SALT LAKE CITY CORPORATION

THE DEPARTMENT OF PUBLIC UTILITIES

DRAWINGS FOR CONSTRUCTION OF

CITY CREEK TREATMENT PLANT UPGRADES

BRIC PACKAGE

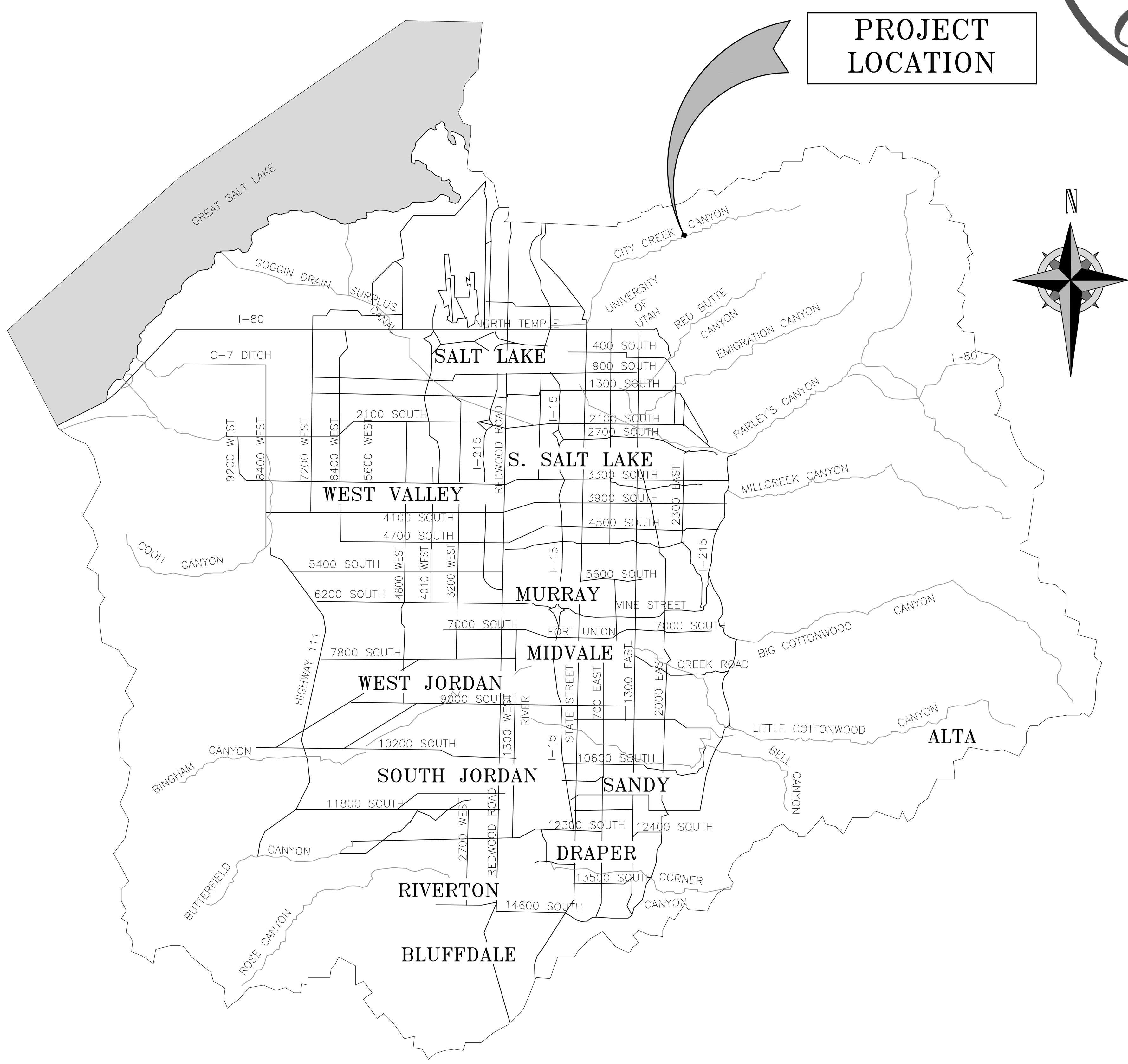
PROJECT NO. 512260079

FISCAL YEAR 2023–2024

Public Utilities

Brown AND Caldwell

90% GMP–NOT FOR CONSTRUCTION



PROJECT VICINITY MAP

ERIN MENDENHALL – MAYOR

CITY COUNCIL

VICTORIA PETRO	DAN DUGAN
ALEJANDRO PUY	DARIN MANO
CHRIS WHARTON	SARAH YOUNG
EVA LOPEZ CHAVEZ	

APPROVED	APPROVED	APPROVED
JASON DRAPER, P.E.	STEVEN BRENCHLEY, P.E.	ADAM JONES, P.E.
CHIEF ENGINEER	PROJECT MANAGER	PROJECT ENGINEER

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LIST OF DRAWINGS

DRAWING NO. — DESCRIPTION

GENERAL

DRAWING NO.	DESCRIPTION
G-01	COVER
G-02	DRAWING INDEX 1
G-03	DRAWING INDEX 2
G-04	GENERAL NOTES
G-05	GENERAL LEGENDS & SYMBOLS
G-06	GENERAL ABBREVIATIONS
G-07	DESIGN CRITERIA - MAIN PROCESS
G-08	DESIGN CRITERIA - SOLIDS RESIDUAL
G-09	DESIGN CRITERIA - CHEMICAL DOSAGE
G-10	PROCESS FLOW DIAGRAM
G-11	HYDRAULIC PROFILE - MAIN PROCESS
G-12	HYDRAULIC PROFILE - WASTE BACKWASH WATER
G-13	HYDRAULIC PROFILE - FILTER TO WASTE & CLEARWELL OF
G-14	HYDRAULIC PROFILE - SOLIDS COLLECTION
G-15	EQUIPMENT LIST 1
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G-17	EQUIPMENT LIST 3
G-18	EQUIPMENT LIST 4

DEMOLITION

DRAWING NO.	DESCRIPTION
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01-D-02	EXISTING CONDITIONS & DEMOLITION PLAN - AREA 2
01-D-03	EXISTING CONDITIONS & DEMOLITION PLAN - AREA 3
01-D-04	EXISTING CONDITIONS & DEMOLITION PLAN - AREA 4
60-DS-01	CLARIFIER - DEMOLITION PLAN
03-DM-01	OPERATIONS - LOWER DEMOLITION PLAN
60-DM-01	CLARIFIER - DEMOLITION PLAN
60-DM-02	CLARIFIER - DEMOLITION SECTION
87-DM-01	FLUORIDE - DEMOLITION PLAN
87-DM-02	FLUORIDE - DEMOLITION SECTION
87-DP-01	FLUORIDE - FLOOR DEMOLITION PLAN
87-DH-01	FLUORIDE - ROOF DEMOLITION PLAN

CIVIL

DRAWING NO.	DESCRIPTION
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GC-02	FACILITY AND KEY MAP
GC-03	OVERALL ESC PLAN & STAGING & LAYDOWN
GC-04	SURVEY CONTROL AND EXISTING CONDITIONS
GC-10	SITE DETAILS 1
GC-11	SITE DETAILS 2
GC-12	SITE DETAILS 3
GC-13	SITE DETAILS 4
GC-20	PIPING DETAILS 1
GC-21	PIPING DETAILS 2
GC-22	PIPING DETAILS 3
GC-23	PIPING DETAILS 4
GC-24	PIPING DETAILS 5
GC-25	PIPING DETAILS 6
GC-26	PIPING DETAILS 7
GC-27	PIPING DETAILS 8
GC-28	CATHODIC PROTECTION DETAILS 1
GC-29	CATHODIC PROTECTION DETAILS 2
GC-30	CATHODIC PROTECTION SCHEDULE
01-C-01	OVERALL SITE PLAN GRADING & PAVING
01-C-02	SITE PLAN GRADING & PAVING - AREA 1
01-C-03	SITE PLAN GRADING & PAVING - AREA 2
01-C-04	SITE PLAN GRADING & PAVING - AREA 3
01-C-05	SITE PLAN GRADING & PAVING - AREA 4
01-C-06	SITE PLAN GRADING & PAVING - AREA 5
01-C-07	GRADING SECTIONS - 1
01-C-08	GRADING SECTIONS - 2
01-C-09	GRADING SECTIONS - 3
01-C-10	STORM WATER & DRAINAGE PLAN
01-C-11	CITY CREEK MAINTENANCE & REPAIR PLAN
01-C-12	CITY CREEK MAINTENANCE & REPAIR SECTIONS & DETAILS
01-C-14	RESTORATION PLAN - PVR
01-C-15	RESTORATION PLAN - PICNIC SITES 13-14
01-C-20	OVERALL YARD PIPING
01-C-21	YARD PIPING - AREA 1
01-C-22	YARD PIPING - AREA 2
01-C-23	YARD PIPING - AREA 3
01-C-24	YARD PIPING - AREA 4
01-C-25	YARD PIPING - AREA 5
01-C-60	PLAN & PROFILE - 36" RW
01-C-61	PLAN & PROFILE - 12" UW1 RE-ROUTE
01-C-62	PLAN & PROFILE - 24" FW
01-C-63	PLAN & PROFILE - 24" WBW
01-C-64	PLAN & PROFILE - 36" OF STA 1+00 TO STA 3+50
01-C-65	PLAN & PROFILE - 36" OF STA 3+50 TO STA 6+00
01-C-66	PLAN & PROFILE - 36" OF STA 6+00 TO STA 8+45.05
01-C-67	PLAN & PROFILE - 24" BW
01-C-68	PLAN & PROFILE - TANK 12" DR
01-C-69	PLAN & PROFILE - 12" RCW STA 1+00 TO STA 4+50
01-C-70	PLAN & PROFILE - 12" RCW STA 4+50 TO STA 8+00
01-C-71	PLAN & PROFILE - 12" RCW STA 8+00 TO STA 10+35.68
01-C-72	PLAN & PROFILE - 12" SL STA 1+00 TO STA 4+50
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01-C-74	PLAN & PROFILE - 12" SL STA 8+50 TO STA 10+96.76
01-C-75	PLAN & PROFILE - NORTH 10" DR
01-C-76	PLAN & PROFILE - 1.25" GW STA 10+00 STA 13+50
01-C-77	PLAN & PROFILE - 1.25" GW STA 13+50 TO 17+50
01-C-78	PLAN & PROFILE - 1.25" - 6" GW STA 17+50 TO 21+50
01-C-79	PLAN & PROFILE - 6" GW STA 21+50 TO 25+27.74
01-C-80	PLAN & PROFILE - 12" SU STA 1+00 TO 4+80
01-C-81	PLAN & PROFILE - 12" SU STA 10+00 TO 14+32.25
01-C-82	PLAN & PROFILE - INFILTRATION GALLERY
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01-C-86	PLAN & PROFILE - 12" UW1 LOOP STA 4+00 TO 6+42.60

ARCHITECTURAL

DRAWING NO.	DESCRIPTION
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GA-02	EGRESS PLANS
GA-03	DOOR, WINDOW & LOUVER SCHEDULES & ELEVATIONS
GA-04	STANDARD ARCHITECTURAL DETAILS 1
GA-05	STANDARD ARCHITECTURAL DETAILS 2
03-A-01	OPERATIONS - LOWER PLANS & DOOR SCHEDULE
35-A-01	OVERALL PLANS
35-A-02	ELEVATIONS 1
35-A-03	ELEVATIONS 2
35-A-04	ELEVATIONS 3
35-A-05	ELEVATIONS 4
35-A-06	TREATMENT - FILTER BASINS UPPER PLAN
35-A-07	TREATMENT - SED BASINS UPPER PLAN
35-A-08	TREATMENT - FLOC BASINS UPPER PLAN
35-A-09	TREATMENT - ENLARGED PLANS 1
35-A-10	TREATMENT - ENLARGED PLANS 2
35-A-11	TREATMENT - BUILDING SECTIONS
60-A-01	CLARIFIER - PLAN
60-A-02	CLARIFIER - SECTION & DETAILS
70-A-01	CLEARWELL - UPPER PLAN
70-A-02	CLEARWELL - ENLARGED PLANS
70-A-03	CLEARWELL - BUILDING SECTIONS
70-A-04	CLEARWELL - WALL SECTIONS
87-A-01	FLUORIDE - CODE SUMMARY & EGRESS PLAN
87-A-02	FLUORIDE - FLOOR PLAN
87-A-03	FLUORIDE - ROOF PLAN
87-A-04	FLUORIDE - SECTIONS & DETAILS

STRUCTURAL

DRAWING NO.	DESCRIPTION
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GS-02	GENERAL STRUCTURAL NOTES 2
GS-03	SPECIAL INSPECTION NOTES
GS-04	LEGENDS & ABBREVIATIONS
GS-05	STANDARD STRUCTURAL DETAILS 1
GS-06	STANDARD STRUCTURAL DETAILS 2
GS-07	STANDARD STRUCTURAL DETAILS 3
GS-08	STANDARD STRUCTURAL DETAILS 4
GS-09	STANDARD STRUCTURAL DETAILS 5
GS-10	STANDARD STRUCTURAL DETAILS 6
GS-11	STANDARD STRUCTURAL DETAILS 7
GS-12	STANDARD STRUCTURAL DETAILS 8
GS-13	STANDARD STRUCTURAL DETAILS 9
GS-14	STANDARD STRUCTURAL DETAILS 10
GS-15	STANDARD STRUCTURAL DETAILS 11
GS-16	STANDARD STRUCTURAL DETAILS 12
GS-17	STANDARD STRUCTURAL DETAILS 13
GS-18	STANDARD STRUCTURAL DETAILS 14
GS-19	STANDARD STRUCTURAL DETAILS 15
GS-20	STANDARD STRUCTURAL DETAILS 16
GS-21	STANDARD STRUCTURAL DETAILS 17
GS-22	STANDARD STRUCTURAL DETAILS 18
GS-23	STANDARD STRUCTURAL DETAILS 19
GS-24	STANDARD STRUCTURAL DETAILS 20
GS-25	STANDARD STRUCTURAL DETAILS 21
GS-26	STANDARD STRUCTURAL SCHEDULES 1
GS-27	STANDARD STRUCTURAL SCHEDULES 2
GS-28	STANDARD STRUCTURAL SCHEDULES 3
GS-29	STANDARD STRUCTURAL SCHEDULES 4
GS-30	STANDARD STRUCTURAL SCHEDULES 5
GS-31	STANDARD STRUCTURAL SCHEDULES 6
GS-32	STANDARD STRUCTURAL SCHEDULES 7
35-S-01	OVERALL PLANS 1
35-S-02	OVERALL PLANS 2
35-S-03	OVERALL CONTROL JOINT PLAN 1
35-S-04	OVERALL CONTROL JOINT PLAN 2
35-S-05	TREATMENT - FILTER BASINS LOWER PLAN
35-S-06	TREATMENT - FILTER BASINS LOWER DIM PLAN
35-S-07	TREATMENT - FILTER BASINS INTERMEDIATE PLAN
35-S-08	TREATMENT - FILTER BASINS INTERMEDIATE DIM PLAN
35-S-09	TREATMENT - FILTER BASINS UPPER PLAN
35-S-10	TREATMENT - FILTER BASINS UPPER DIM PLAN
35-S-11	TREATMENT - SED BASINS LOWER PLAN
35-S-12	TREATMENT - SED BASINS UPPER PLAN
35-S-13	TREATMENT - FLOC BASINS LOWER PLAN
35-S-14	TREATMENT - FLOC BASINS LOWER DIM PLAN
35-S-15	TREATMENT - FLOC BASINS UPPER PLAN
35-S-16	TREATMENT - FLOC BASINS UPPER DIM PLAN
35-S-17	TREATMENT - FILTER BASINS ROOF FRAMING PLAN
35-S-18	TREATMENT - SED BASINS ROOF FRAMING PLAN
35-S-19	TREATMENT - FLOC BASINS ROOF FRAMING PLAN
35-S-20	TREATMENT - SECTIONS 1
35-S-21	TREATMENT - SECTIONS 2
35-S-22	TREATMENT - SECTIONS 3
35-S-23	TREATMENT - SECTIONS 4
35-S-24	TREATMENT - SECTIONS 5
35-S-25	TREATMENT - SECTIONS 6
35-S-26	TREATMENT - SECTIONS 7
35-S-27	TREATMENT - SECTIONS 8
35-S-28	TREATMENT - SECTIONS 9
35-S-29	TREATMENT - SECTIONS 10
35-S-30	TREATMENT - SECTIONS 11
35-S-31	TREATMENT - PIPE VAULT SECTIONS
35-S-32	TREATMENT - ELEVATIONS 1
35-S-33	TREATMENT - ELEVATIONS 2

STRUCTURAL (CONT'D)

DRAWING NO.	DESCRIPTION
35-S-34	TREATMENT - ENLARGED PLANS 1
35-S-35	TREATMENT - ENLARGED PLANS 2
35-S-36	TREATMENT - STAIR ENLARGED SECTIONS 1
60-S-01	CLARIFIER - PLAN
60-S-02	CLARIFIER - SECTIONS & DETAILS 1
70-S-01	CLEARWELL - LOWER PLAN
70-S-02	CLEARWELL - LOWER DIM PLAN
70-S-03	CLEARWELL - INTERMEDIATE PLAN
70-S-04	CLEARWELL - INTERMEDIATE DIM PLAN
70-S-05	CLEARWELL - UPPER PLAN
70-S-06	CLEARWELL - UPPER DIM PLAN
70-S-07	CLEARWELL - CRANE FRAMING PLAN
70-S-08	CLEARWELL - ROOF FRAMING PLAN
70-S-09	CLEARWELL - SECTIONS 1
70-S-10	CLEARWELL - SECTIONS 2
70-S-11	CLEARWELL - SECTIONS 3
70-S-12	CLEARWELL - SECTIONS 4
70-S-13	CLEARWELL - ELEVATIONS
70-S-14	CLEARWELL - ENLARGED PLANS 1
70-S-15	CLEARWELL - ENLARGED PLANS 2
87-S-01	FLUORIDE - FLOOR PLAN
87-S-02	FLUORIDE - ROOF PLAN
87-S-03	FLUORIDE - DETAILS

MECHANICAL

DRAWING NO.	DESCRIPTION
GM-01	GENERAL NOTES & SYMBOLS
GM-02	STANDARD MECHANICAL DETAILS 1
GM-03	STANDARD MECHANICAL DETAILS 2
GM-04	STANDARD MECHANICAL DETAILS 3
GM-05	STANDARD MECHANICAL DETAILS 4
01-M-01	PERIMETER DRAIN PUMP STATION PLAN & SECTION
03-M-01	OPERATIONS - LOWER PLAN
03-M-02	OPERATIONS - DETAILS
05-M-01	INFILTRATION GALLERY PUMP STATION PLAN & SECTION
10-M-01	INTAKE - PLAN & SECTIONS
35-M-01	OVERALL PLANS 1
35-M-02	OVERALL PLANS 2
35-M-03	TREATMENT - FILTER BASINS BELOW SLAB
35-M-04	TREATMENT - FILTER BASINS LOWER PLAN
35-M-05	TREATMENT - FILTER BASINS INTERMDIATE PLAN
35-M-06	TREATMENT - FILTER BASINS UPPER PLAN
35-M-07	TREATMENT - SED BASINS LOWER PLAN
35-M-08	TREATMENT - SED BASINS INTERMEDIATE PLAN
35-M-09	TREATMENT - SED BASINS UPPER PLAN
35-M-10	TREATMENT - FLOC BASINS LOWER PLAN
35-M-11	TREATMENT - FLOC BASINS INTERMEDIATE PLAN
35-M-12	TREATMENT - FLOC BASINS UPPER PLAN
35-M-13	TREATMENT - SECTIONS 1
35-M-14	TREATMENT - SECTIONS 2
35-M-15	TREATMENT - SECTIONS 3
35-M-16	TREATMENT - SECTIONS 4
35-M-17	TREATMENT - SECTIONS & DETAILS
35-M-18	TREATMENT - ENLARGED PLAN
35-M-19	TREATMENT - ENLARGED PLAN & SECTIONS
60-M-01	CLARIFIER - PLAN
60-M-02	CLARIFIER - SECTION
70-M-01	CLEARWELL - LOWER PLAN
70-M-02	CLEARWELL - INTERMEDIATE PLAN
70-M-03	CLEARWELL - UPPER PLAN
70-M-04	CLEARWELL - SECTION & DETAILS 1
70-M-05	CLEARWELL - SECTION & DETAILS 2
70-M-07	COLLECTION BOX - PLAN & SECTION
87-M-01	FLUORIDE - FLOOR PLAN
87-M-02	FLUORIDE - SECTIONS
87-M-03	FLUORIDE - DETAILS

Brown AND Caldwell

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: J.HIMEBAUGH
DRAWN BY: R.FULK
CHECKED BY: J.HESBY
APPROVED BY: J.HIMEBAUGH
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	JH	JH

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES

BRIC PACKAGE

DRAWING INDEX 1

90% GMP

DRAWING NO.

G-02

Plot Date:6/13/2024 4:54:39 PM Path: BIM 360//153020 — City Creek WTP/153020_G_00V21.rvt

LIST OF DRAWINGS

PLUMBING

DRAWING NO.	DESCRIPTION
GP-01	GENERAL NOTES & SYMBOLS
GP-02	STANDARD PLUMBING DETAILS
GP-03	PLUMBING SCHEDULES
35-P-01	OVERALL PLANS 1
35-P-02	OVERALL PLANS 2
35-P-03	TREATMENT - FILTER BASINS LOWER PLAN
35-P-04	TREATMENT - FILTER BASINS UPPER PLAN
35-P-05	TREATMENT - FILTER BASINS ROOF PLAN
35-P-06	TREATMENT - SED BASINS LOWER PLAN
35-P-07	TREATMENT - SED BASINS UPPER PLAN
35-P-08	TREATMENT - FLOCCULATORS LOWER PLAN
35-P-09	TREATMENT - FLOCCULATORS UPPER PLAN
35-P-10	TREATMENT - FLOCCULATORS ROOF PLAN
70-P-01	CLEARWELL - LOWER PLAN
70-P-02	CLEARWELL - UPPER PLAN
70-P-03	CLEARWELL - ROOF PLAN
70-P-04	CLEARWELL - ENLARGED PLANS
87-P-01	FLUORIDE - FLOOR PLAN
87-P-02	FLUORIDE - SCHEDULES AND DETAILS

HVAC

DRAWING NO.	DESCRIPTION
GH-01	GENERAL NOTES & SYMBOLS
GH-02	STANDARD HVAC DETAILS 1
GH-03	STANDARD HVAC DETAILS 2
GH-04	HVAC SCHEDULES
GH-05	AIRFLOW SCHEMATICS
03-H-01	OPERATIONS - LOWER PLAN
35-H-01	OVERALL PLANS 1
35-H-02	OVERALL PLANS 2
35-H-03	TREATMENT - FILTER BASINS UPPER PLAN
35-H-04	TREATMENT - SED BASINS UPPER PLAN
35-H-05	TREATMENT - FLOCCULATORS UPPER PLAN
70-H-01	CLEARWELL - LOWER PLAN
70-H-02	CLEARWELL - UPPER PLAN
70-H-03	CLEARWELL - ROOF PLAN
70-H-04	CLEARWELL - ENLARGED PLANS
87-H-01	FLUORIDE - FLOOR PLAN
87-H-02	FLUORIDE - ROOF PLAN
87-H-03	FLUORIDE - HVAC SCHEDULES AND DETAILS

ELECTRICAL

DRAWING NO.	DESCRIPTION
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GE-02	GENERAL NOTES & SYMBOLS 2
GE-03	GENERAL NOTES & SYMBOLS 3
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01-E-02	ELECTRICAL SITE PLAN - AREA 1
01-E-03	ELECTRICAL SITE PLAN - AREA 2
01-E-04	ELECTRICAL SITE PLAN - AREA 3
01-E-06	DUCTBANK SECTIONS 1
01-E-07	DUCTBANK SECTIONS 2
03-E-01	OPERATIONS - FLOOR ELECTRICAL PLAN
03-E-02	OPERATIONS - ENLARGED PLAN 1
35-E-01	TREATMENT - OVERALL PLAN 1
35-E-02	TREATMENT - OVERALL PLAN 2
35-E-03	TREATMENT - FILTERS LOWER LVL ELECTRICAL PLAN
35-E-04	TREATMENT - FILTERS UPPER LVL ELECTRICAL PLAN
35-E-05	TREATMENT - SED BASINS LOWER LVL ELECTRICAL PLAN
35-E-06	TREATMENT - SED BASINS UPPER LVL ELECTRICAL PLAN
35-E-07	TREATMENT - FLOC BASINS LOWER LVL ELECTRICAL PLAN
35-E-08	TREATMENT - FLOC BASINS UPPER LVL ELECTRICAL PLAN
35-E-09	TREATMENT - FILTERS LOWER LVL LGT & RCP PLAN
35-E-10	TREATMENT - FILTERS UPPER LVL LGT & RCP PLAN
35-E-11	TREATMENT - SED BASINS UPPER LVL LGT & RCP PLAN
35-E-12	TREATMENT - FLOC BASINS UPPER LVL LGT & RCP PLAN
35-E-13	TREATMENT - FILTERS LOWER LVL TRY & GRD PLAN
35-E-14	TREATMENT - FILTERS UPPER LVL TRY & GRD PLAN
35-E-15	TREATMENT - SED BASINS UPPER LVL TRY & GRD PLAN
35-E-16	TREATMENT - FLOC BASINS UPPER LVL TRY & GRD PLAN
35-E-17	TREATMENT - ENLARGED PLANS 1
35-E-18	TREATMENT - ENLARGED PLANS 2
35-E-19	TREATMENT - ENLARGED PLANS 3
35-E-20	TREATMENT - SECTIONS 1
35-E-21	TREATMENT - SECTIONS 2
35-E-22	TREATMENT - SECTIONS 3
60-E-01	CLARIFIER - ELECTRICAL PLAN
70-E-01	CLEARWELL - LOWER LVL ELECTRICAL PLAN
70-E-02	CLEARWELL - INTERMEDIATE LVL ELECTRICAL PLAN
70-E-03	CLEARWELL - UPPER LVL ELECTRICAL PLAN
70-E-04	CLEARWELL - LOWER LVL LGT & RCP PLAN
70-E-05	CLEARWELL - INTERMEDIATE LVL LGT & RCP PLAN
70-E-06	CLEARWELL - UPPER LVL LGT & RCP PLAN
70-E-07	CLEARWELL - LOWER LVL TRY & GRD PLAN
70-E-08	CLEARWELL - INTERMEDIATE LVL TRY & GRD PLAN
70-E-09	CLEARWELL - UPPER LVL TRY & GRD PLAN
70-E-10	CLEARWELL - ENLARGED PLAN 1
70-E-11	CLEARWELL - ENLARGED PLAN 2
70-E-12	CLEARWELL - ENLARGED PLAN 3
70-E-13	CLEARWELL - SECTIONS 1
70-E-14	CLEARWELL - SECTIONS 2
70-E-15	CLEARWELL - PANEL SCHEDULES 1
70-E-16	CLEARWELL - PANEL SCHEDULES 2
70-E-17	CLEARWELL - PANEL SCHEDULES 3
70-E-18	CLEARWELL - PANEL SCHEDULES 4
70-E-20	CLEARWELL - MCC SCHEDULE 1
70-E-21	CLEARWELL - SWITCHGEAR ONE-LINE 1
70-E-22	CLEARWELL - MCC ONE-LINE 1
70-E-23	CLEARWELL - MCC ONE-LINE 2
70-E-24	CLEARWELL - SWITCHGEAR ELEVATION 1
70-E-25	CLEARWELL - MCC ELEVATION 1
70-E-26	CLEARWELL - MCC ELEVATION 2
87-E-01	FLUORIDE - FLOOR ELECTRICAL PLAN
87-E-03	FLUORIDE - ROOF ELECTRICAL PLAN
87-E-10	FLUORIDE - ONE-LINE DIAGRAM
87-E-11	FLUORIDE - PANEL SCHEDULE

INSTRUMENTATION

DRAWING NO.	DESCRIPTION
GI-01	LEGEND & SYMBOLS 1
GI-02	LEGEND & SYMBOLS 2
GI-03	LEGEND & SYMBOLS 3
GI-04	ABBREVIATIONS
GI-05	TYPICAL I/O WIRING
GI-06	AREA PLC LAYOUT
GI-07	AREA PLC POWER DISTRIBUTION
GI-10	TYPICAL FILTER PANEL PLC LAYOUT
GI-11	FILTER PANEL WIRING SCHEMATIC
GI-12	STANDARD DETAILS
GI-13	PROJECT DETAILS
GI-20	MOTOR SCHEMATIC 1
GI-21	MOTOR SCHEMATIC 2
GI-22	TYPICAL LOCAL CONTROL STATION 1
NG-01	NETWORK DIAGRAM
NG-02	NETWORK DIAGRAM
01-PI-01	INFILTRATION GALLERY PUMP STATION
03-PI-01	SODIUM HYPOCHLORITE RECIRCULATION LOOP 1
03-PI-02	SODIUM HYPOCHLORITE RECIRCULATION LOOP 2
03-PI-03	SODIUM HYPOCHLORITE FEED 1
03-PI-04	SODIUM HYPOCHLORITE FEED 2
35-PI-01	TREATMENT - FLASH MIX SYSTEM
35-PI-02	TREATMENT - FLASH MIX PUMP
35-PI-03	TREATMENT - FLASH MIX INJECTION
35-PI-04	TREATMENT - FLOCCULATION BASIN INLET CHANNEL
35-PI-05	TREATMENT - FLOCCULATION BASIN 1, STAGE 1
35-PI-06	TREATMENT - FLOCCULATION BASIN 1, STAGE 2
35-PI-07	TREATMENT - FLOCCULATION BASIN 1, STAGE 3
35-PI-08	TREATMENT - FLOCCULATION BASIN 2, STAGE 1
35-PI-09	TREATMENT - FLOCCULATION BASIN 2, STAGE 2
35-PI-10	TREATMENT - FLOCCULATION BASIN 2, STAGE 3
35-PI-11	TREATMENT - SEDIMENTATION BASIN 1A
35-PI-12	TREATMENT - SEDIMENTATION BASIN 1B
35-PI-13	TREATMENT - SEDIMENTATION BASIN 2A
35-PI-14	TREATMENT - SEDIMENTATION BASIN 2B
35-PI-15	TREATMENT - FILTER INLET CHANNEL
35-PI-16	TREATMENT - FILTER 1
35-PI-17	TREATMENT - FILTER 2
35-PI-18	TREATMENT - FILTER 3
35-PI-19	TREATMENT - FILTER 4
35-PI-20	TREATMENT - FILTER 5
35-PI-21	TREATMENT - FILTER 6
35-PI-22	TREATMENT - COMBINED FILTERED WATER
35-PI-23	TREATMENT - COMBINED FILTER-TO-WASTE & BW
35-PI-24	TREATMENT - FILTER AIR SCOUR BLOWERS
35-PI-28	TREATMENT - ANIONIC POLYMER STORAGE & FEED
35-PI-29	TREATMENT - ANIONIC POLYMER FEED PUMPS 1 & 2
35-PI-30	TREATMENT - ANIONIC POLYMER FEED PUMPS 3 & 4
35-PI-31	TREATMENT - SED BASINS SOLIDS COLLECTION BOX
35-PI-32	TREATMENT - RECYCLE PUMP STATION
35-PI-33	TREATMENT - SUMP PUMPS
35-PI-34	TREATMENT - AIR GAP AND COLLECTION BOX STRUCTURES
60-PI-01	WASTE BACKWASH WATER CLARIFIER
60-PI-02	RECYCLED WATER PUMP STATION
70-PI-01	CLEARWELLS
70-PI-02	CLEARWELL - CARRIER PUMPS AND SAMPLE PUMP
70-PI-03	CLEARWELL - PW PUMP STATION
70-PI-04	CLEARWELL - BACKWASH SUPPLY PUMP STATION
70-PI-05	CLEARWELL - BACKWASH CONSTANT HEAD STRUCTURE
70-PI-06	CLEARWELL - STRUCTURAL UNDERDRAIN PUMP STATION
70-PI-07	CLEARWELL - BW STORAGE BASIN
87-PI-01	EXISTING FLUORIDE STORAGE

APPENDIX A

ALTERNATE ONSITE SOLUTIONS - CITY CREEK SEPTIC SYSTEM DESIGN (5 SHEETS)
ARCSITIO DESIGN - CITY CREEK LANDSCAPE ARCHITECTURAL DESIGN (3 SHEETS)

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: J.HIMEBAUGH
DRAWN BY: R.FULK
CHECKED BY: J.HESBY
APPROVED BY: J.HIMEBAUGH
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	JH	JH
1	06/26/24	REVISED FOR GUARANTEE MAXIMUM PRICE (GMP)	JH	JH

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

DRAWING INDEX 2

90% GMP

Brown AND Caldwell

DRAWING NO.
G-03

Plot Date:6/26/2024 3:47:56 PM Path: BIM 360//153020 – City Creek WTP/153020_G_00V21.rvt

RACEWAYS

HH23 — MANHOLE (MH), HANDHOLE (HH), PULLBOX (PB)

JB1900 — JUNCTION BOX. OPTIONAL IDENTIFIER

TB-1301 — TERMINAL BOX. OPTIONAL IDENTIFIER

PBD-1900-1,3,5 — HOME RUN EXPOSED - SEE PANELBOARD, SWITCHBOARD, OR MCC SCHEDULE FOR CIRCUIT INFORMATION

EXAMPLE: HOME TO PANELBOARD PBD-1900, CIRCUITS 1, 3, AND 5

PBD-1900-1,3,5 — HOME RUN CONCEALED - SEE PANELBOARD, SWITCHBOARD, OR MCC SCHEDULE FOR CIRCUIT INFORMATION.

EXAMPLE: HOME TO PANELBOARD PBD-1900, CIRCUITS 1, 3, AND 5

CABLE TRAY MODIFIERS:
- CTS - 24VDC OR LESS
- CTC - 120V CONTROL CONDUCTORS
- CTP - 600V POWER CONDUCTORS

CABLE #4/0 AND LARGER SHALL NOT BE STACKED VERTICALLY

WHEN TWO TRAY MODIFIERS IDENTIFY A SINGLE TRAY, THE CONTRACTOR MAY USE DIVIDER OR INSTALL SEPARATE TRAYS (CTC/CTS)

CABLE TRAY WITH COVER MODIFIER, AS ABOVE

RP70P00010 — RACEWAY TAG

RACEWAY EXPOSED
MODIFIERS FOR RACEWAY TAG:
- RP - POWER
- RC - CONTROL
- RS - SIGNAL, FIBER
- RX - SPARE

RACEWAY CONCEALED

RACEWAY TURNED TOWARD THE THE VIEWER

RACEWAY TURNED DOWN

CONDUIT CAPPED

DB 05P1100 — DUCT BANK IDENTIFIER (OPTIONAL)

DB — DUCT BANK, DIRECT BURIED

CDB — DUCT BANK, CONCRETE ENCASED

RC — DUCTBANK, REINFORCED CONCRETE ENCASED

OH — OVERHEAD POWER LINE

DISTRIBUTION EQUIPMENT

APPROXIMATE SHAPE AND SCALE REPRESENTED WHERE POSSIBLE. HOWEVER, EXACT SIZE AND NUMBER OF SECTIONS IS ESTIMATED

FLOOR-STANDING DISTRIBUTION ASSEMBLY, SUCH AS A SWITCHBOARD, TRANSFORMER, OR MOTOR CONTROL CENTER

MCC-001 — EQUIPMENT DESIGNATION (EXAMPLE)

WALL-MOUNTED DISTRIBUTION ASSEMBLY, SUCH AS PANELBOARD, MOTOR STARTER PANEL, OR TERMINAL CABINET

LCP-0001 — EQUIPMENT DESIGNATION (EXAMPLE)

LIGHTING

FIXTURE IDENTIFIER:

- NUMBER OF FIXTURES (SHOWN ONLY WHEN REQUIRED FOR CLARITY)
- FIXTURE TYPE. TYPE APPLIES TO ALL FIXTURES OF THE SAME SHAPE WITHIN A ROOM OR AREA.
- MOUNTING:
  - L = POLE   R = RECESSED
  - G = GROUND   S = SURFACE
  - P = PENDANT   W = WALL
- MOUNTING HEIGHT, FLOOR TO BOTTOM OF FIXTURE UON. AHAP= AS HIGH AS POSSIBLE. AD= ABOVE DOOR.
- NUMBER OF LAMPS/LAMP WATTAGE
- CONTROL: PHOTOCELL, SWITCH, CONTACTOR

(5, XX, R, 2/40, PC, 8'-6")

LIGHTING FIXTURE SHAPES AND SCALE ARE REPRESENTED WHERE POSSIBLE. THE EXAMPLES SHOWN BELOW ARE TYPICAL APPLICATIONS

RECESSED LIGHTING FIXTURE

SUSPENDED PENDANT MOUNTED FIXTURE

SURFACE MOUNTED FIXTURE

NS — EMERGENCY LIGHTING FIXTURES, FIXTURES WITH EMERGENCY BALLASTS, AND FIXTURES IDENTIFIED WITH AN 'NS' SHALL BE PROVIDED WITH NON-SWITCHED POWER SOURCE

E — LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK

LIGHT FIXTURE

WALL MOUNTED FIXTURE

DIRECTIONAL LIGHT

POLE MOUNTED AREA LIGHT

EMERGENCY LIGHTING UNIT SELF CONTAINED

LIGHTING CONTINUED

EXIT LIGHTS:

SURFACE ON CEILING

WALL MOUNTED

WITH DIRECTIONAL ARROWS

3a — CIRCUIT IDENTIFIER: WHEN SHOWN ADJACENT TO FIXTURE IDENTIFIES CIRCUIT NUMBER AND SWITCH. EXAMPLE: CIRCUIT 3, CONTROLLED BY SWITCH a

PC — PHOTO CELL

OS — OCCUPANCY SENSOR

WIRING DEVICES

SWITCHES:

UNLESS OTHERWISE NOTED, ALL SWITCHES ARE WALL MOUNTED

$ — TOGGLE SWITCH, SINGLE POLE

$$ — GANGED SWITCHES IN COMMON BOX WITH COMMON WALL PLATE

$\$^{a}_{3}$

SUPERSCRIPT INDICATES CIRCUIT CONTROLLED: a, b, c, ETC. MAY BE COMBINED WITH CIRCUIT NUMBER. EXAMPLE: 1a, 4b, ETC

SUBSCRIPT MODIFIER INDICATES:
- 2 = DOUBLE POLE
- 3 = THREE WAY
- 4 = FOUR WAY
- k = KEY OPERATED
- MC = MOMENTARY CONTACT, THREE POSITION
- MS = MANUAL (MOTOR) STARTER OR SWITCH WITH OVERLOADS
- R = RHEOSTAT (DIMMER, SPEED CONTROL)
- O = OCCUPANCY SWITCH

D — DIMMER

RECEPTACLES:

WP — DUPLEX RECEPTACLE

RECEPTACLE MODIFIERS:
- WP = WEATHER PROOF
- GFI = GROUND FAULT CIRCUIT INTERRUPTER

HAZARDOUS AREA; EXPLOSION PROOF

EXPLOSION PROOF, CLASS 1, DEAD FRONT, 45° ANGLE, TWO GANG

RECESSED FLOOR RECEPTACLE - ANY RECEPTACLE INSIDE A SQUARE

SURFACE FLOOR RECEPTACLE - ANY RECEPTACLE INSIDE A TRIANGLE

GANGED RECEPTACLES--IN COMMON BOX, WITH COMMON WALL PLATE

C — RECEPTACLE, CLOCK HANGER

RECEPTACLE, DUPLEX ON EMERGENCY

EQUIPMENT OR SPECIAL PURPOSE CONNECTION

GROUNDING

GROUND ROD

GROUND ROD WITH GROUND WELL

GROUND CONNECTION, COMPRESSION TYPE, EXOTHERMIC. SEE SPECIFIC

G — GROUNDING CONDUCTOR

GROUND CONNECTION

GROUND CONNECTION TO STRUCTURAL REINFORCEMENT

LIGHTNING ROD/AIR TERMINAL

MOTORS AND EQUIPMENT

MOTOR STARTER, INDIVIDUAL. NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY

COMBINATION MOTOR STARTER. NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY

DISCONNECT SWITCH, NON-FUSED EXAMPLE: 30 AMP

F — DISCONNECT SWITCH, FUSED EXAMPLE: 100 AMP, 2P, 80 AMP FUSES

M — MOTOR

SV — SOLENOID VALVE

H — HEATER

T — THERMOSTAT

WH — WATER HEATER

FIELD INSTRUMENT

LOCAL CONTROL STATION

LCP-0001 — EQUIPMENT DESIGNATION

CONTROL PANEL, VFD, RVSS, APPROXIMATE SHAPE AND SCALE.

AREA IDENTIFICATION

C1-D1 — HAZARDOUS AREA CLASSIFICATION

C1-D2 — HAZARDOUS AREA CLASSIFICATION

TELEPHONE & COMMUNICATION SYSTEMS

UNLESS OTHERWISE NOTED, TELEPHONE OUTLETS SHALL BE MOUNTED AT SAME HEIGHT AS THE RECEPTACLES.

EXTERNAL LINE OR PLANT PHONE SYSTEM OUTLET

OUTLET, DATA COMMUNICATION

SECURITY CAMERA

SPEAKER

H — AUDIBLE HORN

B — STROBE LIGHT (BLUE SHOWN)

CS — ELECTRONIC CARD SWIPE

SD — SMOKE DETECTOR

R — RATE-OF-RISE DETECTOR

CABLE TAG

XX-XXXXXXXXX A

- MODIFIER
- EQUIPMENT TAG
- SUFFIX

NOTE:

MODIFIERS FOR CABLE TAG:
- CP - POWER
- CC - CONTROL
- CS - SIGNAL, FIBER
- CV - VENDOR

SUFFIX:
A - LETTER TO CREATE UNIQUE ID

GENERAL NOTES:

1. SYMBOLS AND ABBREVIATION DRAWINGS ARE GENERAL IN NATURE. SOME SYMBOLS SHOWN HEREON MAY NOT BE USED ON THE CONTRACT DRAWINGS.
2. SYMBOLS ARE ARRANGED ON SPECIFIC DRAWINGS AND IN CATEGORIES FOR CONVENIENCE ONLY; SYMBOLS MAY BE USED ON ANY OF THE CONTRACT DRAWINGS.
3. IDENTIFICATIONS (ID), SIZES, RATINGS, LOCATIONS AND SIMILAR INFORMATION SHOWN ASSOCIATED WITH SYMBOLS ARE OPTIONAL; EXAMPLES OF SUCH INFORMATION ARE SHOWN WITH SOME SYMBOLS FOR CLARITY.

Brown AND Caldwell

SCALE: VERIFY SCALE — BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: D.STAR
CHECKED BY: M.PAGENDARM
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES BRIC PACKAGE

GENERAL NOTES & SYMBOLS 1

90% GMP

DRAWING NO. GE-01

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CONTROL DIAGRAM SYMBOLS

GENERAL

- CONDUCTORS CONNECTED
- CONDUCTORS NOT CONNECTED
- TERMINAL POINT FOR EXTERNAL CONNECTIONS
- EXISTING EQUIPMENT (SCREENED)

INDICATING LIGHTS

L — DIRECT CONNECTION

L, X1 — PUSH TO TEST. TEST VOLTAGE TERMINAL SHOWN

LENS COLOR: (L = LENS COLOR)
A = AMBER
B= BLUE
G= GREEN
R= RED
W= WHITE

PUSHBUTTONS

HS-XXXX — PUSHBUTTON, MOMENTARY CONTACT, NORMALLY OPEN

HS-XXXX — PUSHBUTTON, MOMENTARY CONTACT, NORMALLY CLOSED

HS-XXXX — PUSHBUTTON WITH MUSHROOM HEAD, EMERGENCY STOP

SELECTOR SWITCHES

HS-XXXXX, 1, 2, XO — 2 POSITION MAINTAINED CONTACT X = CONTACTS CLOSED O = CONTACTS OPEN

HS-XXXXX, 1, 2, XO, OX — 2 POSITION SPRING RETURNED TO RIGHT O = CONTACTS OPENED X = CONTACTS CLOSED

HS-XXXXX, 3, 1, 2, OXO, OX — 3 POSITION MAINTAINED CONTACT X = CONTACTS CLOSED O = CONTACTS OPENED

CONTROL RELAYS

CR 1 FUNCTION — OPERATION COIL:
CR = CONTROL RELAY

U, L, 8 LR — MECHANICALLY LATCHED RELAY WITH UNLATCHED COIL

CR1 LINE 30, CR2 LINE 30 — OUTPUT CONTACTS. LINE NUMBER OF RELAY COIL SHOWN (OPTIONAL)

OPERATING COIL FUNCTIONS:
L = LATCH
U = UNLATCH
TR = TIMER RELAY
LR = LATCH RELAY

OL — OVERLOAD RELAY

INPUT SWITCHES

NORMALLY OPEN	NORMALLY CLOSED	INITIATING VARIABLE
SS	SS	SPEED
TS	TS	TEMPERATURE
WS	WS	FORCE OR TORQUE
ZS	ZS	POSITION (LIMIT)
FS	FS	FLOW
LS	LS	LEVEL
PS	PS	PRESSURE

TIMING RELAYS

TR 1, SEC / MIN — OPERATING COIL

FUNCTION:
ON OR OFF DELAY
RANGE: SEC / MIN
SET: SEC / MIN

NORMALLY OPEN: TR3 LINE 50 OR TR3 TC; NORMALLY CLOSED: TR3 LINE 50 OR TR3 TO — DELAY ON COIL ENERGIZATION (ON DELAY)

NORMALLY OPEN: TR3 LINE 50 OR TR3 TC; NORMALLY CLOSED: TR3 LINE 50 OR TR3 TO — DELAY ON COIL DE-ENERGIZATION (ON DELAY)

LINE = ID OF LINE OR RUNG NUMBER (LINE OR RUNG NUMBER 50 SHOWN)

CONTACTORS

ID — OPERATING COIL:
C = CONTACTOR, LIGHTING, OR GENERAL USE
F = FAST OR FORWARD
M = MAIN OR LINE
1M = FIRST MAIN OR WYE
2M = SECOND MAIN OR DELTA
R = RUN OR REVERSE
S = SLOW OR START
IC = ISOLATION CONTROL

ID SIZE X — MAIN CONTACTS:
MAIN CONTACTS AIR BREAK, NEMA SIZE OPTIONAL
MODIFIERS:
FVR = FULL VOLTAGE REVERSING
RVS = REDUCED VOLTAGE STARTER
RVSS = REDUCED VOLTAGE SOLID STATE STARTER
RVAT = REDUCED VOLTAGE AUTOTRANSFORMER STARTER
2S2W = TWO SPEED, TWO WINDING STARTER

M SIZE 1 — VACUUM CONTACTOR, NEMA SIZE OPTIONAL

MISCELLANEOUS

- FU 30, 30A — FUSE WITH SIZE AND OPTIONAL IDENTIFICATION
- FU 30, 30A — FUSE WITH BLOWN FUSE INDICATOR
- 480 VAC, 250VA — CONTROL TRANSFORMER PRIMARY AND SECONDARY SIZE AS SHOWN OR AS SPECIFIED
- 250/5, 3 — CURRENT TRANSFORMER PRIMARY/SECONDARY TURNS RATIO SHOWN (OPTIONAL)
- 250 OHM RES — RESISTOR
- RECTIFIER
- SURGE OR ARC SUPPRESSION
- 55 KVAR — CAPACITOR
- CONNECTOR
- XX — INCOMING LINE POWER SUPPLY
- DRAWOUT MECHANISM
- CV-1000 — SOLENOID VALVE: DEVICE ID 'CV-1000' SHOWN
- BUS DUCT
- GROUND CONNECTION
- POTENTIOMETER
- H — METER W/ ALPHA IDENTIFIER:
  A = AMMETER
  H = ELAPSED TIME
  V = VOLTMETER
- BATTERY
- CABLE ID — SHIELDED CABLE
- LOCATED IN FIELD
- AC TERMINAL BLOCK
- DC TERMINAL BLOCK
- DO — PLC I/O POINTS
  DI = DIGITAL INPUT
  DO = DIGITAL OUTPUT
  AI = ANALOG INPUT
  AO = ANALOG OUTPUT

ONE LINE DIAGRAM SYMBOLS

- TRIP FRAME, 52 — POWER CIRCUIT BREAKER (AIR, OIL, OR GAS) FRAME AND TRIP SETTING AND OPTIONAL I.D. SHOWN
- 3P, 100AT/100AF, LSIG; 100AT/100AF, LSIG, 3P — CIRCUIT BREAKER W/ ADJUSTABLE ELECTRONIC TRIP OVER BREAKER FRAME SIZE. SOLID STATE TRIP FEATURES SHOWN:
  L = LONG DELAY
  S = SHORT DELAY
  I = INSTANTANEOUS
  G = GROUND FAULT
- AMPS, MCP; AMPS — CIRCUIT BREAKER
  MCP = MOTOR CIRCUIT PROTECTOR
  3P = 3 POLE THERMAL MAGNETIC TRIP
- 30A, 3P, CLF — FUSED SWITCH: FUSE RATING AND POLES SHOWN
  MODIFIERS:
  CLF = CURRENT LIMITING FUSE
  DE = DUAL ELEMENT
  F = CLASS 'F'
  E = E RATED
- FU 30, 30A — FUSE: 100A CLASS 'F' SHOWN
- ATS# 100A, 3P — POWER TRANSFER SWITCH: DESIGNATION, AMP RATING, AND CONFIGURATION SHOWN
  ATS = AUTOMATIC TRANSFER SWITCH
  MTS = MANUAL TRANSFER SWITCH
  SUSE = SUITABLE FOR USE AS SERVICE ENTRANCE
- 1, FVR — AIR BREAK CONTACTOR, FVNR UNLESS OTHERWISE NOTED, NEMA SIZE 1 INDICATED
  FVR = FULL VOLTAGE, REVERSING STARTER
  2S2W = TWO SPEED, TWO WINDING STARTER
- METERING (ANSI / IEEE FUNCTIONS SPECIFIED)
  POWER MONITOR (PM)
  POWER QUALITY MONITOR (HARMONIC ANALYSIS) (PQM)
  MOTOR MONITOR AND PROTECTION RELAY (MPR)
  FEEDER PROTECTION RELAY (FPR)
- 5 KVA — PACKAGED EQUIPMENT OR NON-MOTOR LOAD. KVA, KW, AMPS, AS NOTED.
- VFD — VARIABLE FREQUENCY DRIVE (VFD) NORMAL DUTY HP IS INDICATED IF DIFFERENT THAN DRIVEN LOAD HP
- RVSS — REDUCED VOLTAGE SOLID STATE STARTER
- SPD — SURGE PROTECTION DEVICE
- 64 N, 3 — ANSI C37.2 DEVICE & QUANTITIES SHOWN
- 600kW, 480V, G, 60 Hz, 3P, 4W — GENERATOR WITH WINDING CONFIGURATION VOLTAGE, POWER, FREQUENCY SHOWN. POWER FACTOR OPTIONAL
- 500 — MOTOR, HORSE POWER SHOWN
- 55 KVAR — POWER FACTOR CORRECTIONS CAPACITOR KVAR RATING SHOWN
- POTHEAD
- STRESS CONE
- PORTABLE CABLE
- CABLE BUS
- BUS CONDUCTOR
- CABLE CONDUCTOR
- SURGE ARRESTOR
- LIGHTNING ARRESTOR
- TEST DEVICE
- 200A — DISCONNECT OR ISOLATING SWITCH 30A MINIMUM. SIZE AS INDICATED. 200 AMP SHOWN.
- 480 VAC, 30KVA, 5% Z, 208/120V — POWER TRANSFORMER, VOLTAGES, SIZE, AND IMPEDANCE SHOWN
- 1.5 KVA, 480 VAC, 2.5% Z, 480 VAC — ISOLATION TRANSFORMER, VOLTAGES, SIZE, AND IMPEDANCE SHOWN
- 3, 480VAC - 120VAC — POTENTIAL TRANSFORMER, PT QUANTITY SHOWN (3) AND VOLTAGES SHOWN
- 250/5, 3 — CURRENT TRANSFORMER, CT QUANTITY AND 250:5 TURNS RATIO SHOWN

WINDING CONFIGURATIONS:

- DELTA
- WYE (GROUNDED)
- K, 50 AMP / 30 SEC — KIRK KEY INTERLOCK
- GDR — NEUTRAL GROUNDING RESISTOR. AMPS/TIME RATING SHOWN
- 1 — NEMA MINIMUM SIZE 1

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Brown AND Caldwell

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: D.STAR
CHECKED BY: M.PAGENDARM
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

GENERAL NOTES & SYMBOLS
2

90% GMP

DRAWING NO.
GE-02

ABBREVIATIONS:

NOTES:

1. ABBREVIATIONS SHOWN ON ELECTRICAL DRAWINGS ARE IN ACCORDANCE WITH ASME STANDARD Y14.38A
2. ABBREVIATIONS ON THIS SHEET ARE IN ADDITION TO THE ABBREVIATIONS DEFINED ON OTHER DRAWINGS.
3. ABBREVIATIONS HERE IN SHALL TAKE PRECEDENCE IN CASE OF CONFLICT.
4. ABBREVIATIONS ARE NOT EQUIPMENT NUMBERING PREFIXES LISTED ON OTHER DRAWINGS.

