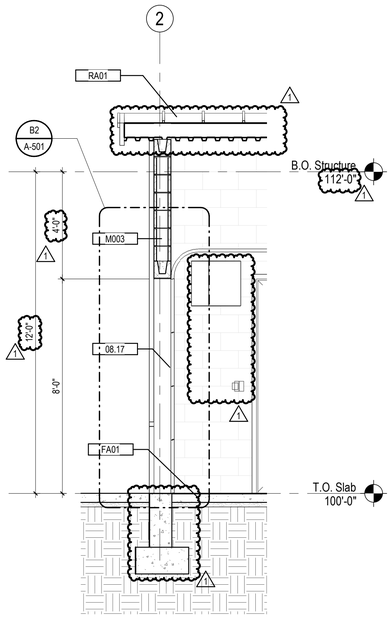
ORIGINAL SHEET - ARCH D



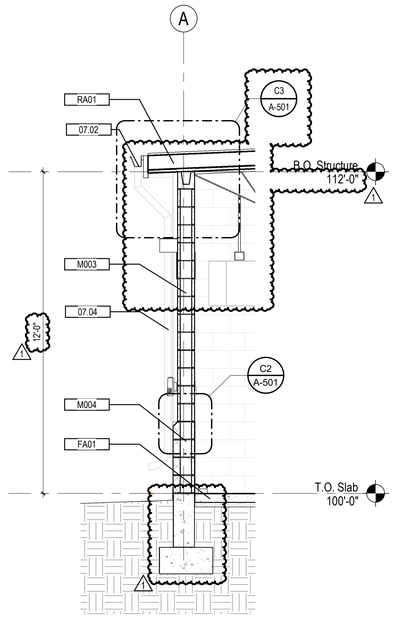
A1 A-301 **BUILDING SECTION (EAST / WEST)**
3/16" = 1'-0"



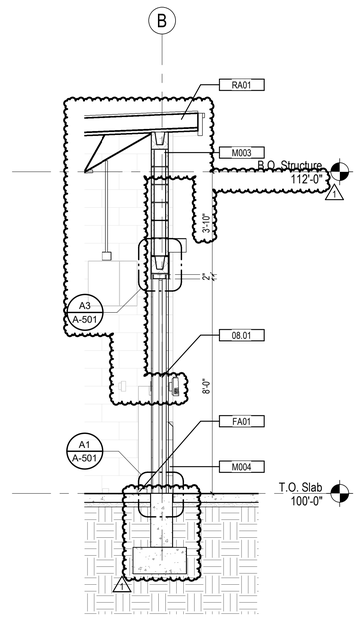
A2 A-301 **BUILDING SECTION (NORTH / SOUTH)**
3/16" = 1'-0"



A3 A-301 **WALL SECTION - OVERHEAD DOOR**
3/8" = 1'-0"



A4 A-301 **WALL SECTION - WEST**
3/8" = 1'-0"



A5 A-301 **WALL SECTION - HM DOOR**
3/8" = 1'-0"

BUILDING SECTION NOTES

1	CONTRACTOR TO COORDINATE ALL COILING DOOR BOXES AND OPERATORS WITH ALL DUCTS, CONDUITS, AND PIPING.
2	PEMB METAL BUILDING FRAMES SHOWN FOR REFERENCE ONLY.

SHEET NOTES

07.02	SHEET METAL FLASHING AND TRIM - GUTTER, COLOR TO MATCH METAL ROOF.
07.04	SHEET METAL FLASHING AND TRIM - DOWNSPOUT; REF: CIVIL. COLOR TO MATCH WALL TYPE M004.
08.01	HOLLOW METAL DOORS AND FRAMES, COLOR TO MATCH WALL TYPE M003 SANDSTONE BUFF COLOR.
08.17	STEEL SECTIONAL OVERHEAD DOOR
FA01	CAST-IN-PLACE, CONCRETE SLAB-ON-GRADE. RE: STRUCTURAL DRAWINGS FOR DETAILS ON FILL REQUIREMENTS
M003	8" CMU BLOCK WALL. FINISH TO MATCH EXISTING SANDSTONE BUFF STUCCO COLOR AT TRACK BUILDING.
M004	10816 CMU BLOCK WALL WITH 8" OFFSET CORES 2:2 BEVEL, RE: C2/A-501. FINISH TO MATCH EXISTING RED BRICK MASONRY COLOR AT BASEBALL FIELD BUILDING.
RA01	STRUCTURAL STANDING SEAM METAL ROOF WITH METAL PLATE AT SOFFIT OVERHANG, COLOR TO MATCH ADJACENT ATHLETIC BUILDINGS.

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	AS1			2024.05.10

No.	Issued	By	Appd	YYYY.MM.DD
AS1	100% CD SET			2024.05.01

Permit/Seal

Client/Project
Colorado Mesa University
Colorado Mesa University Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A

Scale: As indicated

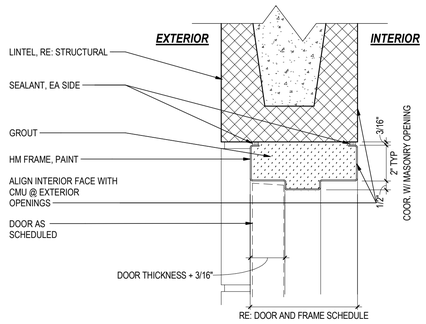
Author	Designer	Checker	2024.05.01
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
SECTIONS

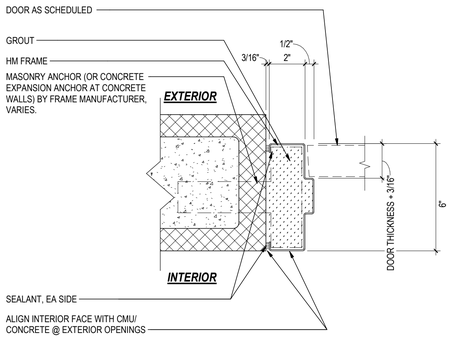
Revision: 1

Drawing No.
A-301

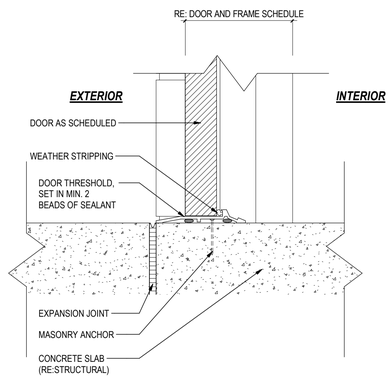
ORIGINAL SHEET - ARCH D



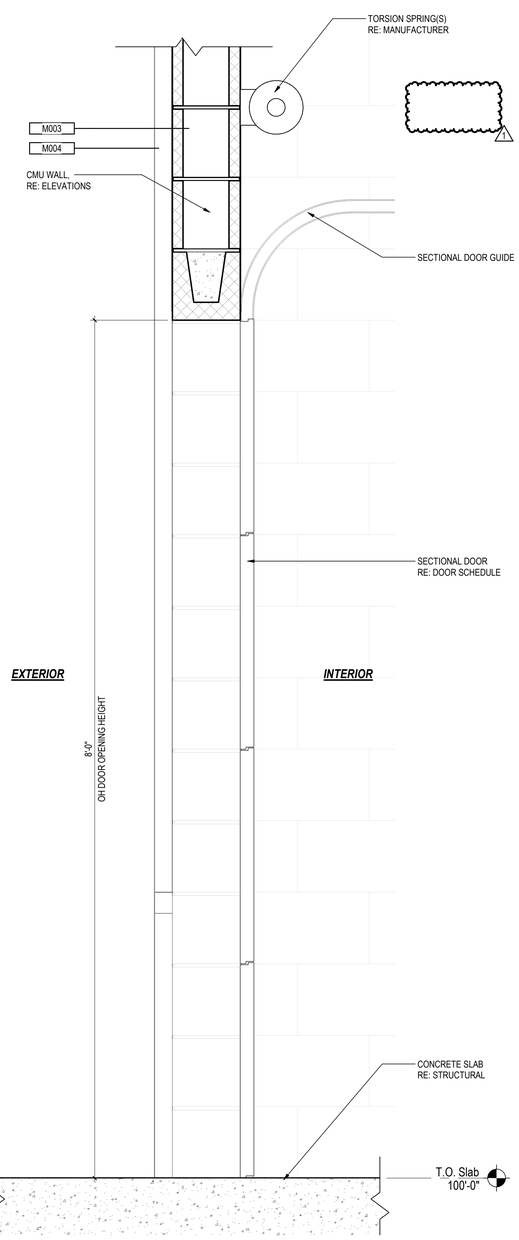
A3 HM DOOR HEAD DETAIL
A-501 — 3" = 1'-0"



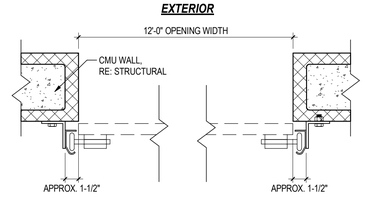
A2 HM DOOR JAMB DETAIL
A-501 — 3" = 1'-0"



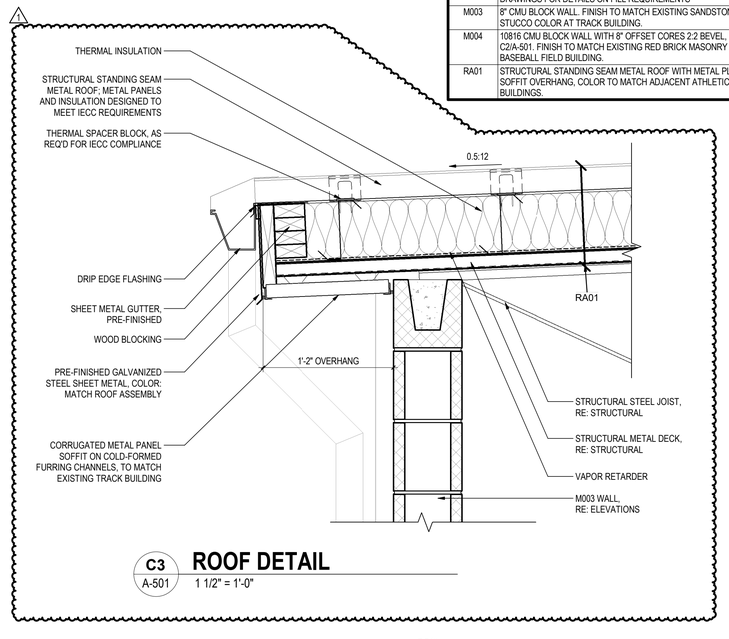
A1 HM DOOR THRESHOLD DETAIL
A-501 — 3" = 1'-0"



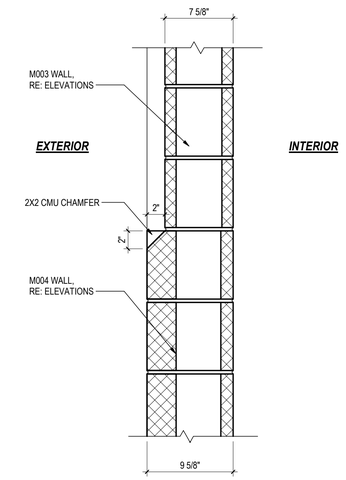
B2 OVERHEAD DOOR DETAIL
A-501 — 1 1/2" = 1'-0"



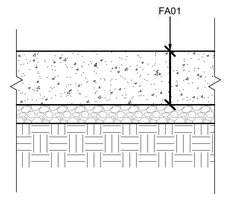
B1 OVERHEAD DOOR JAMB DETAIL
A-501 — 1 1/2" = 1'-0"



C3 ROOF DETAIL
A-501 — 1 1/2" = 1'-0"



C2 WALL CHAMFER DETAIL
A-501 — 1 1/2" = 1'-0"



C1 FA01 - SLAB ON GRADE
A-501 — 1 1/2" = 1'-0"

ASSEMBLY NOTES

1	REFER TO METAL BUILDING MANUFACTURERS DETAILS FOR STANDING SEAM METAL ROOF ASSEMBLY.
2	REFER TO OVERHEAD COILING DOOR MANUFACTURER FOR INSTALLATION REQUIREMENTS.

