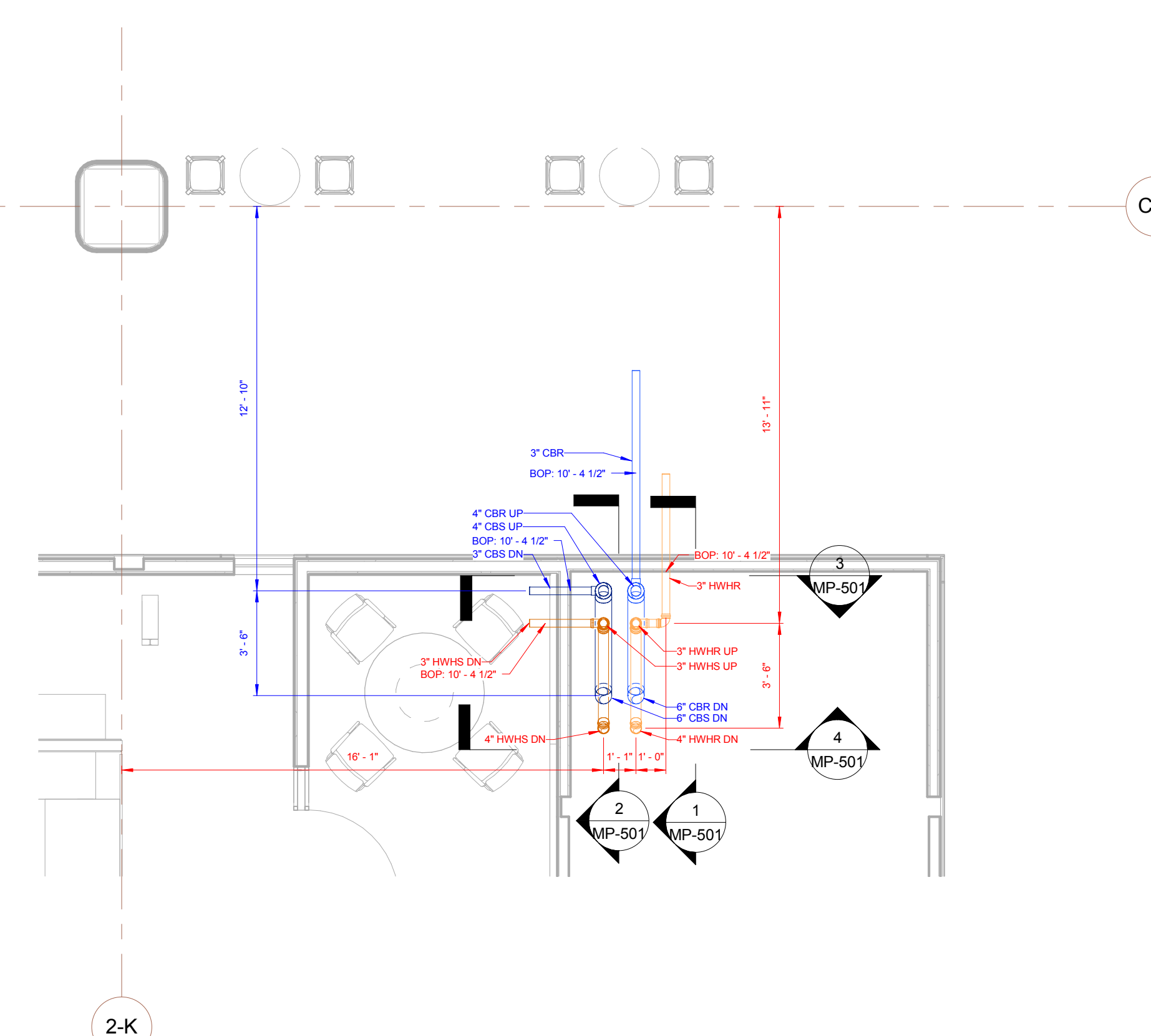