A, AMP	AMP(S), AMPERE(S)
AC	ALTERNATING CURRENT
AF	ARC FLASH
AFD	ARC FLASH DETECTOR
AFF	ABOVE FINISHED FLOOR
AHAP	AS HIGH AS POSSIBLE
AIC	AMPS INTERRUPTING CAPACITY, SYMM.
AL	ALUMINUM
ARCH	ARCHITECT(URAL)
ARMSARC	FLASH REDUCTION SWITCH
ASYM	ASYMMETRICAL
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BC	BARE COPPER
BLDG	BUILDING
BOT	BOTTOM
BPA	BONNEVILLE POWER ADMINISTRATION
C	CONDUCTOR, CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CM	CENTIMETERS
CND	CONDUIT
CNTL	CONTROL
C.O.	CONDUIT ONLY, SPARE
CONC	CONCRETE
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DB	DUCT BANK, DIRECT BURIAL
DC	DIRECT CURRENT, DATA CABLE
DCU	DISTRIBUTED CONTROL UNIT
DET	DETAIL
DIAG	DIAGRAM
DIS	DISCONNECT
DWG	DRAWING
EA	EACH
EC	EMPTY CONDUIT
ECP	EQUIPMENT CONTROLPANEL
EDB	ELECTRICAL DUCTBANK
EG	ENGINE GENERATOR SET
EL	ELEVATION
ELEC	ELECTRIC(AL)
EMH	ELECTRICAL MANHOLE
EMER	EMERGENCY
ENCL	ENCLOSURE/ENCLOSED
EPB	ELECTRICAL PULLBOX
ETM	ELAPSED TIME METER
EP	EXPLOSION PROOF
EQUIP	EQUIPMENT
EX	EXISTING
FA	FORCED AIR/ FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBP	FOR BID PURPOSES
FDR	FEEDER
FL	FLUORESCENT
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE CONDUIT
F.O.	FAIL OPEN
FO	FIBER OPTIC
FOPP	FIBER OPTIC PATCH PANEL
FUT	FUTURE
G	GROUND
GDR	GROUNDING RESISTOR
GEC	GROUND ELECTRODE CONDUCTOR
GEN	GENERATOR
GF	GROUND FAULT
GFI	GROUND FAULT INTERRUPTER
GND, G	GROUND
GRS	GALVANIZED RIGID STEEL
H	HIGH
HEX	HEAT EXCHANGER
HGT	HEIGHT
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HMI	HUMAN MACHINE INTERFACE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HRG	HIGH RESISTANCE GROUNDING

HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ (CYCLES PER SECOND)
I	INSTANTANEOUS
IAW	IN ACCORDANCE WITH
ICOM	NTERCOM
ID	INSIDE DIAMETER
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
INTLK	INTERLOCK
INST	INSTANTANEOUS
I/O	INPUT–OUTPUT
IPB	INSTRUMENT PULLBOX
JB	JUNCTION BOX
KCMIL	1000 CIRCULAR MIL
KV	KILOVOLT
KVA	KILOVOLT–AMPERE
KVAR	KILOVOLT–AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT–HOUR
L	LONG, LONG TIME
LC	LIGHTING CONTACTOR
LCP	LOCAL CONTROL PANEL
LCS	LOCAL CONTROL STATION
LED	LIGHT EMITTING DIODE
LHH	LOW VOLTAGE HANDHOLE
LL	LOAD REACTOR
LMH	LOW VOLTAGE MANHOLE
LP	LIGHTING PANEL
LR	LINE REACTOR
LT	LONG TIME
LTG	LIGHTING
LV	LOW VOLTAGE
M	METER
MA	MILLIAMPERE
MBS	MANUAL BYPASS SWITCH
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MPC	MINI POWER CENTER
MECH	MECHANICAL
MFR	MANUFACTURE(R)
MH	MANHOLE, METAL HALIDE
MIC	MICROPHONE
MIS	MANAGEMENT INFORMATION STATION
MISC	MISCELLANEOUS
MM	MILLIMETER
MMH	MEDIUM VOLTAGE MANHOLE
MOV	MOTOR OPERATED VALVES
MSC	MANUFACTURER SUPPLIED CABLE
MTS	MANUAL TRANSFER SWITCH
MV	MILLIVOLT, MEDIUM VOLTAGE
MVMC	MEDIUM VOLTAGE MOTOR CONTROL
NEG	NEGATIVE SEQUENCE
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NEUT, N	NEUTRAL
NF	NON–FUSED
NGR	NEUTRAL GROUNDING RESISTOR
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NOM	NOMINAL
NP	NAMEPLATE
NS	NOT SWITCHED
NTS	NOT TO SCALE
OA	OPEN AIR
OC	ON CENTER
OCC	OPERATION CONTROL CENTER
OCP	OVER CURRENT PROTECTION
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OIS	OPERATOR INTERFACE STATION
OT	OIL TIGHT
OWS	OPERATOR WORKSTATION
P	POLE, PHASE
PBD	PANEL BOARD
PB	PUSHBUTTON, PULLBOX

PCP	PROCESS CONTROL PANEL
PF	POWER FACTOR
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PM	POWER MONITOR
PMM	POWER METERING MODULE
PNL	PANEL
PP	POWER PANEL
PQM	POWER QUALITY METER
PR	PAIR
PRI	PRIMARY
PS	PUMP STATION
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
QSB	QUARTZ STANDBY
RC	REINFORCED CONCRETE
RCPT	RECEPTACLE
REF	REFERENCE
REQD	REQUIRED
RE STL	REINFORCING STEEL
RMS	ROOT MEAN SQUARE
RSC	RIGID STEEL CONDUIT
RTD	RESISTANCE TEMPERATURE DETECTOR
RTU	REMOTE TERMINAL UNIT
RVSS	REDUCED VOLTAGE SOLID STATE STARTER
S	SHORT TIME
SA	SURGE ARRESTOR
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR
SEC	SECONDARY
SEL	SELECTOR
SHH	SIGNAL HANDHOLE
SMH	SIGNAL MANHOLE
SPEC	SPECIFICATION
SPD	SURGE PROTECTION DEVICE
SPKR	SPEAKER
SSP	SUBSTATION POWER
ST	SHORT TIME
STB	SHORTING TERMINAL BOARD
STP	SHIELDED TWISTED PAIR
SUB	SUBSTATION
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYMM	SYMMETRICAL
SYS	SYSTEM
TB	TERMINAL BOX
TEL	TELEPHONE
TEMP	TEMPERATURE
TFR	TRANSFORMER
TRI	TRIAD
TS	TEST SWITCH
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
U/G	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLTAMPERE
VAR	VOLTAMPERE REACTIVE
VC	VACUUM CONTACTOR
VCP	VENDOR CONTROL PANEL
VFD	VARIABLE FREQUENCY DRIVE
VND	VENDOR
W	WATT, WIRE, WIDE
W/	WITH
W/O	WITHOUT
WW	WIREWAY
WG	WITH GROUND
WP	WEATHERPROOF
XFMR	TRANSFORMER
XMTR	TRANSMITTER
XP	EXPLOSION PROOF
Z	IMPEDANCE

GENERAL NOTES:

1. THE ELECTRICAL DRAWINGS USE THE ONE LINE DIAGRAMS AND RISER DIAGRAMS AND PANEL SCHEDULES IN CONJUNCTION WITH SHOWING THE LOCATION OF THE ELECTRICAL/INSTRUMENTATION SOURCES AND LOADS/DEVICES SHOWN ON THE PLAN DRAWINGS TO DEPICT THE WORK. THE CONTRACTOR SHALL USE THESE DOCUMENTS TO DETERMINE AND PROVIDE THE NECESSARY RACEWAY AND WIRING SYSTEM FOR EACH CIRCUIT. ALL INDOOR RACEWAY SHALL BE RUN EXPOSED AND ROUTED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. THE TYPE OF RACEWAY AND WIRE USED SHALL BE AS SPECIFIED.
2. IF EQUIPMENT SUPPLIED BY MANUFACTURER HAS A LARGER LOAD THAN INDICATED ON THE SINGLE LINE DIAGRAM, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED. THE CABLE, CONDUIT AND ELECTRICAL EQUIPMENT SHALL BE SIZED AS REQUIRED, TO ACCOMMODATE THE HIGHER VALUE AT NO COST TO THE OWNER OR ENGINEER.
3. IN AREAS WHERE THERE ARE OVERHEAD CRANES, HOISTS, ETC., OR WHERE EQUIPMENT IS LIFTED AND MOVED FOR MAINTENANCE OR REPLACEMENT, NO CONDUITS SHALL BE RUN OVERHEAD THAT WILL INTERFERE WITH THE OPERATION OF THE EQUIPMENT OR ACCESS TO EQUIPMENT. COORDINATE OVERHEAD RACEWAY ROUTING WITH OWNER'S REPRESENTATIVE.
4. THE LOCATION OF THE CONTROL STATIONS, LOCAL DISCONNECTS, RECEPTACLES, LIGHTING, ETC., SHOWN ON THE PLAN DRAWINGS ARE DIAGRAMMATIC ONLY. THE ACTUAL LOCATION SHALL BE COORDINATED IN THE FIELD WITH THE OWNER'S REPRESENTATIVE AND ADJACENT EQUIPMENT SUCH AS PIPING, PROCESS EQUIPMENT, ETC.
5. THE CONTRACTOR SHALL COORDINATE WITH THE STRUCTURAL AND MECHANICAL DRAWINGS FOR CONDUIT STUB UP AND TERMINATION LOCATIONS.
6. ALL DETAILS AND DIMENSIONS ASSOCIATED WITH THESE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO PERFORMING THE WORK THAT RELIES ON THIS INFORMATION. FINAL LOCATIONS SHALL BE APPROVED BY THE CONSTRUCTION MANAGER.
7. ALL ELECTRICAL RACEWAY FLOOR AND WALL PENETRATIONS SHALL BE SEALED TO MAKE THEM WEATHER TIGHT AND FIRE RESISTANT, ALL SEALANTS SHALL BE UL LISTED.
8. UNLESS OTHERWISE NOTED, LIQUID–TIGHT FLEXIBLE METAL CONDUIT WITH LISTED FITTINGS SHALL BE USED IN CLASS 1, DIVISION 2 AND UNCLASSIFIED LOCATIONS WHERE CONNECTIONS TO EQUIPMENT ARE SUBJECT TO VIBRATION.
9. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EQUIPMENT MOUNTING, VENTILATION, AND CONNECTION REQUIREMENTS.
10. COORDINATE THE ELECTRICAL AND COMMUNICATION INSTALLATION WITH ALL OTHER TRADES PRIOR TO START OF ANY WORK.
11. ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE APPROVED BY UNDERWRITERS LABORATORIES (UL) INC. FOR THE PURPOSE OF WHICH THEY ARE USED AND SHALL BEAR THEIR LABEL.
12. ALL NEW EQUIPMENT SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES. LETTERS SHALL BE BLACK ON WHITE UNLESS ASSOCIATED WITH EMERGENCY CIRCUITS OR SHUTDOWN, IN WHICH CASE THE BACKGROUND SHALL BE RED.
13. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT AND MATERIALS.
14. ALL ELECTRICAL INDUSTRIAL CONTROL PANELS SHALL BEAR THE LABEL OF A UL 508A APPROVED PANEL SHOP. THE PANELS SHALL BE PROVIDED IN ACCORDANCE WITH NEC ARTICLE 409.
15. CONTRACTOR SHALL FILL–IN OR PATCH EXISTING CONCRETE AS REQUIRED FOR INSTALLATION OF NEW EQUIPMENT. SEE DIVISION 3 SPECIFICATIONS FOR CONCRETE REQUIREMENTS.

Brown AND Caldwell

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: D.STAR
CHECKED BY: M.PAGENDARM
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE
GENERAL NOTES & SYMBOLS
3

90% GMP

DRAWING NO.
GE–03

C:\bcpw\d1569745\GE-03.dwg Jun 12, 2024 - 2:17pm

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	MOUNTING	CKT. VOLTS	LAMP DATA	REMARKS	SYMBOL
A1	PREDATOR MEDIUM LED (PMLED): PMLED, 3000K, AUTO-SENSING (120-277V), 5X5 PRISMATIC GLASS, TENON SLIPFITTER (KNUCKLE), WET LOCATION, BLACK PAINT HOLOPHANE RTS/AORTS ROUND TAPERED STEEL POLE	HOLOPHANE	PMLED P2 30K MVOLT 55 KO BKSDP WL	POLE	277	LED ARRAY		
AF1	WALL MOUNT LED MINI SCONCE	PHILIPS GARDCO	111L-16-750-NW-G3-4-120-F1-BK	WALL	120	LED ARRAY		
MF1	PHUZION LED HIGH BAY, 35000 LUMENS, PENDANT MOUNT	HOLOPHANE	PHZ 35000LM 277 35K 80CRI PM	PENDANT	277	LED ARRAY		
SF1	LED 4FT SUSPENDED LUMINAIRE	LITHONIA	MSL 4000LM L/LV 120 35K 80CRI	SUSPENDED	120	LED ARRAY		
X1	LED EXIT SIGN WITH BACKUP BATTERY, RIGHT ARROW	HUBBELL	EVE-U-R-W-E	WALL	120	LED ARRAY		
X2	LED EXIT SIGN WITH BACKUP BATTERY	HUBBELL	EVE-U-R-W-E	WALL	120	LED ARRAY		
X3	LED EXIT SIGN WITH BACKUP BATTERY, LEFT ARROW	HUBBELL	EVE-U-R-W-E	WALL	120	LED ARRAY		

NOTE:
FOR FIXTURES MOUNTING HEIGHT REFER TO LIGHTING SHEETS FOR EACH BLDG.

C:\bcpw\d1569745\GE-04.dwg Jun 12, 2024 - 2:19pm

Brown AND Caldwell

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: ---
ACCOUNT NO: 512260079

REVISIONS

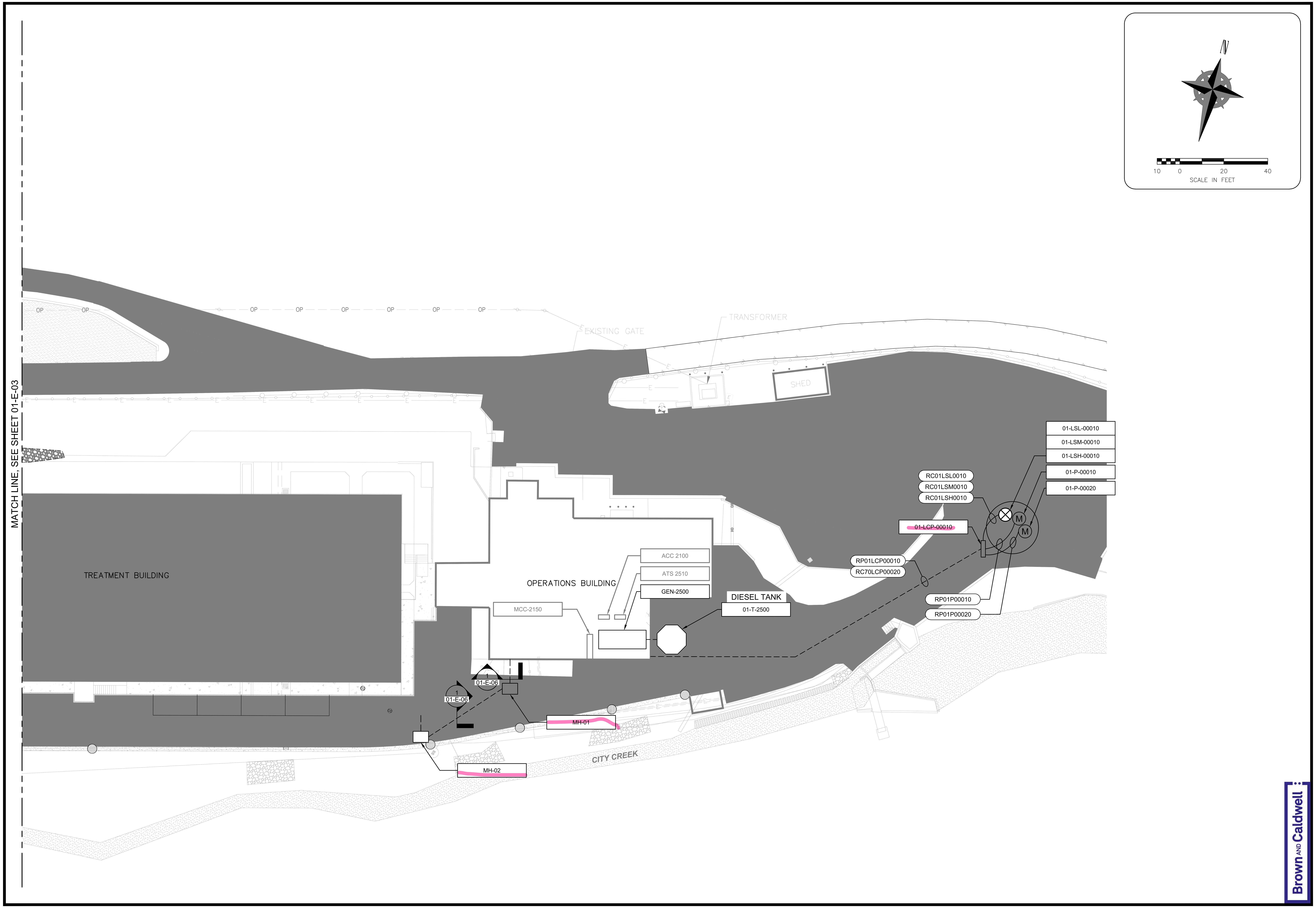
NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE
LUMINAIRE SCHEDULE

SALT LAKE CITY

90% GMP

DRAWING NO.
GE-04



SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: ---
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

ELECTRICAL SITE PLAN – AREA 1

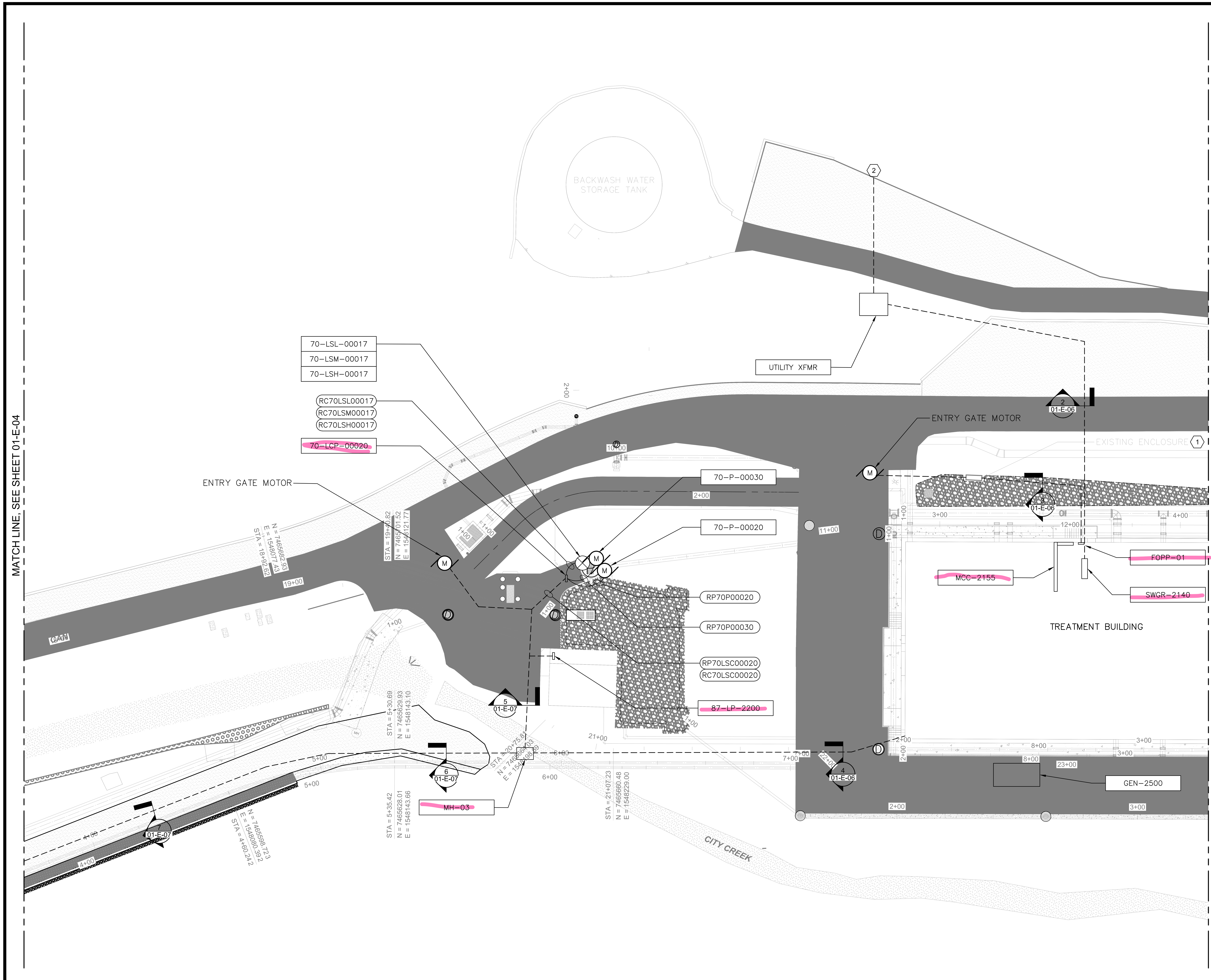
90% GMP

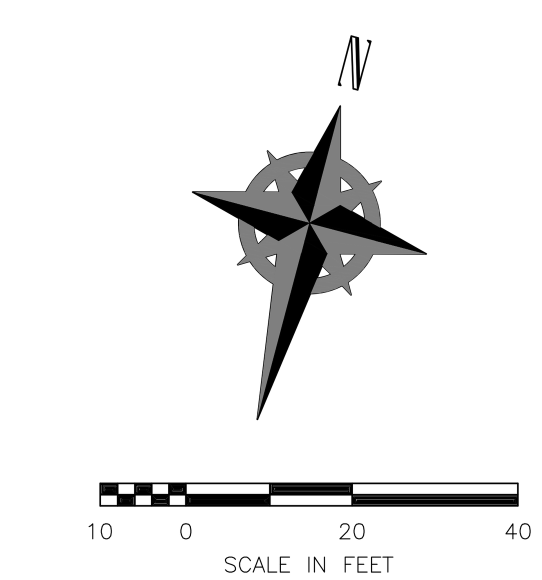
Brown AND Caldwell

DRAWING NO.

01-E-02

C:\bcpw\d1569745\01-E-02.dwg Jun 12, 2024 - 1:54pm





KEYNOTES:

1. TIE IN TO EXISTING FIBER OPTIC CABLES WITH NEW FIBER OPTIC PATCH PANEL IN EXISTING JUNCTION BOX.
2. FROM OVERHEAD UTILITY POLES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

SCALE:

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: ---
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

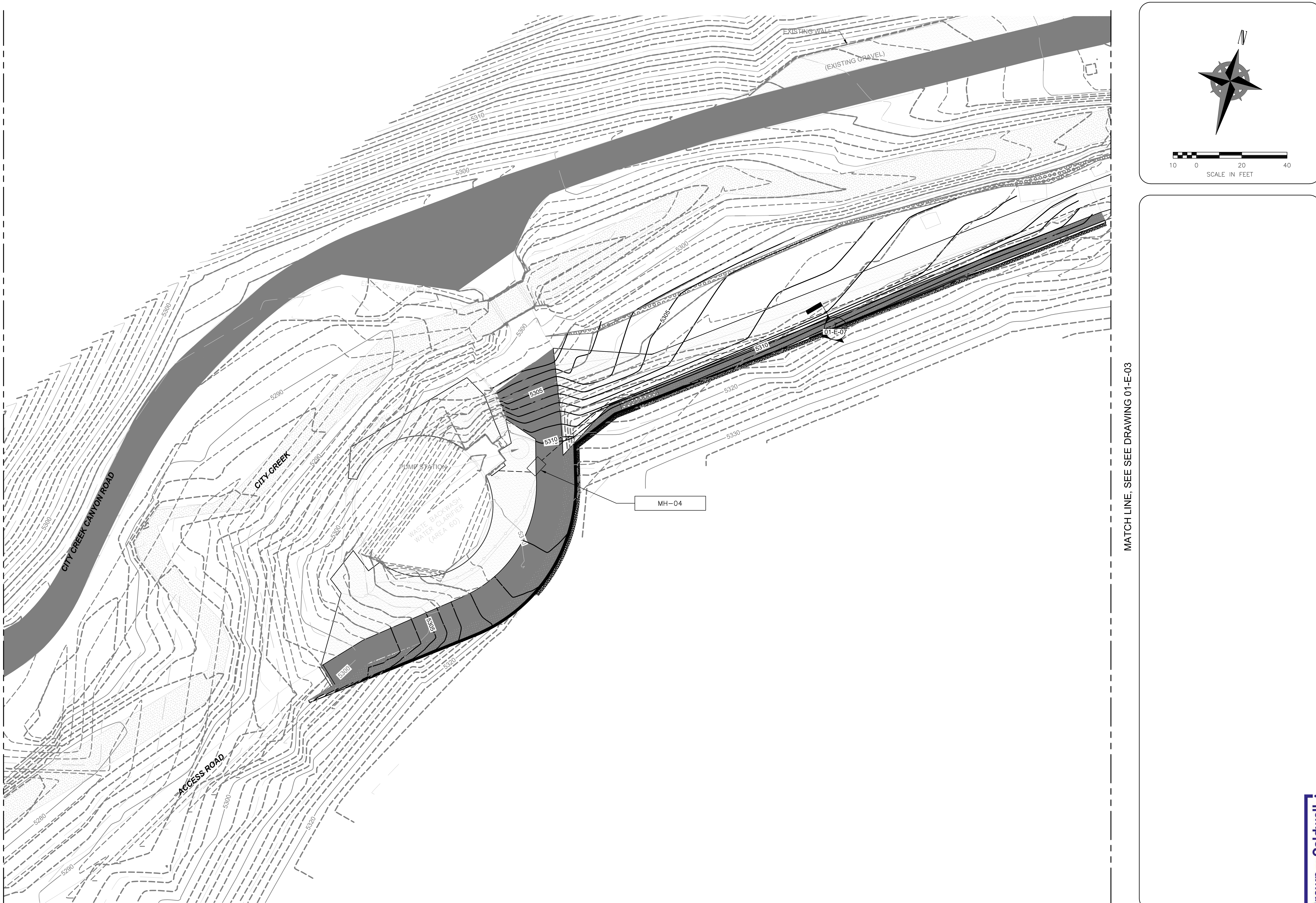
ELECTRICAL SITE PLAN – AREA 2

90% GMP

Brown AND Caldwell

DRAWING NO.
01-E-03

C:\bcpw\d1569745\01-E-03.dwg Jun 12, 2024 – 12:52pm



SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES

BRIC PACKAGE

ELECTRICAL SITE PLAN – AREA 3

REVISIONS

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

SCALE:

VERIFY SCALE

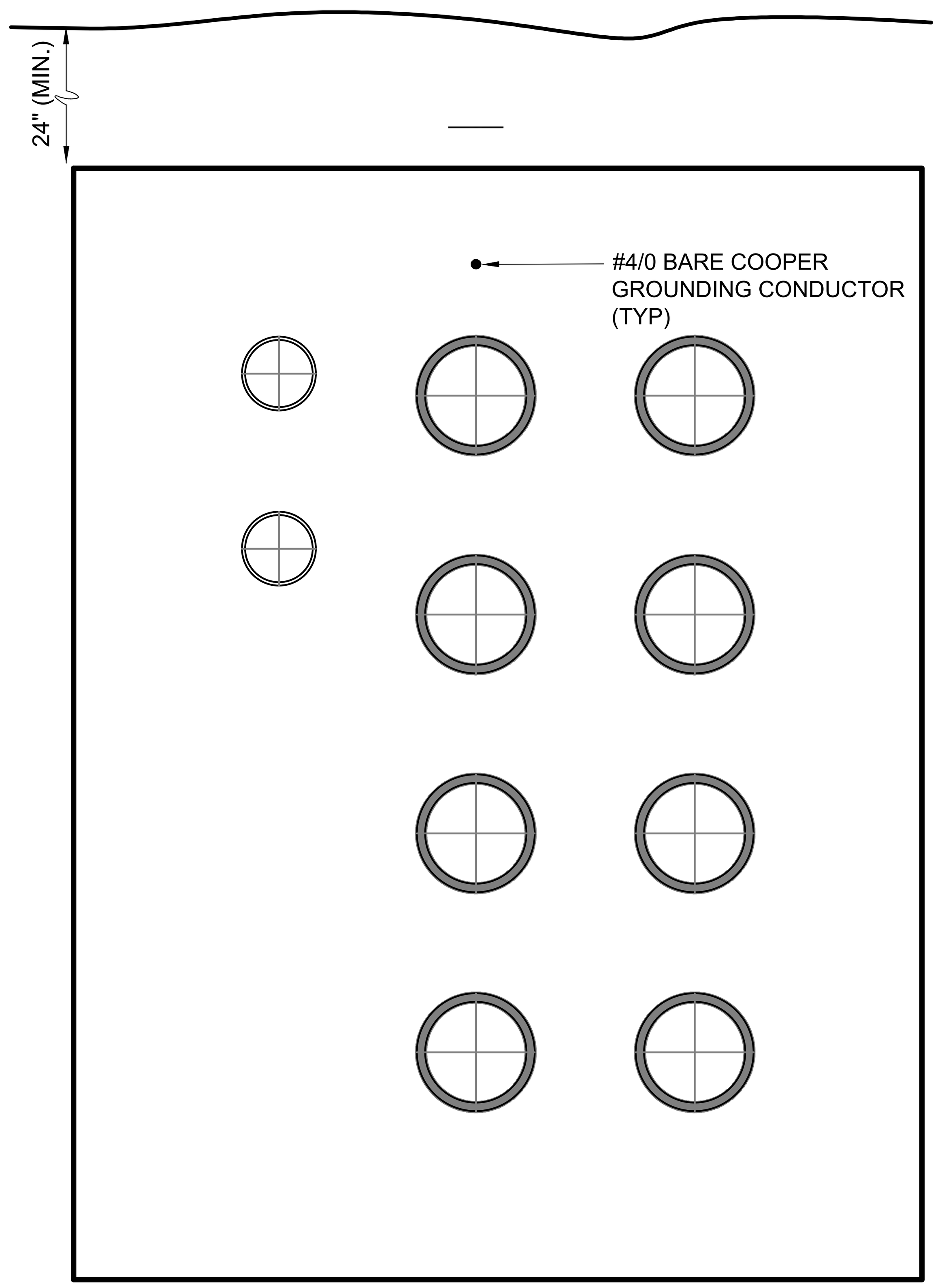
BAR IS ONE INCH ON ORIGINAL DRAWING

90% GMP

Brown AND Caldwell

DRAWING NO.
01-E-04

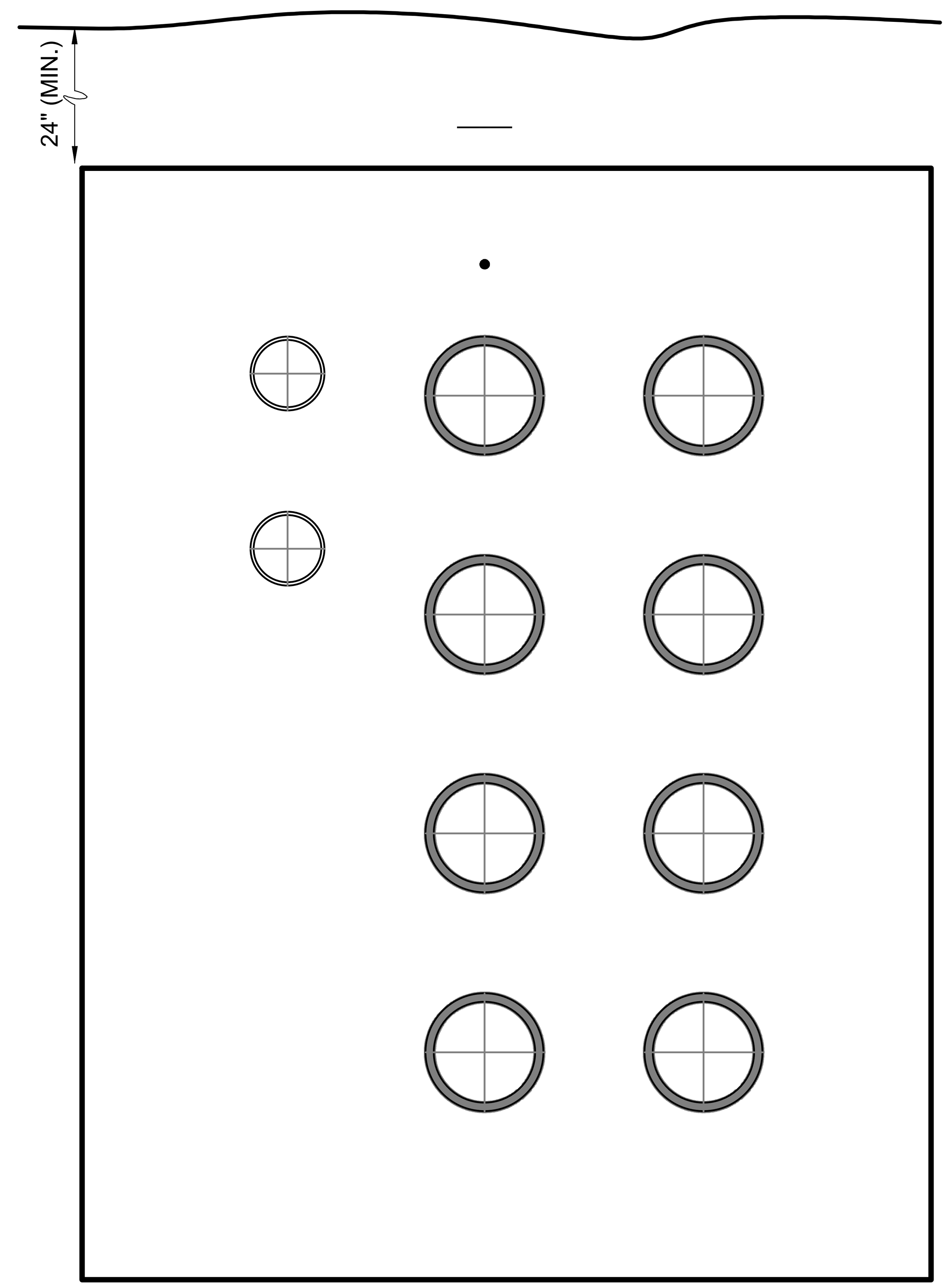
C:\bcpw\d1569745\01-E-04.dwg Jun 12, 2024 – 2:42pm



S= 25.2" W X 33.0" H (8-3"C, 2-2"C)
DB-01

RS01FOPP01A	RP01MCC2155A	RP01MCC2160A
RS70PLC9000A	RP01MCC2155D	RP01MCC2160E
	RP01MCC2155G	RP01MCC2160I
	RP01MCC2155J	RP01MCC2160M

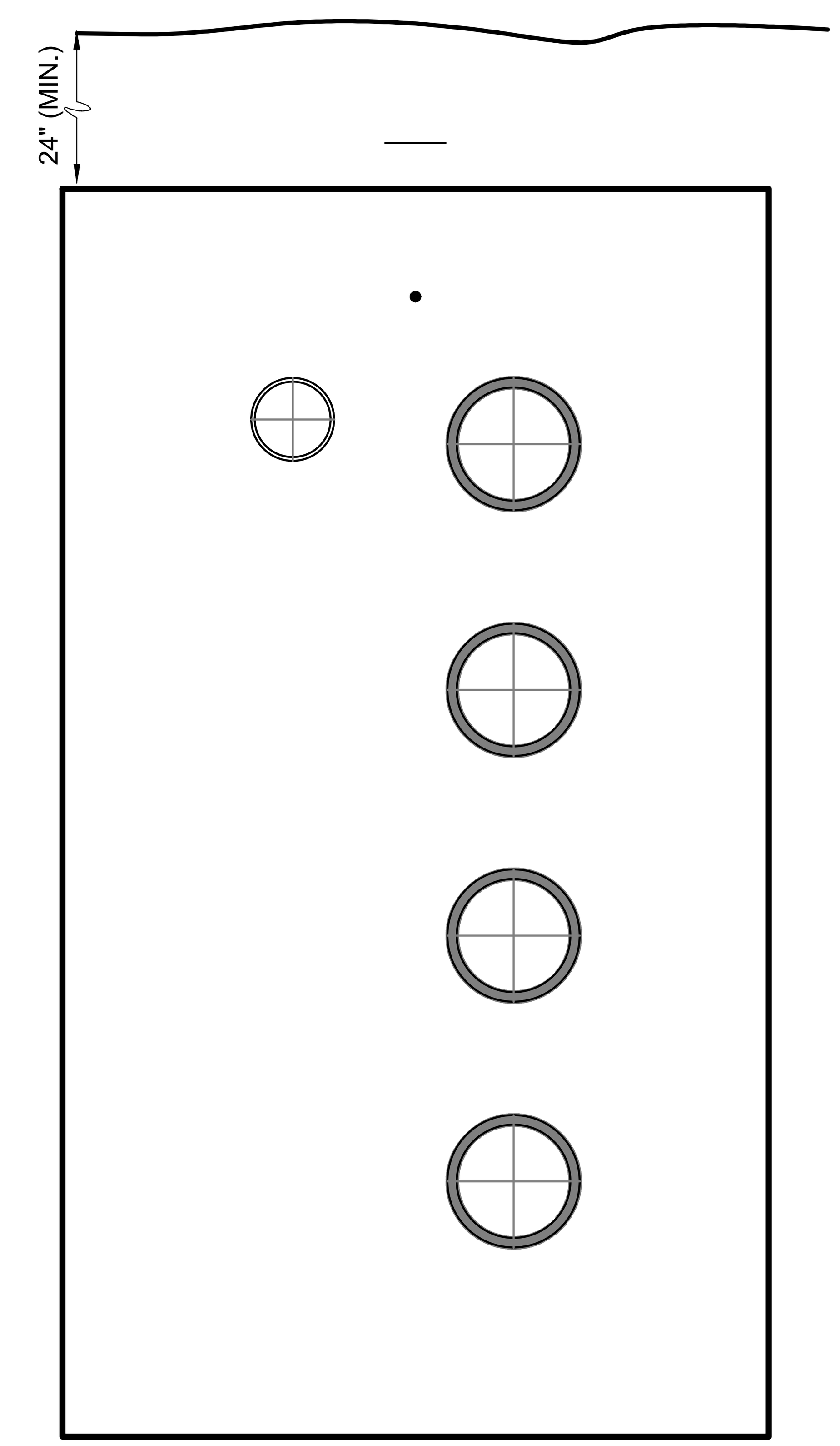
1
01-E-02



S= 25.2" W X 33.0" H (8-3"C, 2-2"C)
DB-02

RS01FOPP01B	RP01MCC2155B	RP01MCC2160B
RS70PLC9000B	RP01MCC2155E	RP01MCC2160F
	RP01MCC2155H	RP01MCC2160J
	RP01MCC2155K	RP01MCC2160N

2
01-E-02



S= 18.7" W X 33.0" H (4-3"C, 1-2"C)
DB-03

RS70PLC9000C	RP01MCC2160C
	RP01MCC2160G
	RP01MCC2160K
	RP01MCC2160O

3
01-E-03

4
01-E-03

SHEET NOTES

Brown AND Caldwell

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: ---
ACCOUNT NO: 512260079

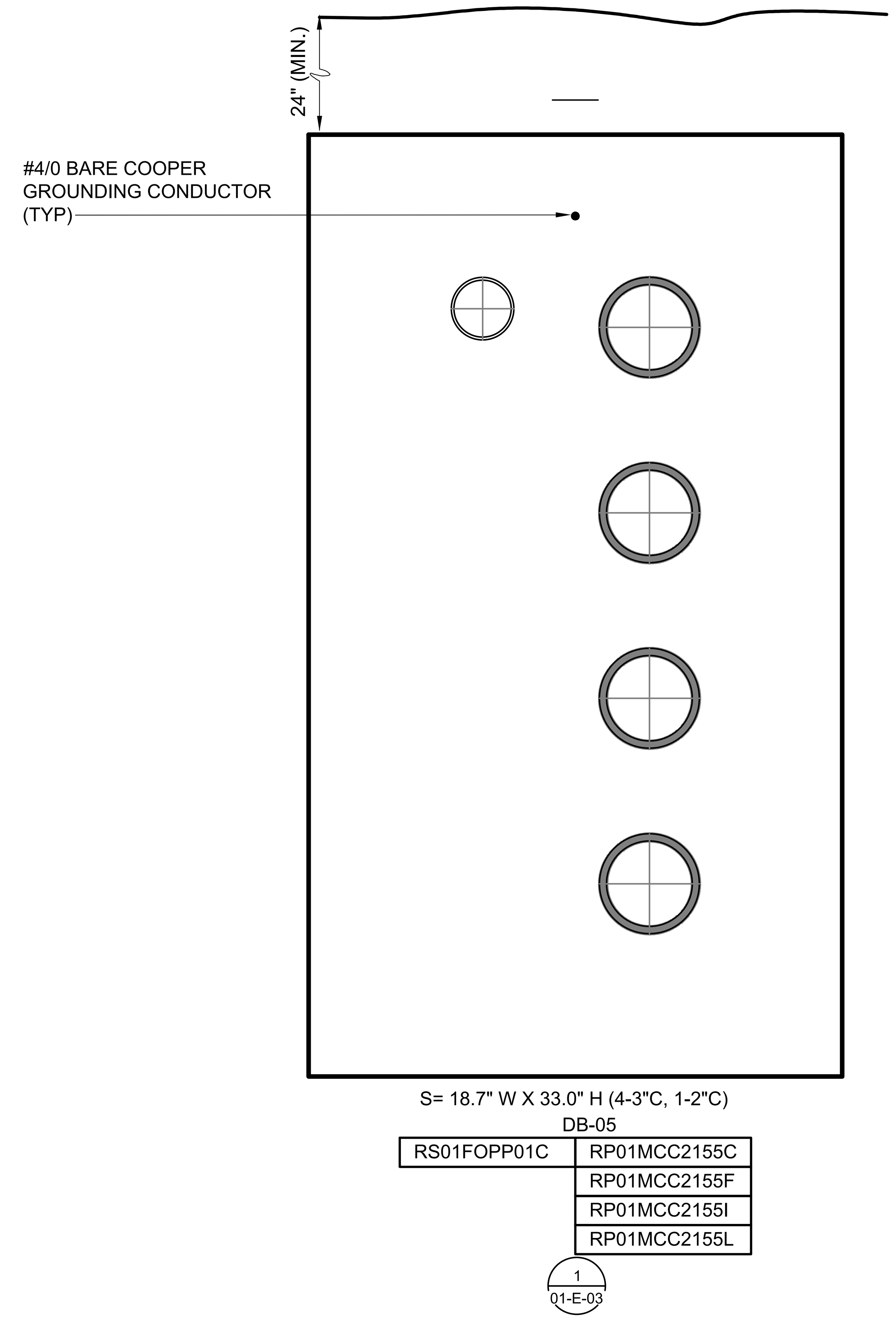
REVISIONS

NO.	DATE		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE
DUCTBANK SECTIONS 1

90% GMP

DRAWING NO.
01-E-06



SHEET NOTES

Brown AND Caldwell

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: ---
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

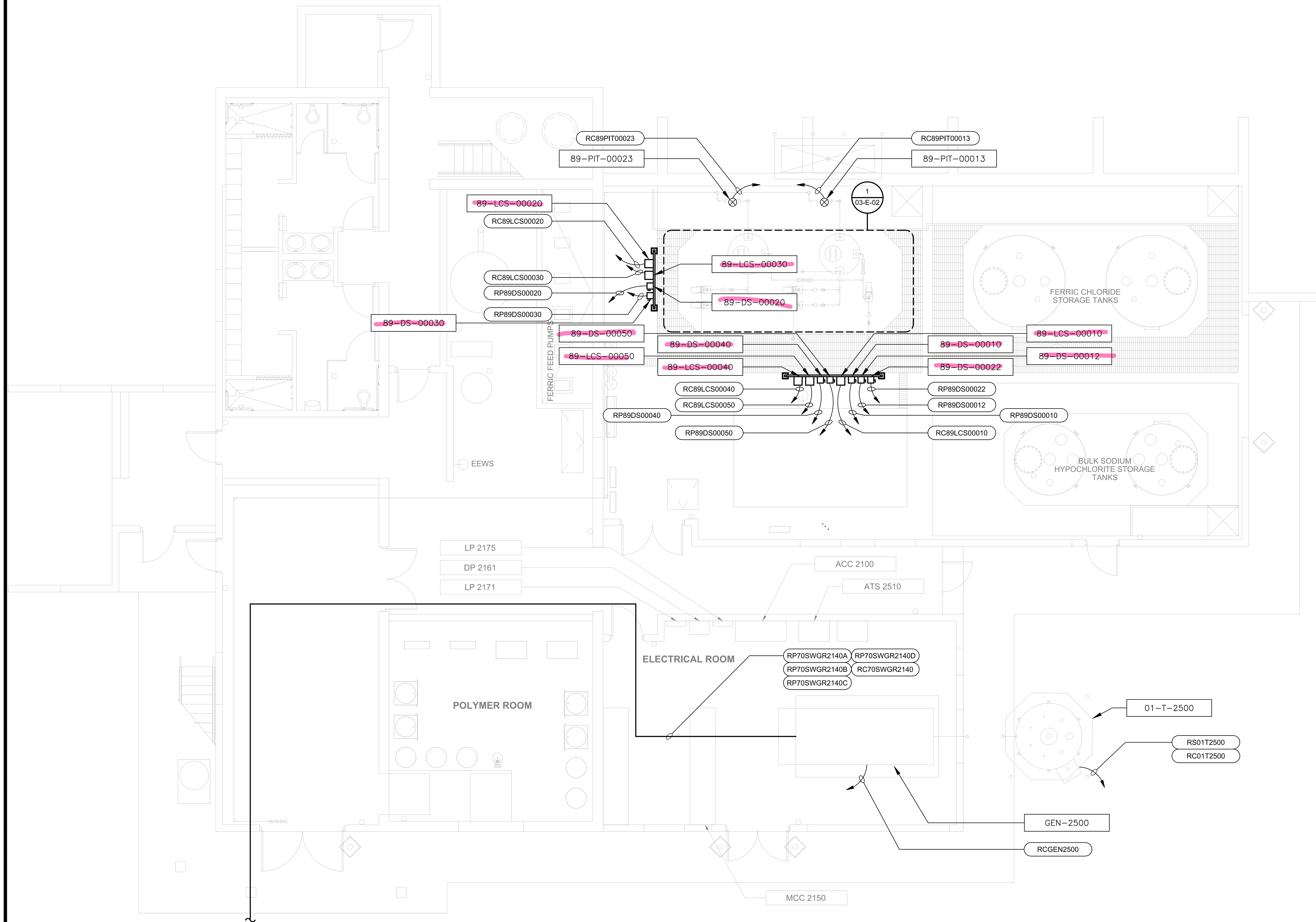
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