SHEET NOTES

FA01	CAST-IN-PLACE, CONCRETE SLAB-ON-GRADE, RE: STRUCTURAL DRAWINGS FOR DETAILS ON FILL REQUIREMENTS
M003	8" CMU BLOCK WALL. FINISH TO MATCH EXISTING SANDSTONE BUFF STUCCO COLOR AT TRACK BUILDING.
M004	10816 CMU BLOCK WALL WITH 8" OFFSET CORES 2:2 BEVEL, RE: C2/A-501. FINISH TO MATCH EXISTING RED BRICK MASONRY COLOR AT BASEBALL FIELD BUILDING.
RA01	STRUCTURAL STANDING SEAM METAL ROOF WITH METAL PLATE AT SOFFIT OVERHANG, COLOR TO MATCH ADJACENT ATHLETIC BUILDINGS.

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	ASI 1			2024.05.10

No.	Issued	By	Appd	YYYY.MM.DD
ASI 1	100% CD SET			2024.05.01

Permit/Seal

Client/Project
Colorado Mesa University
Colorado Mesa University Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A
Scale: As indicated

Author	Designer	Checker	2024.05.01
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
DETAILS

Revision: 1
Drawing No.
A-501

<Pick location in Project Information>
5/10/2024 3:15:03 PM
ORIGINAL SHEET - ARCH D

DOOR SCHEDULE

No.	Door: Clear Dim. Width	Door: Clear Dim. Height	Door: No. of Panels	Door: Panel Widths: Panel 1 Width	Door: Panel Widths: Panel 2 Width	Door: Thickness	Door: Type	Door: Mat'l	Door: Finish	Door: HDWR Set	Frame: Type	Frame: Mat'l	Frame: Finish	Opening: Fire Label	Opening: Glaz	Comments
T.O. Slab																
01A	12'-0"	8'-0"				1 1/2"	OH	STL	PAINT	OH-01	F2	-	PAINT	-		MANUAL OPERATED OVERHEAD DOOR
02A	12'-0"	8'-0"				1 1/2"	OH	STL	PAINT	OH-01	F2	-	PAINT	-		MANUAL OPERATED OVERHEAD DOOR
03A	4'-0"	8'-0"	1	4'-0"	0' - 0"	1 3/4"	F	HM	PAINT	01	F1	HM	PAINT	-	-	LOCKSET PER CMU STANDARDS
04A	4'-0"	8'-0"	1	4'-0"	0' - 0"	1 3/4"	F	HM	PAINT	01	F1	HM	PAINT	-	-	LOCKSET PER CMU STANDARDS
05A	12'-0"	8'-0"				1 1/2"	OH	STL	PAINT	OH-01	F2	-	PAINT	-		MANUAL OPERATED OVERHEAD DOOR
06A	12'-0"	8'-0"				1 1/2"	OH	STL	PAINT	OH-01	F2	-	PAINT	-		MANUAL OPERATED OVERHEAD DOOR

1 1

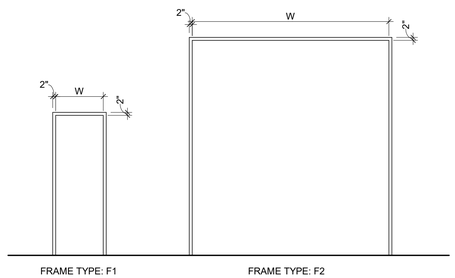
DOOR AND HARDWARE NOTES

1	ALL DOOR FRAMES TO BE PAINTED.
2	ALL DOORS TO RECEIVE HARDWARE. ALL HARDWARE TO BE ADA COMPLIANT AND UL RATED.
3	DOOR HARDWARE ALTERNATE: SECURITY VENDOR TO COORDINATE CARD READER ACCESS WITH BUILDING APPROVED SYSTEM AND TENANT REQUIREMENTS. REFER TO OWNER FOR INTENDED LOCATIONS OF CARD READERS. MOUNT CARD READERS 44" AFF TO CENTERLINE OF DEVICE, TYP. TOP OF CARD READER SHALL NOT BE MOUNTED ABOVE 48" AFF.
4	DOOR HARDWARE ALTERNATE: SECURITY VENDOR SHALL OBTAIN A SEPARATE ACCESS CONTROL PERMIT FROM THE BUILDING DEPARTMENT PRIOR TO INSTALLATION OF ANY ACCESS CONTROL DEVICES OR EQUIPMENT.
6	KICK PLATES SHALL BE 8" HIGH, STAINLESS STEEL TO MATCH BASE BUILDING FINISH AND SHALL BE APPLIED TO KICK SIDE OF DOOR U.N.O.
7	ALL LOCKSETS SHALL BE KEYED TO THE BUILDING MASTER. COORDINATE REQUIREMENTS WITH TENANT AND BUILDING OWNER.
8	REFER TO SPECIFICATIONS FOR DOOR HARDWARE.

1

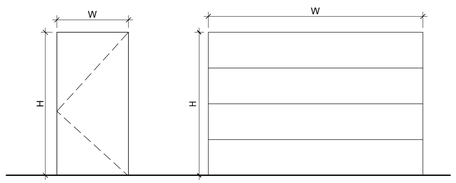
DOOR SCHEDULE ABBREVIATIONS

AL	ALUMINUM
ANO	ANODIZED
GL	GLAZING TYPE
HM	HOLLOW METAL
SC	SOLID CORE WOOD DOOR
SSTL	STAINLESS STEEL
STL	STEEL



FRAME TYPE: F1 FRAME TYPE: F2

DOOR FRAMES (COMMON)



F
FLUSH

OH
OVERHEAD
SECTIONAL DOOR

DOOR TYPES (COMMON)

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	AS1			2024.05.10

No.	Issued	By	Appd	YYYY.MM.DD
AS1	100% CD SET			2024.05.01

Permit/Seal

Client/Project
Colorado Mesa University

Colorado Mesa University Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A

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

Author	Designer	Checker	2024.05.01
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
DOOR SCHEDULE

Revision: 1

Drawing No.
A-611

<PICK location in Project Information>
5/10/2024 3:15:03 PM

ORIGINAL SHEET - ARCH D

STANDING SEAM ROOF TO MATCH TRACK BUILDING ROOF COLOR

DOORS TO MATCH EXISTING SANDSTONE BUFF STUCCO COLOR AT TRACK BUILDING

CMU WALL TO MATCH EXISTING SANDSTONE BUFF STUCCO COLOR AT TRACK BUILDING

CMU WALL TO MATCH EXISTING RED BRICK MASONRY COLOR AT BASEBALL FIELD BUILDING

A1 / A-901 **3D VIEW**

12" = 1'-0"

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant

No.	By	Appd	YYYY.MM.DD
1	AS| 1		2024.05.10
Revision			

No.	By	Appd	YYYY.MM.DD
AS| 1			2024.05.10
100% CD SET			2024.05.01
Issued			

Permit/Seal

Client/Project
Colorado Mesa University

Colorado Mesa University Bergman Promenade
1100 North Ave
Grand Junction, CO 81501

Project No.:2270481701

File Name: N/A

Scale: 12" = 1'-0"

Author	Designer	Checker	2024.05.01
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
AXONOMETRIC VIEW

Revision: 1

Drawing No.
A-901

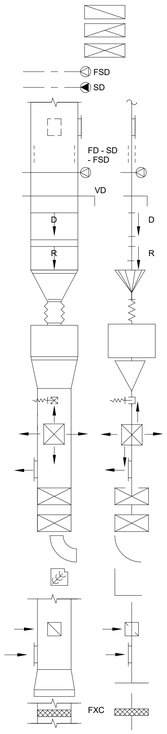
<Plot location is Project Information>
5/10/2024 3:13:54 PM

ORIGINAL SHEET - ARCH D

MECHANICAL ELEMENTS / VALVING

- EXISTING EQUIPMENT OR PIPE TO BE REMOVED.
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- BUTTERFLY VALVE
- BALL VALVE
- SWING CHECK VALVE
- LIFT CHECK VALVE
- GATE VALVE, ANGLE
- GLOBE VALVE, ANGLE
- DIAPHRAGM VALVE
- BALANCING VALVE
- CBV — CIRCUIT SETTING BALANCING VALVE
- THREE WAY CONTROL VALVE
- TWO WAY CONTROL VALVE
- S — SOLENOID VALVE
- PRESSURE REDUCING VALVE (PRV)
- TPV — TEMPERATURE/PRESSURE RELIEF VALVE
- AIR VENT — HYDRAULIC SEPARATOR
- RELIEF/SAFETY VALVE
- GAS COCK
- AUTOMATIC FILL VALVE
- MV — MANUAL AIR VENT
- AV — AUTOMATIC AIR VENT (EXTEND DISCHARGE TO DRAIN)
- FLOW METER-VENTURI
- FLOW METER-ORIFICE
- DIRECTION OF FLOW
- R D — DIRECTION OF PITCH-RISE OR DROP
- STRAINER
- STRAINER WITH BLOW OFF VALVE
- PIPE RISING UP
- PIPE DROPPING DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- UNION - SCREWED OR FLANGED
- STEAM LEAK DETECTOR
- FSD — FIRE SMOKE DAMPER
- CO — CARBON MONOXIDE
- CD — CARBON DIOXIDE
- AIR SEPARATOR
- A — ANCHOR
- G — GUIDE
- EJ — EXPANSION JOINT
- FS — FLOW SWITCH
- TT — TEMPERATURE TRANSMITTER
- PT/PS — PRESSURE TRANSMITTER OR PRESSURE SWITCH
- TH — THERMOMETER
- GAUGE WITH GAUGE COCK & SYPHON (STEAM)
- AQUASTAT
- GAS PRESSURE REGULATOR
- FLOAT OPERATED CONTROL VALVE
- STEAM TRAP
- EXPANSION LOOP
- VB — VACUUM BREAKER
- T — THERMOSTAT
- S — DIGITAL SENSOR
- OR PUMP
- HEAT EXCHANGER