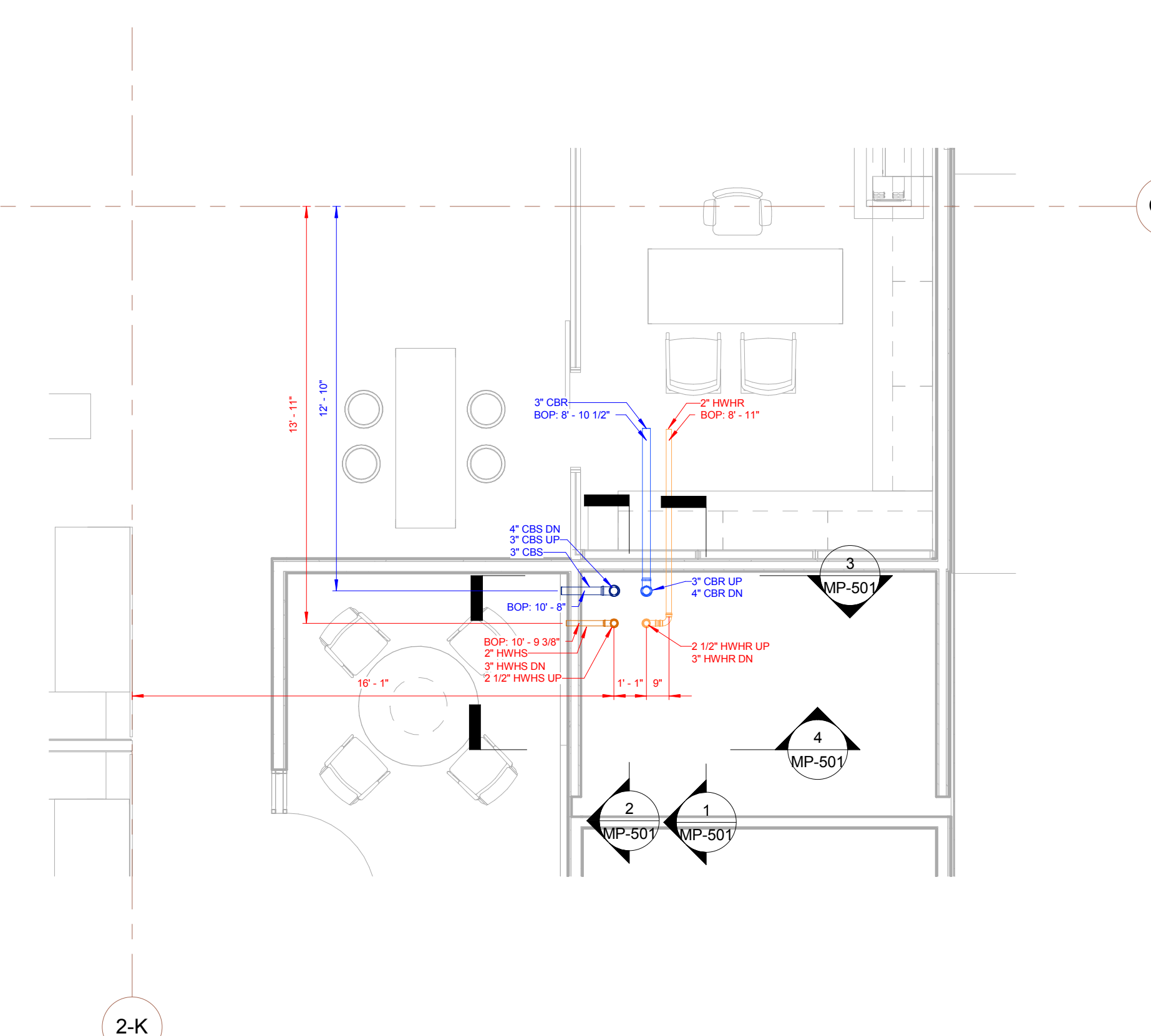