DUCTBANK SECTIONS 2

90% GMP

DRAWING NO.
01-E-07

C:\bcpw\d1569745\01-E-07.dwg Jun 12, 2024 - 2:23pm



CONTINUED TO DRAWING 01-E-02

PLAN
SCALE: 3/16"=1'-0"

C:\bcpw\d1569745\03-E-01.dwg Jun 13, 2024 - 12:44pm

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ROBERTS
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

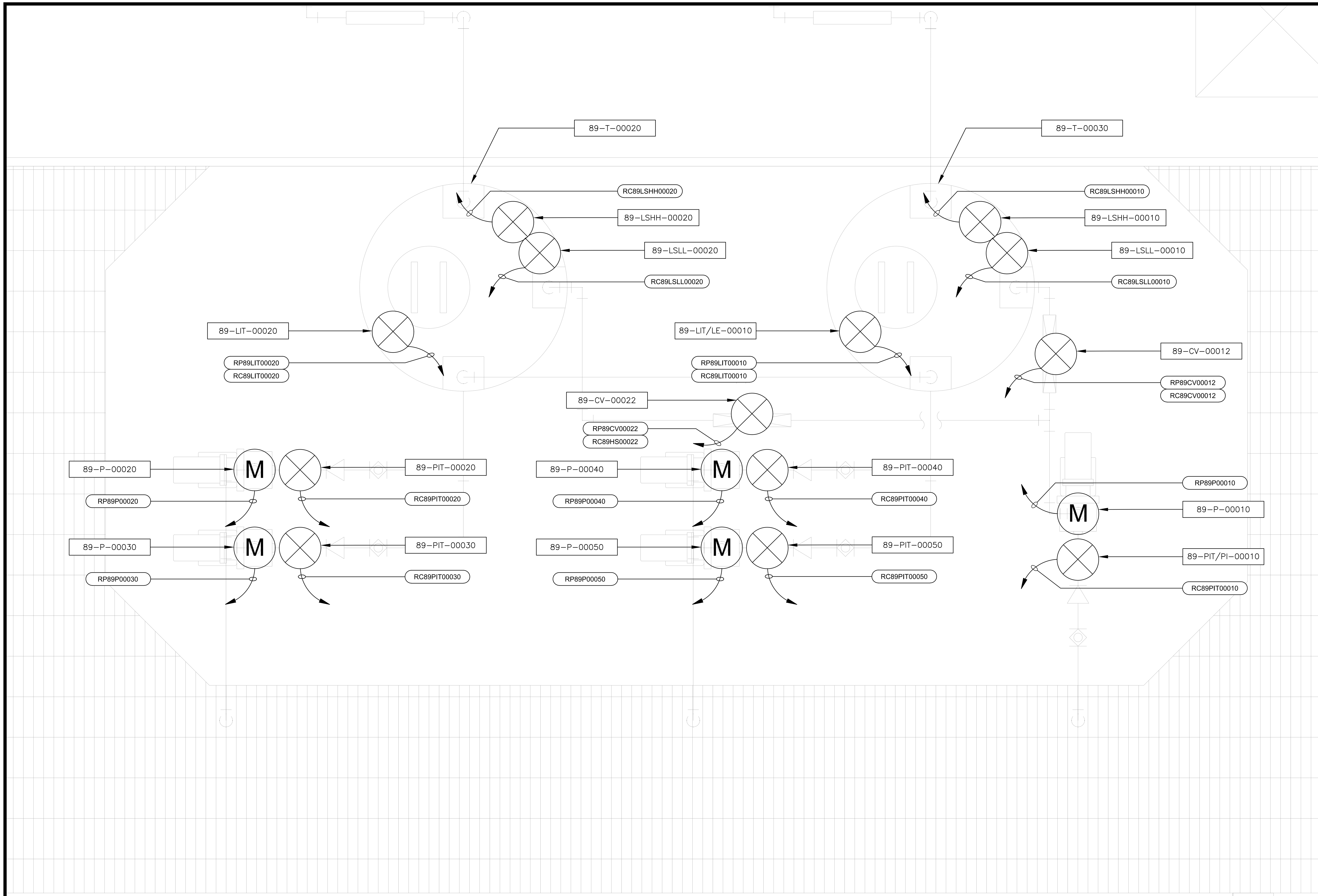
SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

OPERATIONS - FLOOR
ELECTRICAL PLAN

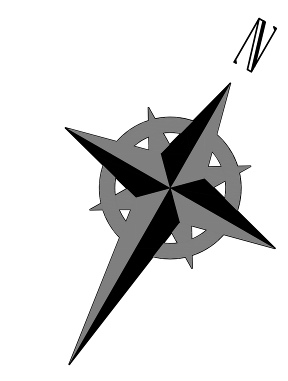
90% GMP

Brown AND Caldwell

DRAWING NO.
03-E-01



1
03-E-01
ENLARGED PLAN
SCALE: 1"=1'-0"



C:\bcpw\d1569745\03-E-02.dwg Jun 13, 2024 - 1:08pm

Brown AND Caldwell

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ROBERTS
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

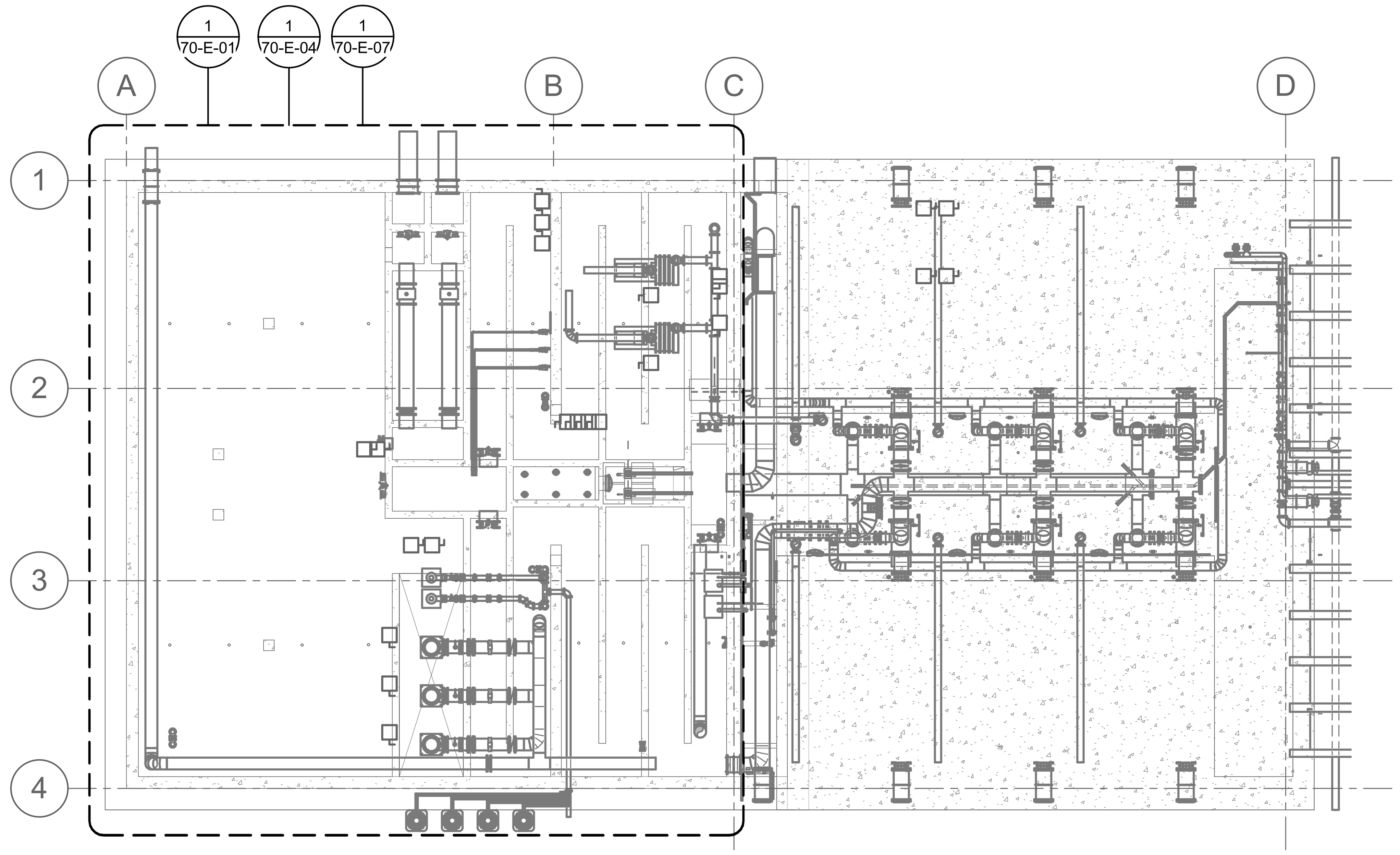
SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

OPERATIONS - ENLARGED PLAN 1

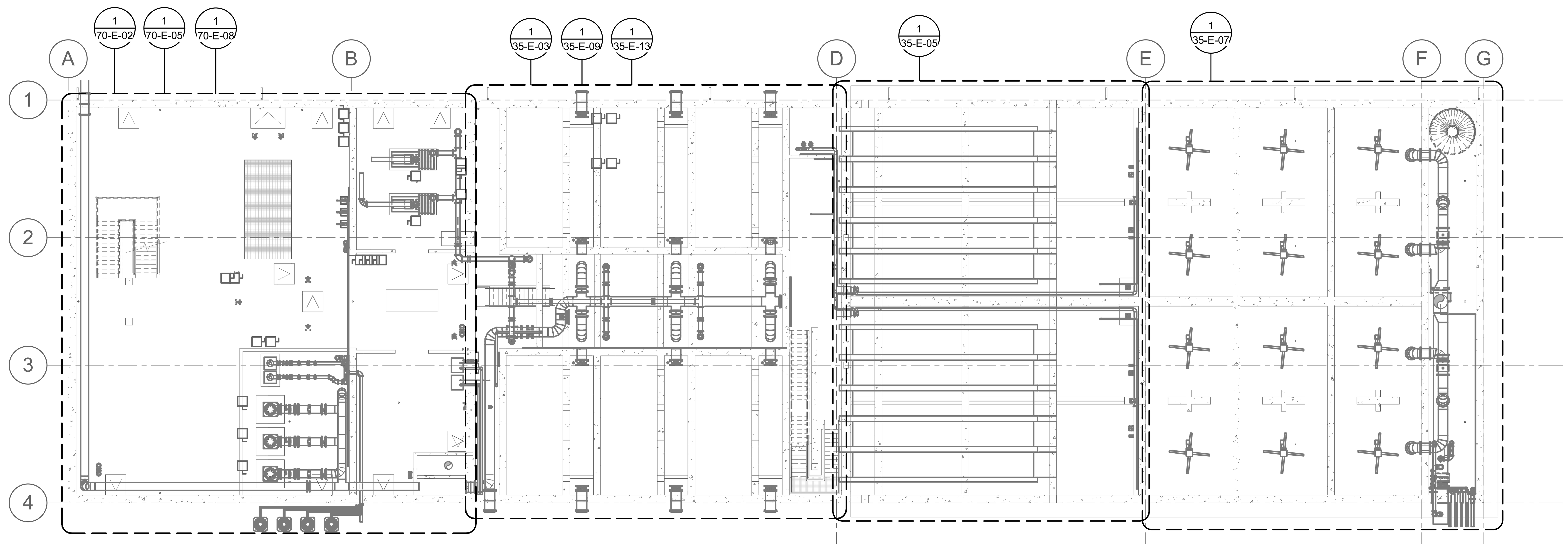
90% GMP

DRAWING NO.
03-E-02



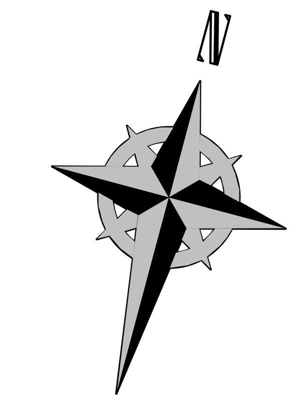
OVERALL LOWER PLAN

SCALE: 1/16" = 1'-0"



OVERALL INTERMEDIATE PLAN

SCALE: 1/16" = 1'-0"



SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

TREATMENT - OVERALL PLAN 1

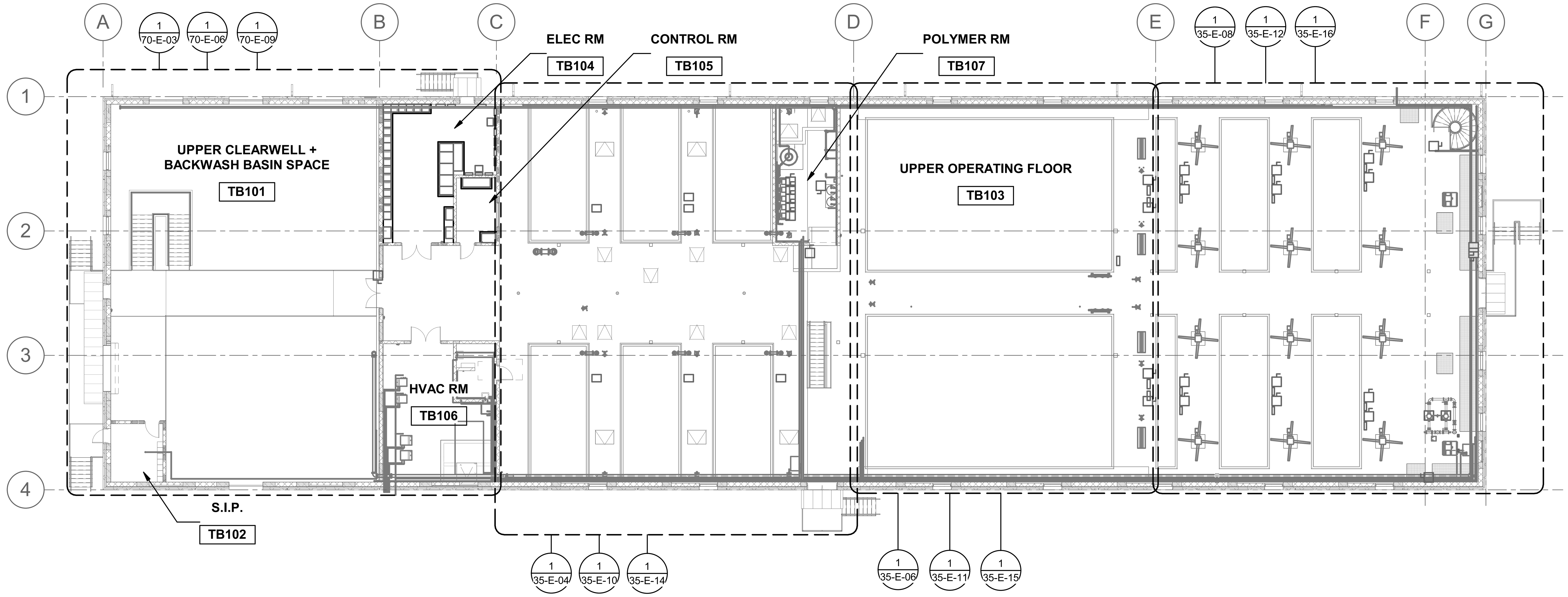
Brown AND Caldwell

90% GMP

DRAWING NO.

35-E-01

Plot Date:6/12/2024 3:54:21 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



OVERALL UPPER PLAN

SCALE: 1/16" = 1'-0"

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES BRIC PACKAGE

TREATMENT - OVERALL PLAN 2

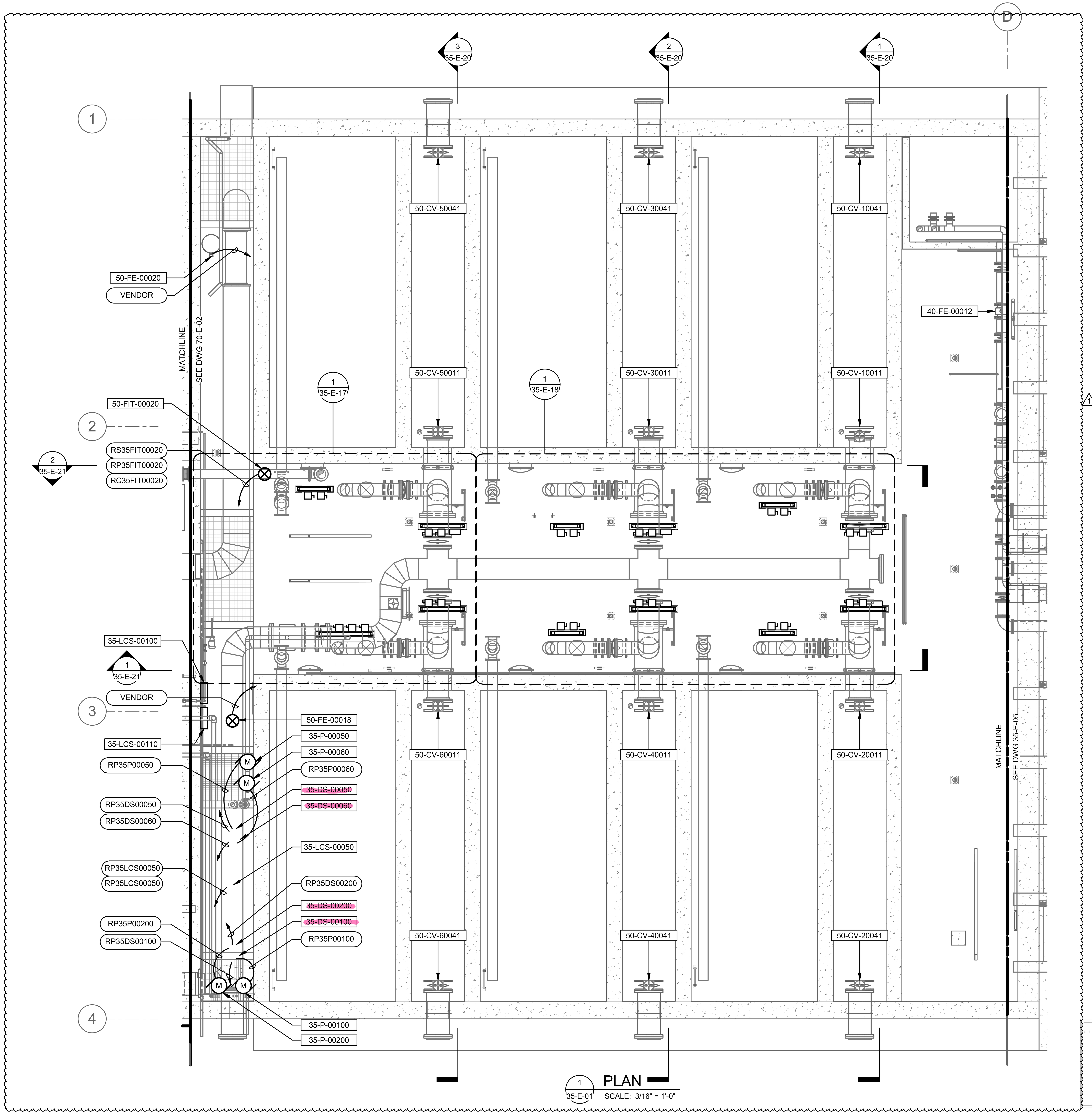
90% GMP

Brown AND Caldwell

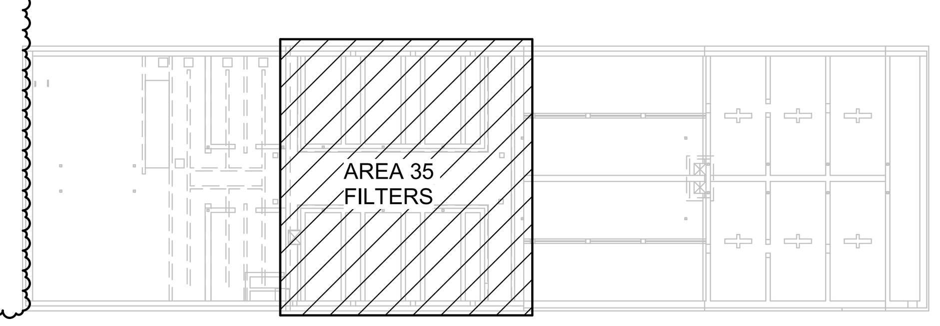
DRAWING NO.

35-E-02

Plot Date:6/12/2024 3:54:42 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1
35-E-01
PLAN
SCALE: 3/16" = 1'-0"



KEY PLAN

KEYNOTES:

1. THREE CABLE TRAYS CONNECT THE UPPER FLOOR ELECTRICAL ROOM TO THE LOWER GALLERY.
THE ROUTE OF THESE THREE CABLE TRAYS STARTS IN THE ELECTRICAL ROOM ON SHEET 35-E-07.
THE ROUTE CONTINUES ON SECTION 3 OF SHEET 35-E-29.
THEN, THE ROUTE CONTINUES ON SECTION 1 OF SHEET 35-E-28.

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO.: --
ACCOUNT NO.: 512260079

REVISIONS

NO.	DATE		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS
1	06/27/24	REVISED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

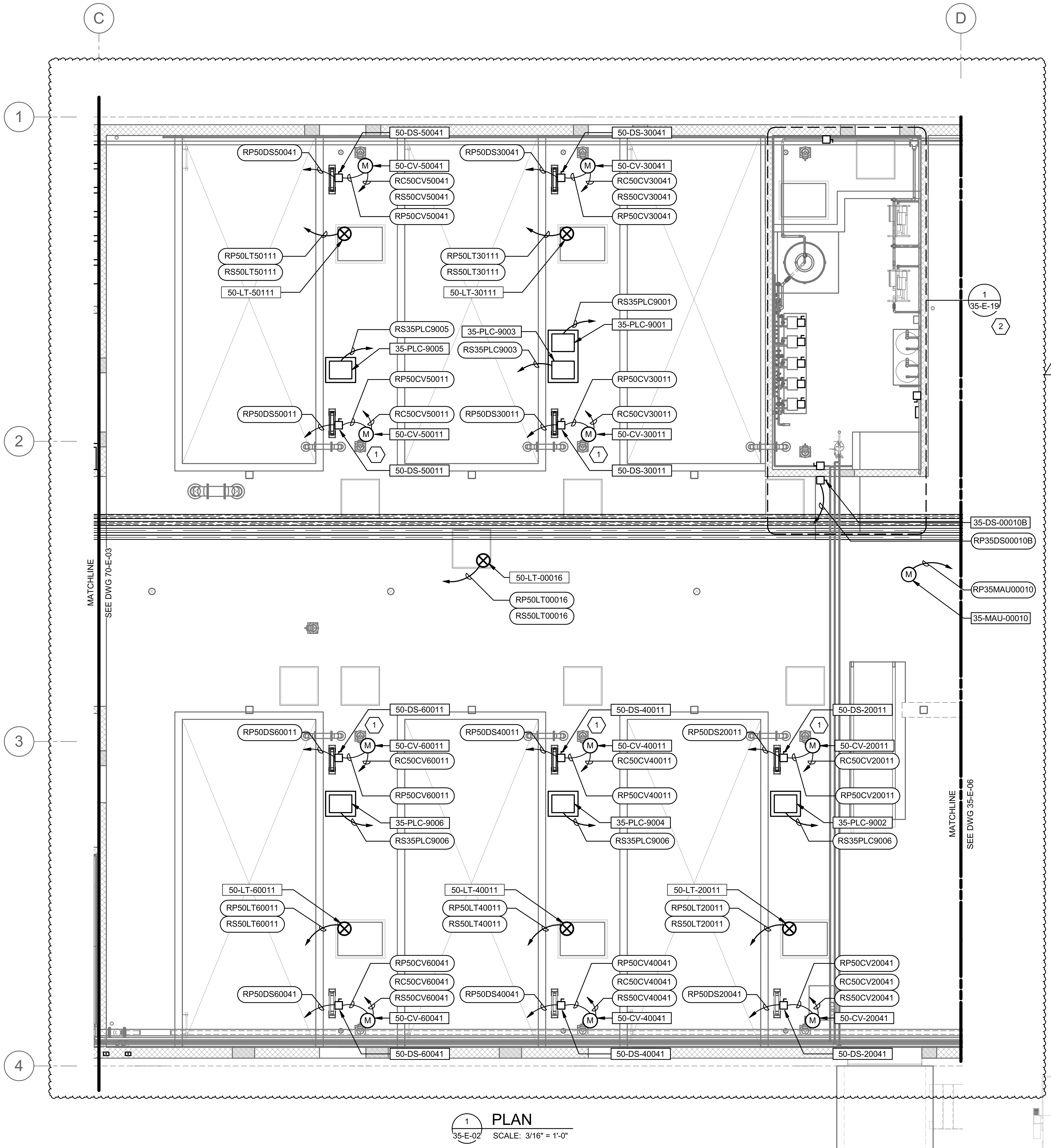
TREATMENT - FILTERS
LOWER LVL ELECTRICAL PLAN

90% GMP

Brown AND Caldwell

DRAWING NO.
35-E-03

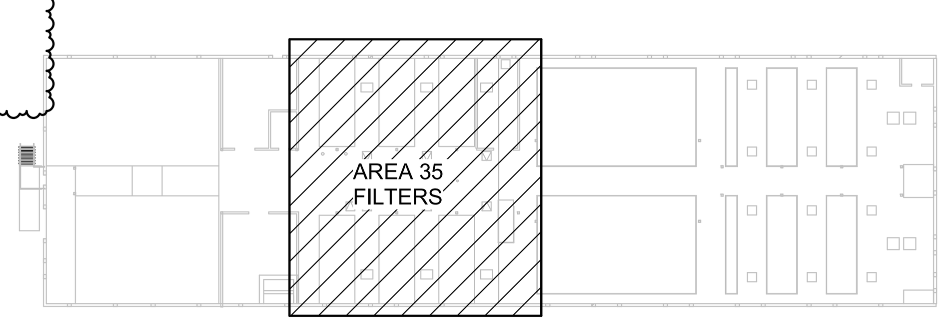
Plot Date: 6/26/2024 12:14:11 Path: BIM 360://153020 - City Creek WTP/153020-E-3570W21.rvt



1
35-E-02
PLAN
SCALE: 3/16" = 1'-0"

KEYNOTES:

1. VALVE LOCATED BELOW BASIN DECK. PENETRATE AND EMBED CONDUIT IN SLAB DECK TO ROUTE FROM VALVE TO VALVE ACTUATOR.
2. VALVES AND ASSOCIATED EQUIPMENT FOR FILTER 1 SHOWN ON ENLARGED PLAN (DRAWING 35-E-19) WITH POLYMER FEED EQUIPMENT.



KEY PLAN

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS
1	06/27/24	REVISED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

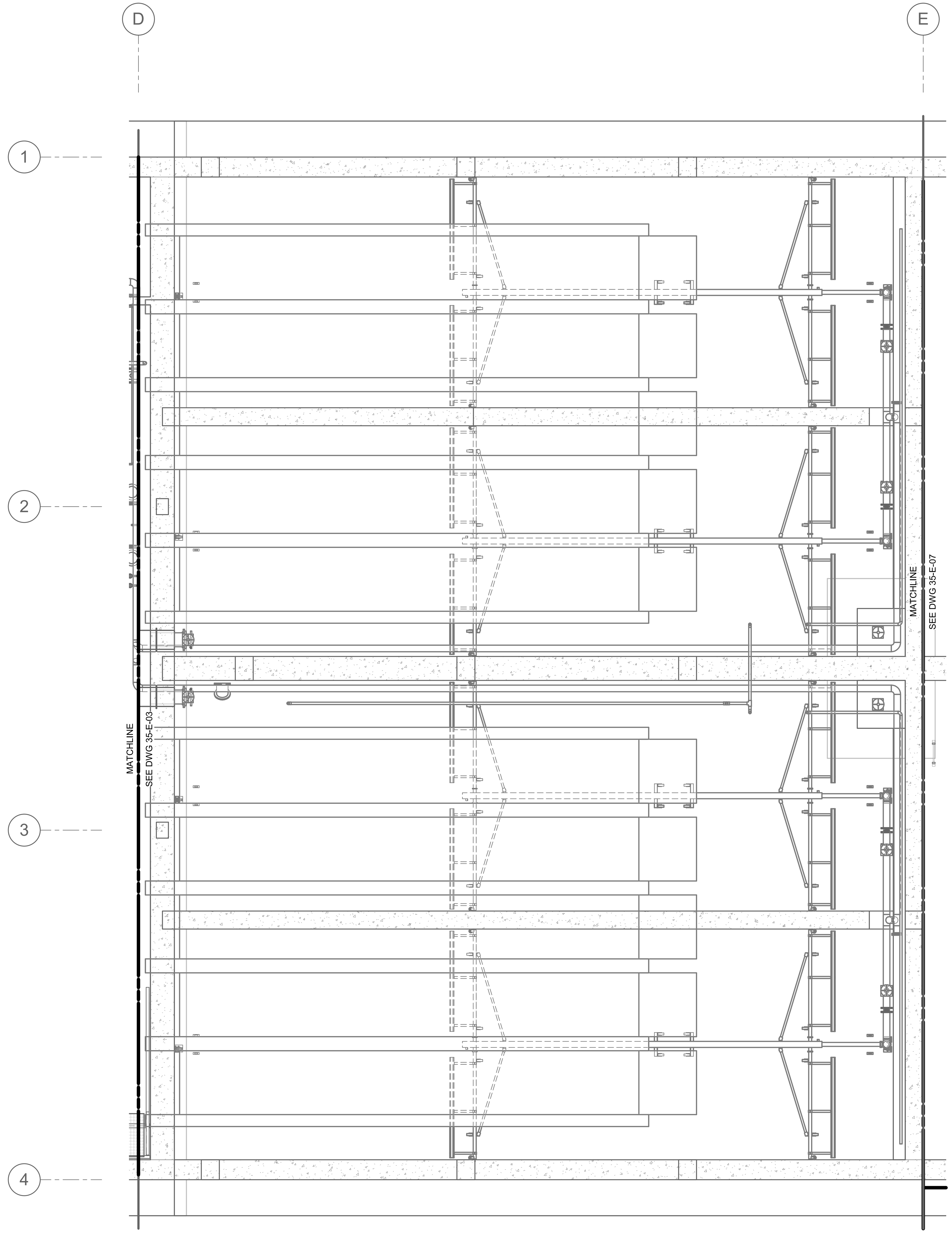
TREATMENT – FILTERS
UPPER LVL ELECTRICAL PLAN

90% GMP

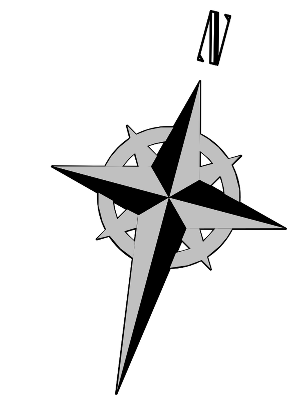
Brown AND Caldwell

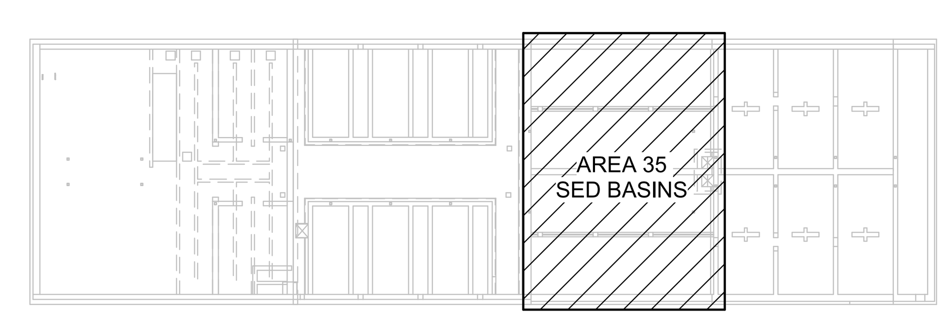
DRAWING NO.
35-E-04

Plot Date: 6/26/2024 12:14:17 Path: BIM 360://153020 – City Creek WTP/153020-E-3570V21.rvt



1 PLAN
35-E-01
SCALE: 3/16" = 1'-0"





KEY PLAN

Brown AND Caldwell

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

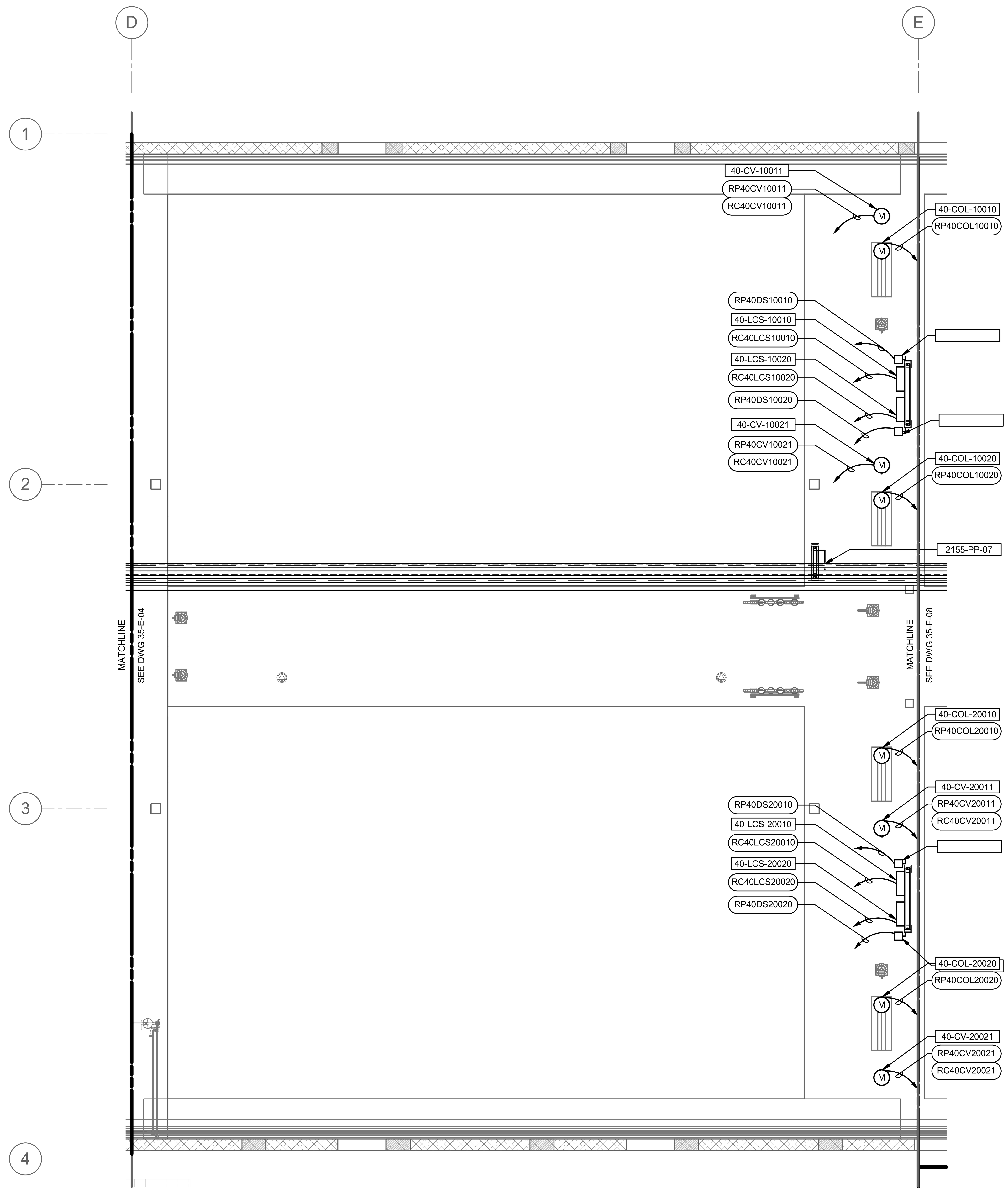
SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

TREATMENT - SED BASINS
LOWER LVL ELECTRICAL PLAN

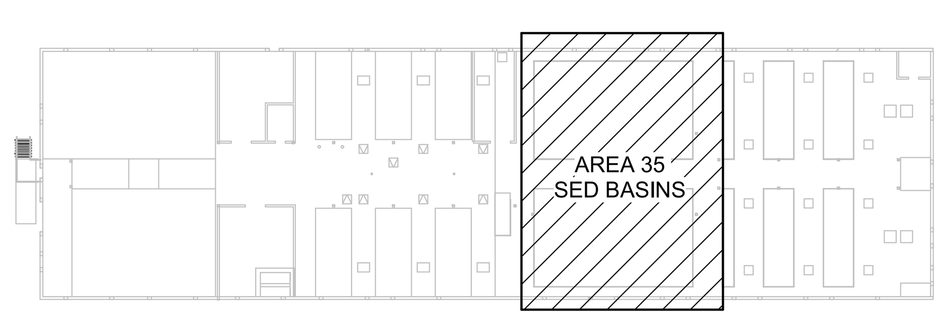
90% GMP

DRAWING NO.
35-E-05

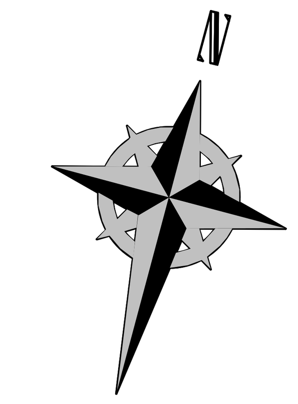
Plot Date:6/12/2024 3:54:53 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1 PLAN
35-E-02 SCALE: 3/16" = 1'-0"



KEY PLAN



Brown AND Caldwell

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES BRIC PACKAGE

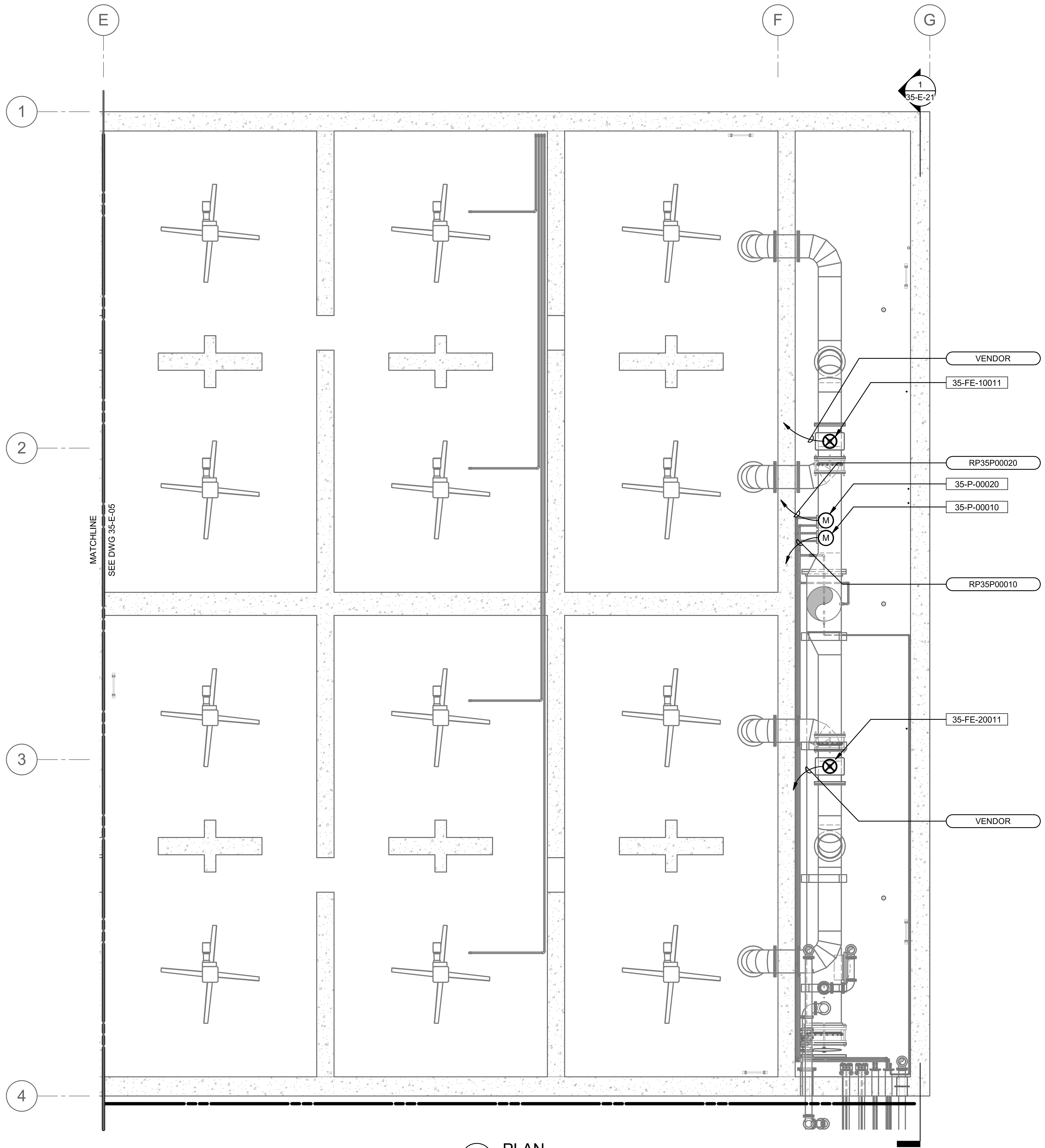
TREATMENT - SED BASINS UPPER LVL ELECTRICAL PLAN

90% GMP

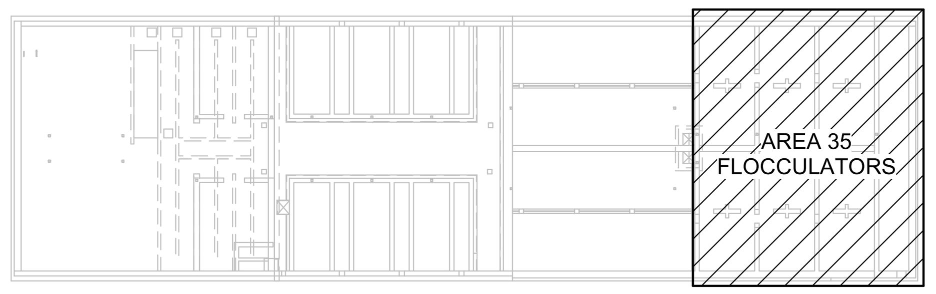
DRAWING NO.