HVAC & DUCTWORK SYMBOLS



- SECTION THROUGH RETURN DUCT
- SECTION THROUGH EXHAUST AIR DUCT
- SECTION THROUGH SUPPLY OR OUTSIDE AIR DUCT
- FIRE / SMOKE DAMPER
- SMOKE DAMPER
- SUPPLY OR OUTSIDE AIR DUCT
- ACCESS DOOR (BOTTOM OR SIDE)
- ACOUSTICALLY LINED DUCT
- FIRE DAMPER, SMOKE DAMPER, FIRE/SMOKE DAMPER
- MANUAL VOLUME DAMPER
- INCLINED DROP IN DIRECTION OF ARROW
- INCLINED RISE IN DIRECTION OF ARROW
- TRANSITION, RECTANGULAR TO ROUND
- FLEXIBLE DUCT
- IN-LINE FAN
- TRANSITION, RECTANGULAR
- SPIN-IN COLLAR INTO ADAPTER ON TOP OF DUCT
- CEILING SUPPLY AIR REGISTER/GRILLE
- SIDEWALL SUPPLY AIR REGISTER (SR)
- ELBOW TURNED DOWN
- ELBOW TURNED UP
- ELBOW, RADIUS TYPE
- ELBOW, SQUARE OR RECTANGULAR TYPE WITH AIRFOIL TURNING VANES
- CEILING RETURN AIR REGISTER (RR)
- SIDEWALL RETURN AIR REGISTER (RR)
- OPEN END DUCT
- FLEXIBLE CONNECTION

LINE DESIGNATION SYMBOLS

- CHWR — CHILLED WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CA — COMPRESSED AIR
- CR — CONDENSER WATER RETURN
- CS — CONDENSER WATER SUPPLY
- D — DRAIN
- HPR — HEAT PUMP RETURN
- HPS — HEAT PUMP SUPPLY
- HWR — HOT WATER RETURN
- HWS — HOT WATER SUPPLY
- G — NATURAL GAS
- RH — REFRIGERANT HIGH PRESSURE VAPOR
- R — REFRIGERANT LIQUID AND VAPOR LINE
- RS — REFRIGERANT SUCTION / VAPOR
- SMR — SNOWMELT RETURN
- SMS — SNOWMELT SUPPLY
- V — VENT PIPING

MECHANICAL SHEET LIST

RESPONSIBLE DIVISION:

UNLESS OTHERWISE INDICATED ALL HEATING, VENTILATING, AIR CONDITIONING, PLUMBING, AND OTHER MECHANICAL EQUIPMENT, MOTORS, AND CONTROLS SHALL BE FURNISHED, SET IN PLACE AND WIRED AS FOLLOWS:

ITEM	FURNISHED	SET	POWER WIRED	CONTROL WIRED
EQUIPMENT	23	23	26	--
COMBINATION MAGNETIC MOTOR STARTERS, MAGNETIC MOTOR STARTERS, VFD'S AND CONTACTORS	23(1)	26	26(2)	23
FUSED AND UNFUSED DISCONNECT SWITCHES, THERMAL OVERLOAD SWITCHES AND HEATERS, MANUAL MOTOR STARTERS	26	26	26	--
MANUAL-OPERATING AND MULTI-SPEED SWITCHES	23	26	26	26
CONTROLS, RELAYS, TRANSFORMERS	23	23	26	23
THERMOSTATS (LOW VOLTAGE) AND TIME SWITCHES	23	23	26	23
THERMOSTATS (LINE VOLTAGE)	23	23	26	26
TEMPERATURE CONTROL PANELS	23	23	26	23
MOTOR AND SOLENOID VALVES, DAMPER MOTORS, PE & EP SWITCHES	23	23(2)	--	23(2)
PUSH-BUTTON STATIONS AND PILOT LIGHTS	23	23(2)	--	23(2)
HEATING, COOLING, VENTILATION AND AIR CONDITIONING CONTROLS	23	23	26	23
EXHAUST FAN SWITCHES	23	26	26	23(2)

SUBSCRIPT FOOTNOTES:
1. MOTOR STARTER TO INCLUDE CONTROL TRANSFORMER, HOA SWITCH, (1) NO AND (1)NC AUXILIARY CONTACT, AND "ON" AND "OFF" PILOT LIGHTS.
2. IF ITEM IS FOR LINE VOLTAGE, SET IN PLACE AND CONNECT UNDER DIVISION 26. WHERE FACTORY MOUNTED ON EQUIPMENT OR ATTACHED TO PIPING OR DUCTS AND USING LINE VOLTAGE FURNISH AND SET UNDER DIVISION 23, CONNECT UNDER DIVISION 26.

SUBSTITUTIONS:

A. SUBSTITUTIONS: SUBSTITUTION OF SPECIFIED EQUIPMENT WILL BE ALLOWED THROUGH A PRIOR APPROVAL PROCESS INITIATED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT INTENDED SUBSTITUTION AT LEAST FIVE DAYS PRIOR TO BID FOR APPROVAL FROM ENGINEER. SUBMITTAL SHALL INCLUDE CAPACITIES, DIMENSIONS AND OPERATING INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT. SUBSTITUTION SHALL OCCUR AT NO COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF APPROVED SUBSTITUTION AND SHALL INCUR ALL COSTS ASSOCIATED WITH THE SUBSTITUTION INCLUDING STRUCTURAL MODIFICATIONS, SPACE LAYOUT AND REDESIGN COSTS. SEE ALSO DIVISION I GENERAL REQUIREMENTS.

EXAMINATION OF SITE, DRAWINGS, SPECIFICATIONS:

A. EXAMINE CAREFULLY THE SITE AND CONDITIONS OF THE SITE. PROVIDE ALL NECESSARY EQUIPMENT AND LABOR TO INSTALL A COMPLETE WORKING SYSTEM WITHIN THE SITE CONDITIONS.

B. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND 5 DAYS PRIOR TO BIDDING REPORT ANY ERRORS, OMISSIONS, INCONSISTENCIES, AND CONFLICTS TO THE ENGINEER TO BE REMEDIED IN AN ADDENDUM TO THE PROJECT PRIOR TO BID TIME.

C. DRAWINGS ARE DIAGRAMMATIC AND CATALOG NUMBERS GIVEN ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE CAPACITY OF THE EQUIPMENT MEETS THE DRAWING REQUIREMENTS AND SHALL NOT DIMENSION FROM THE MECHANICAL, PLUMBING, OR PIPING DRAWINGS.

D. THE LATEST ADOPTED VERSIONS OF THE INTERNATIONAL BUILDING CODES SHALL BE USED AS REQUIRED. THIS WILL ALSO INCLUDE THE LATEST ADOPTED VERSIONS OF THE MECHANICAL, PLUMBING, AND ENERGY CONSERVATION CODES. ALL METHODS AND MATERIALS REQUIRED BY THESE CODES SHALL BE REQUIRED BY THESE SPECIFICATIONS UNLESS INDICATED OTHERWISE. OTHER APPLICABLE LOCAL CODES AND ORDINANCES SHALL BE AS REQUIRED AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BE KNOWLEDGEABLE OF THESE REQUIREMENTS.

E. WHERE INSTALLATION PROCEDURES OR ANY PART THEREOF ARE REQUIRED TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIAL BEING INSTALLED, PRINTED COPIES OF THESE RECOMMENDATIONS SHALL BE FURNISHED TO THE ENGINEER PRIOR TO INSTALLATION. INSTALLATION OF THE ITEM WILL NOT BE ALLOWED TO PROCEED UNTIL THE RECOMMENDATIONS ARE RECEIVED. FAILURE TO FURNISH THESE RECOMMENDATIONS CAN BE CAUSE FOR REJECTION OF THE MATERIAL.

ABBREVIATIONS:

44"	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF DEVICE
A	AMPS
A.D.	ACCESS DOOR
AAV	ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONING UNIT
AC	ABOVE COUNTER
AD	AREA DRAIN (SEE SYMBOLS)
AFC	ABOVE FINISHED CEILING
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AFCI	ARC FAULT CIRCUIT INTERRUPTERS
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AP	ACCESS PANEL OR DOOR
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO / VIDEO
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
BAS	BUILDING AUTOMATION SYSTEM
BB	BASEBOARD
BD	BACK DRAFT DAMPER
BFP	BACK FLOW PREVENTOR
BL	BOILER
BLDG	BUILDING
BLW	BELOW
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
C	CHILLER
CAFCI	COMBINATION ARC FAULT CIRCUIT INTERRUPTERS
CAP	CAPACITY
CB	CIRCUIT BREAKER
CBV	CIRCUIT BALANCING VALVE
CCT	CORRELATED COLOR TEMPERATURE
CKT	CIRCUIT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CONTR	CONTRACTOR
CRI	COLOR RENDERING INDEX
CT	COOLING TOWER
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT
CU	COPPER
CUH	CABINET UNIT HEATER
CVB	CONSTANT VOLUME BOX
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGRAM
DIFF	DIFFERENTIAL
DISCH	DISCHARGE
DIV	DIVISION
DN	DOWN
DS	DUCT SILENCER
DWG	DRAWING
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR GRILLE/REGISTER
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EF	EXHAUST FAN
EFF	EFFICIENCY
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EM	EMERGENCY FUNCTION
ENT	ENTERING
EMT	ELECTRIC METALLIC TUBE
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	END SWITCH
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EX	EXHAUST
EXPAN	EXPANSION
EXT	EXTERNAL
F	DEGREES FAHRENHEIT
FA	FREE AREA
FC	FAN COIL UNIT
FC	FOOTCANDLE
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FD	FLOOR DRAIN
FIN	FINISHED
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FP	FIRE PROTECTION
FP	FIRE PUMP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FSD	FIRE/SMOKE DAMPER
FT	FEET
FXC	FLEXIBLE CONNECTION
GND	GROUND
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GEC	GROUND ELECTRODE CONDUCTOR
GF	GROUND FAULT CIRCUIT INTERRUPTER
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRS/LB	GRS/LB GRAINS PER POUND
H2O	WATER
HB	HOSE BIBB
HD	HEAD (SEE SCHEDULES)
HP	HEAT PUMP
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HTR	HEATER
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IN	INCHES
INV	INVERT
JBOX	JUNCTION BOX
K	KELVIN
KW	KILOWATT
KVA	KILO VOLT - AMPS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LV	LAVATORY
LB	POUND
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LIN	LINEAR
LIQ	LIQUID
LM	LUMEN
LRA	LOCKED ROTOR AMPS
LV	LOUVER
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MED	MEDIUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MUA	MAKE-UP AIR UNIT
N	NEUTRAL
NC	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NL	NIGHT / SECURITY LIGHT - DO NOT SWITCH
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OCC	OCCUPIED
OCP	OVER CURRENT PROTECTION
OD	OUTSIDE DIAMETER
OL	OVERLOAD
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
PBD	PARALLEL BLADE DAMPER
PD	PRESSURE DROP
PH	PHASE
POS	POSITIVE PRESSURE
POS	POINT OF SALES
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TRANSMITTER
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR GRILLE / REGISTER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REL	RELIEF
REQD	REQUIRED
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR GRILLE / REGISTER
SC	SHORT CIRCUIT
SCA	SHORT CIRCUIT AVAILABLE
SCCR	SHORT CIRCUIT CURRENT RATING
SCH	SCHEDULE
SD	SMOKE DAMPER
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SH	SENSIBLE HEAT
SH	SHOWER
SP	STATIC PRESSURE
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SS	SAFETY SHOWER
STD	STANDARD
STL	STEEL
SYS	SYSTEM
TEMP	TEMPERATURE
TR	TRANSFER GRILLE / REGISTER
TR	TAMPER RESISTANT
TT	TEMPERATURE TRANSMITTER
TTB	TELECOMMUNICATIONS TERMINAL BACKBOARD
TYP	TYPICAL
TX	TRANSFORMER
UC	UNDERCUT DOOR
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UNOCC	UNOCCUPIED
UR	URINAL
V	VOLTS
VA	VOLT AMPERE
VA	VALVE
VAV	VARIABLE AIR VOLUME UNIT
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VOLT	VOLTAGE
VTR	VENT THROUGH ROOF
W	WIDTH
W	WATTS
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WC	WATER CLOSET
WG	WATER GAUGE
WP	WEATHERPROOF
WPIU	WEATHERPROOF IN-USE
WSR	WITHSTAND RATING
XFMR	TRANSFORMER