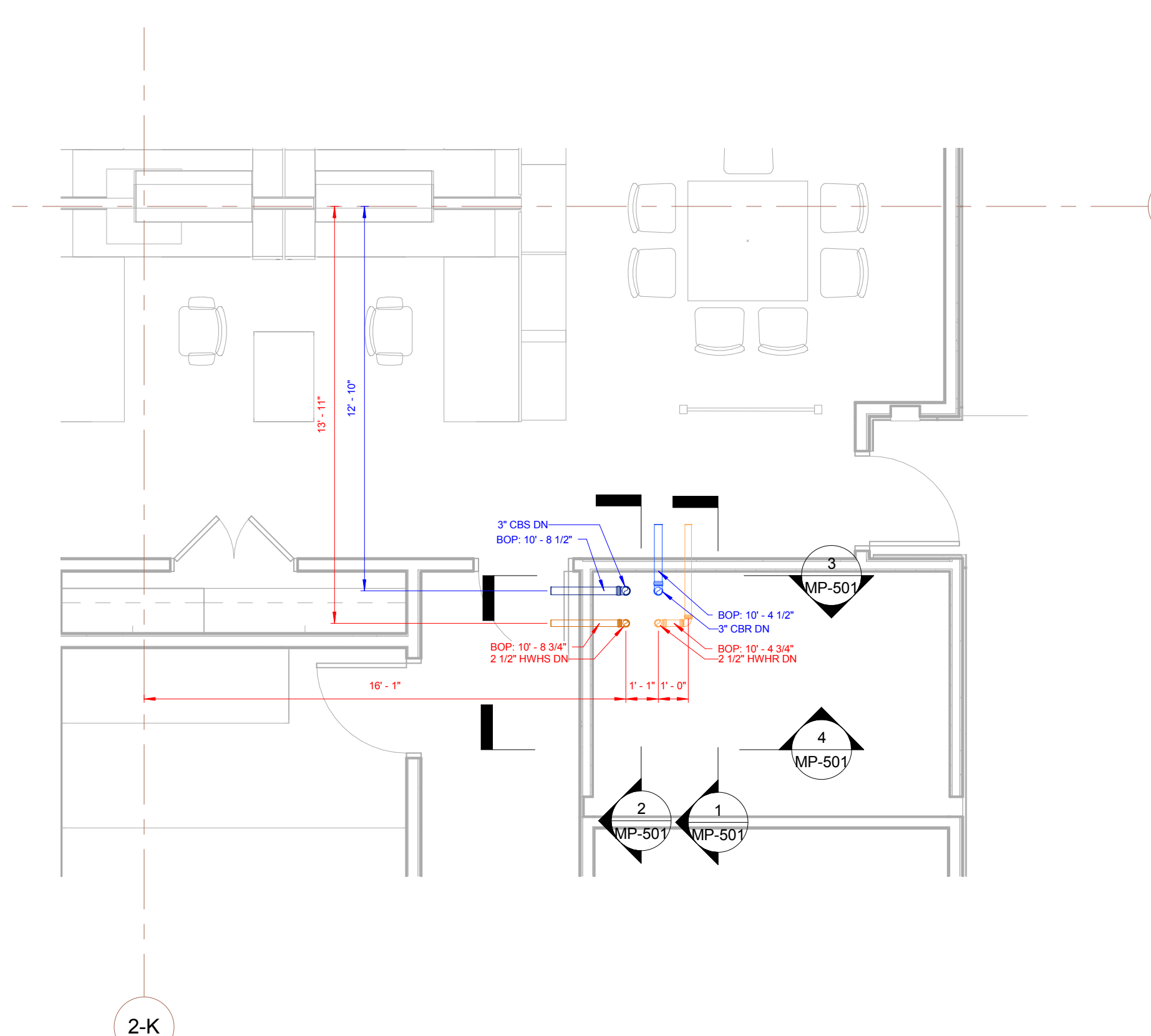
KRESGE FIRST FLOOR SHAFT PLAN
SCALE: 1/4" = 1'-0"
NORTH