35-E-06

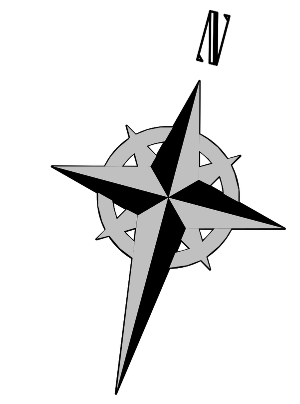
Plot Date:6/12/2024 3:54:54 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1
35-E-01
PLAN
SCALE: 3/16" = 1'-0"



KEY PLAN



SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:	REVISIONS	MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

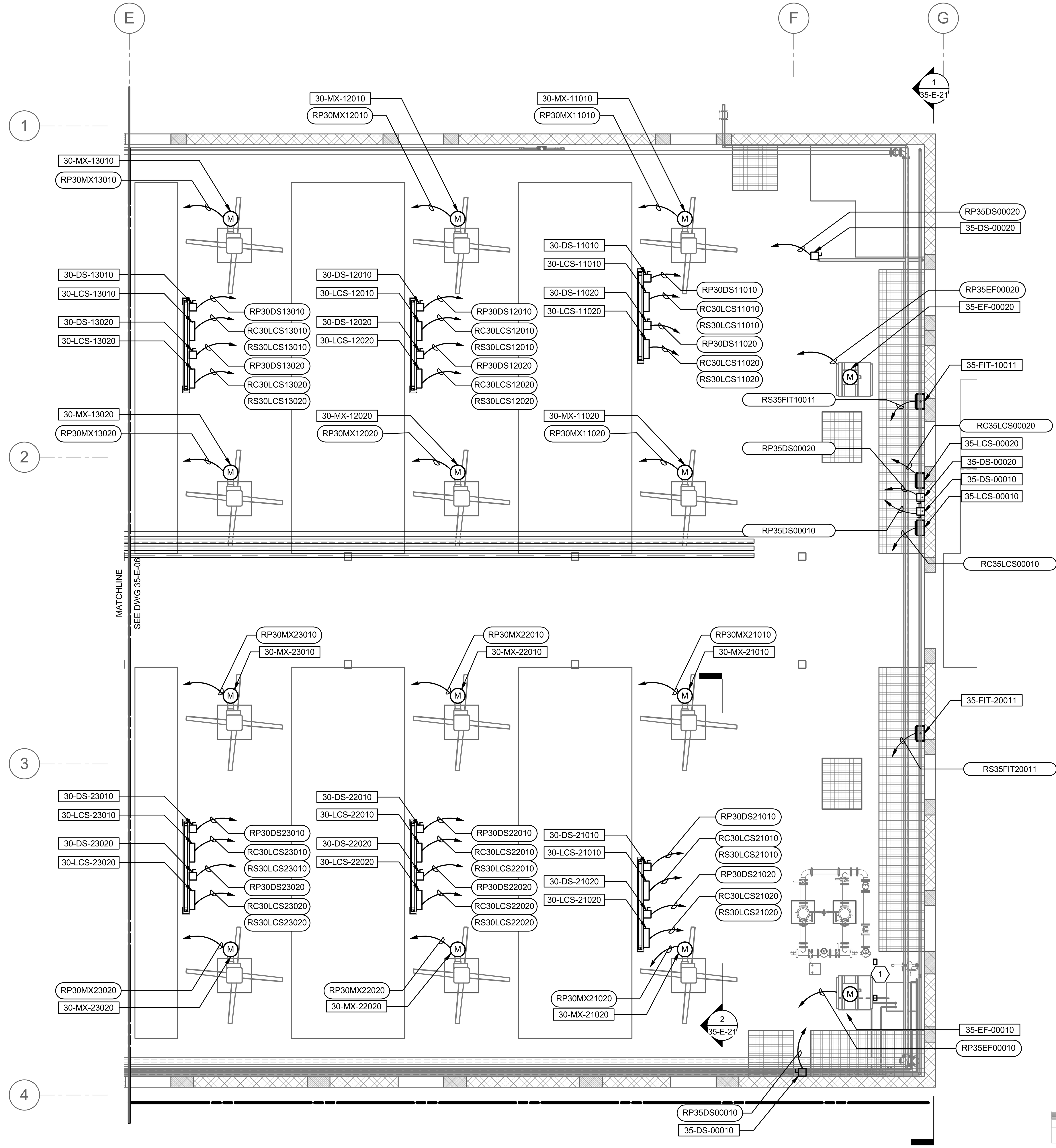
TREATMENT - FLOC BASINS LOWER LVL ELECTRICAL PLAN

90% GMP

Brown AND Caldwell

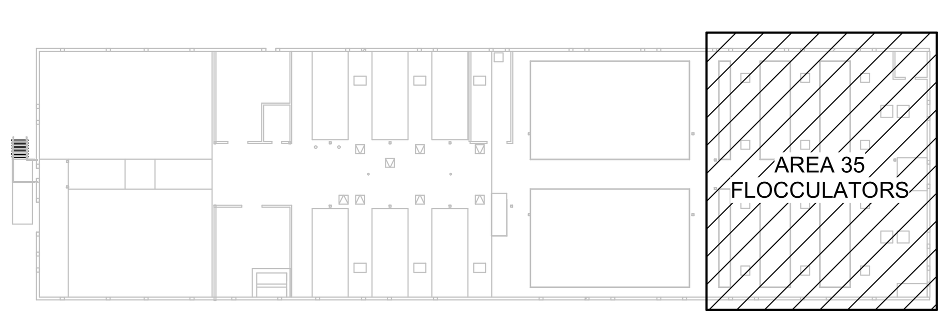
DRAWING NO.
35-E-07

Plot Date:6/12/2024 3:54:57 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt

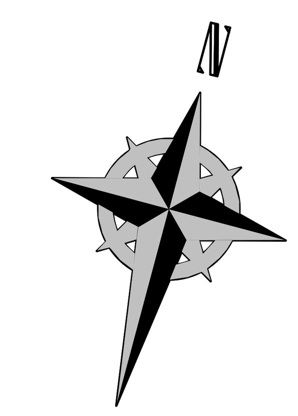


1
35-E-02

PLAN
SCALE: 3/16" = 1'-0"



KEY PLAN



KEYNOTES:

1 SECTION 1 RACEWAY LAYOUT IS TYPICAL FOR FLOCCULATION BASIN MOTORS
30-MX-11010
30-MX-11020
30-MX-12010
30-MX-12020
30-MX-13010
30-MX-13020
30-MX-22010
30-MX-22020
30-MX-23010
30-MX-23020

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

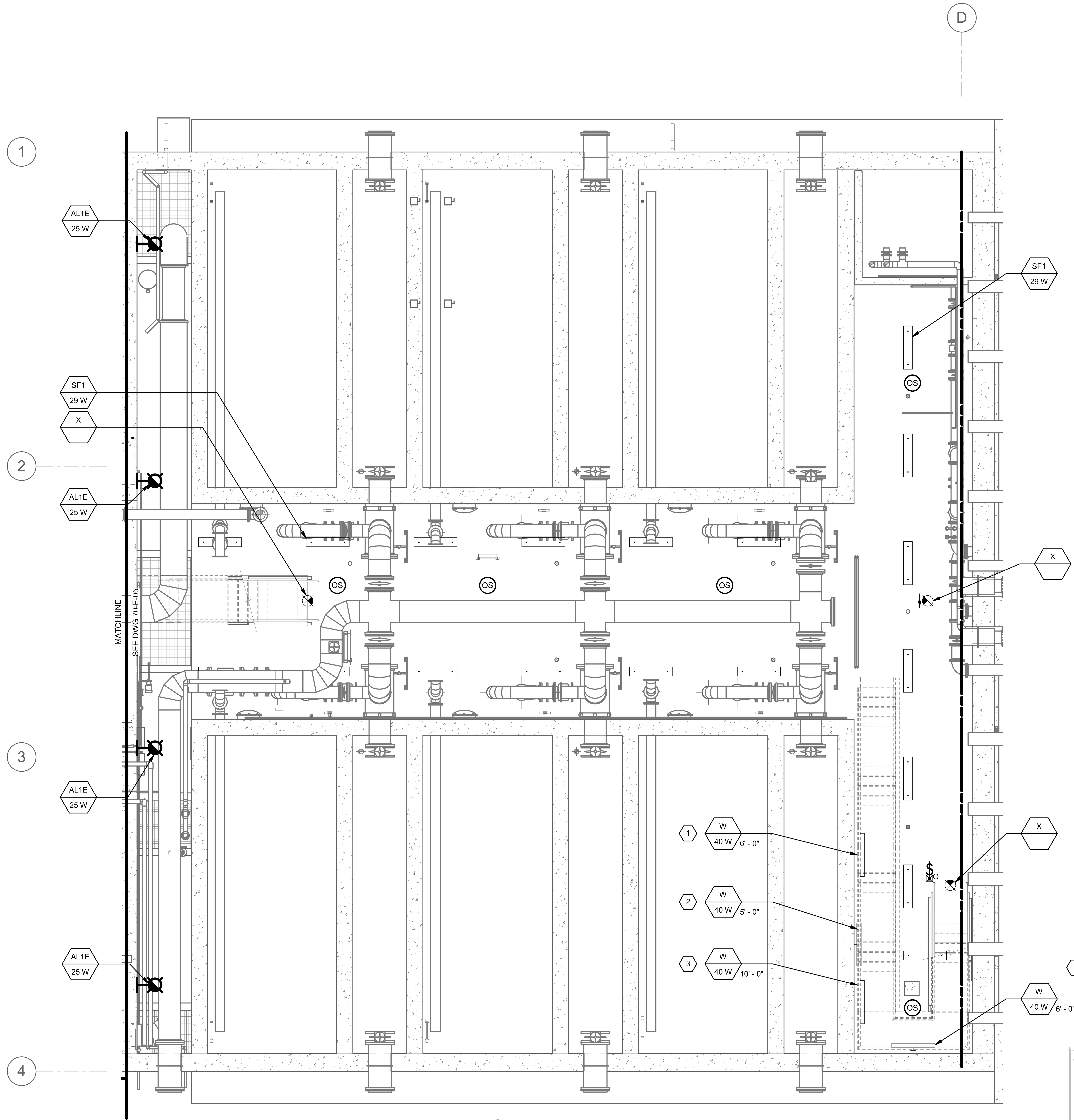
TREATMENT - FLOC BASINS
UPPER LVL ELECTRICAL PLAN

90% GMP

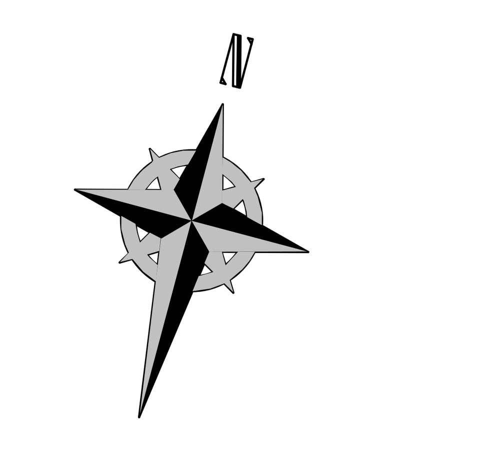
Brown AND Caldwell

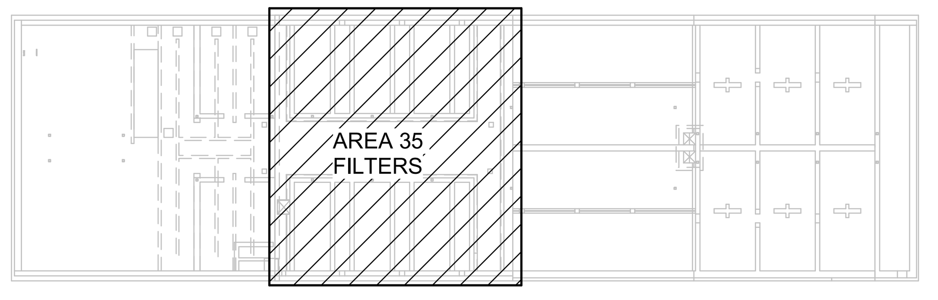
DRAWING NO.
35-E-08

Plot Date:6/12/2024 3:55:11 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1 PLAN
35-E-01 SCALE: 3/16" = 1'-0"





KEY PLAN

KEYNOTES:

1. LUMINAIRE HEIGHT MEASURED FROM STAIR B UPPER LANDING.
2. LUMINAIRE HEIGHT MEASURED FROM FINISHED FLOOR.
3. LUMINAIRE HEIGHT MEASURED FROM STAIR B LOWER LANDING.

Brown AND Caldwell

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: N.ANDERSON
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

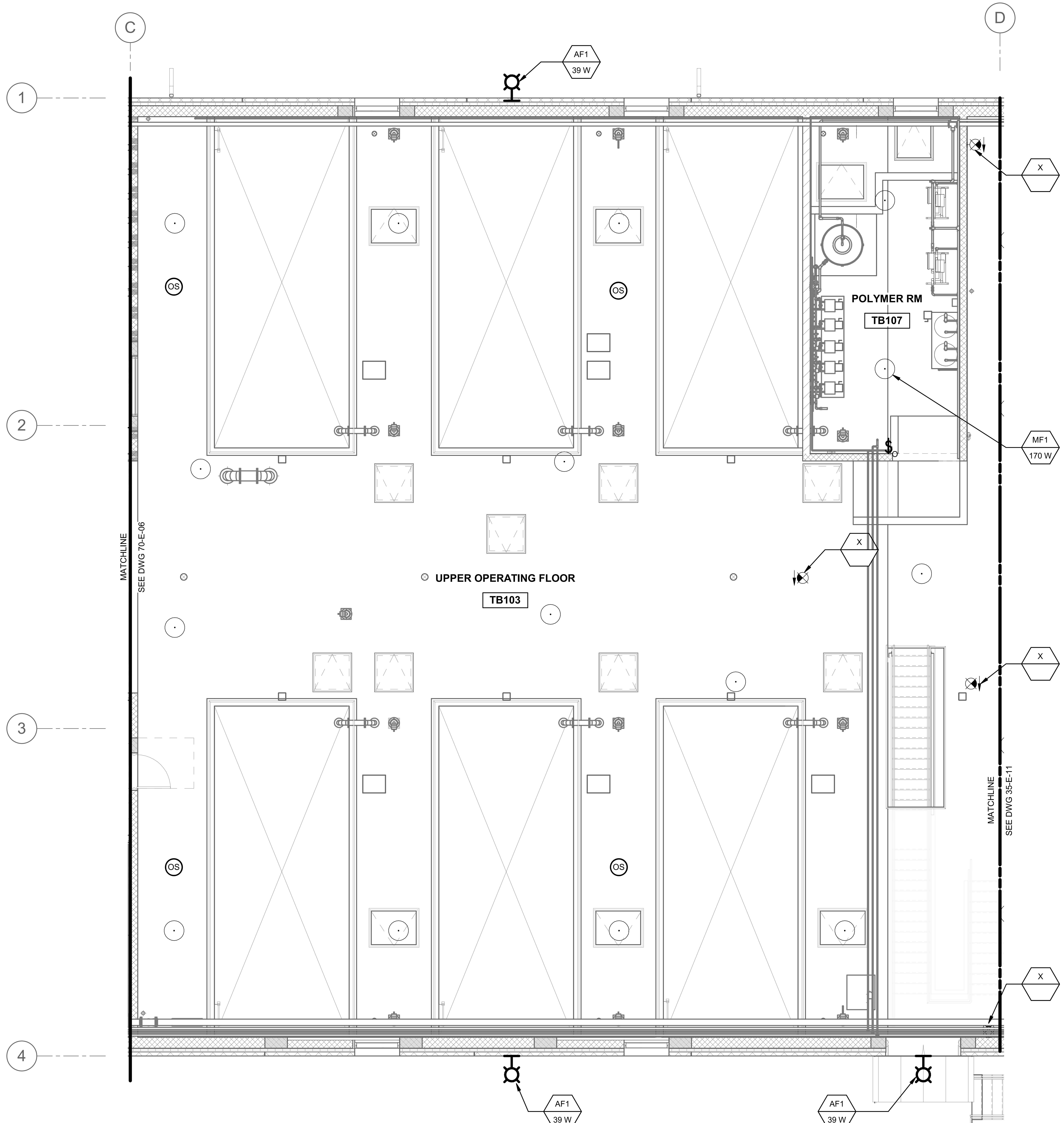
SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

TREATMENT - FILTERS
LOWER LVL LGT & RCP PLAN

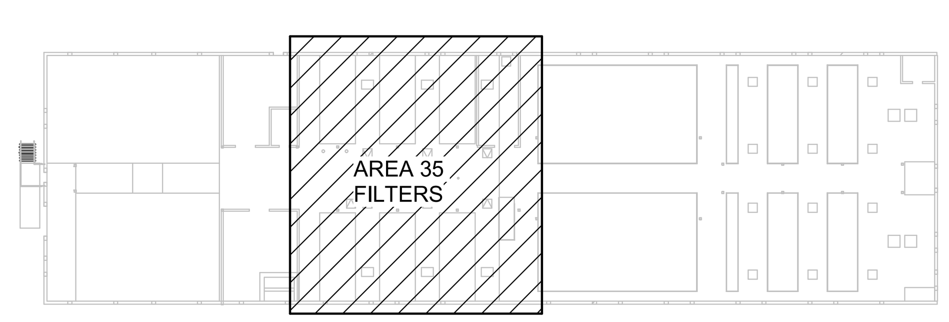
90% GMP

DRAWING NO.
35-E-09

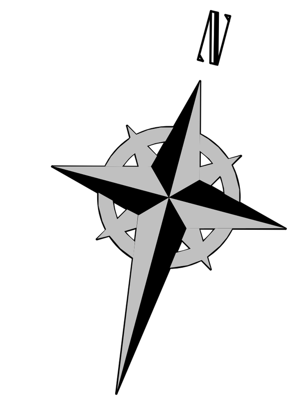
Plot Date:6/12/2024 3:55:14 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1 PLAN
35-E-02 SCALE: 3/16" = 1'-0"



KEY PLAN



SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: N.ANDERSON
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

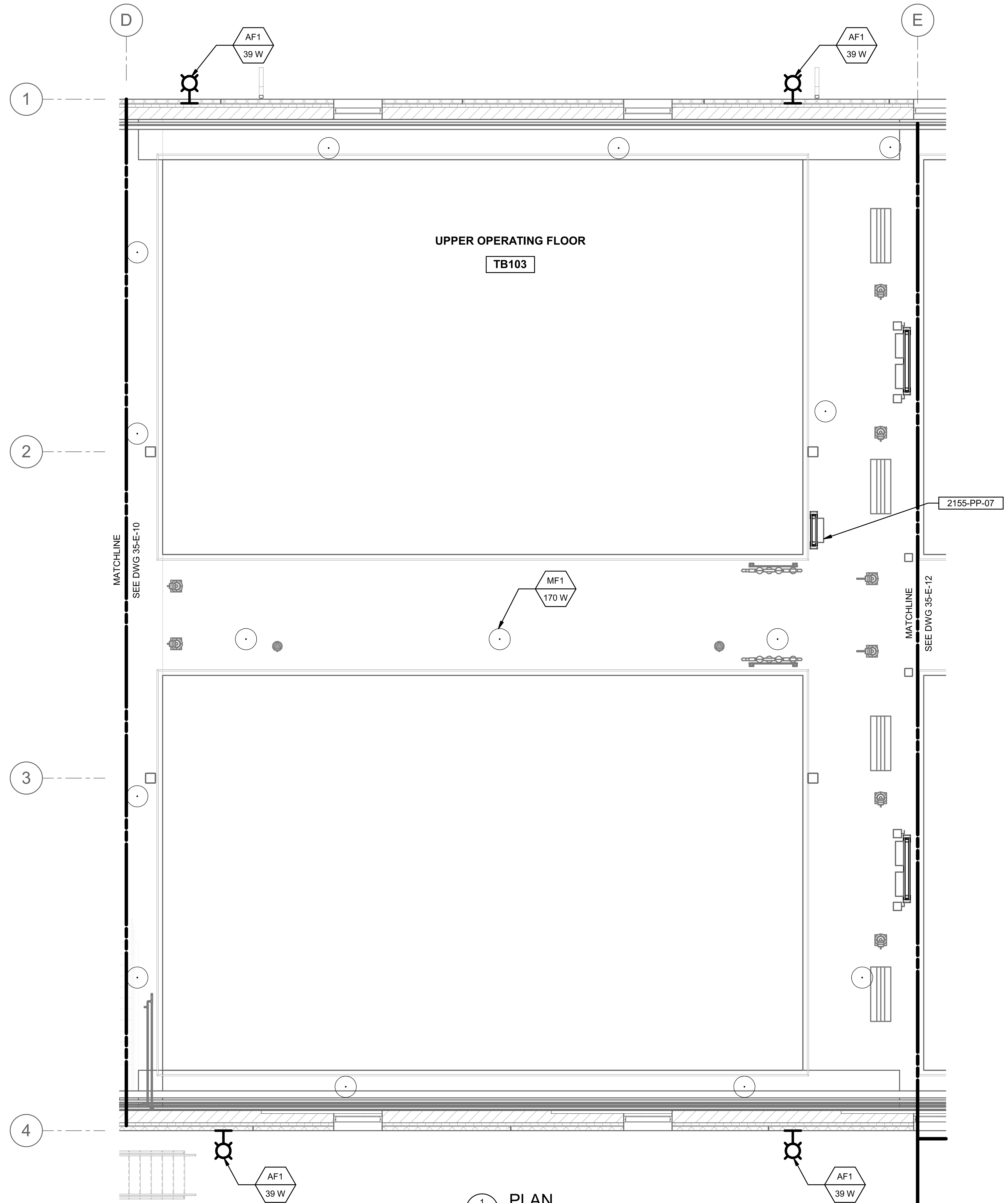
TREATMENT – FILTERS
UPPER LVL LGT & RCP PLAN

90% GMP

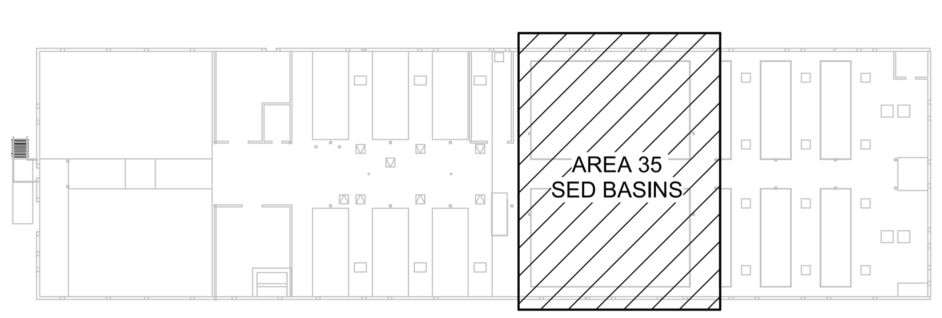
Brown AND Caldwell

DRAWING NO.
35-E-10

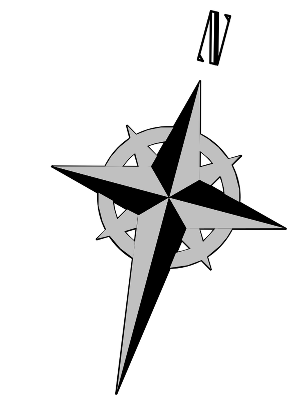
Plot Date:6/12/2024 3:55:18 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1 PLAN
35-E-02 SCALE: 3/16" = 1'-0"



KEY PLAN



SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: N.ANDERSON
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

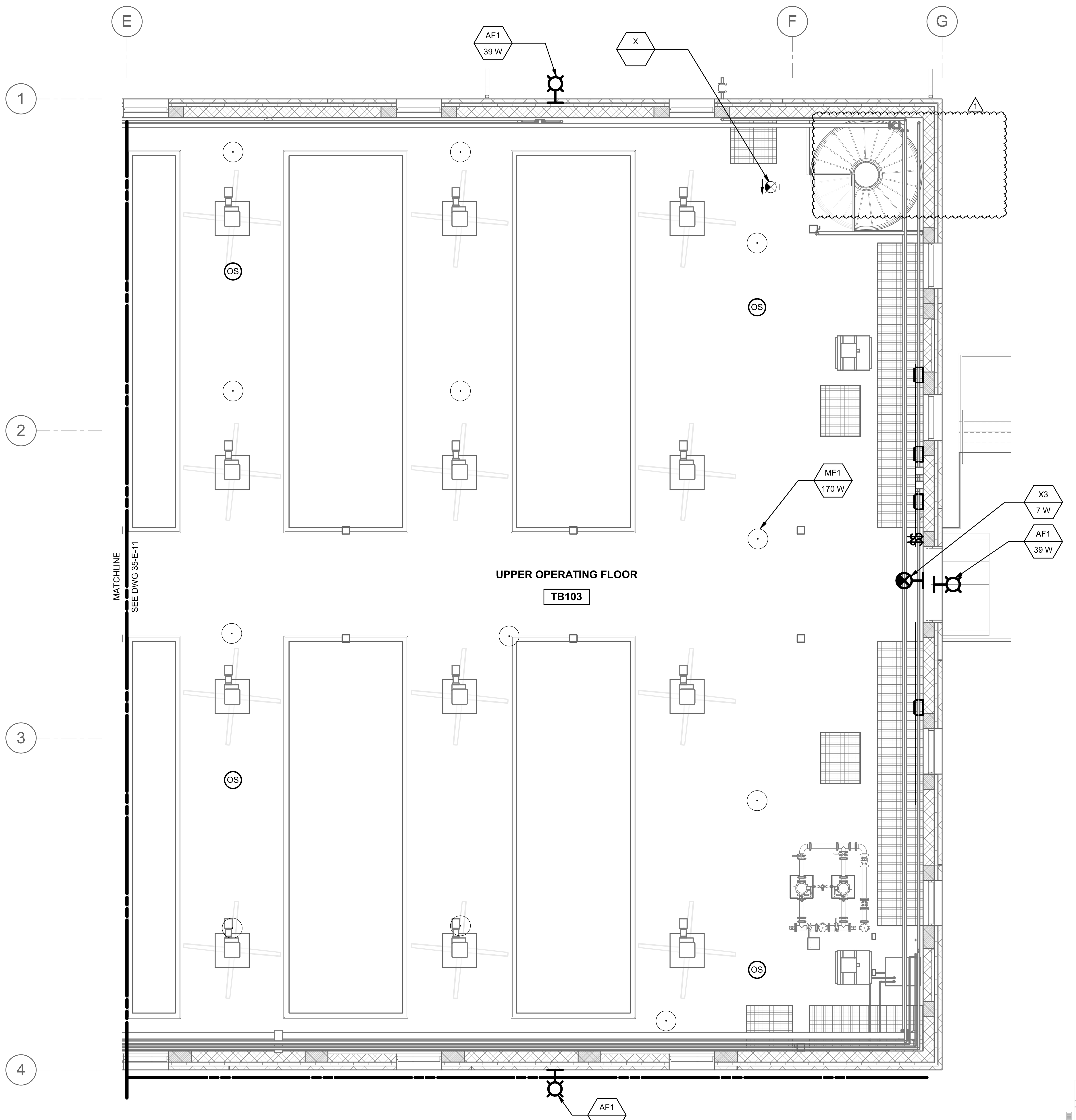
TREATMENT - SED BASINS UPPER LVL LGT & RCP PLAN

Brown AND Caldwell

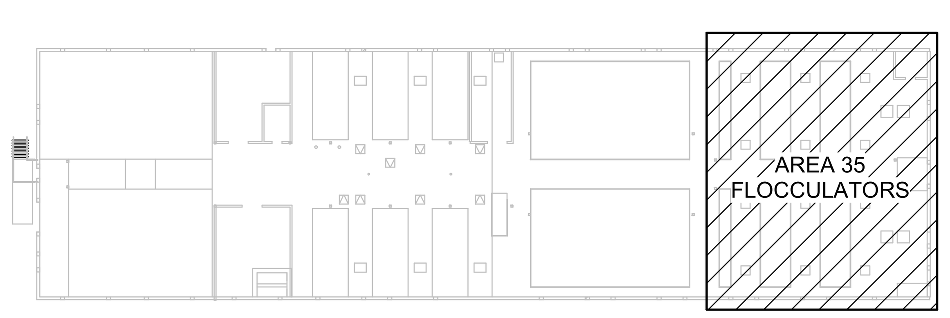
90% GMP

DRAWING NO.
35-E-11

Plot Date:6/12/2024 3:55:19 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1 PLAN
35-E-02 SCALE: 3/16" = 1'-0"



KEY PLAN

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: N.ANDERSON
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS
1	06/27/24	REVISED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

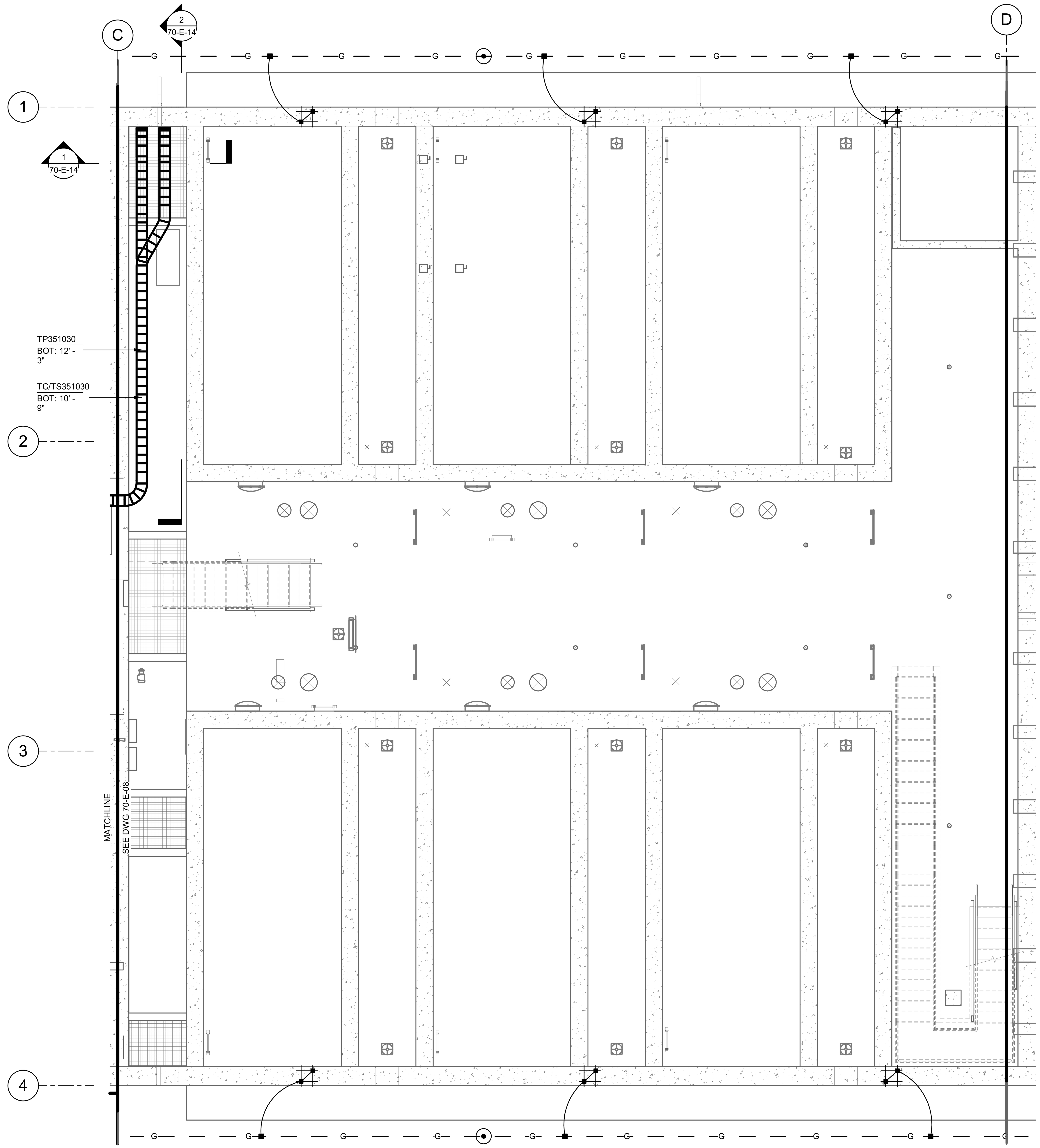
TREATMENT – FLOC BASINS UPPER LVL LGT & RCP PLAN

90% GMP

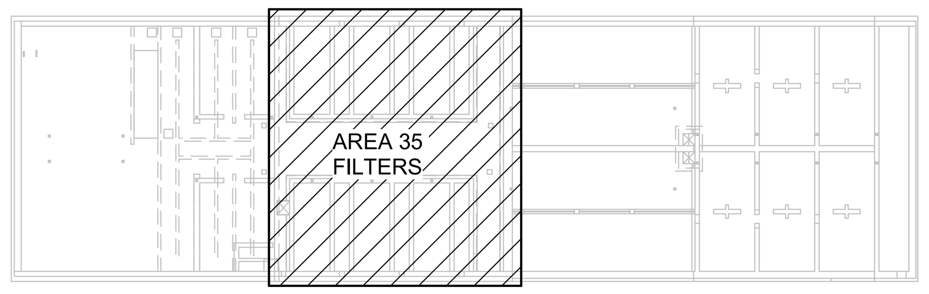
Brown AND Caldwell

DRAWING NO.
35-E-12

Plot Date: 6/26/2024 12:14:24 PM Path: BIM 360://153020 – City Creek WTP/153020-E-3570V21.rvt



1 PLAN
35-E-01 SCALE: 3/16" = 1'-0"



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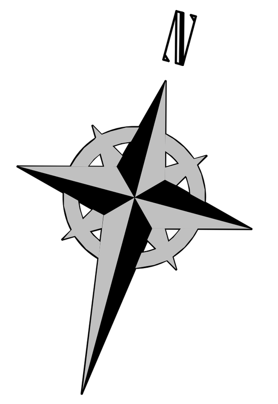


SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:	REVISIONS	MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

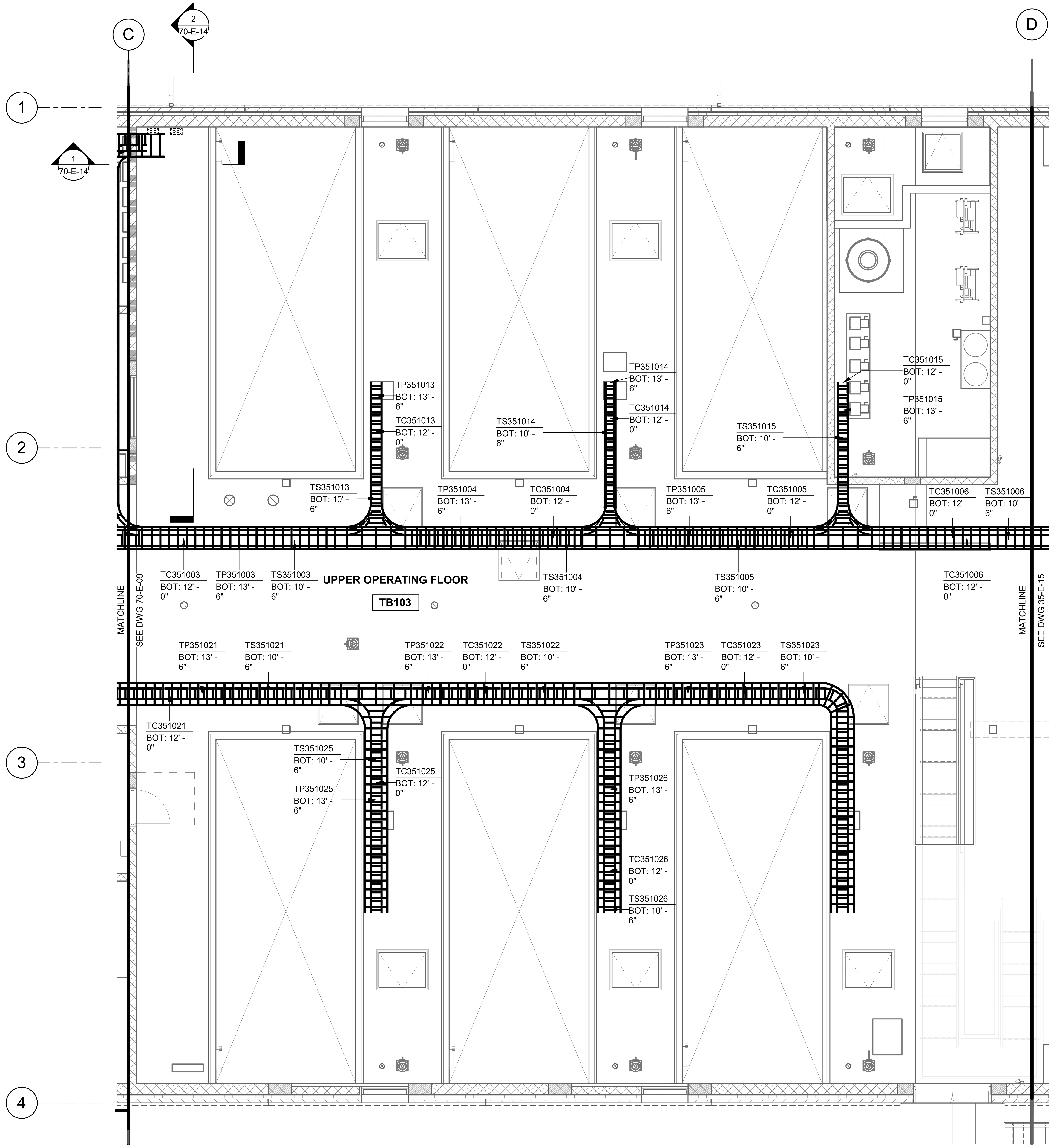
TREATMENT - FILTERS
LOWER LVL TRY & GRD PLAN

90% GMP

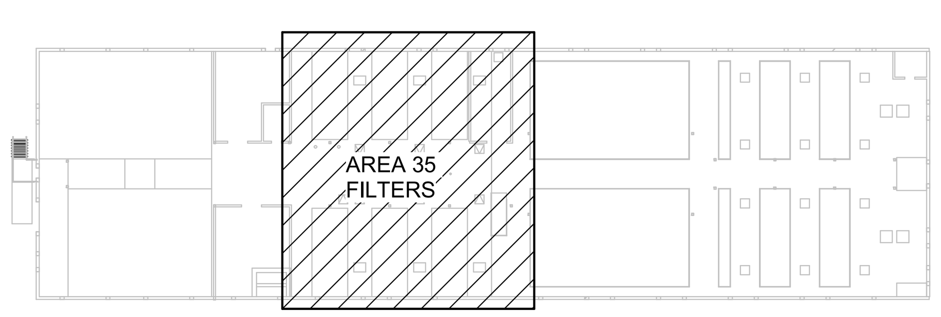
Brown AND Caldwell

DRAWING NO.
35-E-13

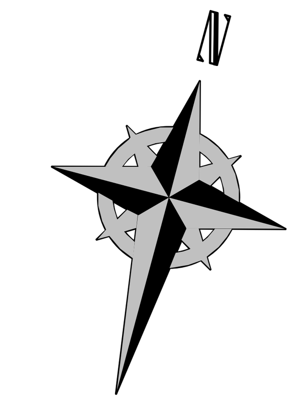
Plot Date:6/12/2024 3:55:26 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1
35-E-02
PLAN
SCALE: 3/16" = 1'-0"



KEY PLAN



SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

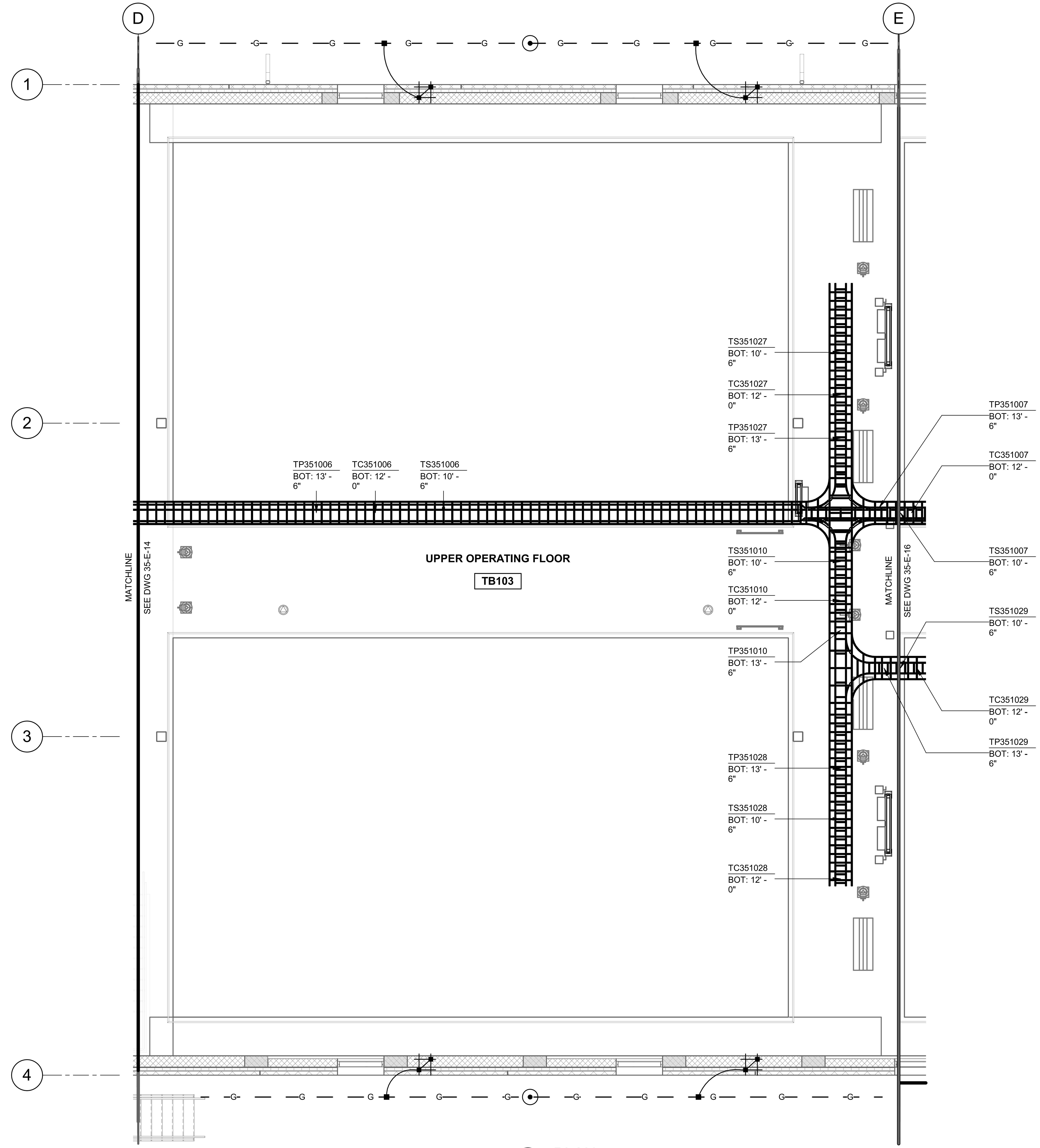
TREATMENT - FILTERS
UPPER LVL TRY & GRD PLAN

90% GMP

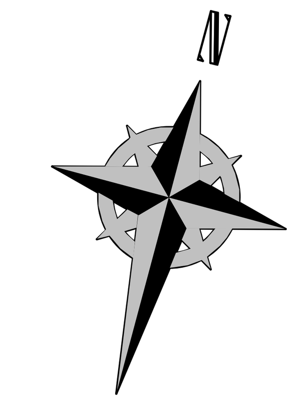
Brown AND Caldwell

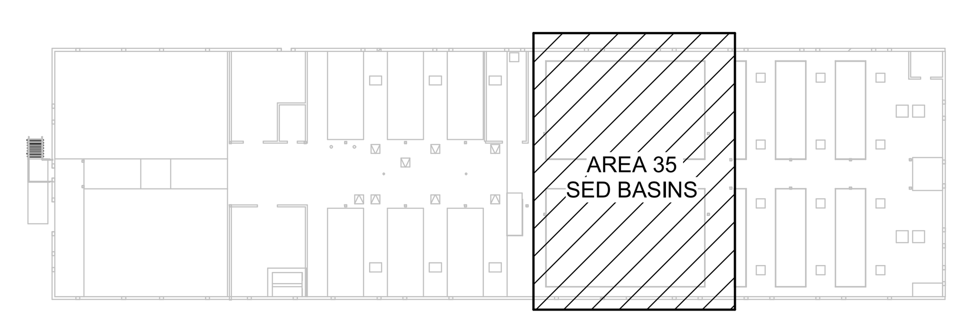
DRAWING NO.
35-E-14

Plot Date:6/12/2024 3:55:30 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1 PLAN
35-E-02 SCALE: 3/16" = 1'-0"





KEY PLAN

Brown AND Caldwell

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

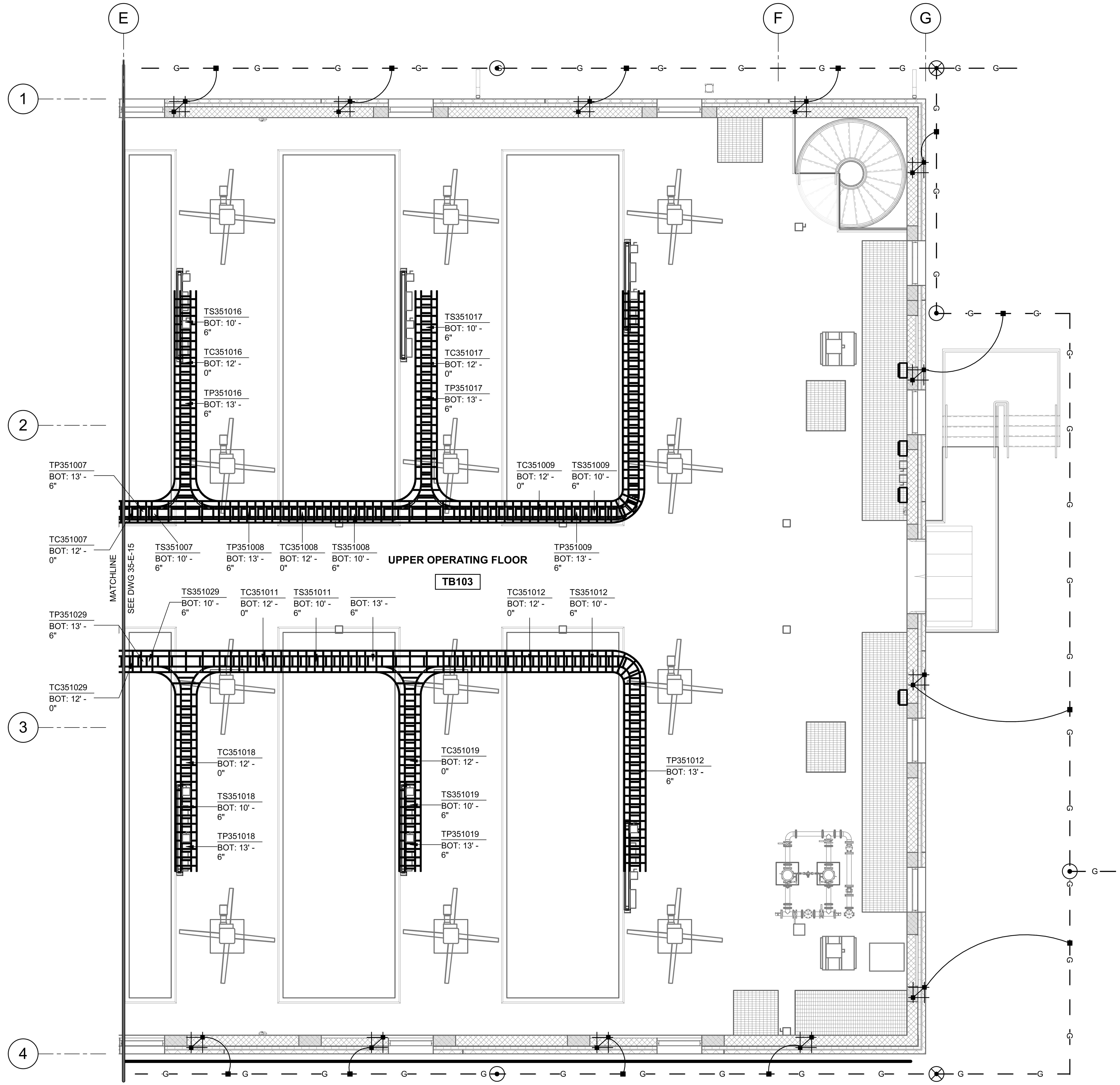
SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

TREATMENT - SED BASINS
UPPER LVL TRY & GRD PLAN

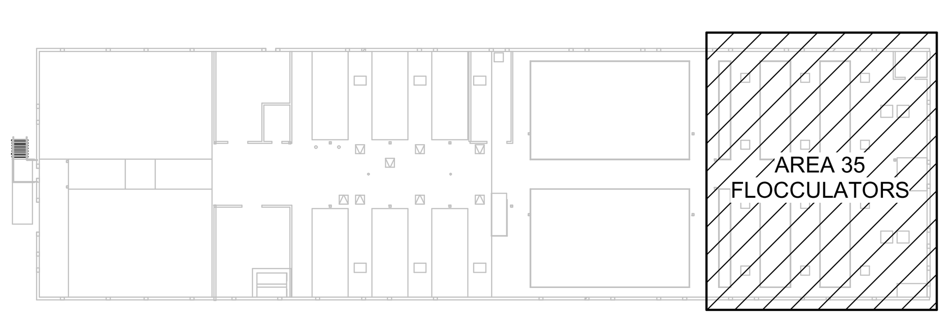
90% GMP

DRAWING NO.
35-E-15

Plot Date:6/12/2024 3:55:32 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1
35-E-02
PLAN
SCALE: 3/16" = 1'-0"



KEY PLAN

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

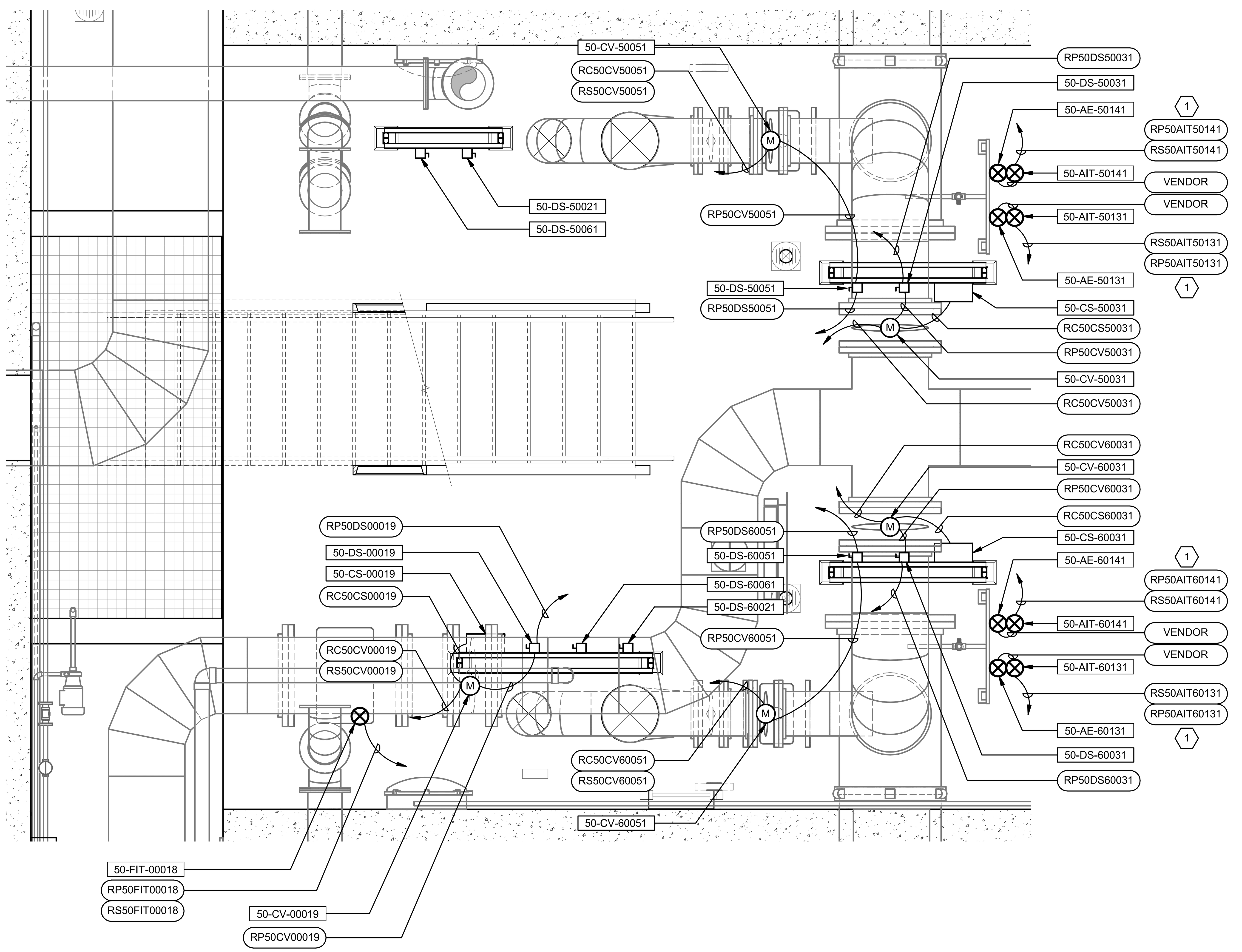
TREATMENT - FLOC BASINS
UPPER LVL TRY & GRD PLAN

90% GMP

Brown AND Caldwell

DRAWING NO.
35-E-16

Plot Date:6/12/2024 3:55:49 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1 ENLARGED PLAN
35-E-03 SCALE: 1/2" = 1'-0"

N

KEYNOTES:

1 ANALYZER TRANSMITTER TO BE POWERED FROM DEDICATED RECEPTACLE MOUNTED ON BACK OF SAMPLE PANEL. REFERENCE CABLE AND PANEL SCHEDULES FOR CIRCUIT ROUTING AND POWER SOURCING.