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant
Bighorn Consulting Engineers, Inc.
Mechanical & Electrical Engineers
386 Indian Road
Grand Junction, CO 81501
Phone (970) 241-8799

Revision	By	Appd	YYYY.MM.DD

2024.05.10
2024.05.31

ISSUED FOR CONSTRUCTION DOCUMENTS — ASI 1

Permit/Seal

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A

Scale: 12" = 1'-0"

Designer	SB	YYYY.MM.DD
WG/GC	RL/DB	10/16/19

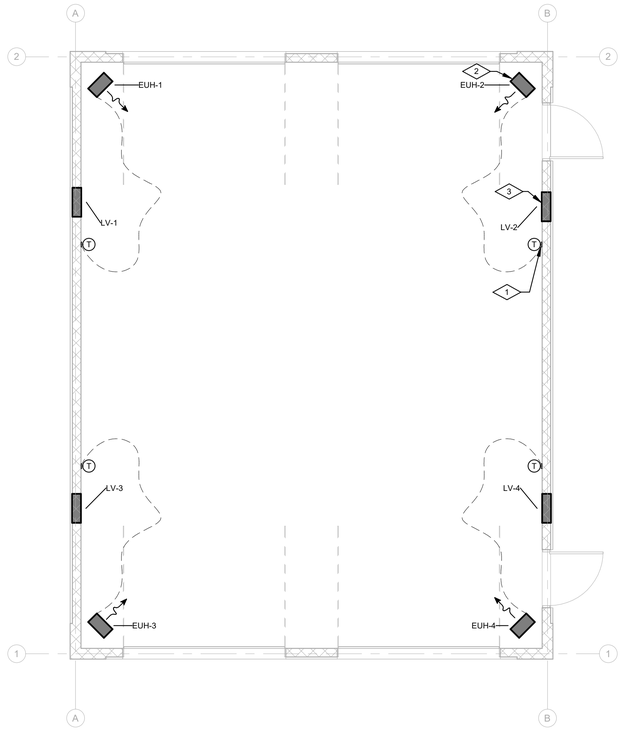
Title
MECHANICAL COVER SHEET

Revision:

Drawing No.
M0-1

5/10/2024 1:23:26 PM

ORIGINAL SHEET - ARCH D



1 MECHANICAL - FLOOR PLAN
M1-1 3/16" = 1'-0"

ELECTRIC UNIT HEATER SCHEDULE

MARK	SERVICE	CFM	HEATING CAPACITY (kW)	ELECTRICAL				MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
				FLA (A)	VOLTS	PHASE	FREQUENCY			
EUH-1	STORAGE SPACE HEATING	400	3.3	13.8 A	240 V	1	60 Hz	RAYWALL	UH SERIES	SEE NOTE 1
EUH-2	STORAGE SPACE HEATING	400	3.3	13.8 A	240 V	1	60 Hz	RAYWALL	UH SERIES	SEE NOTE 1
EUH-3	STORAGE SPACE HEATING	400	3.3	13.8 A	240 V	1	60 Hz	RAYWALL	UH SERIES	SEE NOTE 1
EUH-4	STORAGE SPACE HEATING	400	3.3	13.8 A	240 V	1	60 Hz	RAYWALL	UH SERIES	SEE NOTE 1

NOTES:
1. PROVIDE WITH 24 VOLT TRANSFORMER FOR THERMOSTAT OPERATION, SUMMER FAN SWITCH, FAN DELAY SWITCH, CEILING BRACKET, POWDER COATED EPOXY FINISH, THERMOSTAT, AND ELECTRICAL DISCONNECT.

LOUVER SCHEDULE

MARK	SERVICE	WIDTH	HEIGHT	THICKNESS	MATERIAL	SCREEN TYPE	MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
LV-1	VENTILATION	2' - 2"	1' - 0"	VERIFY	ALUMINUM	BIRD	GREENHECK	EAD-635 SERIES	SEE NOTE 1
LV-2	VENTILATION	2' - 2"	1' - 0"	VERIFY	ALUMINUM	BIRD	GREENHECK	EAD-635 SERIES	SEE NOTE 1
LV-3	VENTILATION	2' - 2"	1' - 0"	VERIFY	ALUMINUM	BIRD	GREENHECK	EAD-635 SERIES	SEE NOTE 1
LV-4	VENTILATION	2' - 2"	1' - 0"	VERIFY	ALUMINUM	BIRD	GREENHECK	EAD-635 SERIES	SEE NOTE 1

NOTES:
1. PROVIDE WITH MOTORIZED ACTUATOR, HOUSING, AND BIRD SCREEN. LOUVER TO BE INTERLOCKED WITH A MANUAL WALL SWITCH. COORDINATE ACTIVATION SWITCH LOCATION WTH ARCHITECT PRIOR TO INSTALLATION.

SHEET M1-1 KEYNOTES

NOTE NUMBER	
1	COORDINATE FINAL LOCATION OF THERMOSTAT WITH ARCHITECT PRIOR TO INSTALLATION. THERMOSTATS LOCATED ON EXTERIOR WALLS TO BE PROVIDED WITH INSULATED BACKING.
2	COORDINATE ELECTRIC UNIT HEATER MOUNTINGINSTALLATIONS WITH STRUCTURE
3	COORDINATE MOTORIZED LOUVER INSTALLTION WITH WALL STRUCTURE. LOUVERS TO BE OPERATED VIA MANUAL SWITCH. COORDINATE SWITCH LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant
Bighorn Consulting Engineers, Inc.
Mechanical & Electrical Engineers
386 Indian Road
Grand Junction, CO 81501
Phone (970) 241-8709

Revision	By	Appd	YYYY.MM.DD
ASI 1			2024.05.10
CONSTRUCTION DOCUMENTS			2024.05.01
Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A
Scale: 3/16" = 1'-0"

Designer	Checker	YYYY.MM.DD
WG/GC	RL/DB	2024.05.01

Title
MECHANICAL - FLOOR PLAN

Revision:
Drawing No.
M1-1

5/10/2024 1:25:26 PM
ORIGINAL SHEET - ARCH D

FIRE ALARM EQUIPMENT LEGEND

- FACP — FIRE ALARM CONTROL PANEL
- F — FIRE ALARM PULL STATION
- FIRE ALARM HORN
- FIRE ALARM STROBE
- FIRE ALARM HORN/STROBE
- CEILING MOUNTED SPEAKER
- D — DUCT DETECTOR
- R — REMOTE LAMP
- S P — SMOKE DETECTOR - PHOTOELECTRIC
- H 135° — 135° STANDARD HEAT DETECTOR
- PIR — PIR DETECTOR
- DH — DOOR HOLD - MAGNETIC HOLD
- FS — FLOW SWITCH
- TS — TAMPER SWITCH

COMMUNICATION LEGEND

- CLOCK ONLY
- CLOCK / PA SPEAKER WALL MOUNTED
- S — ROUND CEILING MOUNTED SPEAKER
- S — SQUARE SPEAKER
- C — INTERCOM PUSH TO CALL SWITCH
- WAP — WIRELESS ACCESS POINT ABOVE THE CEILING
- PROJECTOR — ABOVE THE CEILING PROJECTOR CONNECTION
- HDMI — WALL MOUNTED HDMI
- PLAIN DATA OUTLET
- 80" — PLAIN DATA OUTLET WITH MOUNTING HEIGHT
- COMBINATION DATA/TELEPHONE
- FLOOR MOUNTED COMBINATION DATA/TELEPHONE
- CEILING MOUNTED COMBINATION DATA/TELEPHONE
- TELEVISION OUTLET

SECURITY SYSTEM LEGEND

- SECURITY CAMERA
- HC — ADA DOOR OPERATOR PUSH BUTTON
- DS — ELECTRIC DOOR STRIKE
- CR — CARD READER FOR DOOR OPERATOR

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK TO COMPLY WITH LATEST EDITION OF NEC, IECC AND ALL APPLICABLE GOVERNING CODES.
2. FIELD COORDINATION DURING CONSTRUCTION IS IMPERATIVE. CONTRACTORS BIDDING THIS WORK MUST MAKE REASONABLE ALLOWANCES FOR UNFORESEEN CONTINGENCIES.
3. ELECTRIC UTILITY TO ADVISE OWNER AND/OR THE ELECTRICAL ENGINEER PRIOR TO SERVICE MODIFICATION REQUIRING COST TO THE OWNER.

WIRING:

1. ALL WIRING IS SHOWN DIAGRAMMATICALLY ON DRAWING, FIELD VERIFY ALL CONDITIONS PRIOR TO ROUGH-IN.
2. ALL CONDUITS AND CONVEYANCES SHALL BE CONCEALED. IN THE EVENT THAT A NEW DEVICE IS BEING INSTALLED IN AN EXISTING DRYWALL PARTITION, PROVIDE A CUT IN TYPE BOX AND FISH FLEXIBLE CONDUIT DOWN INSIDE THE WALL FROM ABOVE THE CEILING AND REPAIR THE DRYWALL AROUND THE CONDUIT. TRANSITION TO EMT ONCE ABOVE THE CEILING.
3. SIZES OF WIRE AND CABLES ARE BASED UPON COPPER CONDUCTORS, UNLESS OTHERWISE INDICATED. ALL CIRCUITS SHALL CONTAIN (2) #12 AWG WITH (1) #12 GND IN 1/2" CONDUIT UNLESS NOTED OTHERWISE.
4. ALL BRANCH CIRCUITS WITH HOME RUNS OVER 50 FEET, WILL BE SIZED ONE SIZE LARGER.
5. ALL PENETRATIONS IN OR THROUGH FIRE RATED PARTITIONS SHALL BE FIRE STOPPED IN SUCH A WAY THAT THE PENETRATION MATCHES THE FIRE RATING OF THE WALL.
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION BETWEEN THE APPROPRIATE DISCIPLINES AND CONTRACTORS.
7. COORDINATE ALL DEVICE, FIXTURE AND HARDWARE COLOR SELECTIONS WITH THE ARCHITECT PRIOR TO MAKING SHOP DRAWING SUBMITTALS.
8. COORDINATE THE MOUNTING HEIGHTS OF ALL RECEPTACLES MOUNTED ABOVE COUNTERS, CASEWORK AND APPLIANCE RECEPTACLES WITH ARCHITECTURAL ELEVATIONS.
9. BRANCH CIRCUIT AND SPECIAL SYSTEMS WIRING FOR DEVICES ON WALLS IN FINISHED AREAS WHICH CANNOT BE CONCEALED SHALL BE INSTALLED IN SURFACE MOUNTED RACEWAY.
10. ALL EXPOSED CONDUITS, BOXES, ETC. IN ROOMS TO BE PAINTED SHALL BE PAINTED TO MATCH THE SURROUNDING SURFACE. EXPOSED CONDUITS, BOXES, ETC. IN ROOMS WHICH ARE NOT PAINTED MAY BE LEFT UN-PAINTED. EXPOSED CONDUIT, BOXES, ETC. ON THE EXTERIOR OF BUILDINGS SHALL BE PAINTED TO MATCH THE SURROUNDING SURFACE AS CLOSELY AS POSSIBLE.
11. THE CONTRACTOR IS RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR REPLACEMENT OF ALL WALLS, CEILING OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION AND/OR INSTALLATION OF ELECTRICAL WORK.
12. PROVIDE ELECTRICAL CONNECTION TO ALL FIRE, SMOKE, AND FIRE / SMOKE DAMPERS INCLUDING POWER AND FIRE ALARM. VERIFY EXACT SIZE AND FINAL LOCATION OF ALL DAMPERS WITH THE MECHANICAL CONTRACTOR. ALL ROOFTOP UNITS RATED AT MORE THAN 2000 CFM WILL BE OUTFITTED WITH A DUCT DETECTOR IN THE RETURN DUCT. ALL ROOFTOP UNITS RATED AT MORE THAN 15000 CFM WILL BE OUTFITTED WITH A DUCT DETECTOR IN BOTH THE SUPPLY AND RETURN DUCT AT ROOFTOP LEVEL AND IN THE RETURN DUCT AT EVERY LEVEL THAT IS SERVED. ELECTRICAL CONTRACTOR WILL PROVIDE A REMOTE TEST STATION AND ALL WIRING NECESSARY TO COMPLETE INSTALLATION.
13. REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH PLUMBING AND HVAC EQUIPMENT AND OWNER/GENERAL CONTRACTOR FURNISHED EQUIPMENT.