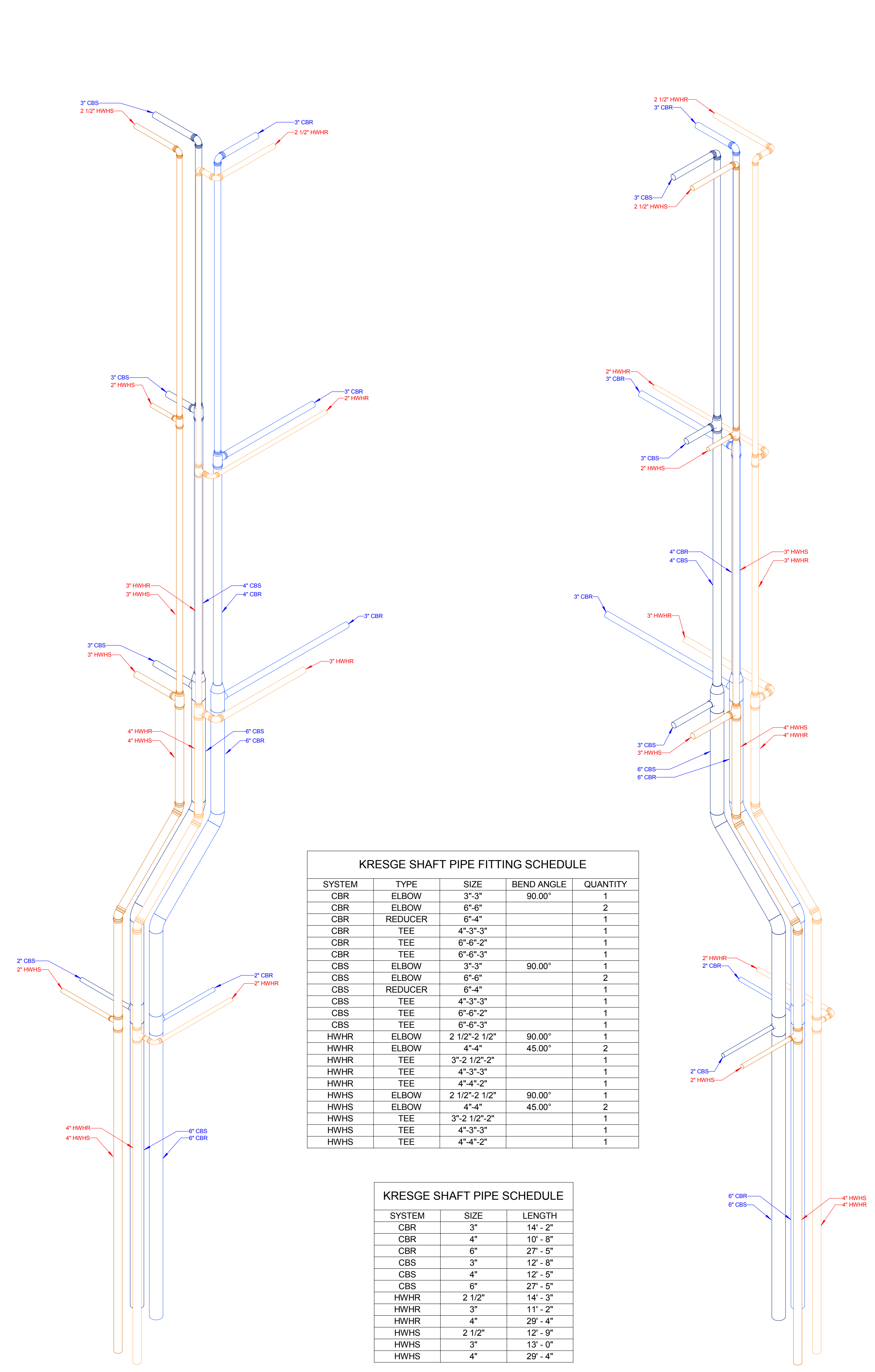
KRESGE SECOND FLOOR SHAFT PLAN
SCALE: 1/4" = 1'-0"
NORTH