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS
1	06/27/24	REVISED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

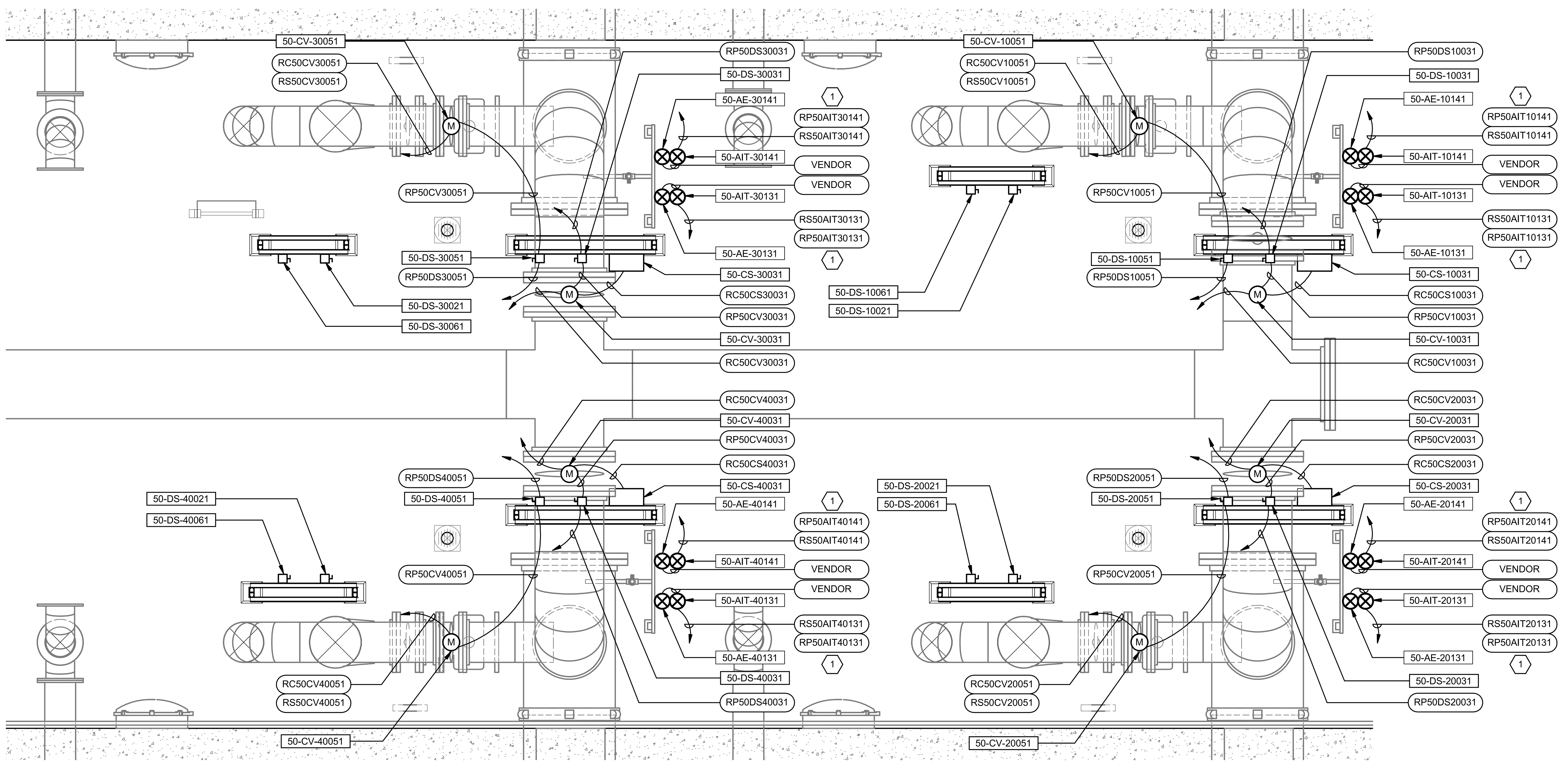
TREATMENT - ENLARGED PLANS 1

90% GMP

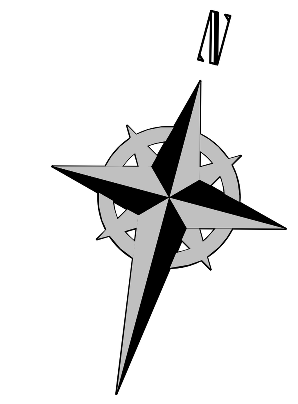
Brown AND Caldwell

DRAWING NO.
35-E-17

Plot Date: 6/26/2024 12:14:26 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1
35-E-03
ENLARGED PLAN
SCALE: 1/2" = 1'-0"



KEYNOTES:

1 ANALYZER TRANSMITTER TO BE POWERED FROM DEDICATED RECEPTACLE MOUNTED ON BACK OF SAMPLE PANEL. REFERENCE CABLE AND PANEL SCHEDULES FOR CIRCUIT ROUTING AND POWER SOURCING.

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: N.ANDERSON
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS
1	06/27/24	REVISED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

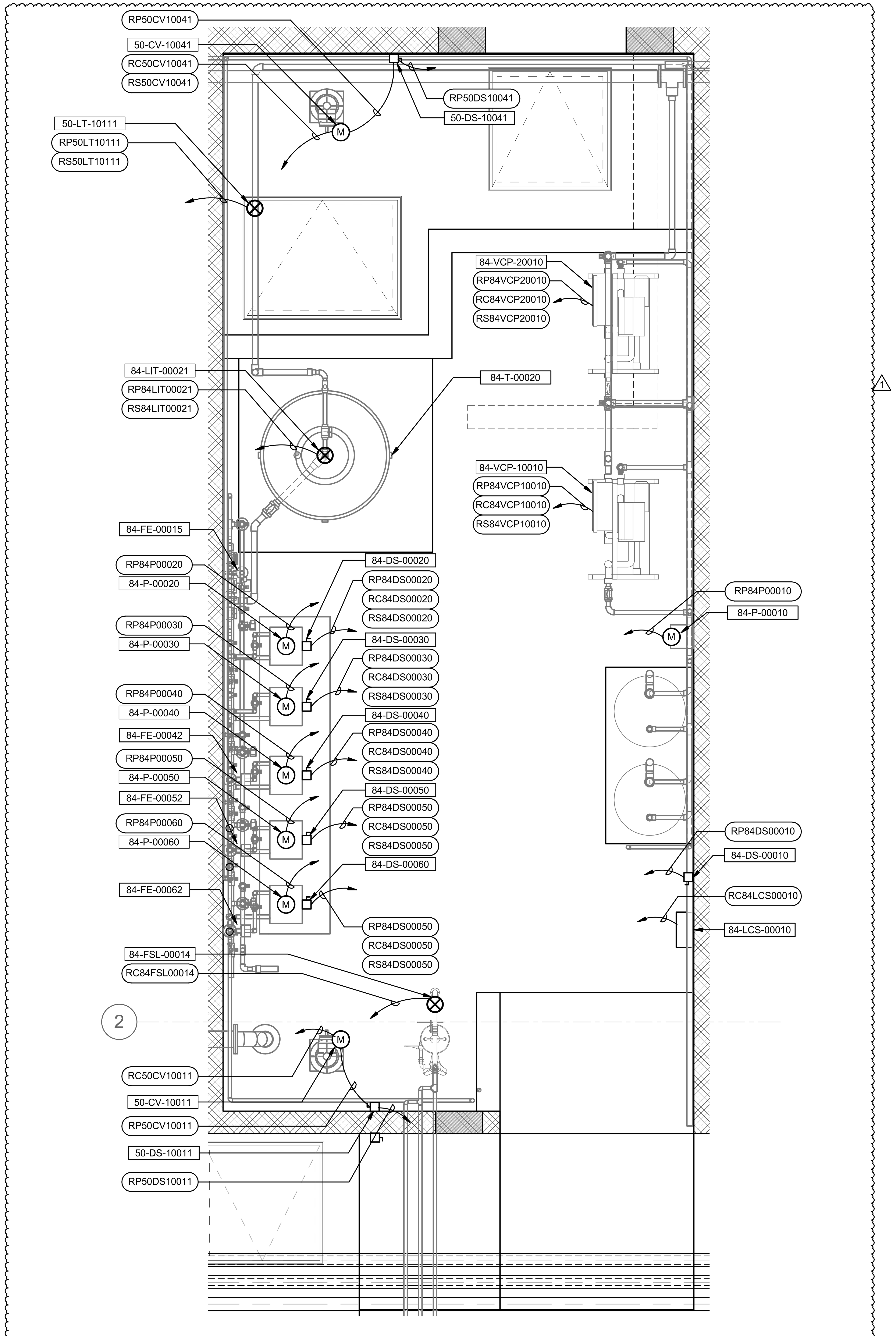
TREATMENT - ENLARGED PLANS 2

90% GMP

Brown AND Caldwell

DRAWING NO.
35-E-18

Plot Date: 6/26/2024 12:14:30 Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1 ENLARGED PLAN
35-E-04 SCALE: 1/2" = 1'-0"

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY:
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS
1	06/27/24	REVISED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

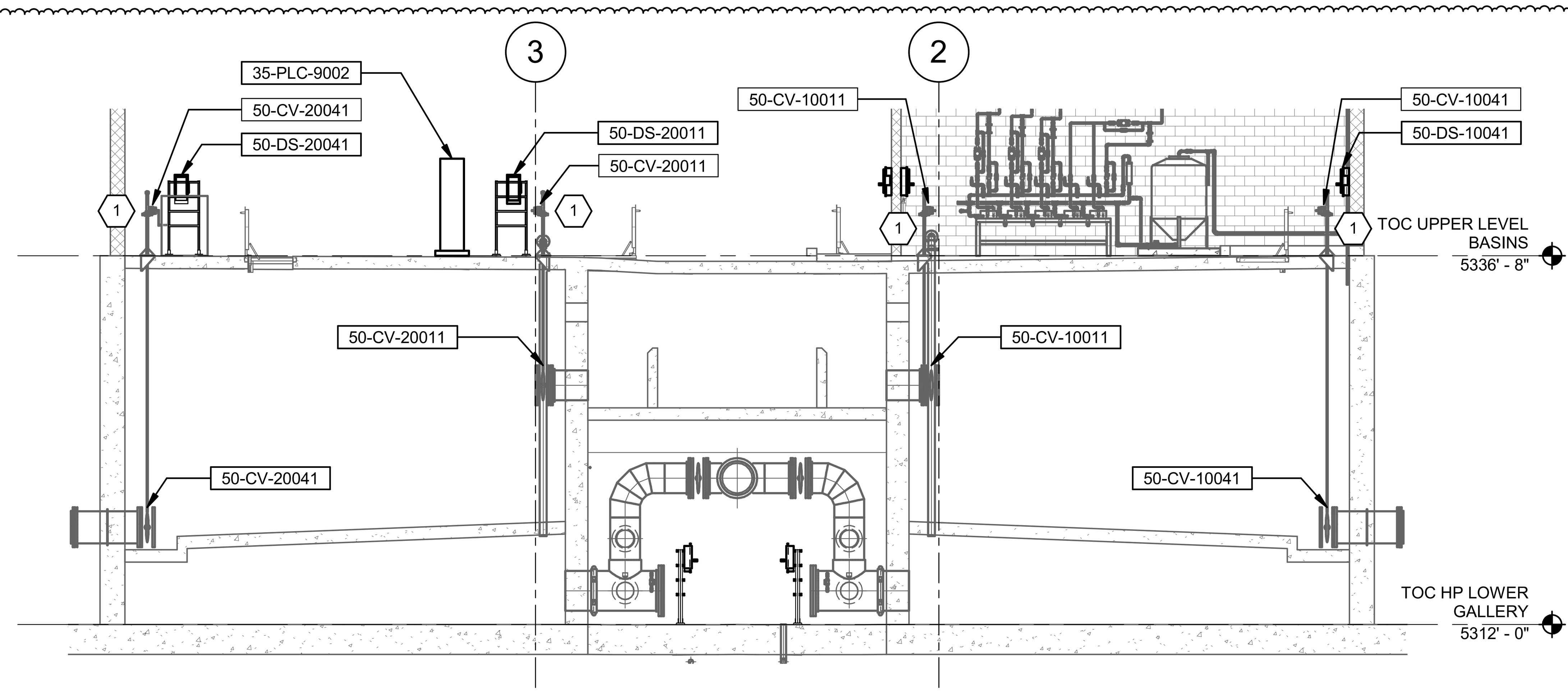
TREATMENT - ENLARGED PLANS 3

90% GMP

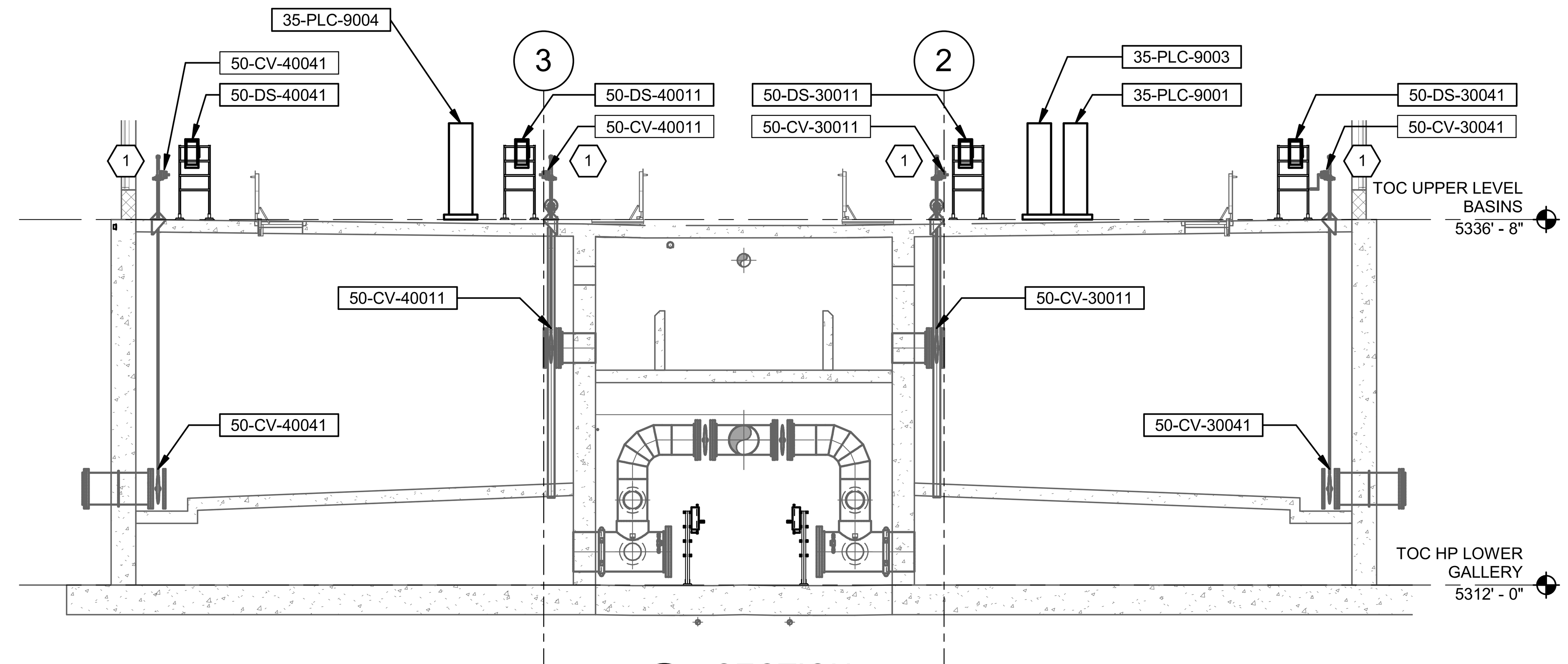
Brown AND Caldwell

DRAWING NO.
35-E-19

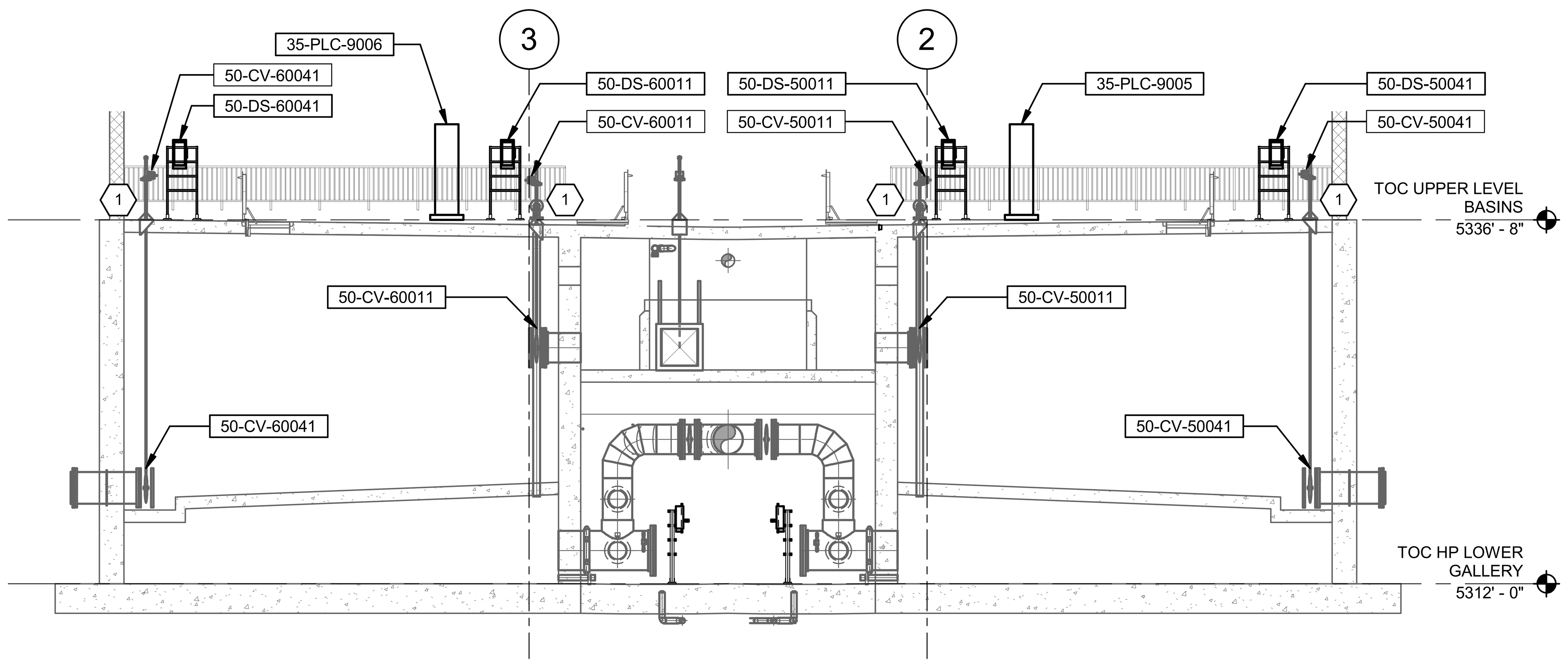
Plot Date: 6/26/2024 12:14:38 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1 35-E-03 SECTION
SCALE: 1/8" = 1'-0"



2 35-E-03 SECTION
SCALE: 1/8" = 1'-0"



3 35-E-03 SECTION
SCALE: 1/8" = 1'-0"

KEYNOTES:

1. LOCATION OF VALVE ACTUATOR. VALVE LOCATED BELOW BASIN DECK. PENETRATE AND EMBED CONDUIT IN SLAB DECK TO ROUTE FROM VALVE TO VALVE ACTUATOR.

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: N.ANDERSON
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS
1	06/27/24	REVISED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

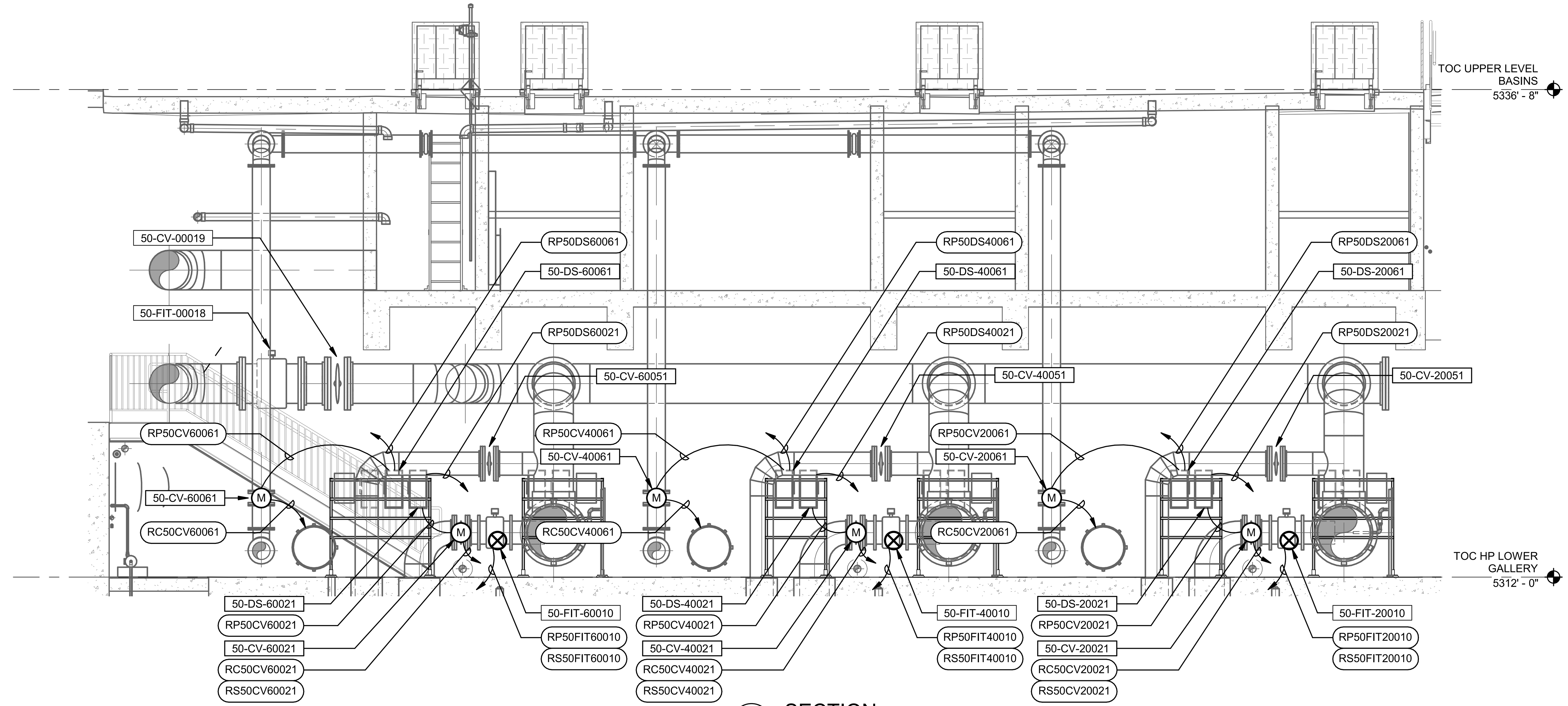
TREATMENT - SECTIONS 1

90% GMP

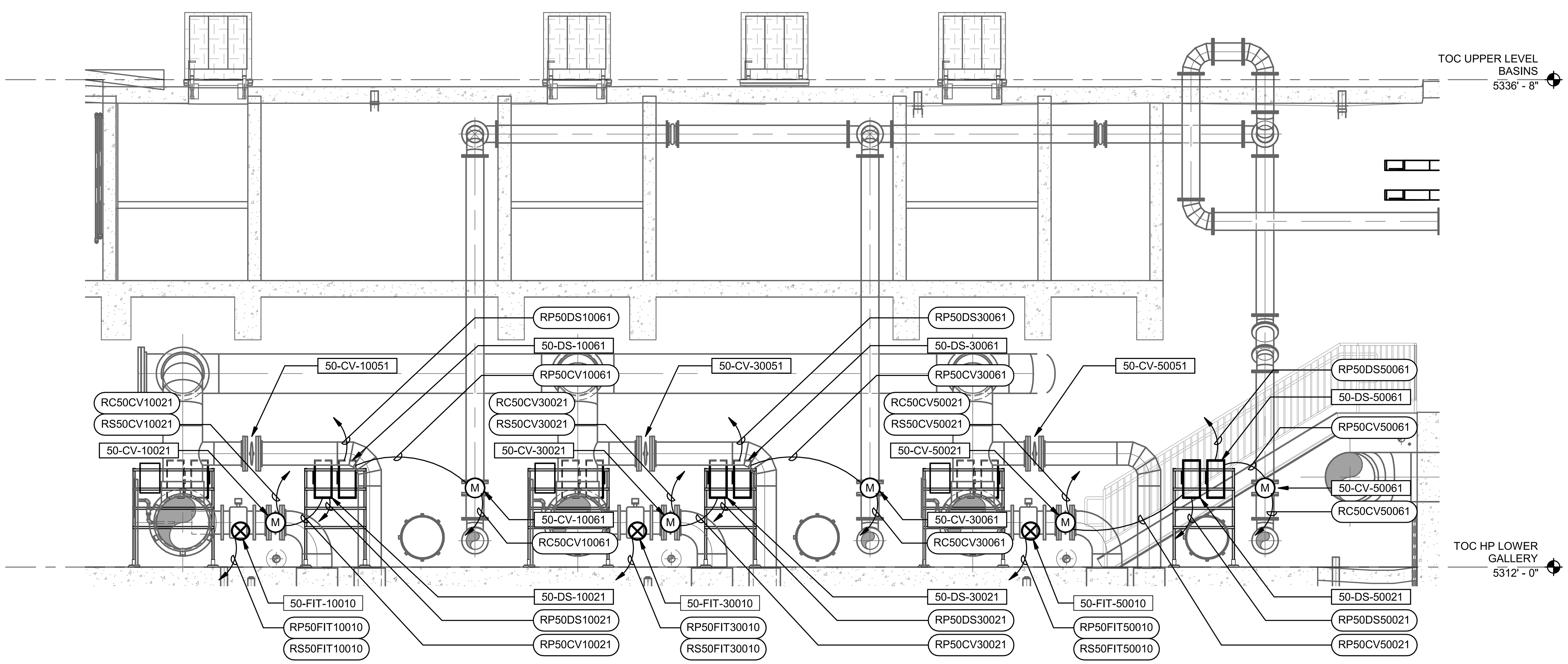
Brown AND Caldwell

DRAWING NO.
35-E-20

Plot Date: 6/26/2024 12:14:43 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570v21.rvt



1 SECTION
35-E-03 SCALE: 1/4" = 1'-0"



2 SECTION
35-E-03 SCALE: 1/4" = 1'-0"

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: N.ANDERSON
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS
1	06/27/24	REVISED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

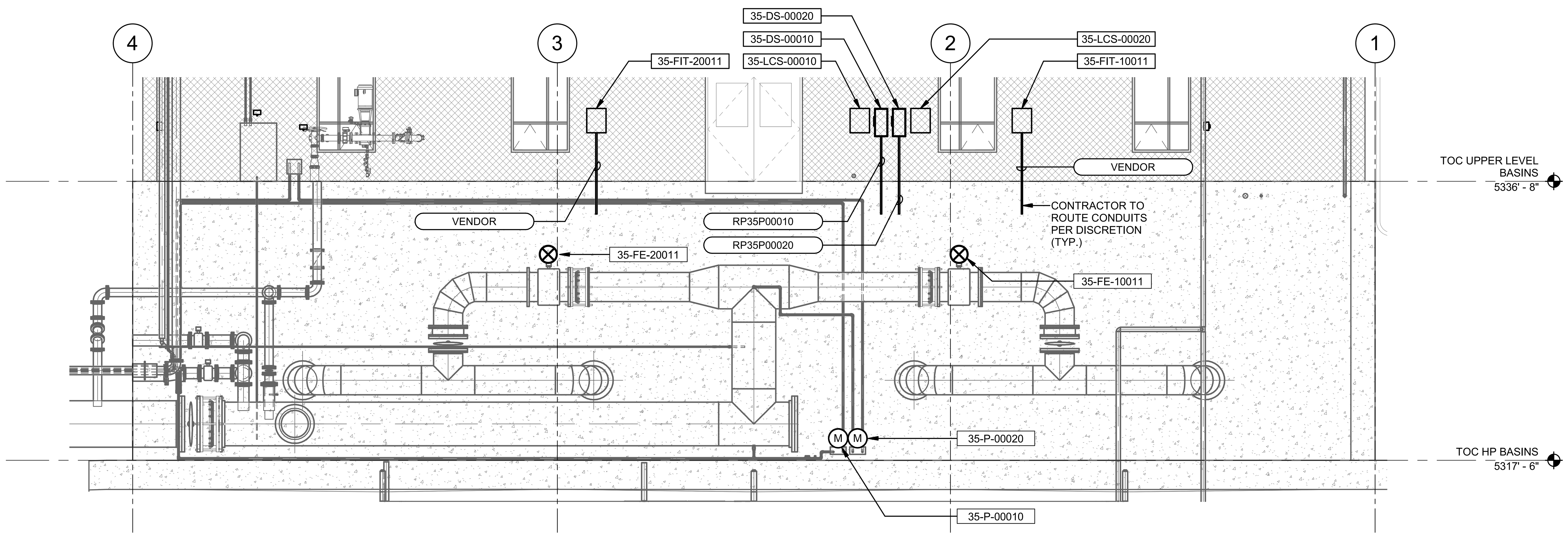
TREATMENT - SECTIONS 2

90% GMP

Brown AND Caldwell

DRAWING NO.
35-E-21

Plot Date: 6/26/2024 12:14:48 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



2 SECTION
35-E-07 SCALE: 3/16" = 1'-0"

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

TREATMENT – SECTIONS 3

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS
1	06/27/24	REVISED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: N.ANDERSON
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

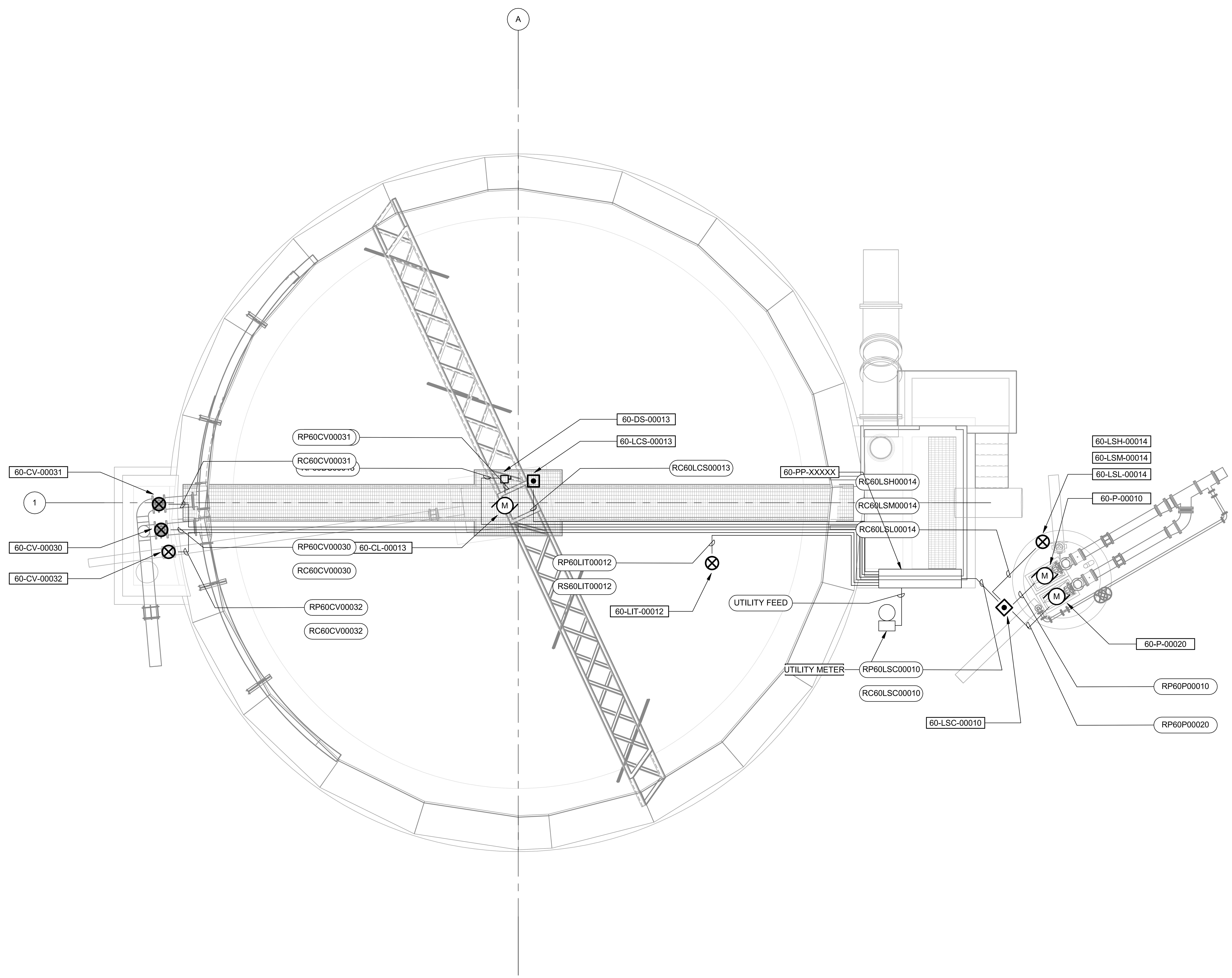
90% GMP

Brown AND Caldwell

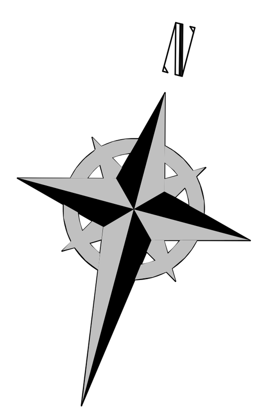
DRAWING NO.
35-E-22

Plot Date: 6/26/2024 12:15:04 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt

Plot Date:6/12/2024 4:21:06 PM Path: BIM 360://153020 - City Creek WTP/153020-E-60V21.rvt



PLAN
SCALE: 3/16" = 1'-0"



GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSION AND FITTINGS. CONTRACTOR TO PROVIDE ALL FITTINGS, WHETHER SHOWN OR NOT.

Brown AND Caldwell

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: G.ALVAREZ
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

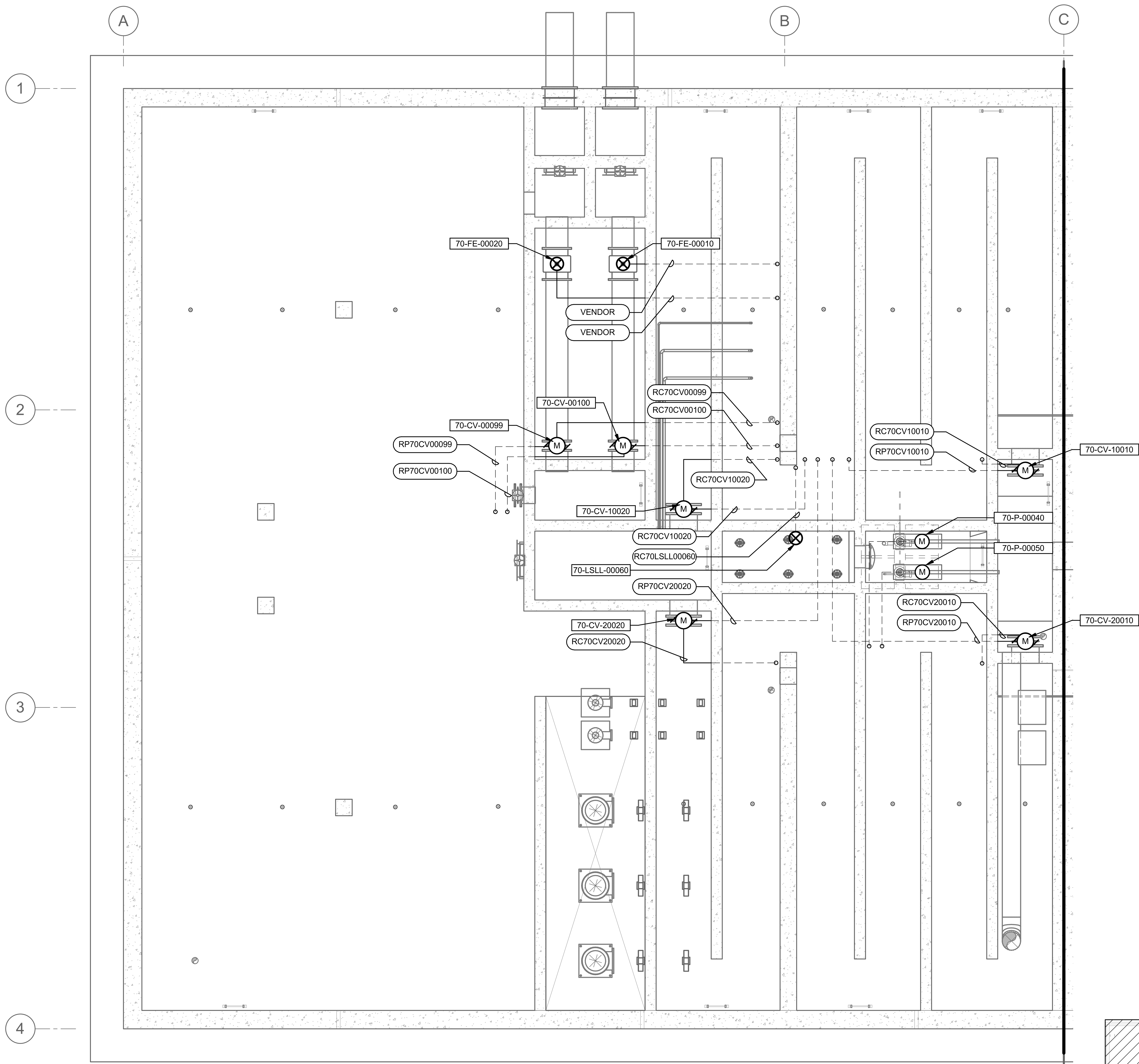
SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLARIFIER – ELECTRICAL PLAN

SALT LAKE CITY

90% GMP

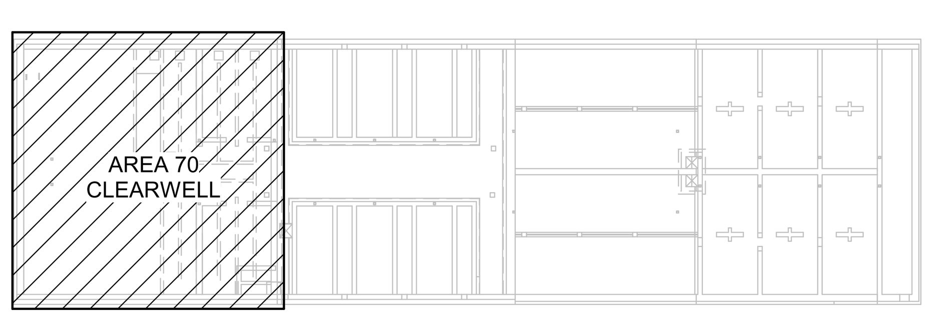
DRAWING NO.
60-E-01



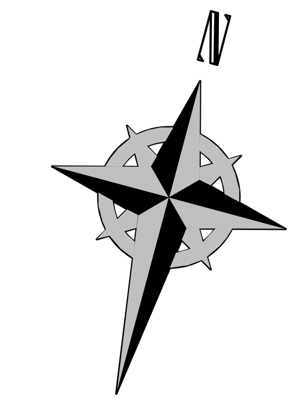
1
35-E-01

PLAN

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



KEY PLAN



SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE	REVISIONS	MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

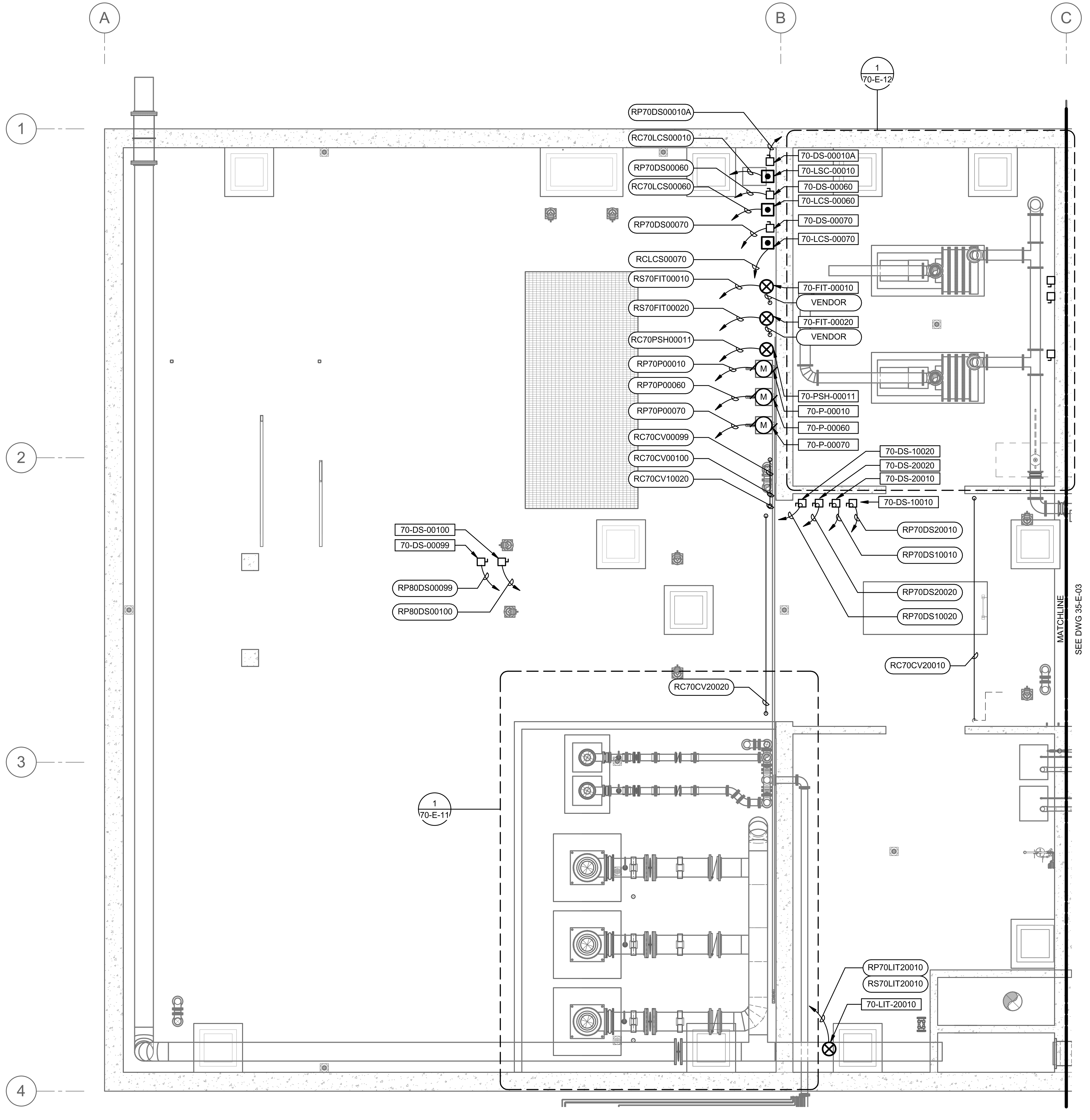
CLEARWELL - LOWER LVL
ELECTRICAL PLAN

90% GMP

DRAWING NO.

70-E-01

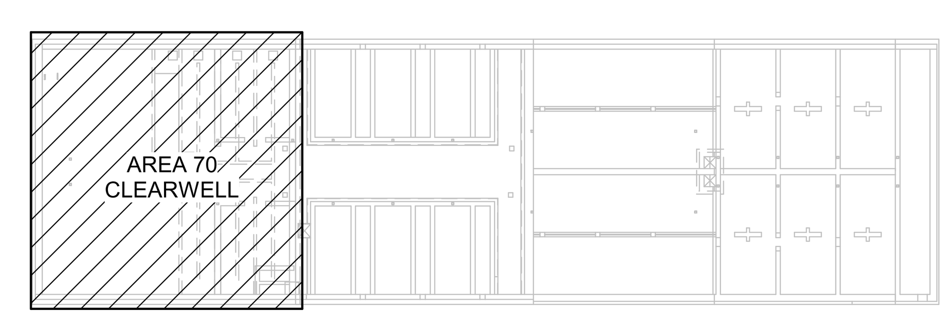
Plot Date:6/12/2024 3:58:32 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570W21.rvt



1
35-E-01

PLAN

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



KEY PLAN

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL - INTERMEDIATE LVL ELECTRICAL PLAN

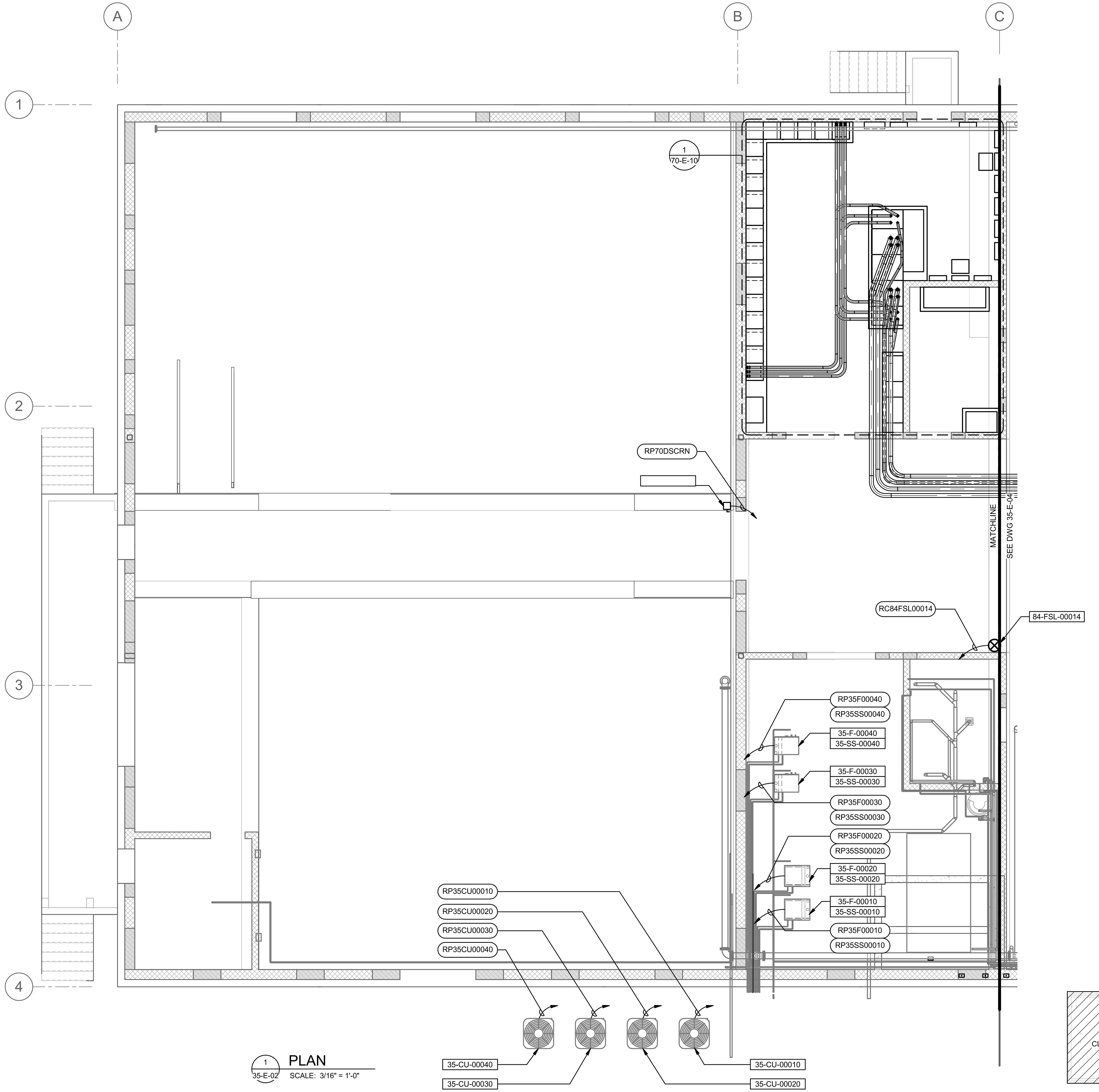
90% GMP

Brown AND Caldwell

DRAWING NO.