LIGHTING LEGEND

NOTES:

SYMBOLS SHOWN ARE STANDARD. VARIATION AND/OR COMBINATIONS MAY BE USED ON THE PLANS. THIS LIST SHOWS STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS; HOWEVER, WHEREVER THE SYMBOL ON THE PROJECT DRAWINGS OCCUR, THE ITEM SHALL BE PROVIDED AND INSTALLED.

VARIATION AND/OR COMBINATION MAY BE USED ON THE PLANS.

A NUMBER NEXT TO A RECEPTACLE OR DEVICE INDICATES A CIRCUIT NUMBER.

AN UPPER CASE LETTER NEXT TO A SWITCH INDICATES THE FUNCTION OF THE SWITCH. A LOWER CASE LETTER INDICATES THE SWITCH CIRCUIT.

AN UPPER CASE LETTER NEXT TO A LIGHT FIXTURE INDICATES THE TYPE OF FIXTURE. REFER TO THE LUMINAIRE SCHEDULE FOR FIXTURE SPECIFICATIONS. A LOWER CASE LETTER NEXT TO A LIGHT CORRESPONDS TO THE SWITCH DESIGNATION.

SWITCHES

- S — SINGLE POLE SWITCH
- S_2 — TWO POLE SWITCH
- S_3 — THREE-WAY SWITCH
- S_4 — FOUR-WAY SWITCH
- S_D — DIMMER SWITCH
- S_{3D} — 3 WAY DIMMER SWITCH - (4D INDICATES A 4WAY DIMMER)
- S_{DR} — DOOR ACTIVATED SWITCH
- S_{MA} — WALL MOUNTED DUAL TECHNOLOGY MANUAL ON / AUTO OFF VACANCY SENSOR SWITCH
- S_{LV} — LOW VOLTAGE LIGHT SWITCH
- S_{TO} — MANUAL MOTOR STARTER
- S_P — PILOT LIGHT SWITCH
- S_{OS} — AUTO ON / AUTO OFF LIGHT SWITCH
- S_{MO} — DUAL TECHNOLOGY MOTION / OCCUPANCY SENSOR LIGHT SWITCH
- S^D_{MA} — MANUAL ON / AUTO OFF DIMMING LIGHT SWITCH
- S_K — KEY OPERATED LIGHT SWITCH
- S_T — MANUAL ON - TIMED OFF LIGHT SWITCH
- D — CEILING MOUNTED DAYLIGHT SENSOR
- MA MA — CEILING MOUNTED DUAL TECHNOLOGY MANUAL ON / AUTO OFF VACANCY SENSOR
- S_{SC} — SCENE CONTROL STATION
- S_{MS} — UNIT LIGHTING MANAGEMENT CONTROL STATION.

LIGHT FIXTURES

- A — 1'x4' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID, FLANGE OR SURFACE MOUNTED
- A — 2'x4' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID, FLANGE OR SURFACE MOUNTED
- A — 2'x2' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID, FLANGE OR SURFACE MOUNTED
- OPEN STRIP FIXTURE
- WALL BRACKET LINEAR FIXTURE
- A — WALL MOUNTED SCONCE LIGHT FIXTURE
- A — RECESSED DOWNLIGHT CAN FIXTURE
- A — SURFACE CEILING OR PENDANT MOUNTED FIXTURE
- EX2 — DOUBLE FACE EXIT SIGN, WALL AND CEILING MOUNTED
- EX1 — SINGLE FACE EXIT SIGN, WALL AND CEILING MOUNTED
- EM — WALL MOUNTED EMERGENCY LIGHT
- EMR — EMERGENCY EXTERIOR EGRESS FIXTURE

LUMINAIRES:

1. COORDINATE THE LOCATION OF ALL LIGHTING EQUIPMENT INCLUDING BUT NOT LIMITED TO THE LUMINAIRES, SWITCHES WITH THE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ALL OTHER TRADES AS REQUIRED. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONAL LOCATION OF LIGHT FIXTURES.
2. LIGHTING FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE AND SHALL NOT BE SUPPORTED FROM THE T-BAR CEILING GRID.
3. THE ELECTRICAL CONTRACTOR IS TO CONFIRM THE LIGHT FIXTURES ORDERED WILL BE COMPATIBLE WITH THE CEILING TYPES AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING THE FIXTURES.
4. VERIFY LUMINAIRE MOUNTING REQUIREMENTS AND OVERALL HEIGHT OF ALL PENDANT MOUNTED FIXTURES PRIOR TO ORDERING.
5. ALL LIGHT FIXTURES NEED TO BE COMPATIBLE WITH THE SWITCHES AND CONTROLS BEING PROVIDED.
6. THE LIGHTING PACKAGE SHALL BE APPROVED BY BOTH THE ARCHITECT AND ENGINEER AS APPROVED EQUAL BEFORE BID. NO LIGHT FIXTURE SHALL BE ORDERED UNTIL THE LIGHT FIXTURE SUBMITTAL PACKAGE HAS BEEN APPROVED IN WRITING BY THE ARCHITECT, GENERAL CONTRACTOR AND ELECTRICAL ENGINEER.
7. COORDINATE LUMINAIRE MOUNTING REQUIREMENTS PRIOR TO PLACING ORDER.

EMERGENCY AND EXIT LIGHTS:

1. PROVIDE EMERGENCY AND EXIT SIGNS AS PER ALL GOVERNING CODES.
2. EXIT SIGNS CONNECTED TO A REMOTE EMERGENCY HEAD REQUIRE EXTRA BATTERY CAPACITY TO OPERATE THE REMOTELY LOCATED EMERGENCY HEAD FOR EGRESS AWAY FROM THE BUILDING.
3. REFER TO THE PLANS FOR THE NUMBER OF FACES REQUIRED AT EACH EXIT. FIELD ADJUST THE LOCATION OF THE EXIT SIGNS AND NUMBER OF FACES FOR THE BEST VISIBILITY POSSIBLE.
4. ALL LIGHTING FIXTURES DENOTED WITH "EM" SHALL BE PROVIDED WITH AN ENGINEER APPROVED EMERGENCY LED DRIVER OR INVERTER TO OPERATE THE FIXTURE IN AN EMERGENCY MODE TO MEET ALL CURRENT GOVERNING CODES AND WILL BE CIRCUITED TO THE UNSWITCHED SIDE OF THE LIGHTING CIRCUIT.
5. ALL LIGHT FIXTURES DESIGNATED WITH "EM" OR SPECIFIED WITH AN EMERGENCY FUNCTION SHALL BE PROVIDE WITH ONE OF THE FOLLOWING.
   a. INTEGRAL TEST SWITCH
   b. REMOTE INFRARED HANDHELD DEVICE
   c. INTEGRAL ELECTRONIC DEVICE THAT AUTOMATICALLY PERFORMS CODE REQUIRED TESTS.
6. ALL STAIRWELLS AND PATHS OF EGRESS TO THE EXTERIOR DOORS AND THE EXTERIOR PATH OF EGRESS AWAY FROM THE BUILDING SHALL RECEIVE EMERGENCY LIGHTING PER CODE.

ELECTRICAL EQUIPMENT LEGEND

- BRANCH CIRCUIT PANELBOARD
- TELEPHONE TERMINAL BOARD
- ELECTRIC MOTOR
- F — FUSED SAFETY SWITCH / DISCONNECT COMBINATION
- MOTOR STARTER
- CONTACTOR
- LA-7 — CIRCUITRY HOMERUN: PANEL LA - CIR. #7
- CONDUIT OR WIRE CONCEALED IN WALL/CLG. (SOLID LINE TYPE)
- CONDUIT OR WIRE UNDERFLOOR/UNDERGND. (CENTER LINE TYPE)

MAIN DISTRIBUTION GEAR

- CIRCUIT BREAKER IN A PANEL BOARD
- PAD MOUNTED UTILITY TRANSFORMER
- 100 A, 2 POLE, FUSED DISCONNECT — FUSED DISCONNECT 100A = AMP RATING 2P = NUMBER OF POLES
- M — ELECTRICAL METER SHOWN ON ONE-LINE DIAGRAMS
- PP1 225A MCB 120/208V 3PH, 4W / PP1 225A MLO 120/208V 3PH, 4W — ELECTRICAL POWER PANEL WITH MAIN LUG OR MAIN BREAKER PP1= PANEL NAME 225A MLO = MAIN LUG OR BREAKER SIZE 120/208V = PANEL VOLTAGE 3PH, 4 WIRE = PANEL PHASE, DISTRIBUTION TYPE

ELECTRICAL DEVICE LEGEND

- J — CEILING JUNCTION BOX - SURFACE/FLUSH
- J — WALL JUNCTION BOX - SURFACE/FLUSH
- DUPLEX RECEPTACLE
- FLOOR MOUNTED RECEPTACLE
- SPLIT WIRED DUPLEX RECEPTACLE
- CEILING MOUNTED DUPLEX RECEPTACLE
- FLOOR MOUNTED FOURPLEX RECEPTACLE
- APPLIANCE RECEPTACLE - 3 WIRE
- DUPLEX RECEPTACLE
- FOURPLEX RECEPTACLE

ABBREVIATIONS PERTAIN TO ALL DUPLEX AND FOURPLEX RECEPTACLES:
ABBREVIATIONS MAY APPEAR IN DIFFERENT COMBINATIONS.