KRESGE THIRD FLOOR SHAFT PLAN
SCALE: 1/4" = 1'-0"
NORTH



KRESGE FOURTH FLOOR SHAFT PLAN
SCALE: 1/4" = 1'-0"
NORTH

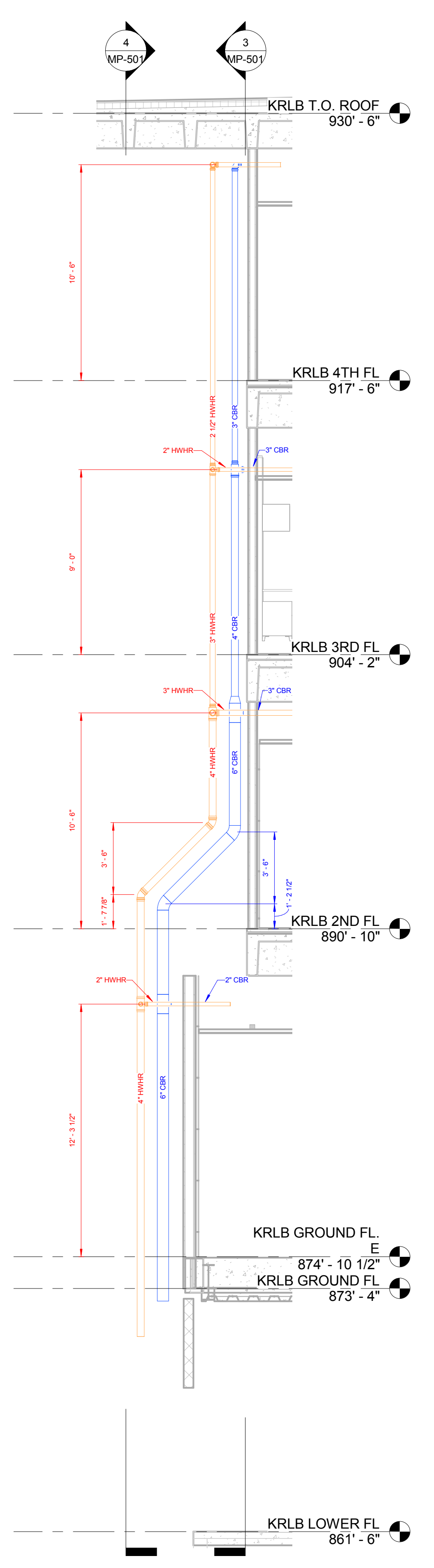


KRESGE SHAFT PIPE FITTING SCHEDULE

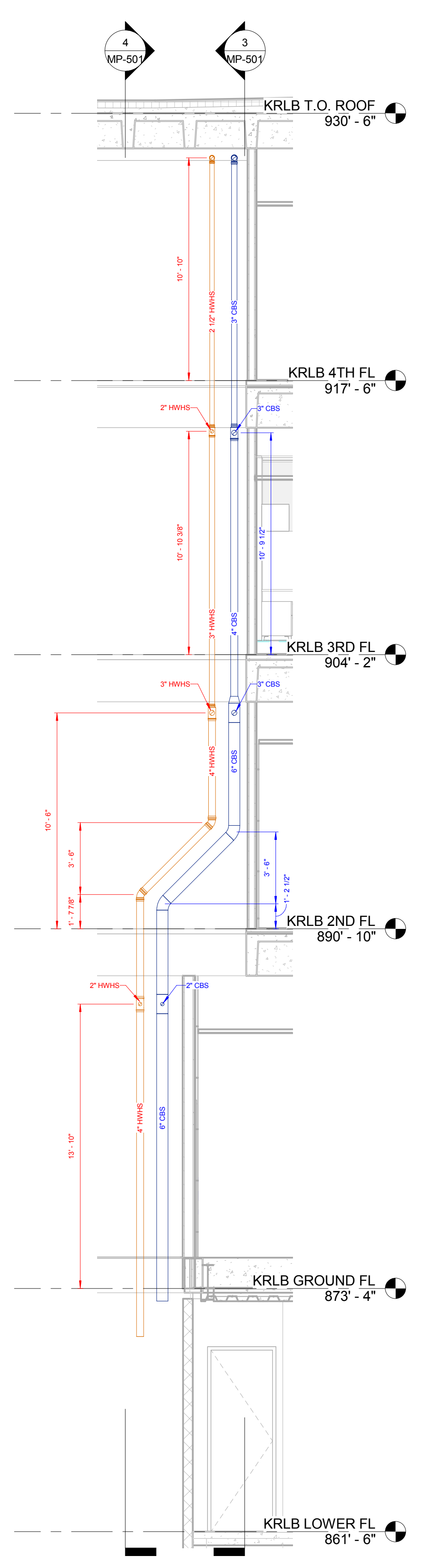
| SYSTEM | TYPE | SIZE | BEND ANGLE | QUANTITY |
|--------|---------|-----------------|------------|----------|
| CBR | ELBOW | 3'-3" | 90.00° | 1 |
| CBR | ELBOW | 6'-6" | 90.00° | 2 |
| CBR | REDUCER | 6'-4" | | 1 |
| CBR | TEE | 4'-3'-3" | | 1 |
| CBR | TEE | 6'-6'-2" | | 1 |
| CBR | TEE | 6'-6'-3" | 90.00° | 1 |
| CBS | ELBOW | 3'-3" | | 1 |
| CBS | ELBOW | 6'-6" | | 2 |
| CBS | REDUCER | 6'-4" | | 1 |
| CBS | TEE | 4'-3'-3" | | 1 |
| CBS | TEE | 6'-6'-2" | | 1 |
| CBS | TEE | 6'-6'-3" | 90.00° | 1 |
| HWHR | ELBOW | 2'-1/2'-2'-1/2" | 90.00° | 1 |
| HWHR | ELBOW | 4'-4" | 45.00° | 2 |
| HWHR | TEE | 3'-2'-1/2'-2" | | 1 |
| HWHR | TEE | 4'-3'-3" | | 1 |
| HWHR | TEE | 4'-4'-2" | | 1 |
| HWHS | ELBOW | 2'-1/2'-2'-1/2" | 90.00° | 1 |
| HWHS | ELBOW | 4'-4" | 45.00° | 2 |
| HWHS | TEE | 3'-2'-1/2'-2" | | 1 |
| HWHS | TEE | 4'-3'-3" | | 1 |
| HWHS | TEE | 4'-4'-2" | | 1 |