70-E-02

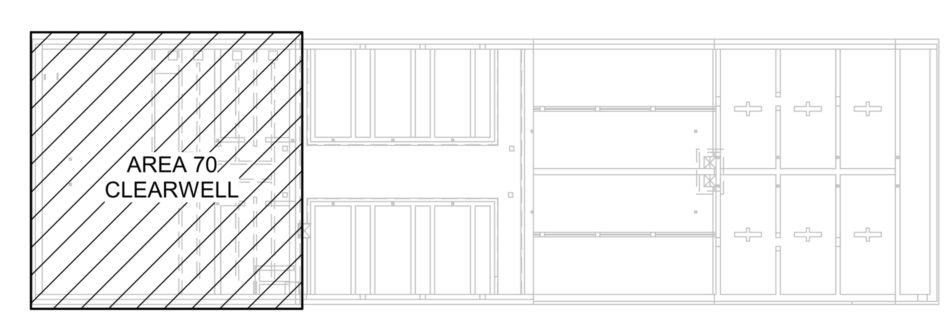
Plot Date:6/12/2024 3:58:35 PM Path: BIM 360//153020 - City Creek WTP/153020-E-3570W21.rvt



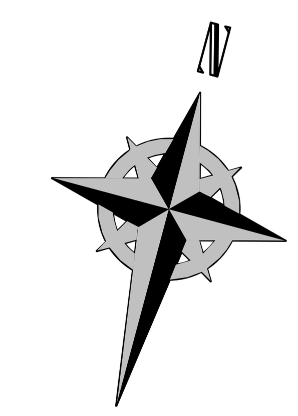
1
35-E-02

PLAN

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



KEY PLAN



SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL - UPPER LVL ELECTRICAL PLAN

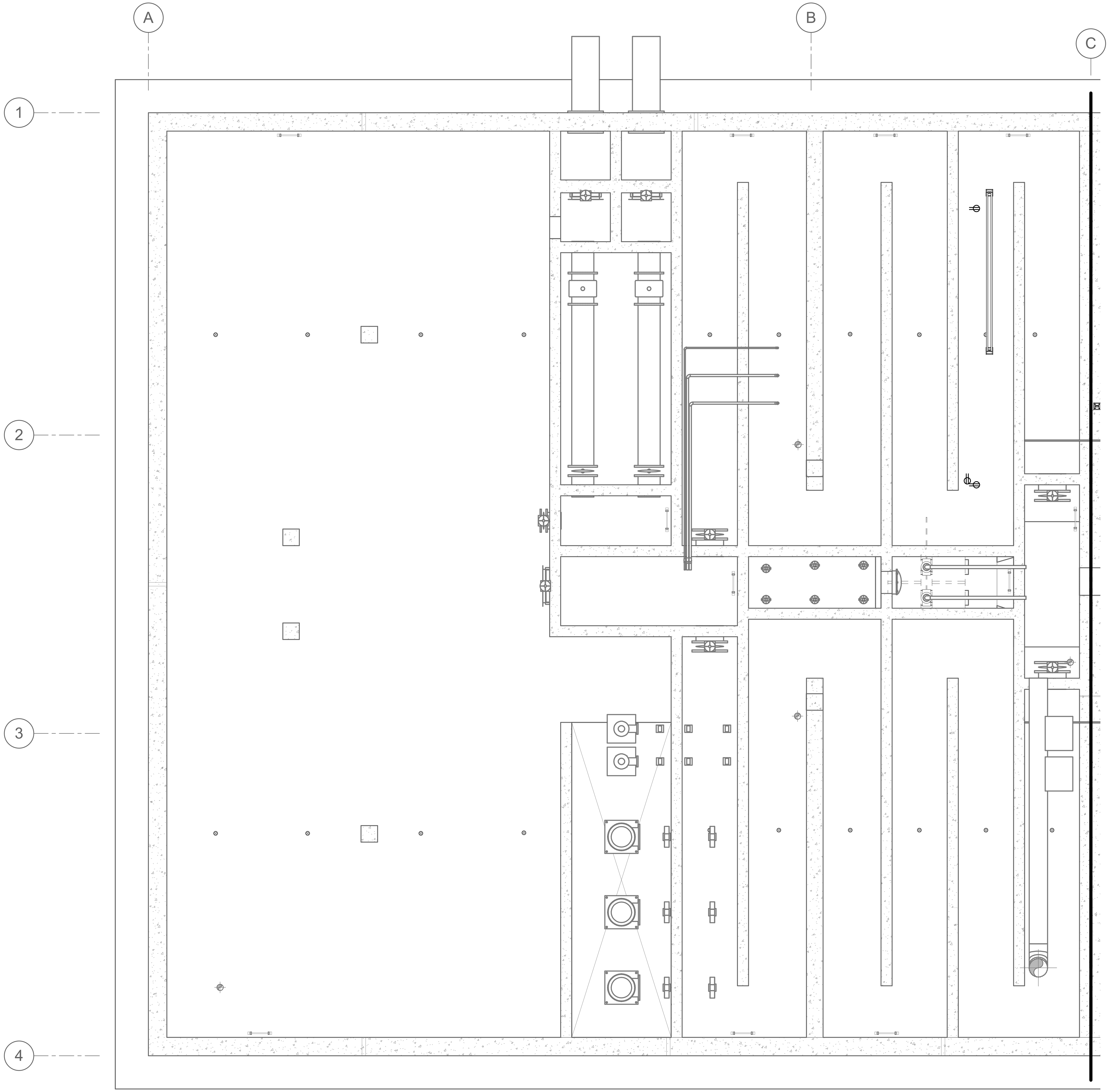
90% GMP

Brown AND Caldwell

DRAWING NO.

70-E-03

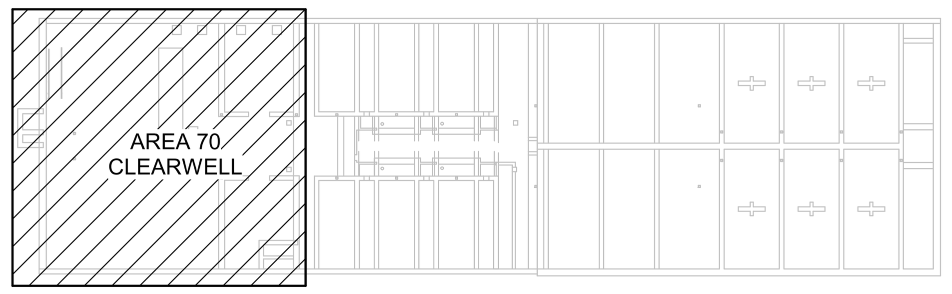
Plot Date:6/12/2024 3:58:37 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



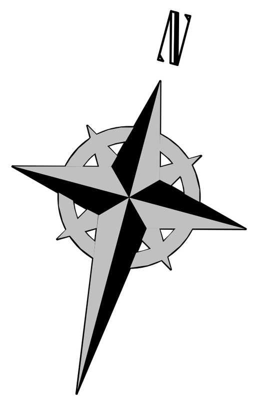
PLAN

1
35-E-01

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



KEY PLAN



SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: G.ALVAREZ
DRAWN BY: G.ALVAREZ
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

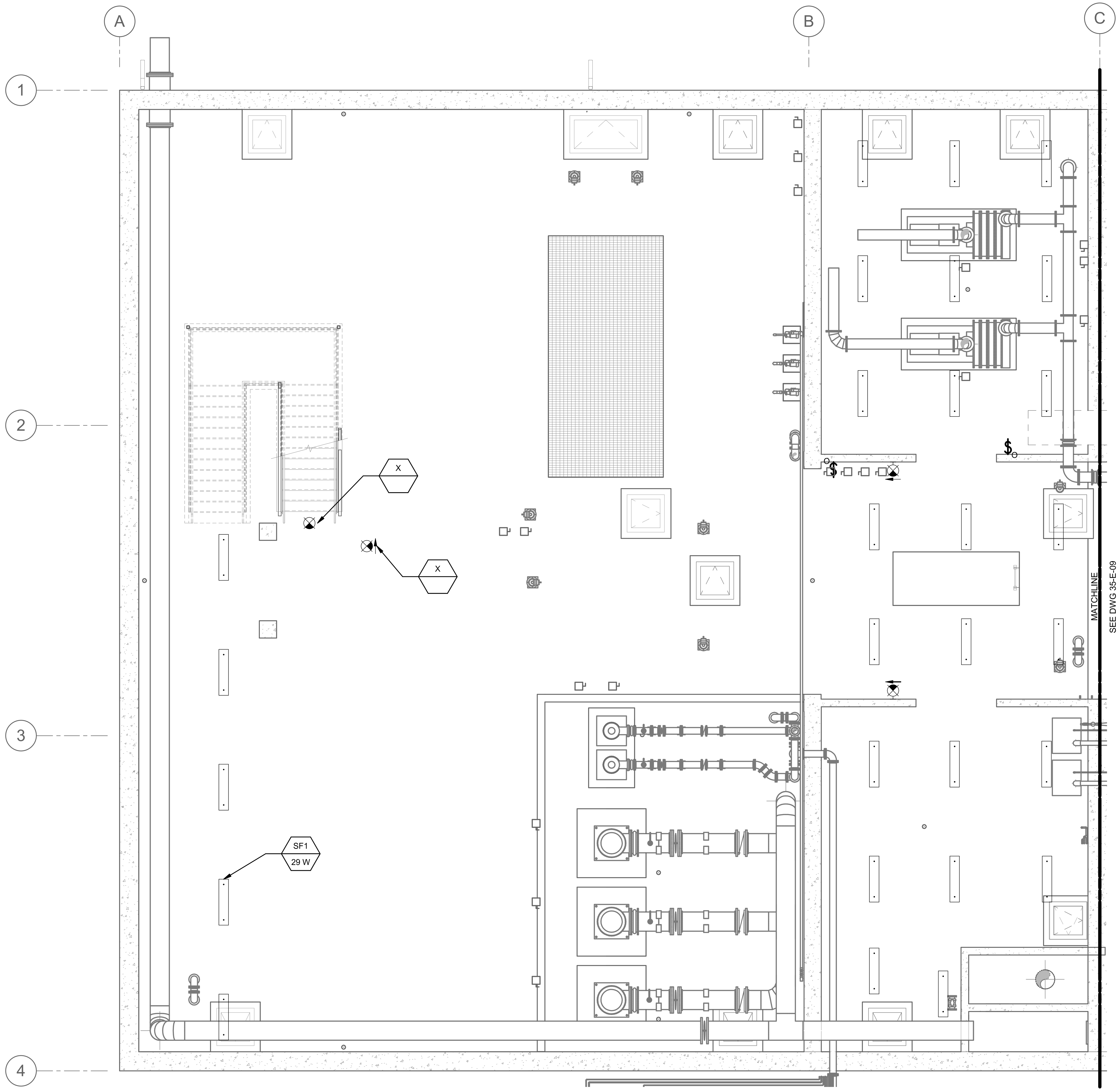
CLEARWELL - LOWER LVL LGT & RCP PLAN

90% GMP

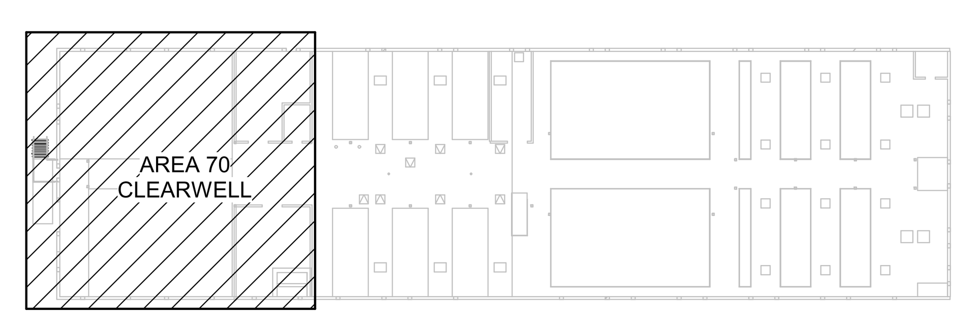
Brown AND Caldwell

DRAWING NO.
70-E-04

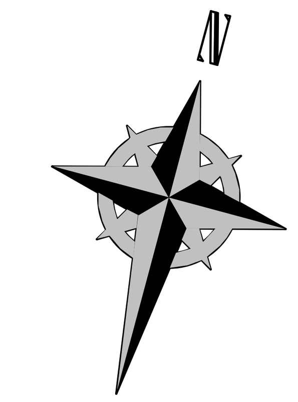
Plot Date:6/12/2024 3:58:37 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1 PLAN
35-E-01 SCALE: 3/16" = 1'-0"



KEY PLAN



SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

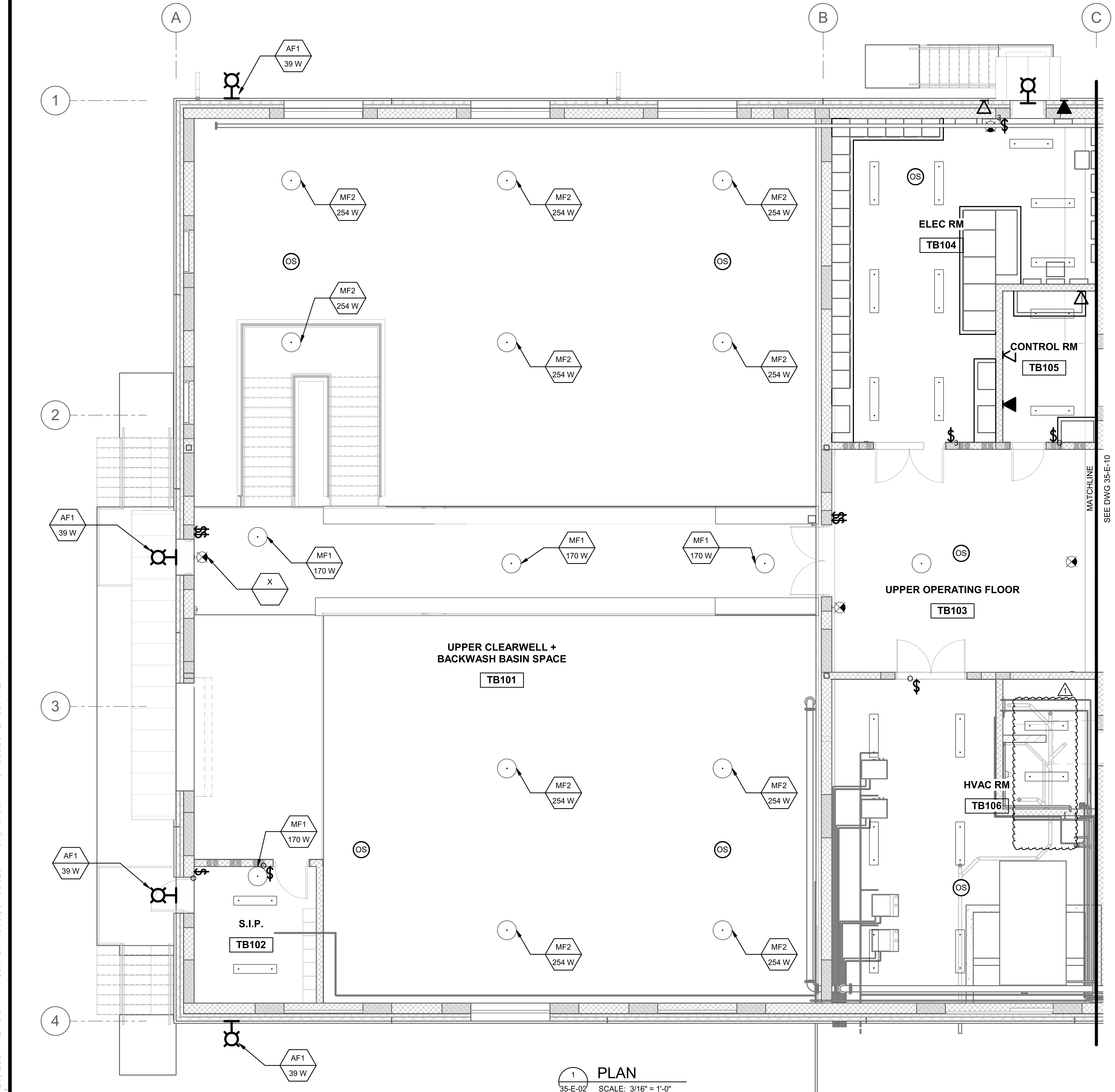
CLEARWELL - INTERMEDIATE LVL LGT & RCP PLAN

90% GMP

Brown AND Caldwell

DRAWING NO.
70-E-05

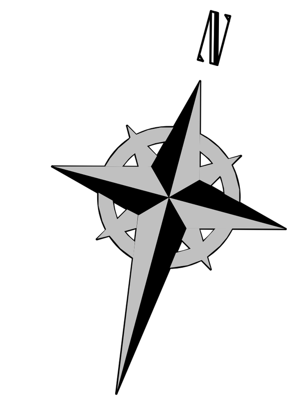
Plot Date:6/12/2024 3:58:39 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt

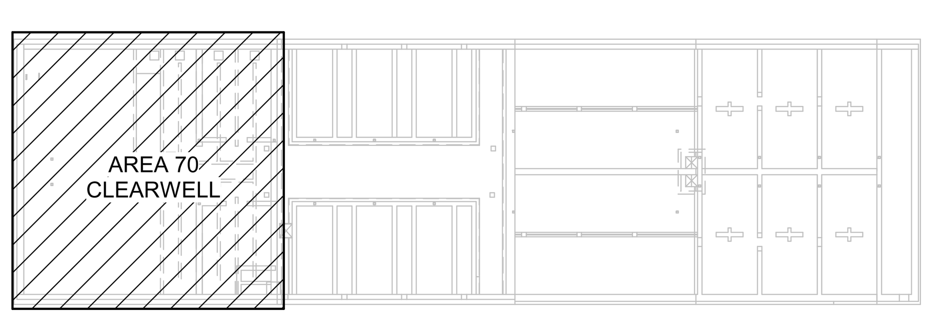


1
35-E-02

PLAN

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





KEY PLAN

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS
1	06/27/24	REVISED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

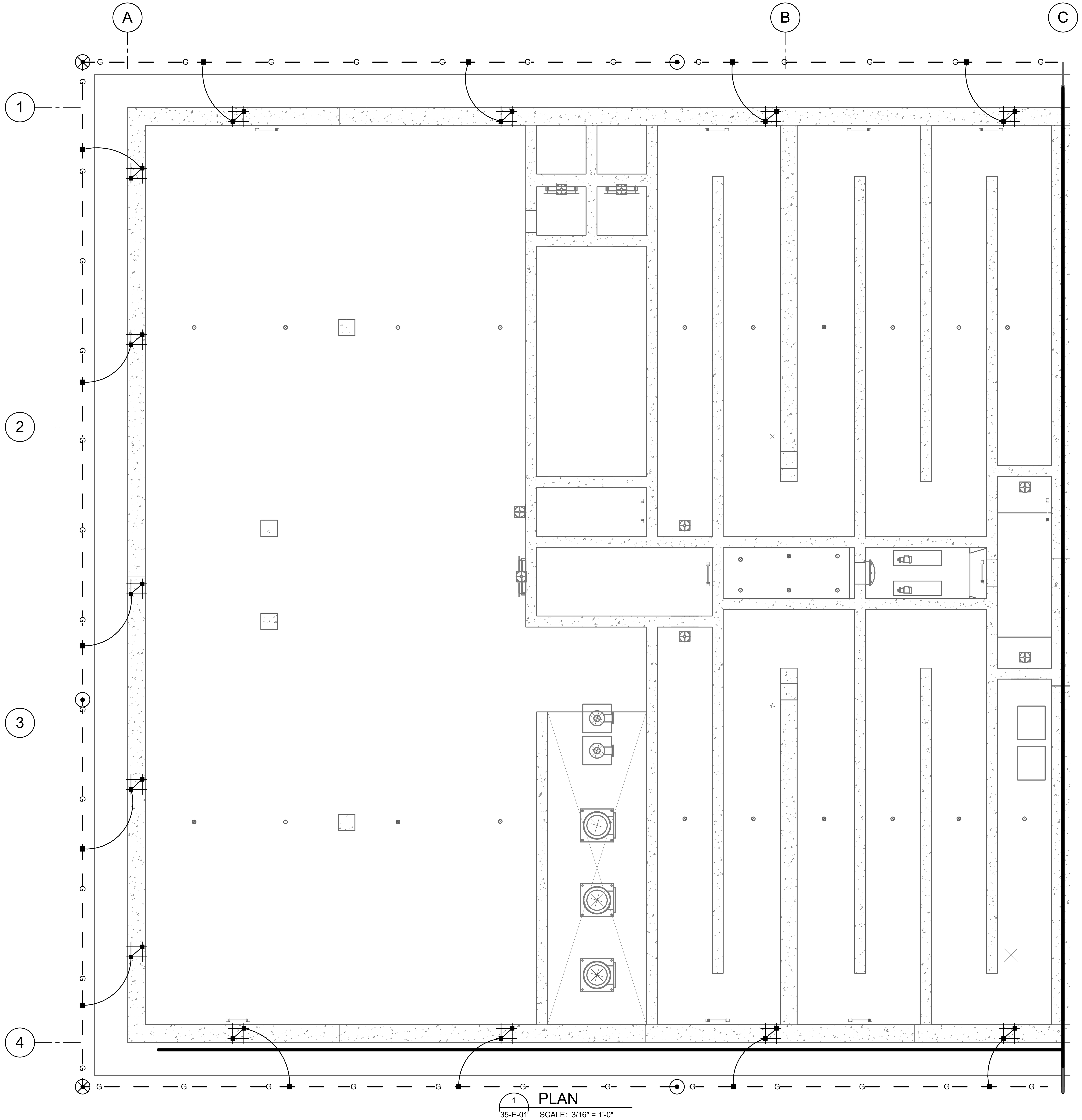
SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL – UPPER LVL
LGT & RCP PLAN

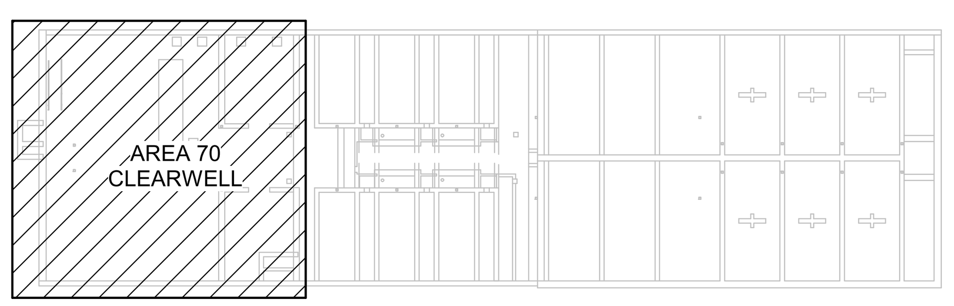
90% GMP

DRAWING NO.

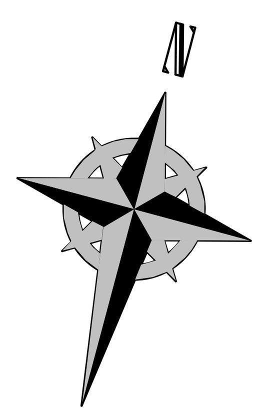
70-E-06



1 PLAN
35-E-01 SCALE: 3/16" = 1'-0"



KEY PLAN



Brown AND Caldwell

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

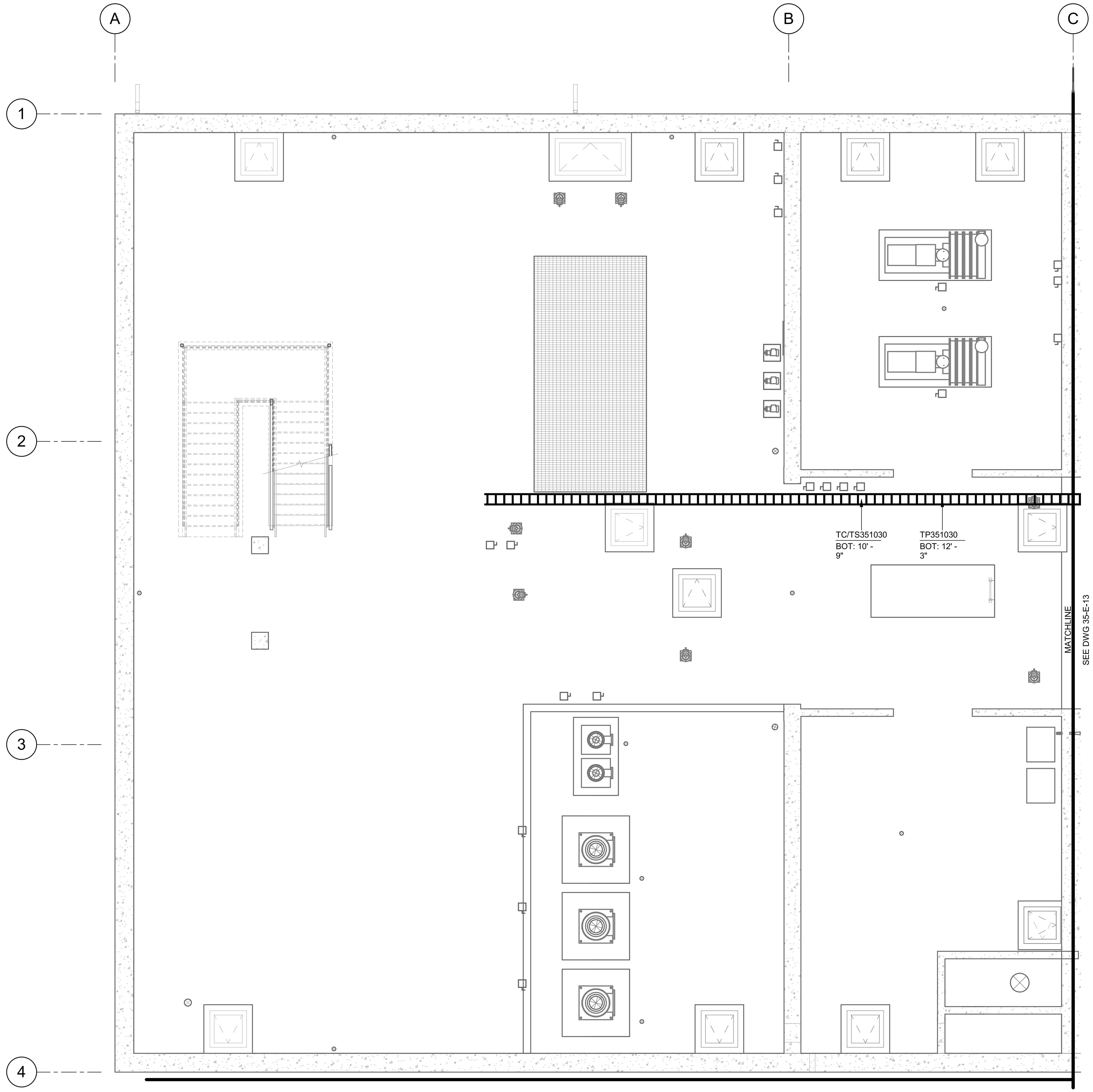
SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL - LOWER LVL TRY & GRD PLAN

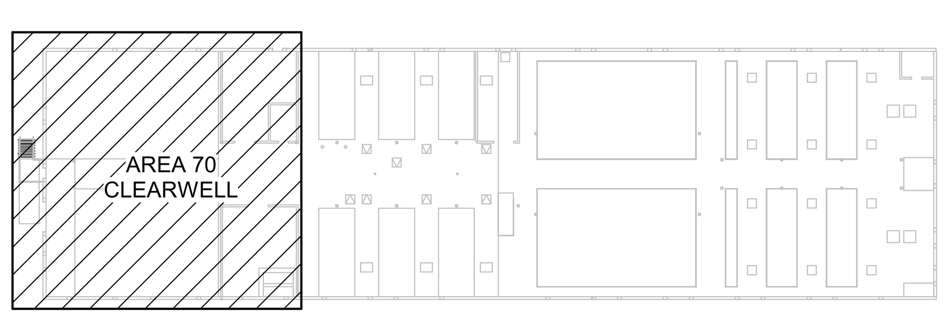
90% GMP

DRAWING NO.
70-E-07

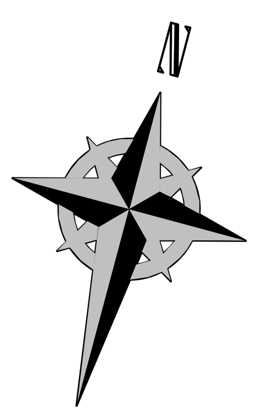
Plot Date:6/12/2024 3:58:41 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570v21.rvt



PLAN
1 / 35-E-01 SCALE: 3/16" = 1'-0"



KEY PLAN



SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

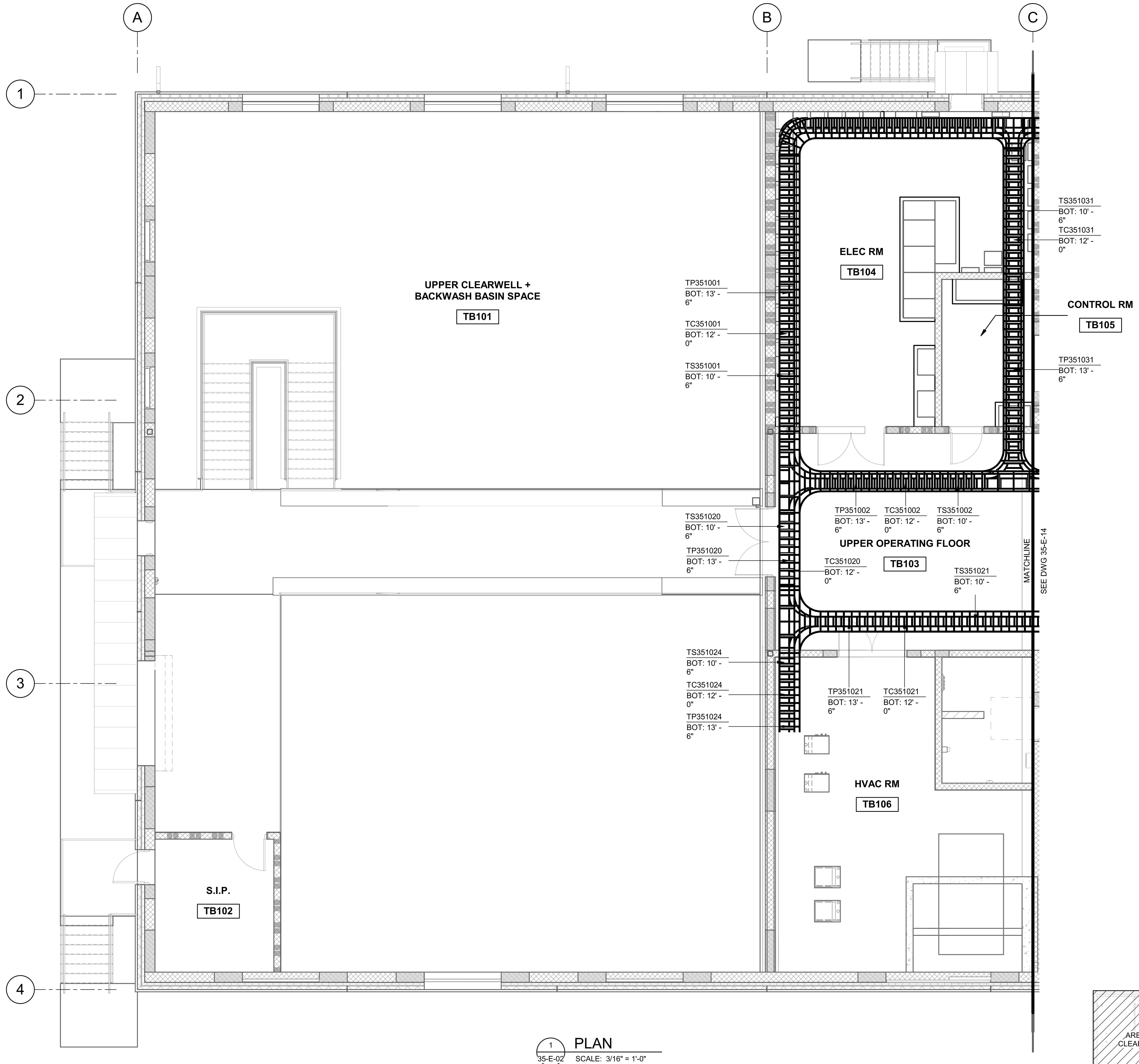
CLEARWELL - INTERMEDIATE LVL TRY & GRD PLAN

90% GMP

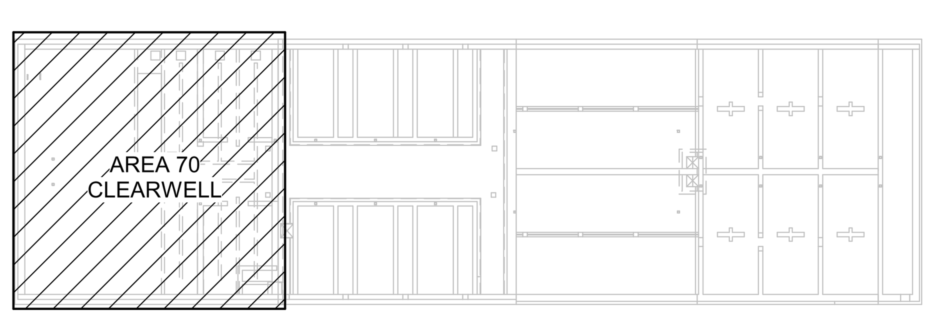
Brown AND Caldwell

DRAWING NO.
70-E-08

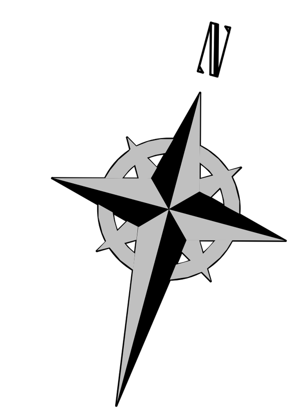
Plot Date: 6/12/2024 3:58:42 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1
35-E-02
PLAN
SCALE: 3/16" = 1'-0"



KEY PLAN



KEYNOTES:

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

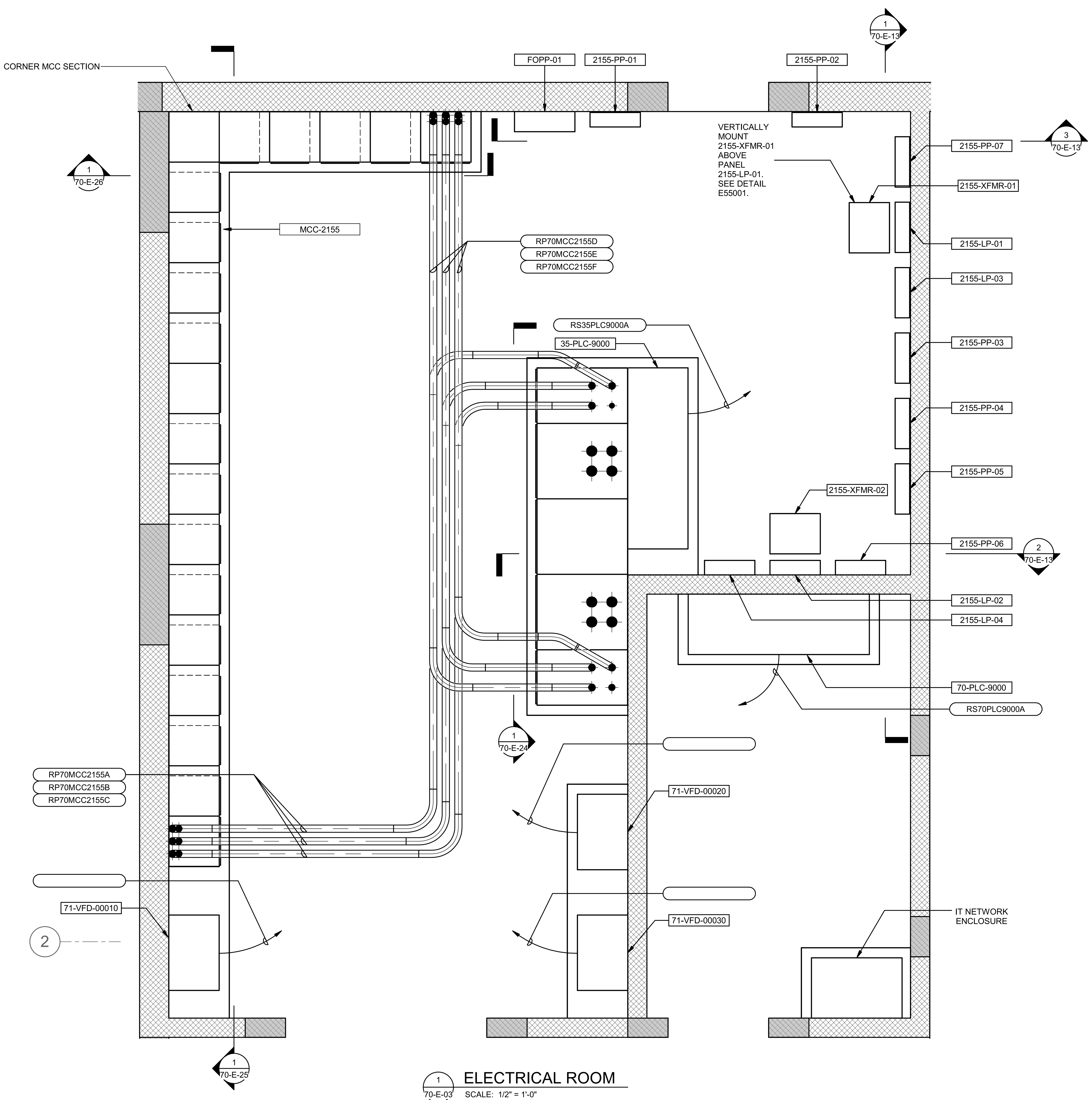
CLEARWELL - UPPER LVL
TRY & GRD PLAN

90% GMP

Brown AND Caldwell

DRAWING NO.
70-E-09

Plot Date:6/12/2024 3:58:43 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1 70-E-03 ELECTRICAL ROOM
SCALE: 1/2" = 1'-0"

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: N.ANDERSON
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

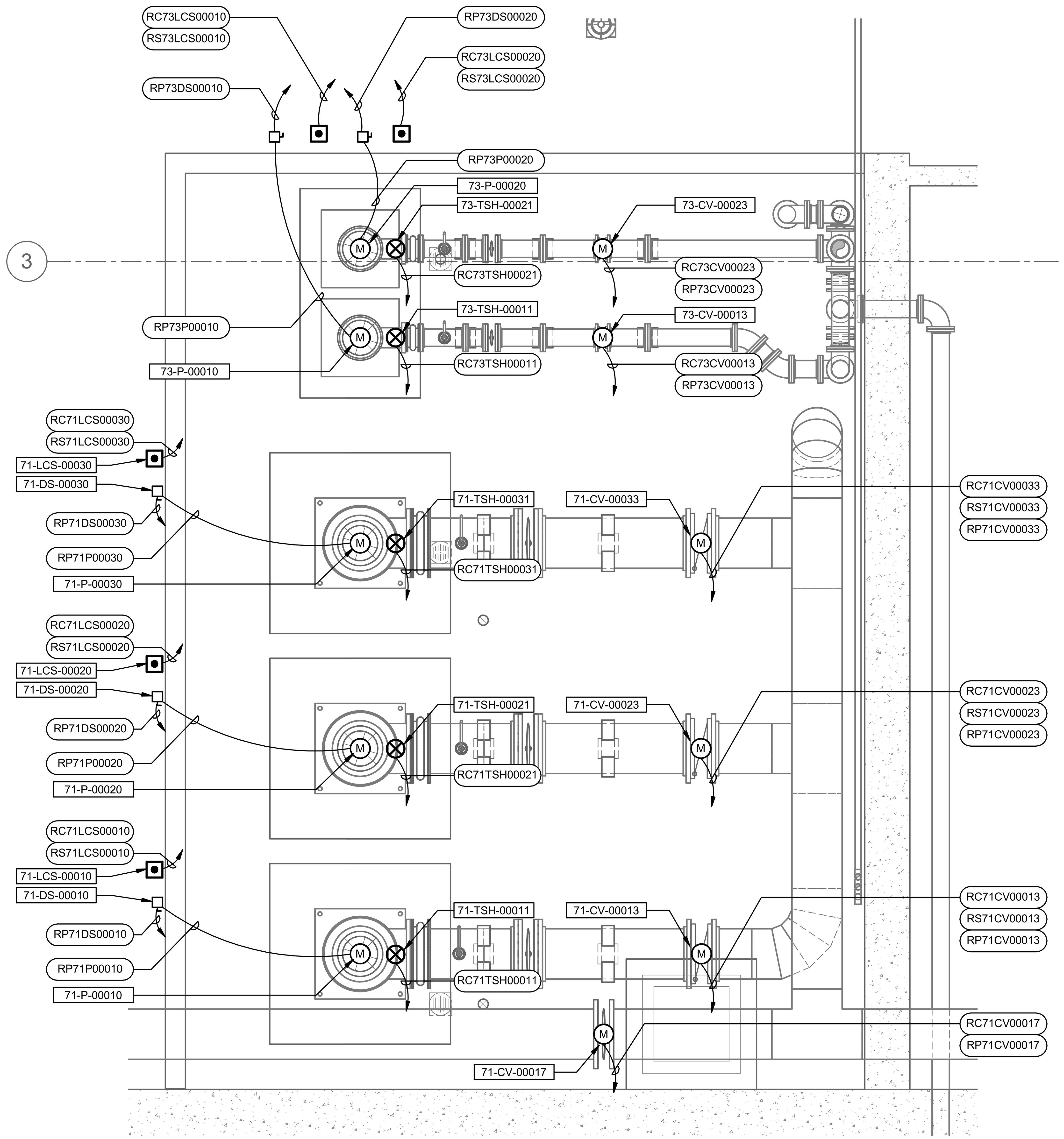
CLEARWELL - ENLARGED PLAN 1

90% GMP

Brown AND Caldwell

DRAWING NO.
70-E-10

Plot Date:6/12/2024 3:58:44 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1
70-E-02

ENLARGED PLAN

SCALE: 3/8" = 1'-0"

N

KEYNOTES:

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:	REVISIONS	MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

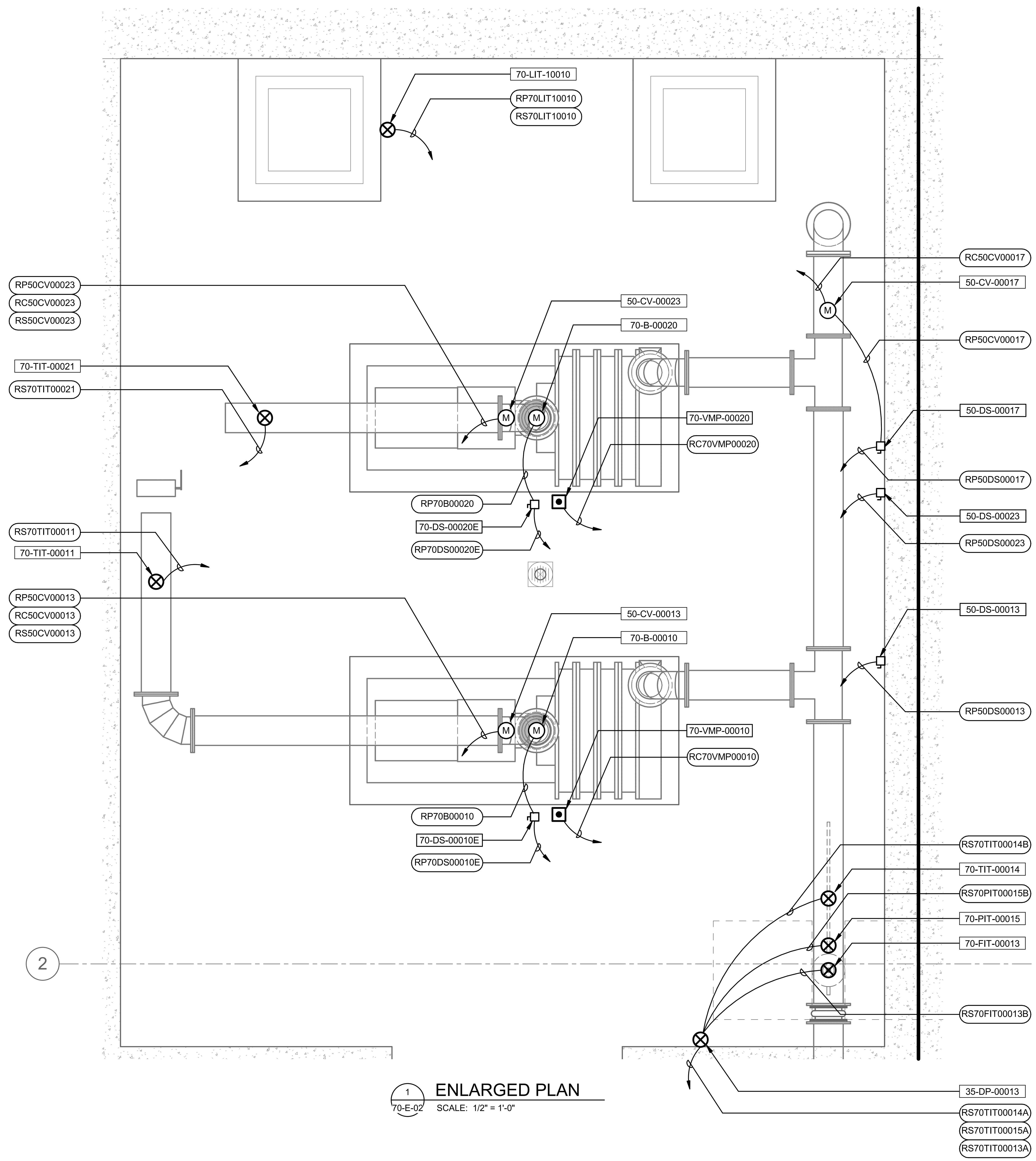
CLEARWELL - ENLARGED PLAN 2

90% GMP

Brown AND Caldwell

DRAWING NO.
70-E-11

Plot Date: 6/12/2024 3:58:47 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



1
70-E-02
ENLARGED PLAN
SCALE: 1/2" = 1'-0"

Plot Date:6/12/2024 3:58:48 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

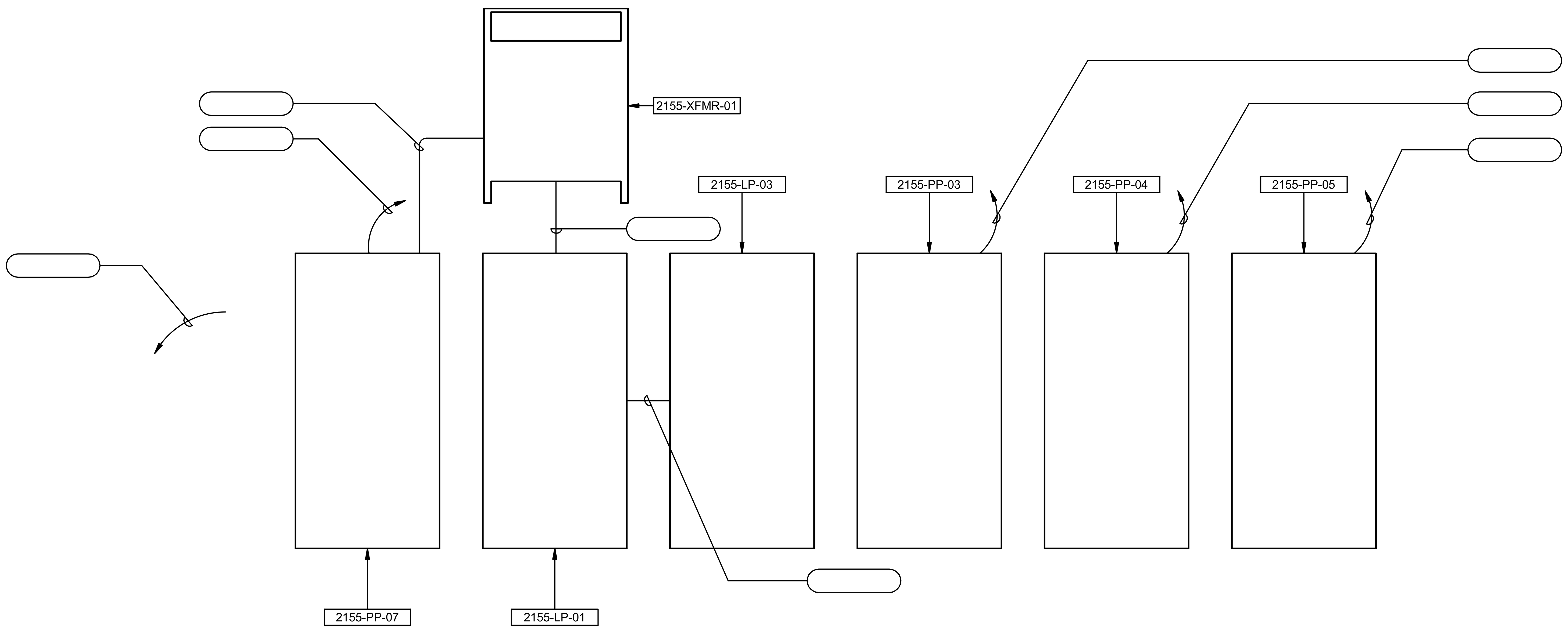
SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL - ENLARGED PLAN 3