AC	ABOVE COUNTER
AC GF	ABOVE COUNTER - GROUND FAULT CIRCUIT INTERRUPTER
AC USB	ABOVE COUNTER WITH USB PORT
AF	ARC FAULT PROTECTED
AF USB	ARC FAULT PROTECTED WITH USB PORT
AF GF	ARC FAULT WITH GROUND FAULT CIRCUIT INTERRUPTER
D	DEDICATED RECEPTACLE
D USB	DEDICATED RECEPTACLE WITH USB PORT
EM	RECEPTACLE CIRCUITED TO THE EMERGENCY PANEL WITH RED COVER PLATE
GF	GROUND FAULT CIRCUIT INTERRUPTER
GF WP	WEATHER PROOF GROUND FAULT CIRCUIT INTERRUPTER
PL	PLUG LOAD
72"	GENERAL PURPOSE WITH MOUNTING HEIGHT.
S	SWITCHED CONTROLLED

- D — ELECTRIC HAND DRYER
- T — THERMOSTAT
- OPEN/CLOSE/STOP PUSH BUTTON
- 1 — DRAWING KEY NOTES
- ROOM 100 — ROOM NAME AND NUMBER DESIGNATION

ELECTRICAL SHEET LIST

RESPONSIBLE DIVISION:

UNLESS OTHERWISE INDICATED ALL HEATING, VENTILATING, AIR CONDITIONING, PLUMBING, AND OTHER MECHANICAL EQUIPMENT, MOTORS, AND CONTROLS SHALL BE FURNISHED, SET IN PLACE AND WIRED AS FOLLOWS:

ITEM	FURNISHED	SET	POWER WIRED	CONTROL WIRED
EQUIPMENT	23	23	26	--
COMBINATION MAGNETIC MOTOR STARTERS, MAGNETIC MOTOR STARTERS, VFD'S AND CONTACTORS	23(1)	26	26(2)	23
FUSED AND UNFUSED DISCONNECT SWITCHES, THERMAL OVERLOAD SWITCHES AND HEATERS, MANUAL MOTOR STARTERS	26	26	26	--
MANUAL-OPERATING AND MULTI-SPEED SWITCHES	23	26	26	26
CONTROLS, RELAYS, TRANSFORMERS	23	23	26	23
THERMOSTATS (LOW VOLTAGE) AND TIME SWITCHES	23	23	26	23
THERMOSTATS (LINE VOLTAGE)	23	23	26	26
TEMPERATURE CONTROL PANELS	23	23	26	23
MOTOR AND SOLENOID VALVES, DAMPER MOTORS, PE & EP SWITCHES	23	23(2)	--	23(2)
PUSH-BUTTON STATIONS AND PILOT LIGHTS	23	23(2)	--	23(2)
HEATING, COOLING, VENTILATION AND AIR CONDITIONING CONTROLS	23	23	26	23
EXHAUST FAN SWITCHES	23	26	26	23(2)

SUBSCRIPT FOOTNOTES:

1. MOTOR STARTER TO INCLUDE CONTROL TRANSFORMER, HOA SWITCH, (1) NO AND (1)NC AUXILIARY CONTACT, AND "ON" AND "OFF" PILOT LIGHTS.
2. IF ITEM IS FOR LINE VOLTAGE, SET IN PLACE AND CONNECT UNDER DIVISION 26. WHERE FACTORY MOUNTED ON EQUIPMENT OR ATTACHED TO PIPING OR DUCTS AND USING LINE VOLTAGE FURNISH AND SET UNDER DIVISION 23, CONNECT UNDER DIVISION 26.

SUBSTITUTIONS:

A. SUBSTITUTIONS: SUBSTITUTION OF SPECIFIED EQUIPMENT WILL BE ALLOWED THROUGH A PRIOR APPROVAL PROCESS INITIATED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT INTENDED SUBSTITUTION AT LEAST FIVE DAYS PRIOR TO BID FOR APPROVAL FROM ENGINEER. SUBMITTAL SHALL INCLUDE CAPACITIES, DIMENSIONS AND OPERATING INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT. SUBSTITUTION SHALL OCCUR AT NO COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF APPROVED SUBSTITUTION AND SHALL INCUR ALL COSTS ASSOCIATED WITH THE SUBSTITUTION INCLUDING STRUCTURAL MODIFICATIONS, SPACE LAYOUT AND REDESIGN COSTS. SEE ALSO DIVISION I GENERAL REQUIREMENTS.

EXAMINATION OF SITE, DRAWINGS, SPECIFICATIONS:

A. EXAMINE CAREFULLY THE SITE AND CONDITIONS OF THE SITE. PROVIDE ALL NECESSARY EQUIPMENT AND LABOR TO INSTALL A COMPLETE WORKING SYSTEM WITHIN THE SITE CONDITIONS.

B. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND 5 DAYS PRIOR TO BIDDING REPORT ANY ERRORS, OMISSIONS, INCONSISTENCIES, AND CONFLICTS TO THE ENGINEER TO BE REMEDIED IN AN ADDENDUM TO THE PROJECT PRIOR TO BID TIME.

C. DRAWINGS ARE DIAGRAMMATIC AND CATALOG NUMBERS GIVEN ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE CAPACITY OF THE EQUIPMENT MEETS THE DRAWING REQUIREMENTS AND SHALL NOT DIMENSION FROM THE MECHANICAL, PLUMBING, OR PIPING DRAWINGS.

D. THE LATEST ADOPTED VERSIONS OF THE INTERNATIONAL BUILDING CODES SHALL BE USED AS REQUIRED. THIS WILL ALSO INCLUDE THE LATEST ADOPTED VERSIONS OF THE MECHANICAL, PLUMBING, AND ENERGY CONSERVATION CODES. ALL METHODS AND MATERIALS REQUIRED BY THESE CODES SHALL BE REQUIRED BY THESE SPECIFICATIONS UNLESS INDICATED OTHERWISE. OTHER APPLICABLE LOCAL CODES AND ORDINANCES SHALL BE AS REQUIRED AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BE KNOWLEDGEABLE OF THESE REQUIREMENTS.

E. WHERE INSTALLATION PROCEDURES OR ANY PART THEREOF ARE REQUIRED TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIAL BEING INSTALLED, PRINTED COPIES OF THESE RECOMMENDATIONS SHALL BE FURNISHED TO THE ENGINEER PRIOR TO INSTALLATION. INSTALLATION OF THE ITEM WILL NOT BE ALLOWED TO PROCEED UNTIL THE RECOMMENDATIONS ARE RECEIVED. FAILURE TO FURNISH THESE RECOMMENDATIONS CAN BE CAUSE FOR REJECTION OF THE MATERIAL.

ABBREVIATIONS:

44"	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF DEVICE
A	AMPS
A.D.	ACCESS DOOR
AAV	ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONING UNIT
AC	ABOVE COUNTER
AD	AREA DRAIN (SEE SYMBOLS)
AFC	ABOVE FINISHED CEILING
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AFCI	ARC FAULT CIRCUIT INTERRUPTERS
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AP	ACCESS PANEL OR DOOR
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO / VIDEO
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
BAS	BUILDING AUTOMATION SYSTEM
BB	BASEBOARD
BD	BACK DRAFT DAMPER
BFP	BACK FLOW PREVENTOR
BL	BOILER
BLDG	BUILDING
BLW	BELOW
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
C	CHILLER
CAFCI	COMBINATION ARC FAULT CIRCUIT INTERRUPTERS
CAP	CAPACITY
CB	CIRCUIT BREAKER
CBV	CIRCUIT BALANCING VALVE
CCT	CORRELATED COLOR TEMPERATURE
CKT	CIRCUIT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CONTR	CONTRACTOR
CRI	COLOR RENDERING INDEX
CT	COOLING TOWER
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT
CU	COPPER
CUH	CABINET UNIT HEATER
CVB	CONSTANT VOLUME BOX
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGRAM
DIFF	DIFFERENTIAL
DISCH	DISCHARGE
DIV	DIVISION
DN	DOWN
DS	DUCT SILENCER
DWG	DRAWING
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR GRILLE/REGISTER
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EF	EXHAUST FAN
EFF	EFFICIENCY
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EM	EMERGENCY FUNCTION
ENT	ENTERING
EMT	ELECTRIC METALLIC TUBE
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	END SWITCH
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EX	EXHAUST
EXPAN	EXPANSION
EXT	EXTERNAL
F	DEGREES FAHRENHEIT
FA	FREE AREA
FC	FAN COIL UNIT
FC	FOOTCANDLE
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FD	FLOOR DRAIN
FIN	FINISHED
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FP	FIRE PROTECTION
FP	FIRE PUMP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FSD	FIRE/SMOKE DAMPER
FT	FEET
FXC	FLEXIBLE CONNECTION
GND	GROUND
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GEC	GROUND ELECTRODE CONDUCTOR
GF	GROUND FAULT CIRCUIT INTERRUPTER
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRS/LB	GRS/LB GRAINS PER POUND
H2O	WATER
HB	HOSE BIBB
HD	HEAD (SEE SCHEDULES)
HP	HEAT PUMP
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HTR	HEATER
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IN	INCHES
INV	INVERT
JBOX	JUNCTION BOX
K	KELVIN
KW	KILOWATT
KVA	KILO VOLT - AMPS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LV	LAVATORY
LB	POUND
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LIN	LINEAR
LIQ	LIQUID
LM	LUMEN
LRA	LOCKED ROTOR AMPS
LV	LOUVER
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MED	MEDIUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MUA	MAKE-UP AIR UNIT
N	NEUTRAL
NC	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NL	NIGHT / SECURITY LIGHT - DO NOT SWITCH
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OCC	OCCUPIED
OCP	OVER CURRENT PROTECTION
OD	OUTSIDE DIAMETER
OL	OVERLOAD
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
PBD	PARALLEL BLADE DAMPER
PD	PRESSURE DROP
PH	PHASE
POS	POSITIVE PRESSURE
POS	POINT OF SALES
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TRANSMITTER
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR GRILLE / REGISTER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REL	RELIEF
REQD	REQUIRED
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR GRILLE / REGISTER
SC	SHORT CIRCUIT
SCA	SHORT CIRCUIT AVAILABLE
SCCR	SHORT CIRCUIT CURRENT RATING
SCH	SCHEDULE
SD	SMOKE DAMPER
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SH	SENSIBLE HEAT
SH	SHOWER
SP	STATIC PRESSURE
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SS	SAFETY SHOWER
STD	STANDARD
STL	STEEL
SYS	SYSTEM
TEMP	TEMPERATURE
TR	TRANSFER GRILLE / REGISTER
TR	TAMPER RESISTANT
TT	TEMPERATURE TRANSMITTER
TTB	TELECOMMUNICATIONS TERMINAL BACKBOARD
TYP	TYPICAL
TX	TRANSFORMER
UC	UNDERCUT DOOR
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UNOCC	UNOCCUPIED
UR	URINAL
V	VOLTS
VA	VOLT AMPERE
VA	VALVE
VAV	VARIABLE AIR VOLUME UNIT
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VOLT	VOLTAGE
VTR	VENT THROUGH ROOF
W	WIDTH
W	WATTS
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WC	WATER CLOSET
WG	WATER GAUGE
WP	WEATHERPROOF
WPIU	WEATHERPROOF IN-USE
WSR	WITHSTAND RATING
XFMR	TRANSFORMER

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant
Bighorn Consulting Engineers, Inc.
Mechanical & Electrical Engineers
386 Indian Road
Grand Junction, CO 81501
Phone (970) 241-8709

Revision	By	Appd	YYYY.MM.DD
ASI 1			2024.05.10

Issued	By	Appd	YYYY.MM.DD
CONSTRUCTION DOCUMENTS			2024.05.03

Permit/Seal

Client/Project
Colorado Mesa University

CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.: 2270481701
File Name: N/A
Scale: 12" = 1'-0"