KRESGE SHAFT PIPE SCHEDULE

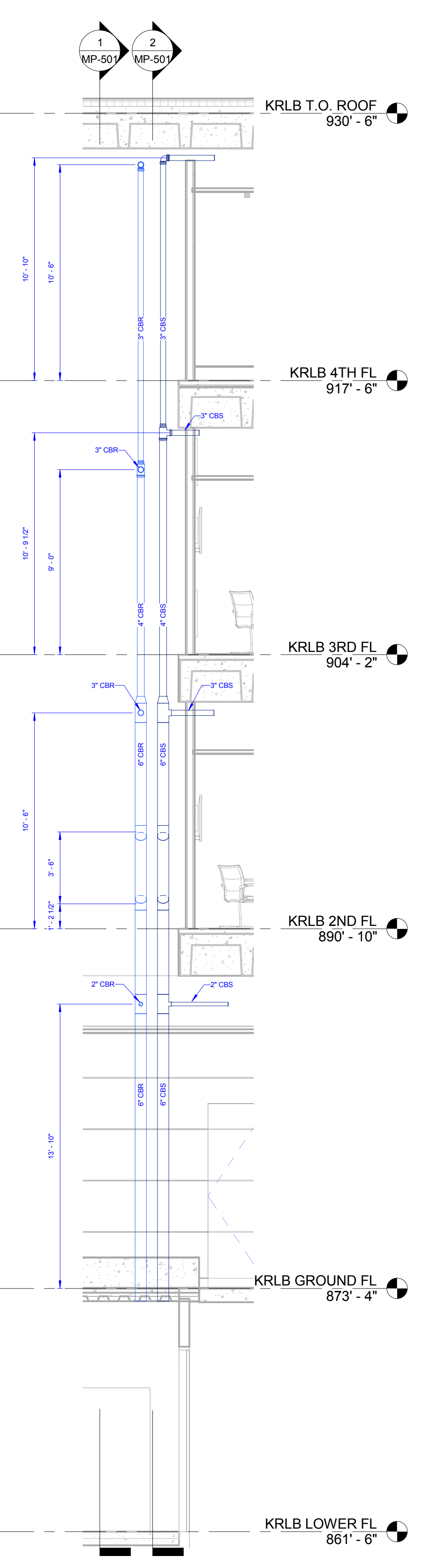
| SYSTEM | SIZE | LENGTH |
|--------|---------|--------|
| CBR | 3" | 14'-2" |
| CBR | 6" | 10'-8" |
| CBR | 6" | 27'-0" |
| CBS | 3" | 12'-8" |
| CBS | 6" | 12'-5" |
| CBS | 6" | 27'-0" |
| HWHR | 2'-1/2" | 14'-3" |
| HWHR | 3" | 11'-2" |
| HWHR | 4" | 29'-4" |
| HWHS | 2'-1/2" | 12'-6" |
| HWHS | 3" | 13'-0" |
| HWHS | 4" | 29'-4" |