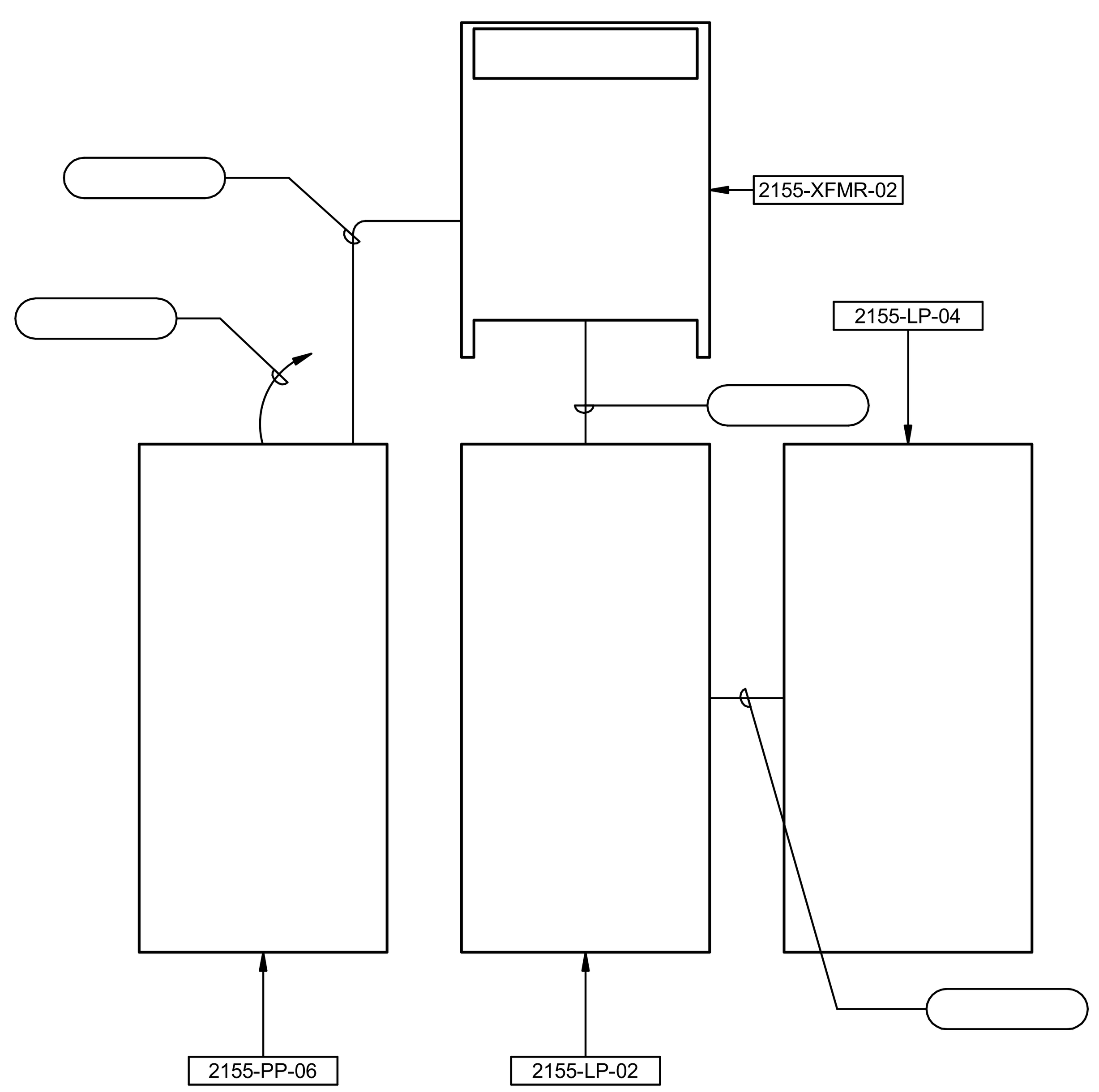
90% GMP

Brown AND Caldwell

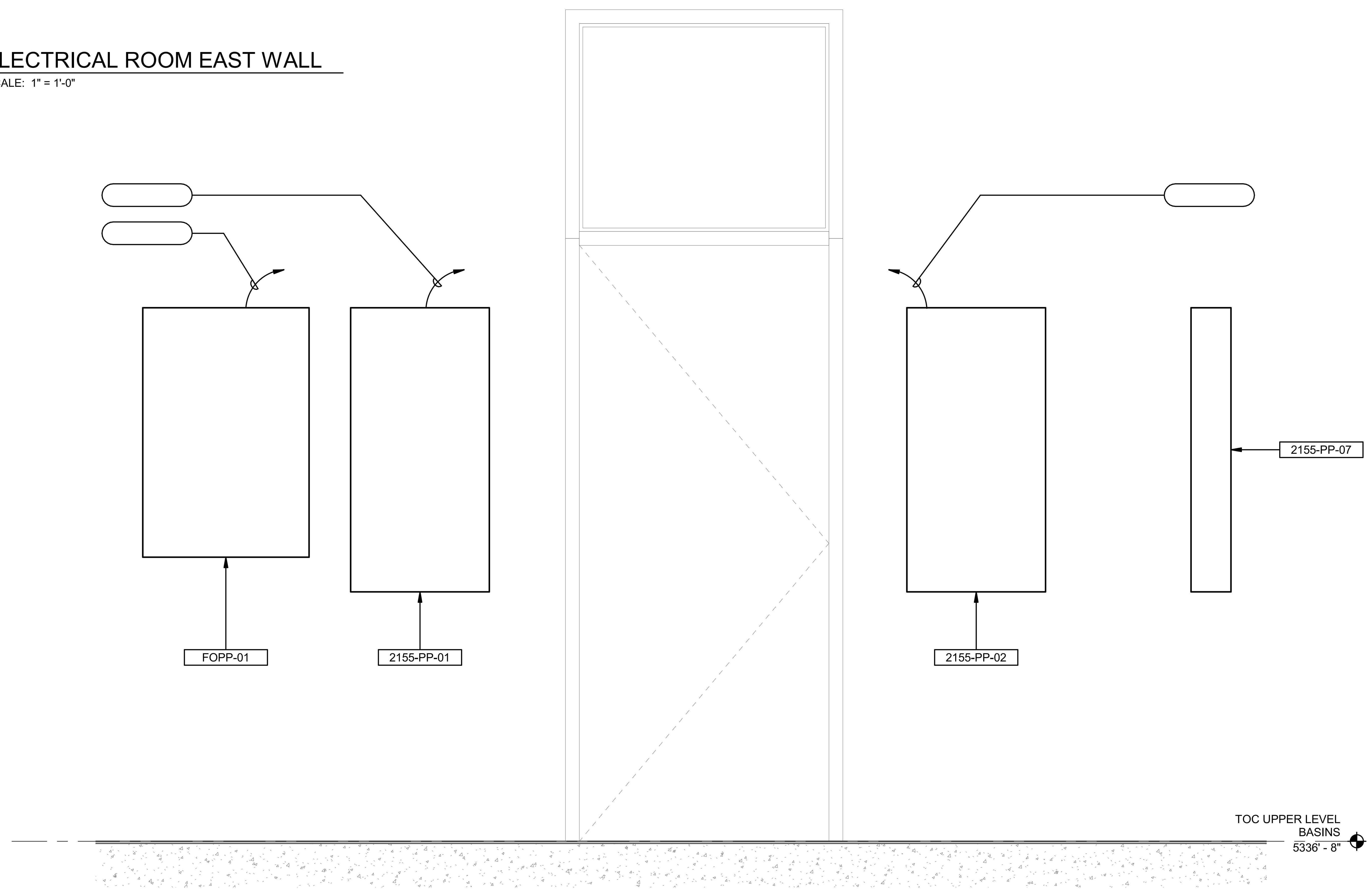
DRAWING NO.
70-E-12



1 / 70-E-10 ELECTRICAL ROOM EAST WALL
SCALE: 1" = 1'-0"



2 / 70-E-10 ELECTRICAL ROOM SOUTH WALL
SCALE: 1" = 1'-0"



3 / 70-E-10 ELECTRICAL ROOM NORTH WALL
SCALE: 1" = 1'-0"

Plot Date:6/12/2024 3:58:49 PM Path: BIM 360//153020 - City Creek WTP/153020-E-3570W21.rvt

Brown AND Caldwell

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

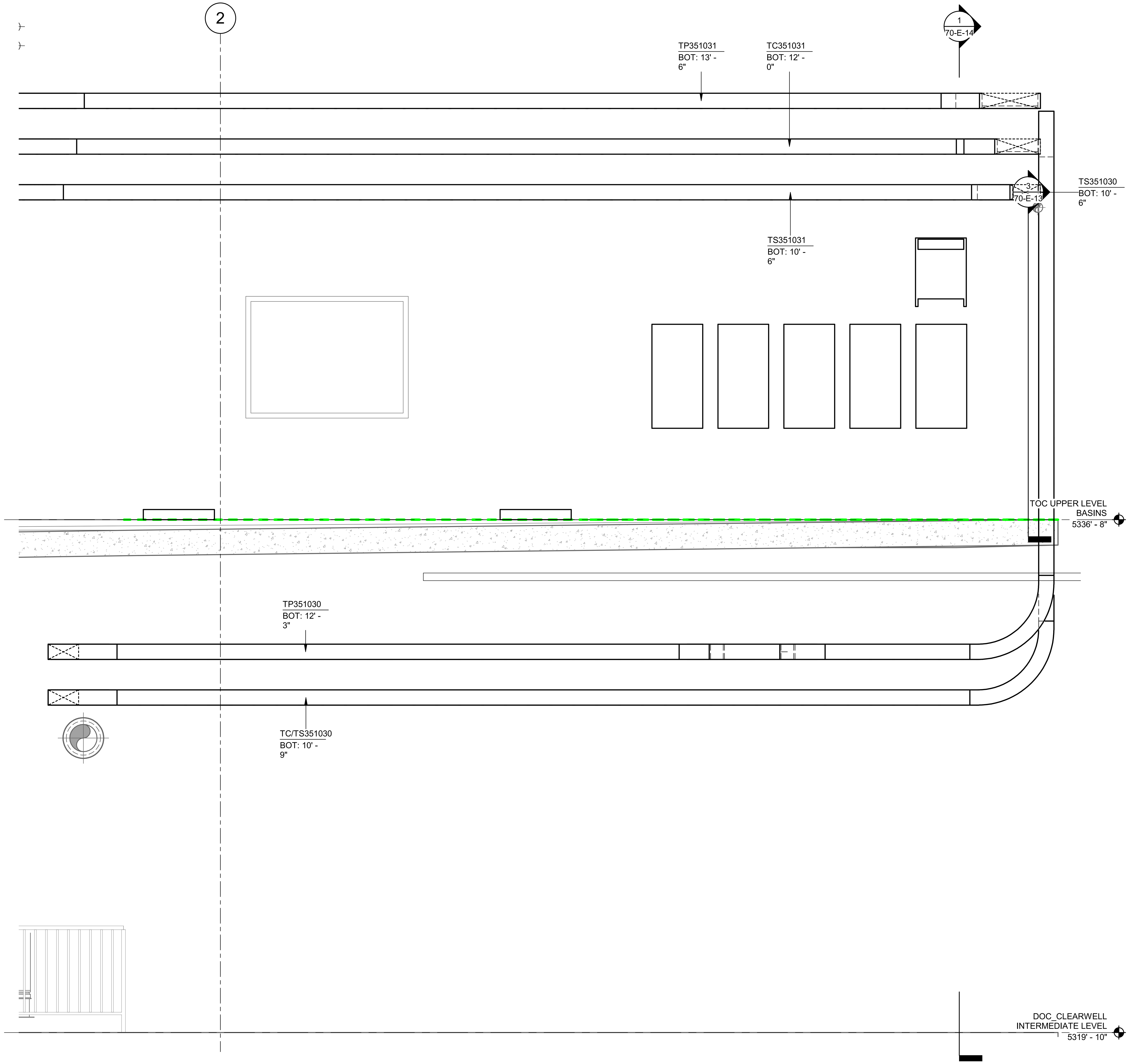
REVISIONS

NO.	DATE:	REVISIONS	MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

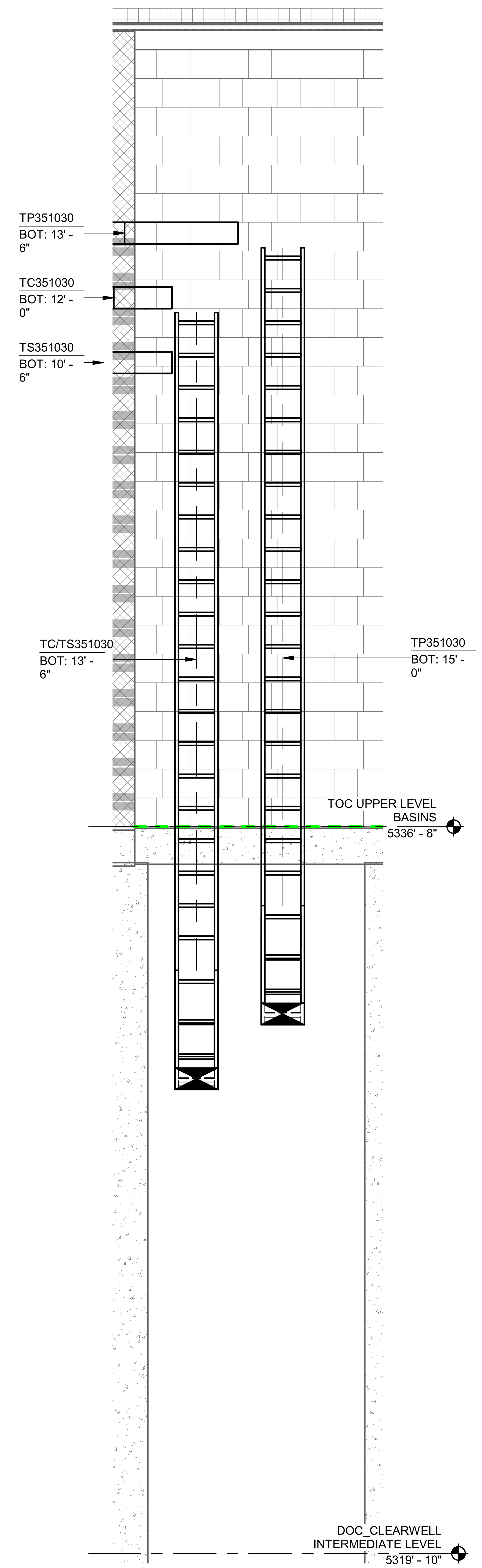
SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE
CLEARWELL - SECTIONS 1

90% GMP

DRAWING NO.
70-E-13



2
35-E-13
SECTION
SCALE: 1/2" = 1'-0"



1
35-E-13
SECTION
SCALE: 1/2" = 1'-0"

1

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL - SECTIONS 2

90% GMP

Brown AND Caldwell

DRAWING NO.
70-E-14

Plot Date:6/12/2024 3:58:50 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt

DESIGNATION: 2155-PP-01	MIN. AIC: 42k	FED FROM MCC-2155
LOCATION: TREATMENT BLDG ELEC RM	BUS (AMP) 100	MOUNTING SURFACE
VOLTAGE: 480 3 PHASE, 3 WIRE	MAIN (AMP) 100 BREAKER	

LOAD DESCRIPTION	CKT	BKR	A-KVA	B-KVA	C-KVA	CKT	BKR	LOAD DESCRIPTION
SURGE PROTECTOR	1	XX	0.0				15	50-CV-10041
(CIRCUIT BREAKER SIZED BY MANUFACTURER)			0.5			2		FILTER 1 WASTE BACKWASH WATER VALVE
	3			0.0				
				0.5		4		
	5				0.0			
		3			0.5	6	3	
50-CV-10011	7	15	0.5				15	50-CV-10051
FILTER 1 INLET VALVE			0.5			8		FILTER 1 FILTER TO WASTE VALVE
	9			0.5				
				0.5		10		
	11				0.5			
		3			0.5	12	3	
50-CV-10021	13	15	0.5				15	50-CV-10061
FILTER 1 OUTLET VALVE			0.5			14		FILTER 1 AIR WASH VALVE
	15			0.5				
				0.5		16		
	17				0.5			
		3			0.5	18	3	
50-CV-10031	19	15	0.5				15	71-CV-00013
FILTER 1 BACKWASH VALVE			0.5			20		BACKWASH SUPPLY PUMP 1 VALVE
	21			0.5				
				0.5		22		
	23				0.5			
		3			0.5	24	3	
40-CV-10011	25	15	0.5				15	71-CV-00023
SOLIDS COLLECTOR VALVE 1A			0.5			26		BACKWASH SUPPLY PUMP 2 VALVE
	27			0.5				
				0.5		28		
	29				0.5			
		3			0.5	30	3	
40-CV-10021	31	15	0.5				15	71-CV-00033
SOLIDS COLLECTOR VALVE 1B			0.5			32		BACKWASH SUPPLY PUMP 3 VALVE
	33			0.5				
				0.5		34		
	35				0.5			
		3			0.5	36	3	
40-CV-10012	37	15	0.5				15	71-CV-00017
SED BASIN 1 BACKFILL VALVE			0.5			38		BACKWASH TANK VALVE
	39			0.5				
				0.5		40		
	41				0.5			
		3			0.5	42	3	

CALCULATED LOAD TYPE, % DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, % 100%	6.5	6.5	6.5
CONTINUOUS, TYPE "C", % 125%	0.0	0.0	0.0
LARGEST MOTOR, TYPE "LM", % 125%	0.0	0.0	0.0
-			
-			
CALCULATED LOAD TOTALS EACH PHASE	6.5	6.5	6.5

CALCULATED LOAD TOTAL (KVA)	19.5
CALCULATED LOAD TOTAL (AMPS)	23.5

2155-PP-01
SCALE: N/A

DESIGNATION: 2155-PP-02	MIN. AIC: 42k	FED FROM MCC-2155
LOCATION: TREATMENT BLDG ELEC RM	BUS (AMP) 100	MOUNTING SURFACE
VOLTAGE: 480 3 PHASE, 3 WIRE	MAIN (AMP) 100 BREAKER	

LOAD DESCRIPTION	CKT	BKR	A-KVA	B-KVA	C-KVA	CKT	BKR	LOAD DESCRIPTION
SURGE PROTECTOR	1	XX	0.0				15	50-CV-20041
(CIRCUIT BREAKER SIZED BY MANUFACTURER)			0.5			2		FILTER 2 WASTE BACKWASH WATER VALVE
	3			0.0				
				0.5		4		
	5				0.0			
		3			0.5	6	3	
50-CV-20011	7	15	0.5				15	50-CV-20051
FILTER 2 INLET VALVE			0.5			8		FILTER 2 FILTER TO WASTE VALVE
	9			0.5				
				0.5		10		
	11				0.5			
		3			0.5	12	3	
50-CV-20021	13	15	0.5				15	50-CV-20061
FILTER 2 OUTLET VALVE			0.5			14		FILTER 2 AIR WASH VALVE
	15			0.5				
				0.5		16		
	17				0.5			
		3			0.5	18	3	
50-CV-20031	19	15	0.5				15	73-CV-00013
FILTER 2 BACKWASH VALVE			0.5			20		PLANT WATER PUMP 1 VALVE
	21			0.5				
				0.5		22		
	23				0.5			
		3			0.5	24	3	
40-CV-20011	25	15	0.5				15	73-CV-00023
SOLIDS COLLECTOR VALVE 2A			0.5			26		PLANT WATER PUMP 2 VALVE
	27			0.5				
				0.5		28		
	29				0.5			
		3			0.5	30	3	
40-CV-20021	31	15	0.5				15	70-CV-00013
SOLIDS COLLECTOR VALVE 2B			0.5			32		BLOWER 1 INTAKE VALVE
	33			0.5				
				0.5		34		
	35				0.5			
		3			0.5	36	3	
40-CV-20012	37	15	0.5					SPACE
SED BASIN 2 BACK FILL VALVE			-			38		
	39			0.5				
				-		40		
	41				0.5			
		3			-	42		

CALCULATED LOAD TYPE, % DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, % 100%	6.0	6.0	6.0
CONTINUOUS, TYPE "C", % 125%	0.0	0.0	0.0
LARGEST MOTOR, TYPE "LM", % 125%	0.0	0.0	0.0
-			
-			
CALCULATED LOAD TOTALS EACH PHASE	6.0	6.0	6.0

CALCULATED LOAD TOTAL (KVA)	18.0
CALCULATED LOAD TOTAL (AMPS)	21.7

2155-PP-02
SCALE: N/A

DESIGNATION: 2155-PP-03	MIN. AIC: 42k	FED FROM MCC-2155
LOCATION: TREATMENT BLDG ELEC RM	BUS (AMP) 100	MOUNTING SURFACE
VOLTAGE: 480 3 PHASE, 3 WIRE	MAIN (AMP) 100 BREAKER	

LOAD DESCRIPTION	CKT	BKR	A-KVA	B-KVA	C-KVA	CKT	BKR	LOAD DESCRIPTION
SURGE PROTECTOR	1	XX	0.0					50-CV-30041
(CIRCUIT BREAKER SIZED BY MANUFACTURER)			0.5			2		FILTER 3 WASTE BACKWASH WATER VALVE
	3			0.0				
				0.5		4		
	5				0.0			
		3			0.5	6	3	
50-CV-30011	7	15	0.5				15	50-CV-30051
FILTER 3 INLET VALVE			0.5			8		FILTER 3 FILTER TO WASTE VALVE
	9			0.5				
				0.5		10		
	11				0.5			
		3			0.5	12	3	
50-CV-30021	13	15	0.5				15	50-CV-30061
FILTER 3 OUTLET VALVE			0.5			14		FILTER 3 AIR WASH VALVE
	15			0.5				
				0.5		16		
	17				0.5			
		3			0.5	18	3	
50-CV-30031	19	15	0.5				15	30-CV-10011
FILTER 3 BACKWASH VALVE			0.5			20		FLOCULATION BASIN 1 INLET VALVE
	21			0.5				
				0.5		22		
	23				0.5			
		3			0.5	24	3	
70-CV-10010	25	15	0.5				15	30-CV-20011
CLEARWELL 1 INLET VALVE			0.5			26		FLOCULATION BASIN 2 INLET VALVE
	27			0.5				
				0.5		28		
	29				0.5			
		3			0.5	30	3	
70-CV-10020	31	15	0.5				15	70-CV-00023
CLEARWELL 1 OULET VALVE			0.5			32		BLOWER 2 INTAKE VALVE
	33			0.5				
				0.5		34		
	35				0.5			
		3			0.5	36	3	
SPACE	37		-					SPACE
			-			38		
	39			-				
				-		40		
	41				-			
					-	42		

CALCULATED LOAD TYPE, % DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, % 100%	5.5	5.5	5.5
CONTINUOUS, TYPE "C", % 125%	0.0	0.0	0.0
LARGEST MOTOR, TYPE "LM", % 125%	0.0	0.0	0.0
-			
-			
CALCULATED LOAD TOTALS EACH PHASE	5.5	5.5	5.5

CALCULATED LOAD TOTAL (KVA)	16.5
CALCULATED LOAD TOTAL (AMPS)	19.8

2155-PP-03
SCALE: N/A

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL - PANEL SCHEDULES 1

90% GMP

Brown AND Caldwell

DRAWING NO.
70-E-15

C:\bcpw\d1569745\70-E-15.dwg Jun 12, 2024 - 2:47pm

DESIGNATIOI	2155-PP-04	MIN. AIC:	42k	FED FROM	MCC-2155
LOCATION:	TREATMENT BLDG ELEC RM	BUS (AMP:	100	MOUNTIN(	SURFACE
VOLTAGE:	480 3 PHASE, 3 WIRE	MAIN (AMP	100 BREAKER		

LOAD DESCRIPTION	CKT	BKR	A-KVA	B-KVA	C-KVA	CKT	BKR	LOAD DESCRIPTION
SURGE PROTECTOR	1	XX	0.0				15	50-CV-40041
(CIRCUIT BREAKER SIZED BY MANUFACTURER)			0.5			2		FILTER 4 WASTE BACKWASH WATER VALVE
	3			0.0				
				0.5		4		
	5				0.0			
		3			0.5	6	3	
50-CV-40011	7	15	0.5				15	50-CV-40051
FILTER 4 INLET VALVE			0.5			8		FILTER 4 FILTER TO WASTE VALVE
	9			0.5				
				0.5		10		
	11				0.5			
		3			0.5	12	3	
50-CV-40021	13	15	0.5				15	50-CV-40061
FILTER 4 OUTLET VALVE			0.5			14		FILTER 4 AIR WASH VALVE
	15			0.5				
				0.5		16		
	17				0.5			
		3			0.5	18	3	
50-CV-40031	19	15	0.5				15	70-CV-00017
FILTER 4 BACKWASH VALVE			0.0			20		BLOWERS OUTPUT TO ATMOSPHERE VALVE
	21			0.5				
				0.0		22		
	23				0.5			
		3			0.0	24	3	
70-CV-20010	25	15	0.5				15	70-GT-00010
CLEARWELL 2 INLET VALVE			0.0			26		BACKWASH PUMP STATION INLET WEIR GATE
	27			0.5				
				0.0		28		
	29				0.5			
		3			0.0	30	3	
70-CV-20020	31	15	0.5					SPARE
CLEARWELL 2 OULET VALVE			0.0			32		
	33			0.5				
				0.0		34		
	35				0.5			
		3			0.0	36		
SPACE	37		-					SPACE
			-			38		
	39			-				
				-		40		
	41				-			
					-	42		

CULATED LOAD TYPE, % DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, % 100%	4.0	4.0	4.0
CONTINUOUS, TYPE "C", % 125%	0.0	0.0	0.0
LARGEST MOTOR, TYPE "LM", % 125%	0.0	0.0	0.0
-			
-			
CALCULATED LOAD TOTALS EACH PHASE	4.0	4.0	4.0

CALCULATED LOAD TOTAL (KVA)	12.0
CALCULATED LOAD TOTAL (AMPS)	14.4

2155-PP-04

SCALE: N/A

DESIGNATIOI	2155-PP-05	MIN. AIC:	42k	FED FROM	MCC-2155
LOCATION:	TREATMENT BLDG ELEC RM	BUS (AMP:	100	MOUNTIN(	SURFACE
VOLTAGE:	480 3 PHASE, 3 WIRE	MAIN (AMP	100 BREAKER		

LOAD DESCRIPTION	CKT	BKR	A-KVA	B-KVA	C-KVA	CKT	BKR	LOAD DESCRIPTION
SURGE PROTECTOR	1	XX	0.0				15	50-CV-50041
(CIRCUIT BREAKER SIZED BY MANUFACTURER)			0.5			2		FILTER 5 WASTE BACKWASH WATER VALVE
	3			0.0				
				0.5		4		
	5				0.0			
		3			0.5	6	3	
50-CV-50011	7	15	0.5				15	50-CV-50051
FILTER 5 INLET VALVE			0.5			8		FILTER 5 FILTER TO WASTE VALVE
	9			0.5				
				0.5		10		
	11				0.5			
		3			0.5	12	3	
50-CV-50021	13	15	0.5				15	50-CV-50061
FILTER 5 OUTLET VALVE			0.5			14		FILTER 5 AIR WASH VALVE
	15			0.5				
				0.5		16		
	17				0.5			
		3			0.5	18	3	
50-CV-50031	19	15	0.5				15	70-CV-00099
FILTER 5 BACKWASH VALVE			0.5			20		CLEARWELL FINISHED WATER VALVE 1
	21			0.5				
				0.5		22		
	23				0.5			
		3			0.5	24	3	
35-CV-00019	25	15	0.5				15	70-CV-00100
MASTER BACKWASH FLOW CONTROL VALVE 2			0.5			26		CLEARWELL FINISHED WATER VALVE 2
	27			0.5				
				0.5		28		
	29				0.5			
		3			0.5	30	3	
SPARE	31	15	0.0					SPACE
			-			32		
	33			0.0				
				-		34		
	35				0.0			
		3			-	36		
SPACE	37		-					SPACE
			-			38		
	39			-				
				-		40		
	41				-			
					-	42		

CALCULATED LOAD TYPE, % DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, % 100%	4.5	4.5	4.5
CONTINUOUS, TYPE "C", % 125%	0.0	0.0	0.0
LARGEST MOTOR, TYPE "LM", % 125%	0.0	0.0	0.0
-			
-			
CALCULATED LOAD TOTALS EACH PHASE	4.5	4.5	4.5

CALCULATED LOAD TOTAL (KVA)	13.5
CALCULATED LOAD TOTAL (AMPS)	16.2

2155-PP-05

SCALE: N/A

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL – PANEL SCHEDULES 2

90% GMP

Brown AND Caldwell

DRAWING NO.
70-E-16

C:\bcpw\d1569745\70-E-16.dwg Jun 12, 2024 - 2:48pm

DESIGNATION: 2155-PP-06			MIN. AIC: 42k			FED FROM: MCC-2155		
LOCATION: TREATMENT BLDG ELEC RM			BUS (AMP): 100			MOUNTING: SURFACE		
VOLTAGE: 480 3 PHASE, 3 WIRE			MAIN (AMP): 100 BREAKER					
LOAD DESCRIPTION	**CKT**	**BKR**	**A-KVA**	**B-KVA**	**C-KVA**	**CKT**	**BKR**	**LOAD DESCRIPTION**
SURGE PROTECTOR	1	XX	0.0				15	50-CV-60041
(CIRCUIT BREAKER SIZED BY MANUFACTURER)			0.5			2		FILTER 6 WASTE BACKWASH WATER VALVE
	3			0.0				
				0.5		4		
	5				0.0			
		3			0.5	6	3	
50-CV-60011	7	15	0.5				15	50-CV-60051
FILTER 6 INLET VALVE			0.5			8		FILTER 6 FILTER TO WASTE VALVE
	9			0.5				
				0.5		10		
	11				0.5			
		3			0.5	12	3	
50-CV-60021	13	15	0.5				15	50-CV-60061
FILTER 6 OUTLET VALVE			0.5			14		FILTER 6 AIR WASH VALVE
	15			0.5				
				0.5		16		
	17				0.5			
		3			0.5	18	3	
50-CV-60031	19	15	0.5				15	50-CV-00017
FILTER 6 BACKWASH VALVE			0.5			20		BLOWER ROOM SILENCER VALVE
	21			0.5				
				0.5		22		
	23				0.5			
		3			0.5	24	3	
84-VCP-10010	25	15	0.5				15	50-CV-00013
POLYMER BLENDING UNIT 1 CONTROL PANEL			0.5			26		BLOWER 1 INLET VALVE
	27			0.5				
				0.5		28		
	29				0.5			
		3			0.5	30	3	
84-VCP-20010	31	15	0.5				15	50-CV-00023
POLYMER BLENDING UNIT 2 CONTROL PANEL			0.5			32		BLOWER 2 INLET VALVE
	33			0.5				
				0.5		34		
	35				0.5			
		3			0.5	36	3	
SPACE	37		-				40	2155-XFMR-02
			-			38		2155-LP-02
	39			-				
				-		40		
	41				-			
					-	42		

CALCULATED LOAD TYPE, % DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, % 100%	5.5	5.5	5.5
CONTINUOUS, TYPE "C", % 125%	0.0	0.0	0.0
LARGEST MOTOR, TYPE "LM", % 125%	0.0	0.0	0.0
-			
-			
CALCULATED LOAD TOTALS EACH PHASE	5.5	5.5	5.5

CALCULATED LOAD TOTAL (KVA)	16.5
CALCULATED LOAD TOTAL (AMPS)	19.8

2155-PP-06
SCALE: N/A

DESIGNATION: 2155-LP-02			MIN. AIC: 65K			FED FROM: 2155-PP-06		
LOCATION: TREATMENT BLDG ELEC RM			BUS (AMP): 100			MOUNTING: SURFACE		
VOLTAGE: 208/120 3 PHASE, 4 WIRE			MAIN (AMP): 100					
LOAD DESCRIPTION	**CKT**	**BKR**	**A-KVA**	**B-KVA**	**C-KVA**	**CKT**	**BKR**	**LOAD DESCRIPTION**
35-AIT-00021	1	15	0.5				15	50-AIT-40131
COMBINED FTW TURB		1	0.5			2	1	FILTER 4 TURB
35-CV-10055	3	15		0.5			15	50-AIT-40141
COMBINED FILTER TO WASTE FLOW		1		0.5		4	1	FILTER 4 PARTICLE COUNT
40-FIT-00012	5	15			0.5		15	50-LIT-40111
SOLIDS FLOW METER		1			0.5	6	1	FILTER 4 LEVEL
40-LIT-00011	7	15	0.5				15	50-FIT-40010
SOLIDS COLLECTION BOX LEVEL		1	0.5			8	1	FILTER 4 COMBINED FILTER WATER FLOW
60-LIT-00012	9	15		0.5			15	50-AIT-50131
WASTE BACKWATER CLARIFIER LEVEL		1		0.5		10	1	FILTER 5 TURB
70-AIT-00013	11	15			0.5		15	50-AIT-50141
FINISHED WATER CLEARWELL PH		1			0.5	12	1	FILTER 5 PARTICLE COUNT
70-AIT-00014	13	15	0.5				15	50-LIT-50111
FINISHED WATER CLEARWELL CL		1	0.5			14	1	FILTER 5 LEVEL
70-AIT-00015	15	15		0.5			15	50-FIT-50010
FINISHED WATER CLEARWELL FLR		1		0.5		16	1	FILTER 5 COMBINED FILTER WATER FLOW
70-FIT-00020	17	15			0.5		15	50-AIT-60131
CLEARWELL FIT 2		1			0.5	18	1	FILTER 6 TURB
SPARE	19	15	0.0				15	50-AIT-60141
		1	0.5			20	1	FILTER 6 PARTICLE COUNT
35-WH-00001	21	15		0.5			15	50-LIT-60111
FLOC BASIN BATHROOM WATER HEATER		1		0.5		22	1	FILTER 6 LEVEL
35-F-00010	23	20			1.5		15	50-FIT-60010
HVAC FURNACE 1		1			0.5	24	1	FILTER 6 COMBINED FILTER WATER FLOW
35-F-00030	25	20	1.5				15	84-FIT-00015
HVAC FURNACE 3		1	0.5			26	1	ANIONIC POLYMER FEED PUMPS 1 AND 2
35-CU-00010	27	45		2.1			15	84-LIT-00021
OUTDOOR SPLIT UNIT 1				0.5		28	1	ANIONIC POLYMER BATCH TANK LEVEL
(INDOOR FED FROM OUTDOOR)	29				2.1		15	84-FIT-00042
		2			0.5	30	1	PEA FEED PUMP 3 OUTPUT FLOW
35-CU-00030	31	35	1.6				15	84-FIT-00052
OUTDOOR SPLIT UNIT 3			0.5			32	1	PEA FEED PUMP 4 OUTPUT FLOW
(INDOOR FED FROM OUTDOOR)	33			1.6			15	84-FIT-00062
		2		0.5		34	1	PEA FEED PUMP 5 OUTPUT FLOW
SPARE	35	15			0.0		15	SPARE
		1			0.0	36	1	
SPARE	37	15	0.0				100	2155-LP-04
		1	0.0			38		
SPACE	39	15		-				
		1		-		40		
SPACE	41				-			
					-	42		

CALCULATED LOAD TYPE, % DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, % 100%	7.6	8.7	7.6
CONTINUOUS, TYPE "C", % 125%	0.0	0.0	0.0
LARGEST MOTOR, TYPE "LM", % 125%	0.0	0.0	0.0
-			
-			
CALCULATED LOAD TOTALS EACH PHASE	7.6	8.7	7.6

CALCULATED LOAD TOTAL (KVA)	26.1
CALCULATED LOAD TOTAL (AMPS)	72.4

2155-LP-02
SCALE: N/A

DESIGNATION: 2155-LP-04			MIN. AIC: 65K			FED FROM: 2155-LP-02		
LOCATION: TREATMENT BLDG ELEC RM			BUS (AMP): 100			MOUNTING: SURFACE		
VOLTAGE: 208/120 3 PHASE, 4 WIRE			MAIN (AMP): 100					
LOAD DESCRIPTION	**CKT**	**BKR**	**A-KVA**	**B-KVA**	**C-KVA**	**CKT**	**BKR**	**LOAD DESCRIPTION**
SPARE	1	15	0.0				15	40-COL-10010
		1	0.0			2	1	SOLIDS COLLECTOR 1A
SPARE	3	15		0.0			15	40-COL-10020
		1		0.0		4	1	SOLIDS COLLECTOR 1B
SPARE	5	15			0.0		15	40-COL-20010
		1			0.0	6	1	SOLIDS COLLECTOR 2A
SPARE	7	15	0.0				15	40-COL-20020
		1	0.0			8	1	SOLIDS COLLECTOR 2B
SPARE	9	15		0.0			15	70-LIT-10010
		1		0.0		10	1	CLEARWELL 1 LEVEL
SPARE	11	15			0.0		15	70-LIT-20010
		1			0.0	12	1	CLEARWELL 2 LEVEL
SPARE	13	15	0.0				15	SPARE
		1	0.0			14	1	
SPARE	15	15		0.0			15	SPARE
		1		0.0		16	1	
SPARE	17	15			0.0		20	SPARE
		1			0.0	18	1	
SPARE	19	15	0.0				20	SPARE
		1	0.0			20	1	
SPARE	21	15		0.0			20	SPARE
		1		0.0		22	1	
SPARE	23	15			0.0		20	SPARE
		1			0.0	24	1	
SPARE	25	15	0.0				20	SPARE
		1	0.0			26	1	
SPARE	27	20		0.0			20	SPARE
		1		0.0		28	1	
SPARE	29	20			0.0		20	SPARE
		1			0.0	30	1	
SPARE	31	30	0.0				20	SPARE
		1	0.0			32	1	
SPARE	33	30		0.0			20	SPARE
		1		0.0		34	1	
SPARE	35	30			0.0		20	SPARE
		1			0.0	36	1	
SPACE	37		-					SPACE
			-			38		
SPACE	39			-				SPACE
				-		40		
SPACE	41				-			SPACE
					-	42		

CALCULATED LOAD TYPE, % DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, % 100%	0.0	0.0	0.0
CONTINUOUS, TYPE "C", % 125%	0.0	0.0	0.0
LARGEST MOTOR, TYPE "LM", % 125%	0.0	0.0	0.0
-			
-			
CALCULATED LOAD TOTALS EACH PHASE	0.0	0.0	0.0

CALCULATED LOAD TOTAL (KVA)	0.0
CALCULATED LOAD TOTAL (AMPS)	0.0

2155-LP-04
SCALE: N/A

Brown AND Caldwell

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL - PANEL SCHEDULES 3

90% GMP

DRAWING NO.
70-E-17

C:\bcpw\d1569745\70-E-17.dwg Jun 12, 2024 - 2:49pm

DESIGNATION: 2155-PP-07			MIN. AIC: 42k			FED FROM: MCC-2155		
LOCATION: TREATMENT BLDG ELEC RM			BUS (AMPS): 100			MOUNTING: SURFACE		
VOLTAGE: 480 3 PHASE, 3 WIRE			MAIN (AMPS): 100 MLO					
LOAD DESCRIPTION	CKT	BKR	A-KVA	B-KVA	C-KVA	CKT	BKR	LOAD DESCRIPTION
SURGE PROTECTOR	1	XX	0.0				15	SPARE
(CIRCUIT BREAKER SIZED BY MANUFACTURER)			0.0			2		
	3			0.0				
				0.0		4		
	5				0.0			
		3			0.0	6	3	
SPARE	7	15	0.0				15	SPARE
			0.0			8		
	9			0.0				
				0.0		10		
	11				0.0			
		3			0.0	12	3	
SPARE	13	15	0.0				15	SPARE
			0.0			14		
	15			0.0				
				0.0		16		
	17				0.0			
		3			0.0	18	3	
SPARE	19	15	0.0				15	SPARE
			0.0			20		
	21			0.0				
				0.0		22		
	23				0.0			
		3			0.0	24	3	
SPARE	25	15	0.0				15	SPARE
			0.0			26		
	27			0.0				
				0.0		28		
	29				0.0			
		3			0.0	30	3	
SPACE	31		-					SPACE
			-			32		
	33			-				
				-		34		
	35				-			
					-	36		
SPACE	37		-				40	2155-XFMR-01
			-			38		2155-LP-01
	39			-				
				-		40		
	41				-			
					-	42		

CALCULATED LOAD TYPE, % DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, % 100%	0.0	0.0	0.0
CONTINUOUS, TYPE "C", % 125%	0.0	0.0	0.0
LARGEST MOTOR, TYPE "LM", % 125%	0.0	0.0	0.0
-			
-			
CALCULATED LOAD TOTALS EACH PHASE	0.0	0.0	0.0

CALCULATED LOAD TOTAL (KVA)	0.0
CALCULATED LOAD TOTAL (AMPS)	0.0

2155-PP-07
SCALE: N/A

DESIGNATION: 2155-LP-01			MIN. AIC: 65K			FED FROM: 2155-PP-07		
LOCATION: TREATMENT BLDG ELEC RM			BUS (AMPS): 100			MOUNTING: G		
VOLTAGE: 208/120 3 PHASE, 4 WIRE			MAIN (AMPS): 100					
LOAD DESCRIPTION	CKT	BKR	A-KVA	B-KVA	C-KVA	CKT	BKR	LOAD DESCRIPTION
50-AIT-10131	1	15	0.5				15	35-AIT-00151
FILTER 1 TURB		1	0.5			2	1	COMBINED FILTERED WATER TURB
50-AIT-10141	3	15		0.5			15	35-FIT-00011
FILTER 1 PARTICLE COUNT		1		0.5		4	1	CLARIFIER EFFLUENT FLOW
50-LIT-10111	5	15			0.5		15	35-AIT-00023
FILTER 1 LEVEL		1			0.5	6	1	FLASH MIX COAGULATED SAMPLE SC
50-AIT-20131	7	15	0.5				15	35-FIT-00018
FILTER 2 TURB		1	0.5			8	1	COMBINED FTW AND BW FLOW
50-AIT-20141	9	15		0.5			15	35-FIT-00012
FILTER 2 PARTICLE COUNT		1		0.5		10	1	INFILTRATION GALLERY PS EFFULENT FLOW
50-LIT-20111	11	15			0.5		15	40-AIT-10004
FILTER 2 LEVEL		1			0.5	12	1	SEDIMENTATION BASIN 1A TURB
50-AIT-30131	13	15	0.5				15	40-AIT-20004
FILTER 3 TURB		1	0.5			14	1	SEDIMENTATION BASIN 2A TURB
50-AIT-30141	15	15		0.5			15	50-LIT-00016
FILTER 3 PARTICLE COUNT		1		0.5		16	1	FILTER INLET CHANNEL LEVEL
50-LIT-30111	17	15			0.5		15	70-FIT-00010
FILTER 3 LEVEL		1			0.5	18	1	CLEARWELL FLOW 1
OUTDOOR 5 TON UNIT	19	50	3.6				15	71-LIT-00016
			0.5			20	1	BACKWASH CONSTANT HEAD BOX LEVEL
	21			3.6			15	73-LIT-00014
		2		0.5		22	1	CLEARWELL PW PUMP STATION LEVEL
INDOOR UNIT	23	20					100	2155-LP-03
		1			4.8	24		LIGHTING AND RECEPTACLES
50-FIT-10010	25	15	0.5					
FILTER 1 COMBINED FILTER WATER FLOW		1	4.9			26		
50-FIT-20010	27	15		0.5				
FILTER 2 COMBINED FILTER WATER FLOW		1		4.6		28	3	
50-FIT-30010	29	15			0.5		15	84-FSL-00014
FILTER 3 COMBINED FILTER WATER FLOW		1			0.5	30	1	POLYMER RM EYEWASH SHOWER
20-FIT-00020	31	15	0.5				15	SPARE
FLASH MIX INJECTION FLOW		1	0.0			32	1	
30-FIT-10011	33	15		0.5			15	SPARE
FLOC BASIN 1 INLET CHANNEL FLOW		1		0.0		34	1	
30-FIT-20011	35	15			0.5		15	SPARE
FLOC BASIN 2 INLET CHANNEL FLOW		1			0.0	36	1	
2155-LP-03	37	100	7.6					SPACE
			-			38		
	39			8.7				SPACE
				-		40		
	41				7.6			SPACE
		3			-	42		

CALCULATED LOAD TYPE, % DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, % 100%	17.0	17.8	16.9
CONTINUOUS, TYPE "C", % 125%	4.5	4.5	0.0
LARGEST MOTOR, TYPE "LM", % 125%	0.0	0.0	0.0
-			
-			
CALCULATED LOAD TOTALS EACH PHASE	21.5	22.3	16.9

CALCULATED LOAD TOTAL (KVA)	66.9
CALCULATED LOAD TOTAL (AMPS)	185.7

2155-LP-01
SCALE: N/A

DESIGNATION: 2155-LP-03			MIN. AIC: 65K			FED FROM: 2155-LP-01		
LOCATION: TREATMENT BLDG ELEC RM			BUS (AMPS): 100			MOUNTING: SURFACE		
VOLTAGE: 208/120 3 PHASE, 4 WIRE			MAIN (AMPS): 100					
LOAD DESCRIPTION	CKT	BKR	A-KVA	B-KVA	C-KVA	CKT	BKR	LOAD DESCRIPTION
70-P-00040	1	15	0.7				15	40-COL-10010
CLEARWELL DRAIN PUMP 1		1	0.3			2	1	SOLIDS COLLECTOR 1A
70-P-00050	3	15		0.7			15	40-COL-10020
CLEARWELL DRAIN PUMP 2		1		0.3		4	1	SOLIDS COLLECTOR 1B
35-P-00040	5	15			0.3		15	40-COL-20010
TREATMENT BUILDING RECYCLE PUMP 3		1			0.3	6	1	SOLIDS COLLECTOR 2A
35-F-00020	7	15	1.5				15	40-COL-20020
HVAC FURNACE 2		1	0.3			8	1	SOLIDS COLLECTOR 2B
35-F-00040	9	15		1.5			15	70-LIT-10010
HVAC FURNACE 4		1		0.5		10	1	CLEARWELL 1 LEVEL
35-CU-00020	11	45			2.1		15	70-LIT-20010
OUTDOOR SPLIT UNIT 2					0.5	12	1	CLEARWELL 2 LEVEL
(INDOOR FED FROM OUTDOOR)	13		2.1				15	SPARE
		2	0.0			14	1	
35-CU-00040	15	35		1.6			15	SPARE
OUTDOOR SPLIT UNIT 4				0.0		16	1	
(INDOOR FED FROM OUTDOOR)	17				1.6		20	SPARE
		2			0.0	18	1	
SPARE	19	15	0.0				20	SPARE
		1	0.0			20	1	
SPARE	21	15		0.0			20	SPARE
		1		0.0		22	1	
SPARE	23	15			0.0		20	SPARE
		1			0.0	24	1	
SPARE	25	15	0.0				20	SPARE
		1	0.0			26	1	
SPARE	27	20		0.0			20	SPARE
		1		0.0		28	1	
SPARE	29	20			0.0		20	SPARE
		1			0.0	30	1	
SPARE	31	30	0.0				20	SPARE
		1	0.0			32	1	
SPARE	33	30		0.0			20	SPARE
		1		0.0		34	1	
SPARE	35	30			0.0		20	SPARE
		1			0.0	36	1	
SPACE	37		-					SPACE
			-			38		
SPACE	39			-				SPACE
				-		40		
SPACE	41				-			SPACE
					-	42		

CALCULATED LOAD TYPE, % DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, % 100%	4.9	4.6	4.8
CONTINUOUS, TYPE "C", % 125%	0.0	0.0	0.0
LARGEST MOTOR, TYPE "LM", % 125%	0.0	0.0	0.0
-			
-			
CALCULATED LOAD TOTALS EACH PHASE	4.9	4.6	4.8

CALCULATED LOAD TOTAL (KVA)	14.7
CALCULATED LOAD TOTAL (AMPS)	40.8

2155-LP-03
SCALE: N/A

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

DESIGNED BY: D.STAR
DRAWN BY: G.ALVAREZ
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL – PANEL SCHEDULES 4

90% GMP

Brown AND Caldwell

DRAWING NO.
70-E-18

C:\bcpw\d1569745\70-E-18.dwg Jun 12, 2024 – 2:51pm

EQUIPMENT DESIGNATION:	MCC 2155
LOCATION:	TREATMENT BLDG ELEC RM
VOLTAGE:	480/277 3 PHASE, 4 WIRE
MINIMUM AIC RATING:	65KAIC
BUS RATING (AMPS):	800
MAIN RATING (AMPS)	600
MAIN TYPE:	BREAKER
FED FROM:	MCC 2150

LOAD DESCRIPTION	KVA	HP	CONNECTED LOADS (KVA)		
			AΦ	BΦ	CΦ
30-P-20010 FLOC INLET CHANNEL AGITATION PUMP		7.5	3.0	3.0	3.0
50-P-00010 FILTER INLET CHANNEL AGITATION PUMP		7.5	3.0	3.0	3.0
20-P-10010 FLASH MIX PUMP 1		7.5	3.0	3.0	3.0
20-P-20010 FLASH MIX PUMP 2 - STANDBY		7.5	3.0	3.0	3.0
50-P-00110 COMBINED FILTER WATER SAMPLE PUMP		1	0.6	0.6	0.6
35-P-00010 RAW WATER SAMPLE PUMP		1	0.6	0.6	0.6
35-P-00030 PLANT WATER PUMP 3 SEQUENCING PUMP FOR PUMP 1		15	5.8	5.8	5.8
35-P-00040 PLANT WATER PUMP 4 - STANDBY		15			
84-P-00010 NEAT PEA TRANSFER/MIXING PUMP		0.5	0.3	0.3	0.3
84-P-00020 PEA FEED PUMP 1		0.75	0.4	0.4	0.4
84-P-00030 PEA FEED PUMP 2		0.75	0.4	0.4	0.4
84-P-00040 PEA FEED PUMP 3		0.75	0.4	0.4	0.4
84-P-00050 PEA FEED PUMP 4		0.75	0.4	0.4	0.4
84-P-00060 PEA FEED PUMP 5		0.75	0.4	0.4	0.4
35-P-00070 STRUCTURAL UNDERDRAIN PUMP 1		3	1.1	1.1	1.1
35-P-00080 STRUCTURAL UNDERDRAIN PUMP 2		3	1.1	1.1	1.1
35-P-00100 TREATMENT BUILDING DRAINAGE PUMP 2		1	0.6	0.6	0.6
35-P-00110 TREATMENT BUILDING DRAINAGE PUMP 3		1	0.6	0.6	0.6
35-P-00020 BACKWASH PUMP 3 NOT IN OPERATION WITH PUMP 1 OR 2		20	7.5	7.5	7.5
87-P-00040 FLOURIDE FEED PUMP 1		0.75	0.4	0.4	0.4
87-P-00050 FLOURIDE FEED PUMP 2		0.75	0.4	0.4	0.4
35-P-00050 TREATMENT BUILDING RECYCLE PUMP 1		1	0.6	0.6	0.6
35-P-00060 TREATMENT BUILDING RECYCLE PUMP 2		1	0.6	0.6	0.6
2155-PP-01 FILTER 1 PANEL	9.00		3.0	3.0	3.0
2155-PP-02 FILTER 2 PANEL	9.00		3.0	3.0	3.0
2155-PP-03 FILTER 3 PANEL	9.00		3.0	3.0	3.0
2155-PP-04 FILTER 4 PANEL	9.00		3.0	3.0	3.0
2155-PP-05 FILTER 5 PANEL	9.00		3.0	3.0	3.0
2155-PP-06 FILTER 6 PANEL	9.00		3.0	3.0	3.0
2155-PP-07 SEDIMENTATION BASINS PANEL	3.00		1.0	1.0	1.0
2155-PP-08 TREATMENT BUILDING POWER PANEL	30.00		10.0	10.0	10.0
30-MX-11010 FLOCCULATOR 1A		3	1.3	1.3	1.3
30-MX-11020 FLOCCULATOR 1B		3	1.3	1.3	1.3
30-MX-12010 FLOCCULATOR 2A		1	0.6	0.6	0.6
30-MX-12020 FLOCCULATOR 2B		1	0.6	0.6	0.6
30-MX-13010 FLOCCULATOR 3A		1	0.6	0.6	0.6
30-MX-13020 FLOCCULATOR 3B		1	0.6	0.6	0.6
30-MX-21010 FLOCCULATOR 4A		3	1.3	1.3	1.3
30-MX-21020 FLOCCULATOR 4B		3	1.3	1.3	1.3
30-MX-22010 FLOCCULATOR 5A		1	0.6	0.6	0.6
30-MX-22020 FLOCCULATOR 5B		1	0.6	0.6	0.6
30-MX-23010 FLOCCULATOR 6A		1	0.6	0.6	0.6
30-MX-23020 FLOCCULATOR 6B		1	0.6	0.6	0.6
35-EF-00010		5	2.1	2.1	2.1
35-EF-00020		5	2.1	2.1	2.1
35-MAU-00010		15	5.8	5.8	5.8
87-MAU-00010		1	0.6	0.6	0.6