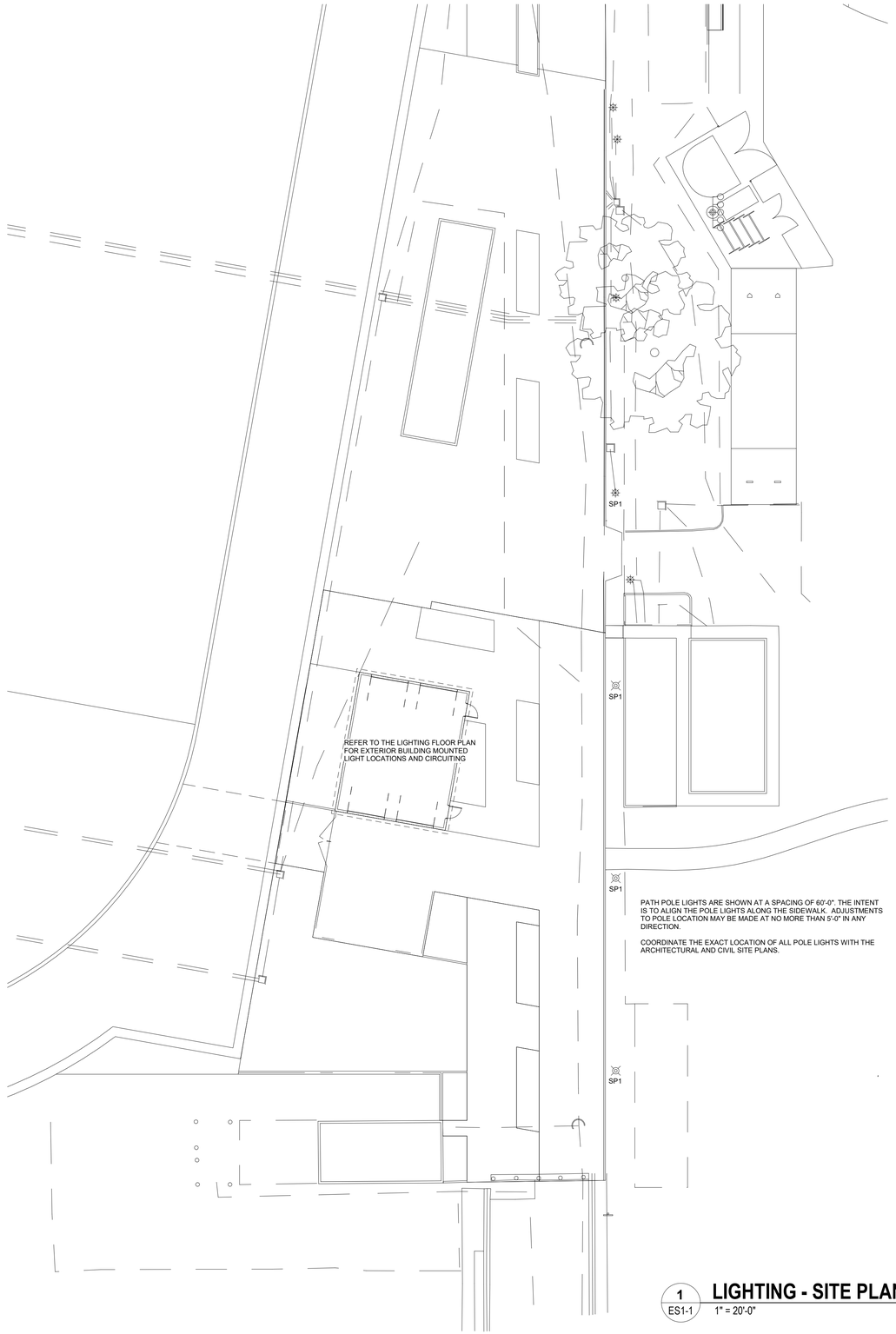
Designer		
Designer	SB	YYYY.MM.DD
WG/GC	RL/DB	04/29/20

Title
ELECTRICAL COVER SHEET

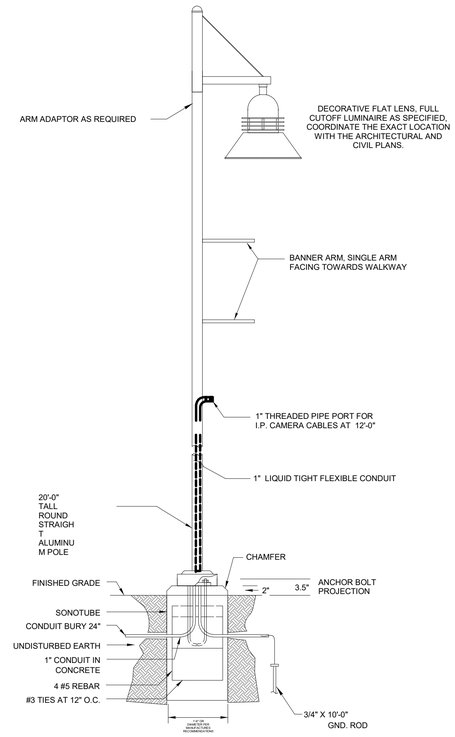
Revision:
Drawing No.
E0-1

ORIGINAL SHEET - ARCH D

5/10/2024 1:25:25 PM



1 ES1-1 **LIGHTING - SITE PLAN**
1" = 20'-0"



LIGHT POLE BASE DETAIL & ELEVATION
NO SCALE

NOTES:

1. VERIFY THE BURY DEPTH AND DIAMETER OF THE SONOTUBE WITH THE CIVIL ENGINEER PRIOR TO PURCHASING THE EQUIPMENT.
2. THE ELECTRICAL CONTRACTOR IS TO INSTALL VIBRATION DAMPERS IN ALL POLES, OBTAIN DAMPERS FROM POLE MANUFACTURER FOR EACH ALUMINUM POLE.
3. ALL OUTSIDE LIGHT SOURCES SHALL COMPLY WITH ALL ZONING AND DEVELOPMENT CODE AND OWNERS REQUIREMENTS AND STANDARDS.
4. ALL LIGHTS, POLES, CIRCUITING, INSTALLATION AND CONTROL ATE TO BE IN ACCORDANCE WITH THE SITE LIGHTING STANDARDS OF THE UNIVERSITY STANDARDS.
5. PROVIDE A PHOTOCELL TO TURN ALL LIGHTS ON AND OFF TOGETHER. PROVIDE EACH POLE WITH A MOTION SENSOR TO DIM THE LIGHTS WHEN NO MOTION IS DETECTED AND TURN THE LIGHTS TO FULL BRIGHT AS MOTION IS SENSED.
6. PROVIDE 1 BANNER ARM ON EACH POLE TO BE FACING THE WALKWAY.

LIGHTING FIXTURE SCHEDULE - PHASE 1

TYPE MARK	MANUFACTURER	MODEL	LAMP	DESCRIPTION
SP1	ARCHITECTURAL AREA LIGHTING	UCM2-LUM-ANG-36L-615-4K7-5Q-VBL-SLA20-CL-SCL-SCP-20F-UNV(277V)	615mA LED DIMMING DRIVER, 7533LM, 3000K, 71W LED 277V	UNIVERSE COLLECTION MEDIUM LED POLE MOUNTED FIXTURE, FLAT GLASS LENS, UNIVERSE MEDIUM WITH LUMINOUS RINGS HOUSING, ANGLED HOOD, INTEGRAL MOTION SENSOR, VBL UNIVERSITY STANDARD COLOR, WITH CONTEMPORARY ARM,16'x4"DIA ALUMINUM POLE, ONE HEAD PER POLE

5/10/2024 1:05:24 PM

ORIGINAL SHEET - ARCH D

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant
Bighorn Consulting Engineers, Inc.
Mechanical & Electrical Engineers
386 Indian Road
Grand Junction, CO 81501
Phone (970) 241-8799

No.	Revision	By	Appd	YYYY.MM.DD
ASI 1	CONSTRUCTION DOCUMENTS			2024.05.10
Issued		By	Appd	YYYY.MM.DD
				2024.05.01

Permit/Seal

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A

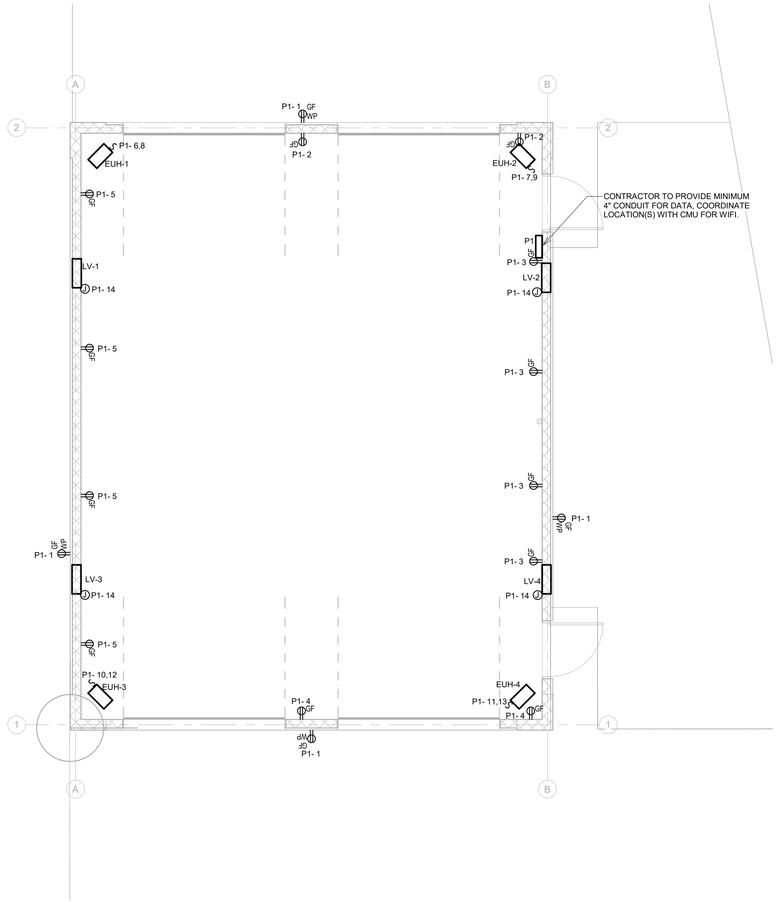
Scale: As indicated

Designer	Checker	YYYY.MM.DD
WG/GC	RL/DB	02/04/17

Title
LIGHTING - SITE PLAN

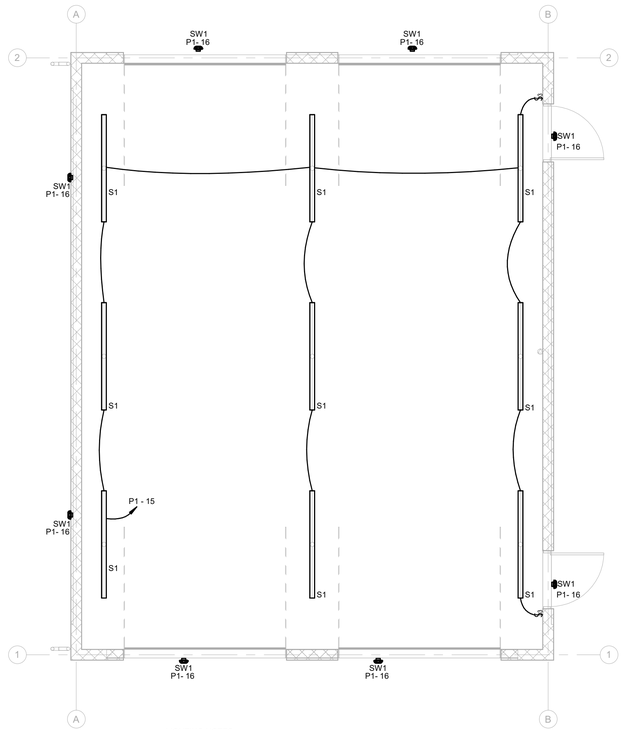
Revision:

Drawing No.
ES1-1



1 ELECTRICAL - FLOOR PLAN

E2-1 3/16" = 1'-0"



LIGHTING NOTES:

1. PROVIDE A 3WAY MOTION LIGHT SWITCH ON THE INTERIOR WALL NEXT TO EACH MAN DOOR TO TURN THE LIGHTS ON WHEN MOTION IS DETECTED AND OFF WHEN NO MOTION IS DETECTED.
2. THE EXTERIOR WALL PACK WILL BE CONTROLLED WITH A PHOTOCELL FOR DUSK TO DAWN OPERATION AND IS ALSO FIELD-ADJSUTABLE VIS TOGGLE SWITCHS TO ENABLE, DISABLE OR MODIFIY THE SETTINGS.