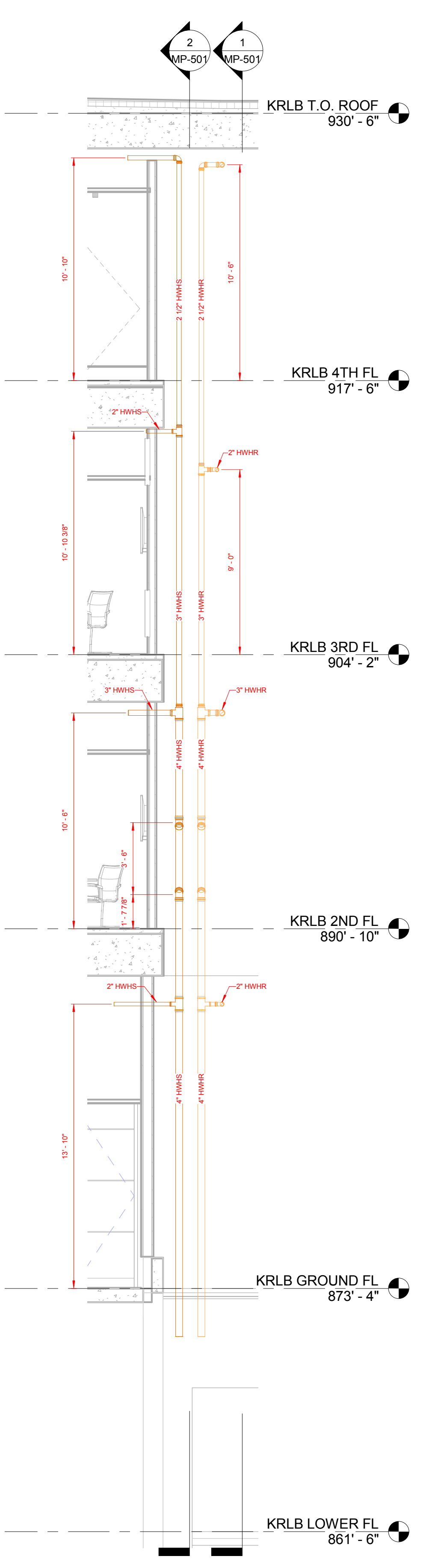
1 KRESGE SHAFT SECTION 1
SCALE: 1/4" = 1'-0"
MP-501



2 KRESGE SHAFT SECTION 2
SCALE: 1/4" = 1'-0"
MP-501



3 KRESGE SHAFT SECTION 3
SCALE: 1/4" = 1'-0"
MP-501



4 KRESGE SHAFT SECTION 4
SCALE: 1/4" = 1'-0"
MP-501

KRESGE SHAFT NORTHWEST ISOMETRIC

KRESGE SHAFT NORTHEAST ISOMETRIC

| NO. | DESCRIPTION | DATE | APPROV. |
|-----|--------------|----------|---------|
| 1 | FOR APPROVAL | 04-20-15 | |

DETAILED BY:
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Phone: (586) 825-3910
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FILE NO. 2015-012_UM-Ross-SOB_MP15_Central.rvt
DATE PLOTTED: 04/20/15

UNIVERSITY OF MICHIGAN
STEPHEN M. ROSS SCHOOL OF BUSINESS
KRESGE RENOVATION & NEW ACADEMIC BUILDING
KRESGE SHAFT PLAN

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CONTRACT NO.
MP-501