CALCULATED LOAD TYPE, X DEMAND FACTOR, AND CALCULATED LOADS (KVA)			
NONCONTINUOUS OR OTHER SCHEDULE, X 100%	73.3	73.3	73.3
CONTINUOUS, TYPE 'C', X 125%	0.0	0.0	0.0
LARGEST MOTOR, TYPE 'LM', X 125%	9.3	9.3	9.3
NONCOINCIDENT, TYPE 'NC', X 0%	0.0	0.0	0.0
CALCULATED LOAD TOTALS EACH PHASE	82.6	82.6	82.6

CALCULATED LOAD TOTAL (KVA)	247.9
CALCULATED TOTAL LOAD TOTAL (AMPS)	298.2

MCC-2155
SCALE: N/A

Brown AND Caldwell

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

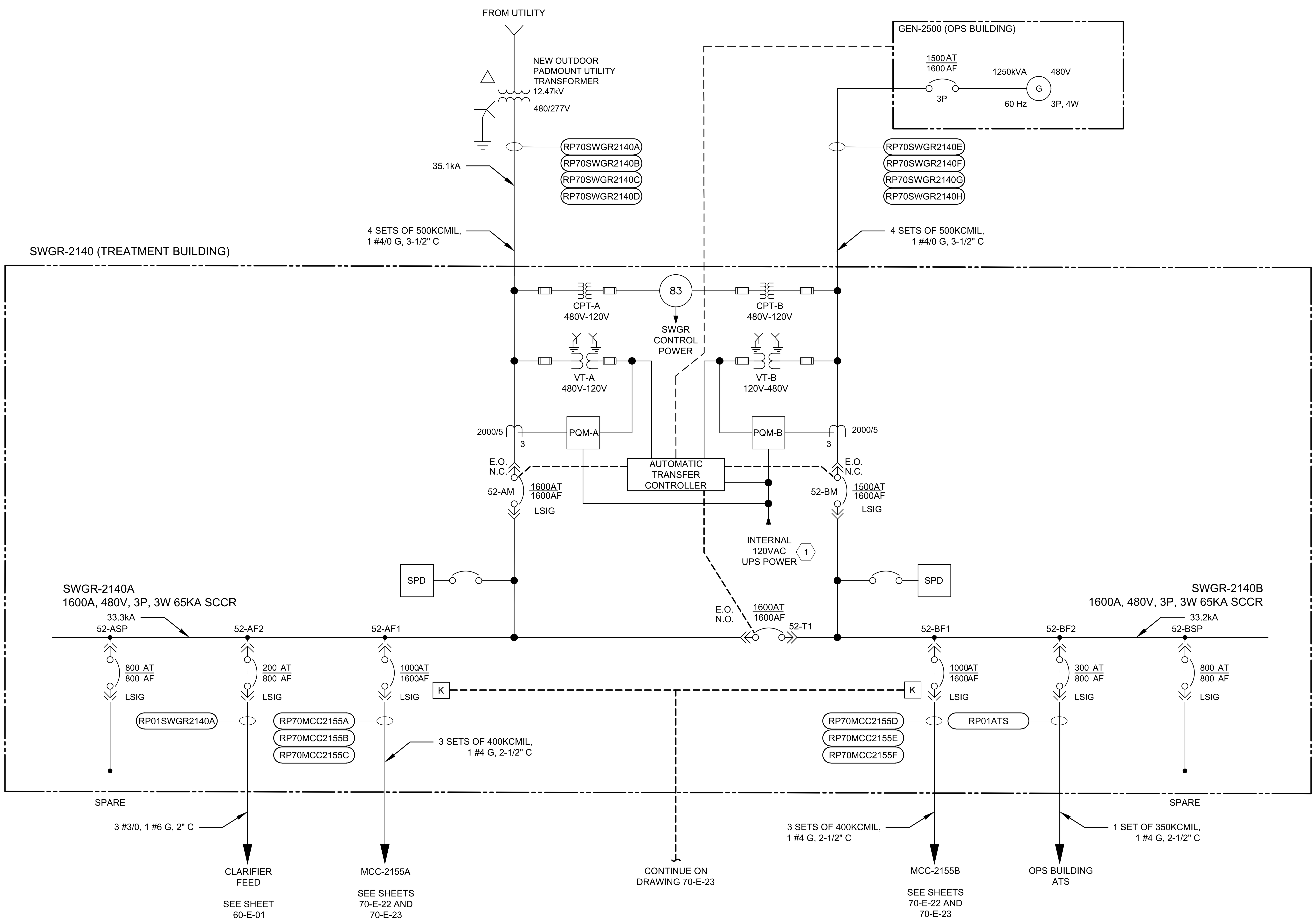
SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL - MCC SCHEDULE 1

90% GMP

DRAWING NO.
70-E-20

C:\bcpw\d1569745\70-E-20.dwg Jun 12, 2024 - 2:52pm



SHEET NOTES

GENERAL NOTES:

1. PROVIDE TRANSFORMER PRIMARY CONDUITS TO THE LOCATION DESIGNATED BY THE ELECTRIC UTILITY (ROCKY MOUNTAIN POWER). TRANSFORMER PRIMARY CONDUCTORS, FUSES, AND ASSOCIATED EQUIPMENT PROVIDED BY ROCKY MOUNTAIN POWER.
2. PROVIDE PROVISIONS FOR ROCKY MOUNTAIN POWER TRANSFORMER, INCLUDING SITE PREP, CONCRETE PAD, AND GROUNDING, IN ACCORDANCE WITH ROCKY MOUNTAIN POWER SERVICE INSTALLATION GUIDELINES AND PROJECT–SPECIFIC REQUIREMENTS. TRANSFORMER PROVIDED BY ROCKY MOUNTAIN POWER.
3. PROVIDE INSTRUMENT TRANSFORMER/METERING CABINET, INCLUDING SITE PREP, CONCRETE PAD, AND GROUNDING, IN ACCORDANCE WITH ROCKY MOUNTAIN POWER SERVICE INSTALLATION GUIDELINES AND PROJECT–SPECIFIC REQUIREMENTS. INSTRUMENT TRANSFORMERS AND METER PROVIDED BY ROCKY MOUNTAIN POWER.
4. PROVIDE MECHANICAL KEY INTERLOCK BETWEEN 52–T1 AND 52–T2 (MCC–2155 TIE BREAKER) SUCH THAT ONLY TWO OF THE THREE BREAKERS CAN BE CLOSED AT A TIME.

KEYNOTES:

1. 120VAC UPS TO BE PROVIDED BY SWITCHGEAR MANUFACTURER PER SPECIFICATION 26 23 00.

Brown AND Caldwell

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
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SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL – SWITCHGEAR ONE–LINE 1

90% GMP

DRAWING NO.
70–E–21

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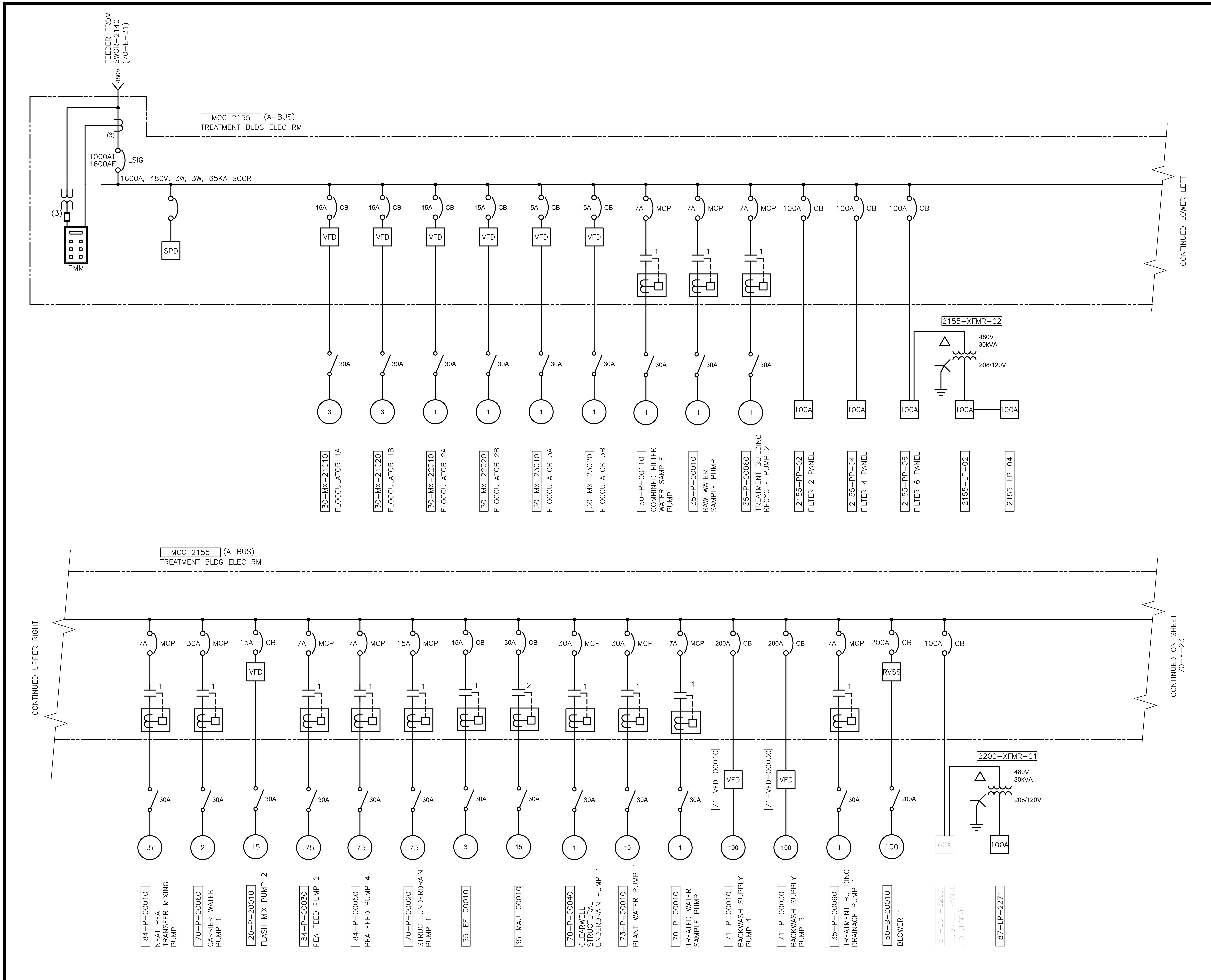

SHEET NOTES

GENERAL NOTES:

1. ALL SETTINGS SHALL BE CONFIRMED WITH SHORT CIRCUIT AND COORDINATION STUDY.

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL - MCC ONE-LINE 1

Brown AND Caldwell

90% GMP

DRAWING NO.
70-E-22

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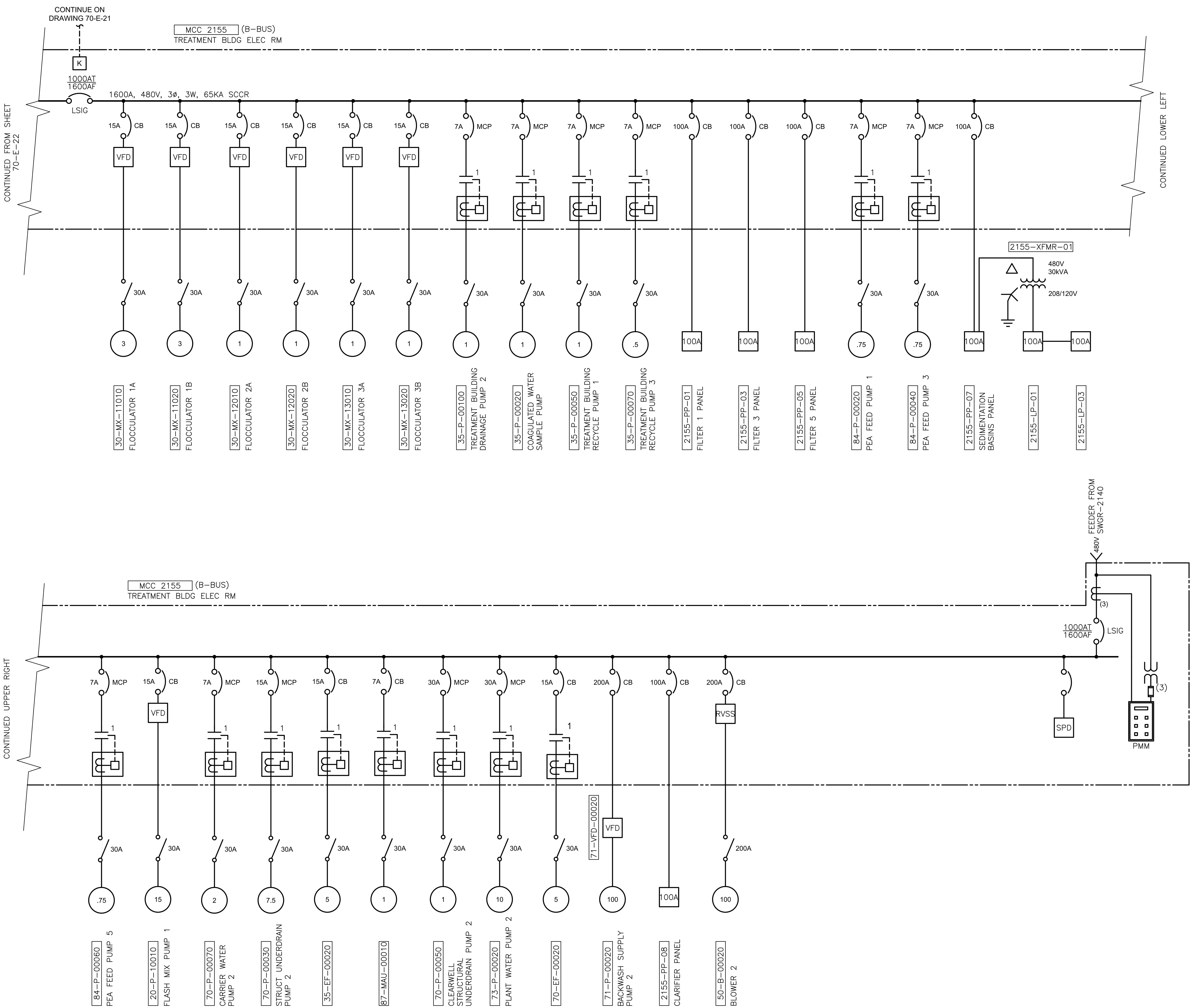

SHEET NOTES

GENERAL NOTES:

1. ALL SETTINGS SHALL BE CONFIRMED WITH SHORT CIRCUIT AND COORDINATION STUDY.
2. PROVIDE MECHANICAL KEY INTERLOCK BETWEEN 52–T1 AND 52–T2 MCC 2155 TIE BREAKER SUCH THAT ONLY TWO OF THE THREE BREAKERS CAN BE CLOSED AT A TIME.

Brown AND Caldwell

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

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DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO.: --
ACCOUNT NO.: 512260079

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL - MCC ONE-LINE 2

90% GMP

DRAWING NO.
70–E–23

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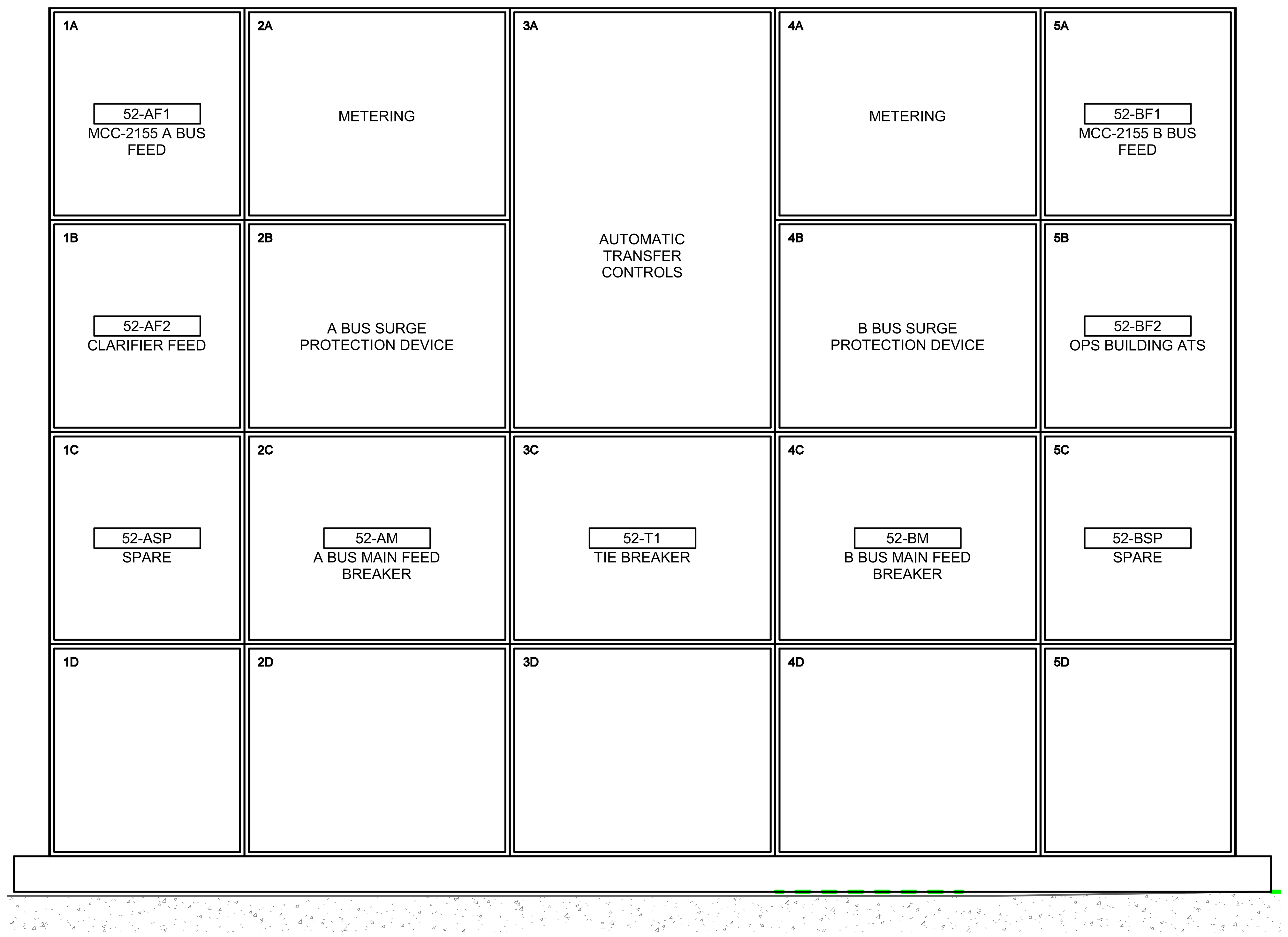

1 70-E-10 SWGR 2140 ELEVATION
SCALE: 1" = 1'-0"

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: G.ALVAREZ
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:	REVISIONS	MADE BY	AUTH BY
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SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

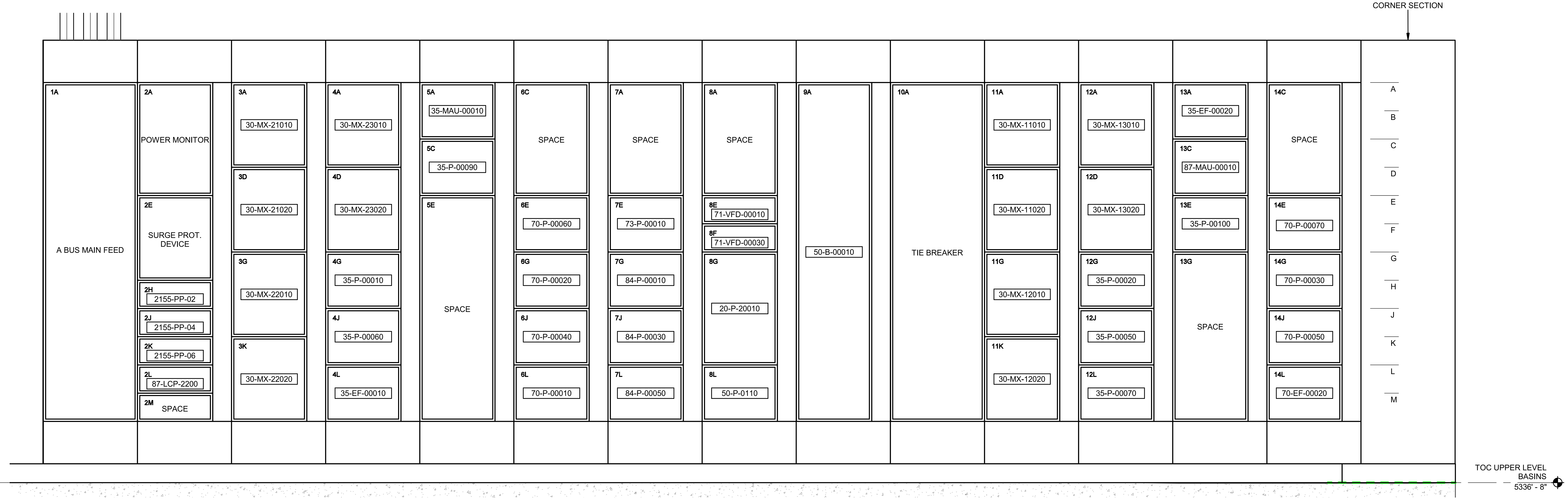
CLEARWELL - SWITCHGEAR ELEVATION 1

90% GMP

Brown AND Caldwell

DRAWING NO.
70-E-24

Plot Date:6/12/2024 3:58:50 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570V21.rvt



MCC-2155 WEST WALL ELEVATION

1
70-E-10
SCALE: 1" = 1'-0"

MCC-2155 WEST Schedule

BUCKET LOCATION	EQUIPMENT NUMBER	EQUIPMENT NAME
1A	MAIN A	A BUS MAIN FEED
2A	PMM-A	POWER MONITOR
2E	SPD-A	SURGE PROT. DEVICE
2H	2155-PP-02	FILTER 2 PANEL
2J	2155-PP-04	FILTER 4 PANEL
2K	2155-PP-06	FILTER 6 PANEL
2L	87-LCP-2200	FLUORIDE PANEL (EXISTING)
2M		SPACE
3A	30-MX-21010	FLOCCULATOR 1A
3D	30-MX-21020	FLOCCULATOR 1B
3G	30-MX-22010	FLOCCULATOR 2A
3K	30-MX-22020	FLOCCULATOR 2B
4A	30-MX-23010	FLOCCULATOR 3A
4D	30-MX-23020	FLOCCULATOR 3B
4G	35-P-00010	RAW WATER SAMPLE PUMP
4J	35-P-00060	TREATMENT BUILDING RECYCLE PUMP 2
4L	35-EF-00010	EXHAUST FAN
5A	35-MAU-00010	
5C	35-P-00090	TREATMENT BUILDING DRAINAGE PUMP 1
5E		SPACE
6C		SPACE
6E	70-P-00060	CARRIER WATER PUMP 1
6G	70-P-00020	STRUCT UNDERDRAIN PUMP 1
6J	70-P-00040	CLEARWELL STRUCTURAL UNDERDRAIN PUMP 1
6L	70-P-00010	TREATED WATER SAMPLE PUMP
7A		SPACE
7E	73-P-00010	PLANT WATER PUMP 1
7G	84-P-00010	NEAT PEA TRANSFER MIXING PUMP
7J	84-P-00030	PEA FEED PUMP 2
7L	84-P-00050	PEA FEED PUMP 4

MCC-2155 WEST Schedule

BUCKET LOCATION	EQUIPMENT NUMBER	EQUIPMENT NAME
8A		SPACE
8E	71-VFD-00010	BACKWASH SUPPLY PUMP 1
8F	71-VFD-00030	BACKWASH SUPPLY PUMP 3
8G	20-P-20010	FLASH MIX PUMP 2
8L	50-P-0110	COMBINED FILTER WATER SAMPLE PUMP
9A	50-B-00010	BLOWER 1
10A		TIE BREAKER
11A	30-MX-11010	FLOCCULATOR 1A
11D	30-MX-11020	FLOCCULATOR 1B
11G	30-MX-12010	FLOCCULATOR 2A
11K	30-MX-12020	FLOCCULATOR 2B
12A	30-MX-13010	FLOCCULATOR 3A
12D	30-MX-13020	FLOCCULATOR 3B
12G	35-P-00020	COAGULATED WATER SAMPLE PUMP
12J	35-P-00050	TREATMENT BUILDING RECYCLE PUMP 1
12L	35-P-00070	TREATMENT BUILDING RECYCLE PUMP 3
13A	35-EF-00020	EXHAUST FAN
13C	87-MAU-00010	
13E	35-P-00100	TREATMENT BUILDING DRAINAGE PUMP 2
13G		SPACE
14C		SPACE
14E	70-P-00070	CARRIER WATER PUMP 2
14G	70-P-00030	STRUCT UNDERDRAIN PUMP 2
14J	70-P-00050	CLEARWELL STRUCTURAL UNDERDRAIN PUMP 2
14L	70-EF-00020	EXHAUST FAN

Plot Date:6/12/2024 3:58:51 PM Path: BIM 360://153020 - City Creek WTP/153020-E-3570W21.rvt

Brown AND Caldwell

SCALE:
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

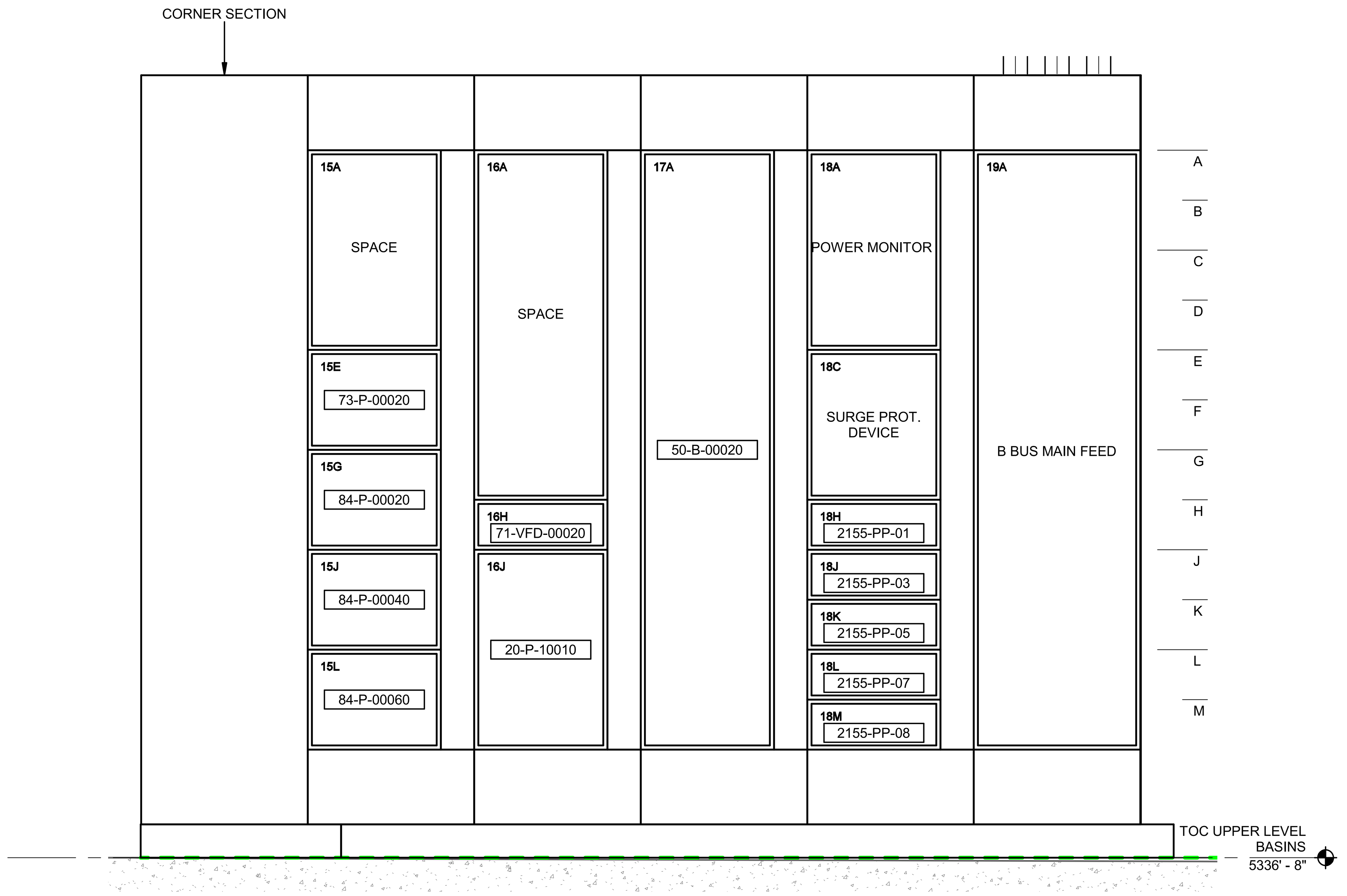
NO.	DATE		MADE BY	AUTH BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

CLEARWELL - MCC
ELEVATION 1

90% GMP

DRAWING NO.
70-E-25



1 MCC-2155 NORTH WALL ELEVATION

70-E-10 SCALE: 1" = 1'-0"

MCC-2155 NORTH Schedule		
BUCKET LOCATION	EQUIPMENT NUMBER	EQUIPMENT NAME
15A		SPACE
15E	73-P-00020	PLANT WATER PUMP 2
15G	84-P-00020	PEA FEED PUMP 1
15J	84-P-00040	PEA FEED PUMP 3
15L	84-P-00060	PEA FEED PUMP 5
16A		SPACE
16H	71-VFD-00020	BACKWASH SUPPLY PUMP 2
16J	20-P-10010	FLASH MIX PUMP 1
17A	50-B-00020	BLOWER 2
18A	PMM-B	POWER MONITOR
18C	SPD-B	SURGE PROT. DEVICE
18H	2155-PP-01	FILTER 1 PANEL
18J	2155-PP-03	FILTER 3 PANEL
18K	2155-PP-05	FILTER 5 PANEL
18L	2155-PP-07	SEDIMENTATION BASINS PANEL
18M	2155-PP-08	CLARIFIER PANEL
19A	MAIN B	B BUS MAIN FEED

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: N.ANDERSON
DRAWN BY: N.ANDERSON
CHECKED BY: D.STAR
APPROVED BY: D.STAR
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE:		MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

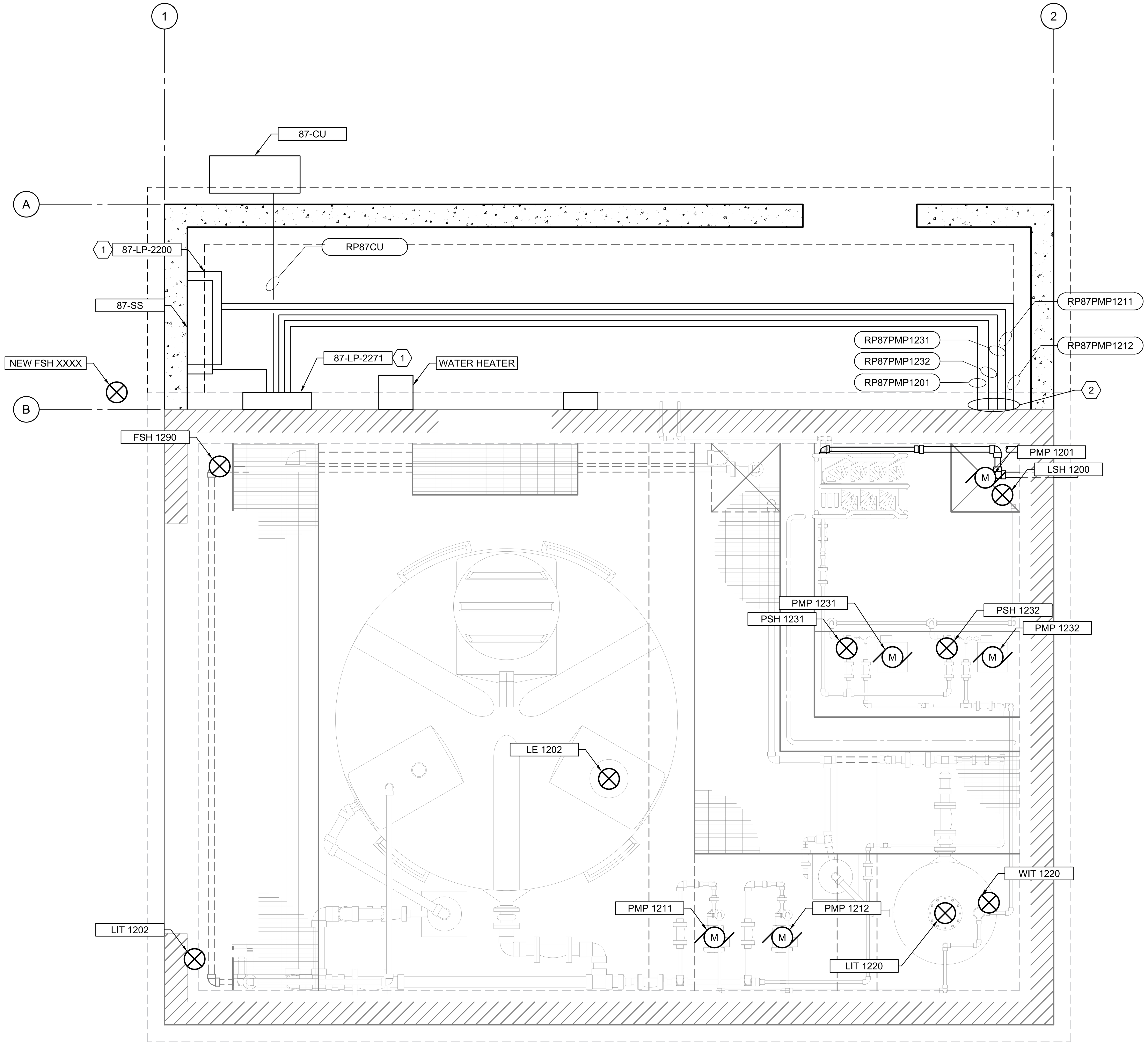
CLEARWELL – MCC
ELEVATION 2

90% GMP

Brown AND Caldwell

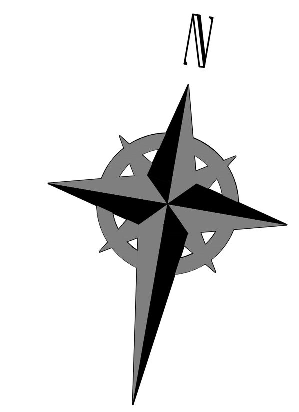
DRAWING NO.
70-E-26

Plot Date:6/12/2024 3:58:52 PM Path: BIM 360://153020 – City Creek WTP/153020-E-3570V21.rvt



PLAN

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



KEY NOTES

1. EXISTING PANEL RELOCATED FROM PIPE GALLERY.
2. INTERCEPT EXISTING CONDUIT AND CONDUCTORS FROM EXISTING FLUORIDE BUILDING AND REROUTE TO RELOCATED PANELS 87-LCP-2200 AND LP 2271.

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: G.ALVAREZ
CHECKED BY: D.STAR
APPROVED BY: M.PAGENDARM
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

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SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

FLUORIDE - FLOOR ELECTRICAL PLAN

90% GMP

Brown AND Caldwell

DRAWING NO.

87-E-01

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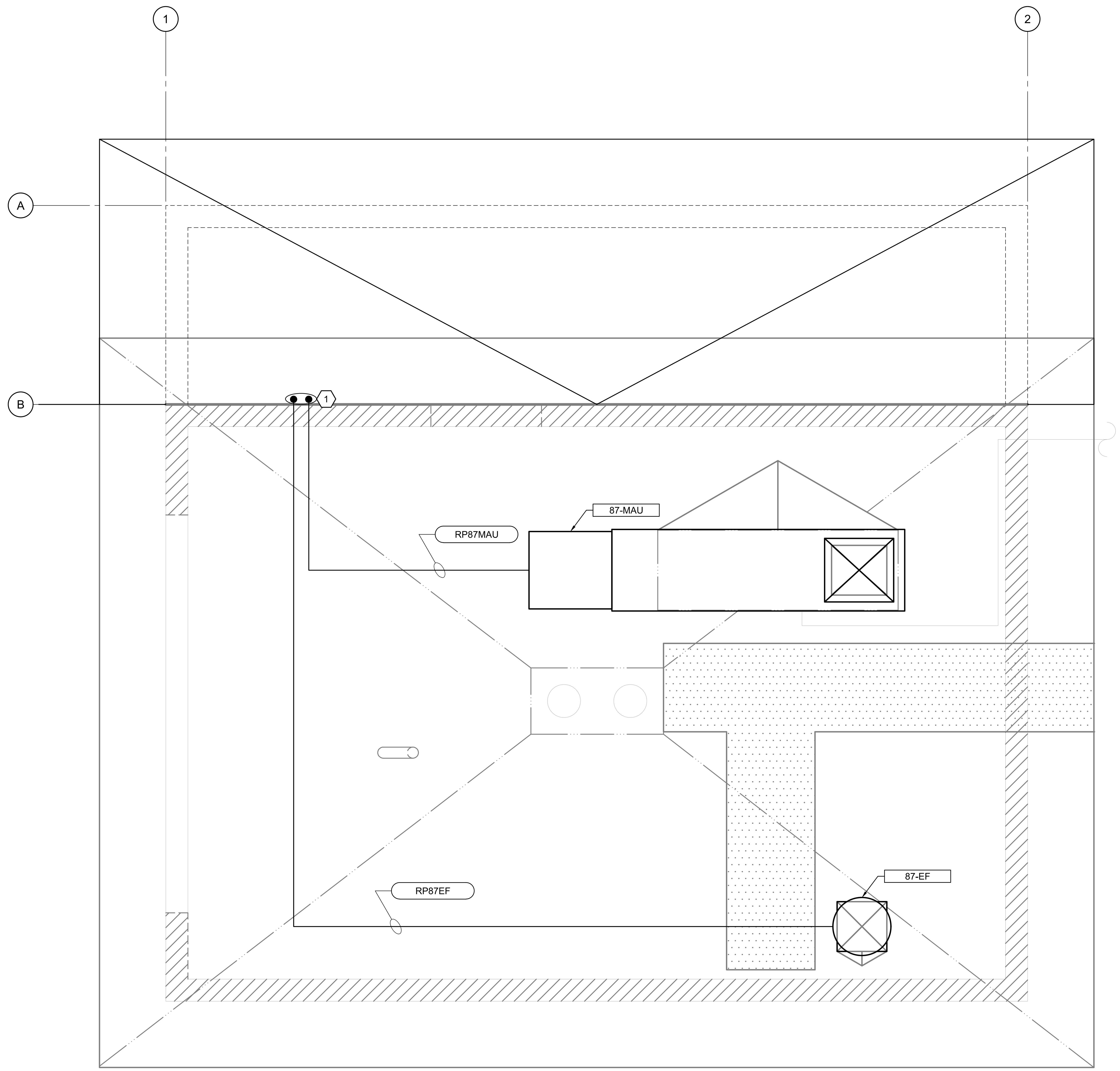

1 FLUORIDE - ROOF PLAN
SCALE: 1/2" = 1'-0"

KEY NOTES

1 RUN CONDUIT AND CONDUCTORS THROUGH ROOF TO GROUND LEVEL TO CONNECT TO PANEL 87-LP-2271

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: G.ALVAREZ
CHECKED BY: D.STAR
APPROVED BY: M.PAGENDARM
DATE: JUNE 2024
EWO NO: ---
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES
CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

FLUORIDE - ROOF ELECTRICAL PLAN

90% GMP

Brown AND Caldwell

DRAWING NO.
87-E-03

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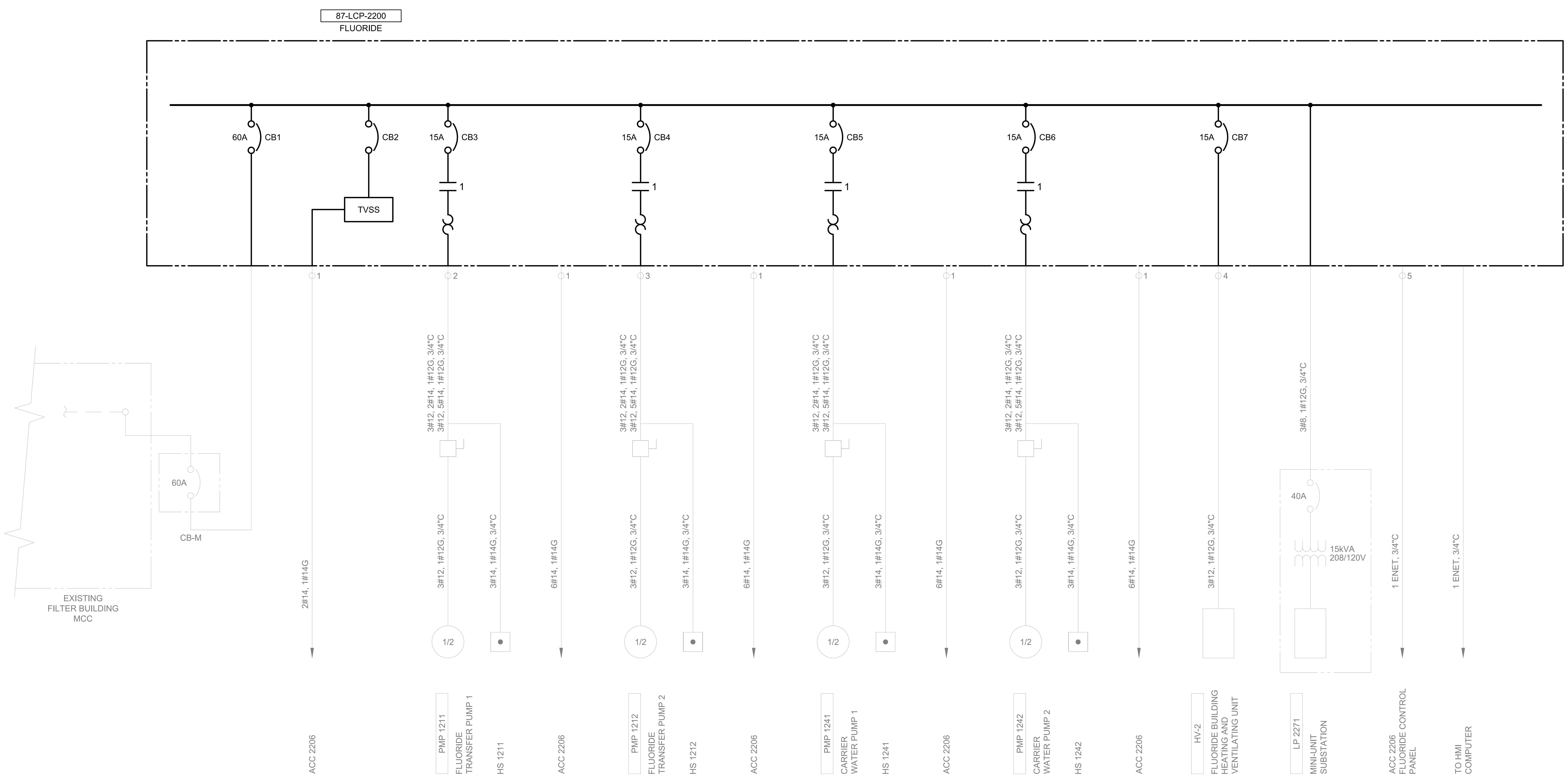

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Brown AND Caldwell

SCALE:

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: A.LAPIERRE
CHECKED BY: D.STAR
APPROVED BY: M.PAGENDARM
DATE: JUNE 2024
EWO NO: --
ACCOUNT NO: 512260079

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SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

FLUORIDE – ONE-LINE DIAGRAM

90% GMP

DRAWING NO.
87-E-10

PANEL SCHEDULE									
DESIGNATION:	87-LP-2271		**MIN. AIC:**	22K			**FED FROM:**	87-LCP-2200	
LOCATION:	FLUORIDE BUILDING		**BUS (AMPS):**	100			**MOUNTING:**	SURFACE	
VOLTAGE:	208/120 3 PHASE, 4 WIRE		**MAIN (AMPS):**	100					
LOAD DESCRIPTION	**CKT**	**BKR**	**A-KVA**	**B-KVA**	**C-KVA**	**CKT**	**BKR**	**LOAD DESCRIPTION**	
EXISTING LCP 2200 UPS POWER	1	20	0.63				15	EXISTING FLUORIDE BUILDING LIGHTING	
		1	0.27			**2**	1		
EXISTING LCP2200 UTILITY POWER	**3**	20		1.25			15	EXISTING FLUORIDE BUILDING LIGHTING	
		1		0.27		**4**	1		
EXISTING PMP 1231	**5**	15			0.13		20	EXISTING FLUORIDE BUILDING RECEPTACLES	
FLUORIDE FEED PUMP 1		1			0.36	**6**	1		
EXISTING PMP 1232	**7**	15	0.13				20	EXISTING FLUORIDE BUILDING RECEPTACLES	
FLUORIDE FEED PUMP 2		1	0.36			**8**	1		
87-MAU-XXXX	**9**	15		0.00			15	EXISTING FLUORIDE BUILDING EF-3	
				0.84		**10**	1		
	11				0.00		20	EXISTING PMP 1201	
					0.83	**12**	1	FLUORIDE SUMP PUMP	
	13		0.00				15	87-EF-XXXX	
		3	0.00			**14**	1		
87-CU-XXXX	**9**	25		0.00			15	87-SS-XXXX	
				0.00		**16**			
	11				0.00				
					0.00	**18**			
	13		0.00						
		3	0.00			**20**	3		
SPARE	**21**	15		0.00			20	SPARE	
		1		0.00		**22**	1		
SPARE	**23**	15			0.00		20	SPARE	
		1			0.00	**24**	1		
SPARE	**25**	15	0.00				20	SPARE	
		1	0.00			**26**	1		
SPARE	**27**	20		0.00			20	SPARE	
		1		0.00		**28**	1		
SPARE	**29**	20			0.00		20	SPARE	
		1			0.0	**30**	1		
SPARE	**31**	30	0.0				20	SPARE	
		1	0.0			**32**	1		
SPARE	**33**	30		0.0			20	SPARE	
		1		0.0		**34**	1		
SPARE	**35**	30			0.0		20	SPARE	
		1			0.0	**36**	1		
SPACE	**37**		-					SPACE	
			-			**38**			
SPACE	**39**			-				SPACE	
				-		**40**			
SPACE	**41**				-			SPACE	
					-	**42**			

SCALE:

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGNED BY: D.STAR
DRAWN BY: A.LAPIERRE
CHECKED BY: D.STAR
APPROVED BY: M.PAGENDARM
DATE: JUNE 2024
EWO NO: ---
ACCOUNT NO: 512260079

REVISIONS

NO.	DATE	REVISIONS	MADE BY	AUTH. BY
0	06/14/24	ISSUED FOR GUARANTEE MAXIMUM PRICE (GMP)	DS	DS

SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

CITY CREEK TREATMENT PLANT UPGRADES
BRIC PACKAGE

FLUORIDE – PANEL SCHEDULE

90% GMP

Brown AND Caldwell

DRAWING NO.
87-E-11

C:\bcpw\d1569745\87-E-11.dwg Jun 12, 2024 - 3:23pm