4 LIGHTING - PLAN

E2-1 3/16" = 1'-0"

Stantec

Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant
Bighorn Consulting Engineers, Inc.
Mechanical & Electrical Engineers
336 Indian Road
Grand Junction, CO 81501
Phone (970) 241-8709

Issued	By	Appd	YYYY.MM.DD
ASI 1 CONSTRUCTION DOCUMENTS			2024.05.10
Revision	By	Appd	2024.05.01 YYYY.MM.DD

Permit/Seal

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A
Scale: 3/16" = 1'-0"

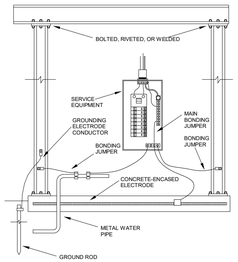
Designer	Checker	YYYY.MM.DD
WG/GC	RL/DB	04/04/18

Title
ELECTRICAL / LIGHTING - FLOOR PLANS

Revision:
Drawing No.
E2-1

5/10/2024 1:25:25 PM

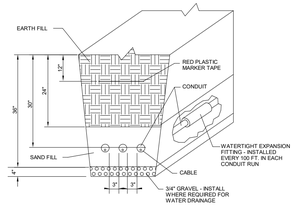
ORIGINAL SHEET - ARCH D



GROUNDING ELECTRODE SYSTEM DETAIL

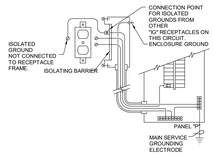
NOT TO SCALE

NOTES:
1. SEE ONE LINE DIAGRAM FOR GROUNDING CONDUCTOR SIZES REQUIRED.
2. PROVIDE A MINIMUM OF TWO SEPARATE GROUND SOURCES, U.O.N. ON ONE LINE DIAGRAM.



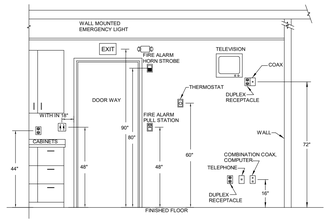
INSTALLATION OF UNDERGROUND CONDUITS

NOT TO SCALE



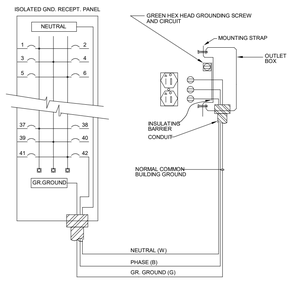
ISOLATED GROUND RECEPTACLE

NOT TO SCALE:



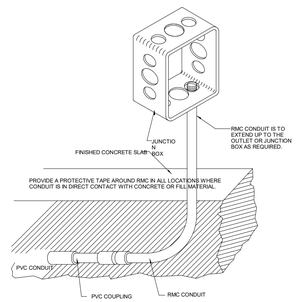
NOTES:
1. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL TELEVISION OUTLETS WITH THE ARCHITECT PRIOR TO INSTALLATION.
2. ALL DEVICES SHOWN ON THIS DETAIL ARE FOR REFERENCES OF MOUNTING HEIGHTS ONLY. THE ELECTRICAL CONTRACTOR SHALL FIELD ADJUST THE HEIGHTS OF THE DEVICES AS REQUIRED FOR FURNITURE AND CASEWORK.
3. ALL DEVICES REQUIRED FOR THIS PROJECT MAY NOT APPEAR ON THIS DETAIL. ALL ITEMS SHOWN ON THIS DETAIL MAY NOT BE REQUIRED FOR THIS PROJECT.

DEVICE MOUNTING HEIGHT



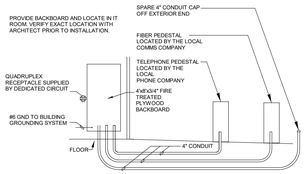
TYPICAL RECEPTACLE WIRING DIAGRAM

NOT TO SCALE



INSTALLATION OF PVC CONDUIT EMERGING FROM CONCRETE SLAB

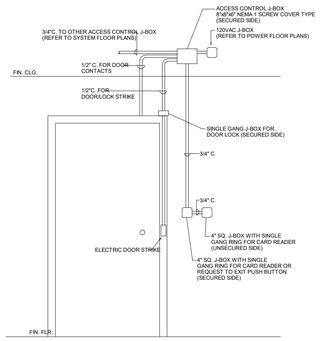
NOT TO SCALE



COMMUNICATIONS BACKBOARD DETAIL

NOT TO SCALE

NOTES:
1. PROVIDE A #6 AWG GROUND WIRE AT THE BACKBOARD TIED TO THE COMMON POWER GROUND PER NEC ART. #250
2. PROVIDE SWEEPS OR FIELD BENDS FOR ALL UNDERGROUND CONDUIT DIRECTIONAL CHANGES.



ACCESS CONTROL CONDUIT FOR CARD READER SYSTEM DETAIL

NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	LAMP	DESCRIPTION
S1	METALUX LIGHTING	8ST2L80SC3	SELECTABLE LED, 8679, 9255, 8912LM, 3500, 4000, 5000K, 0-10V DIMMING, 76W MAX	8' LONG SURFACE MOUNTED LED STRIP LIGHT, MOUNT TO THE BOTTOM OF THE STRUCTURE WITH THE BOTTOM OF THE FIXTURE PARALLEL TO THE FLOOR
SW1	LUMARK	ASWPLED1S	2000-4000LM,3000K- 4000K-5000K, 1S-20-24-30W, 80CRI, 120V, SELECTABLE LUMEN AND CCT	LED EXTERIOR SURFACE WALL MOUNTED FIXTURE, DARK BRONZE FINISH

Branch Panel: P1

Location: STORAGE 101
Supply From:
Mounting: Surface
Enclosure:

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating:

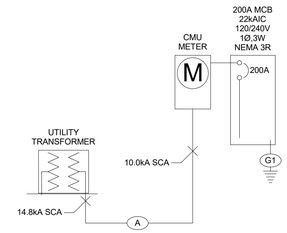
Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	Outdoor Receptacle	20 A	1	720 VA	360 VA			1	20 A	Receptacle	2
3	Receptacle	20 A	1			720 VA	360 VA	1	20 A	Receptacle	4
5	Receptacle	20 A	1	720 VA	1650 VA			2	20 A	EUH-1	6
7	EUH-2	20 A	2			1650 VA	1650 VA	--	--	--	8
9	--	--	--	1650 VA	1650 VA			2	20 A	EUH-3	10
11	EUH-4	20 A	2			1650 VA	1650 VA	--	--	--	12
13	--	--	--	1650 VA	200 VA			1	20 A	LOUVERS	14
15	Interior Lighting	20 A	1			360 VA	240 VA	1	20 A	Exterior Lighting	16
17											18
19											20
21											22
23											24
25											26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42
		Total Load:		8600 VA		8263 VA					
		Total Amps:		71.67 A		68.86 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	200 VA	100.00%	200 VA		
Heating	13200 VA	100.00%	13200 VA	**Total Conn. Load:**	16862 VA
Receptacle	2880 VA	100.00%	2880 VA	**Total Est. Demand:**	17008 VA
LIGHITNG	593 VA	125.00%	741 VA	**Total Conn.:**	70.26 A
				Total Est. Demand:	70.87 A

Notes:



ONE-LINE DIAGRAM

NOT TO SCALE

NOTES:
1. PROVIDE GROUNDING AND BONDING TO MEET THE 2023 NEC ARTICLE 250 REQUIREMENTS.
2. FAULT CURRENT CALCULATIONS BASED UPON AN ANTICIPATED 50kVA TRANSFORMER AT AN ESTIMATED DISTANCE OF 50FT FROM THE TRANSFORMER TO THE SERVICE DISTRIBUTION PANEL.
3. PROVIDE LABELING TO MEET THE REQUIREMENTS OF NEC 110.21.
4. ELECTRIC METER TO BE APPROVED BY CMU, SUGGESTED PRODUCT IS EGAUGE CORE. PROVIDE NETWORK CONNECTION FOR METER.

WIRE SCHEDULE:

(A) 2 1/2"C - (3#250kCMIL(AL,XHHW))

(G1) #4AWG CU TO METAL WATER PIPES AND STRUCTURAL STEEL
#4AWG CU TO 20' UNCOATED CONCRETE ENCASED ELECTRODE

FAULT CURRENT CALCULATIONS:
F = LxIx2
NxCxE
L - LENGTH OF CABLE IN FEET
I - AVAILABLE FAULT CURRENT
N - NUMBER OF CONDUCTORS PER PHASE
C - CONDUCTANCE CONSTANT
- 250KCMIL ALUMINUM: 12,862
E - VOLTAGE LINE TO LINE
F - INTERMEDIARY VALUE FOR COMPUTATION
M = 1/(1+F)
M - MULTIPLIER TO ACHIEVE AVAILABLE FAULT
I(SC) = I(SC)*M

RUN #1: SERVICE DISCONNECT TO HOUSE PANEL
F = LxIx2 = 50FT x 11,600 A x 2 = 0.376
NxCxE 1 x 12,862 x 240 V
M = 1 = 1 = 0.727
1+F 1+0.376
I(SC) = IxM = 11,600A x 0.727 = 8,440 A

Stantec
Stantec Architecture Inc.
410 17th Street Suite 1400
Denver, CO 80202-4427
Tel: (303) 410-1717 • www.stantec.com

Consultant
Bighorn Consulting Engineers, Inc.
Mechanical & Electrical Engineers
386 Indian Road
Grand Junction, CO 81501
Phone (970) 241-8709

Revision	By	Appd	YYYY.MM.DD
ASI 1			2024.05.10
CONSTRUCTION DOCUMENTS			2024.05.01
Issued			YYYY.MM.DD

Permit/Seal

Client/Project
Colorado Mesa University
CMU Bergman Promenade
1100 North Ave, Grand Junction, CO 81501

Project No.:2270481701
File Name: N/A

Scale: As indicated

Designer	Checker	YYYY.MM.DD
WG/GC	RL/DB	05/10/2024

Title
ELECTRICAL DETAILS

Revision:

Drawing No.
E3-2

5/10/2024 1:25:26 PM

ORIGINAL SHEET - ARCH D