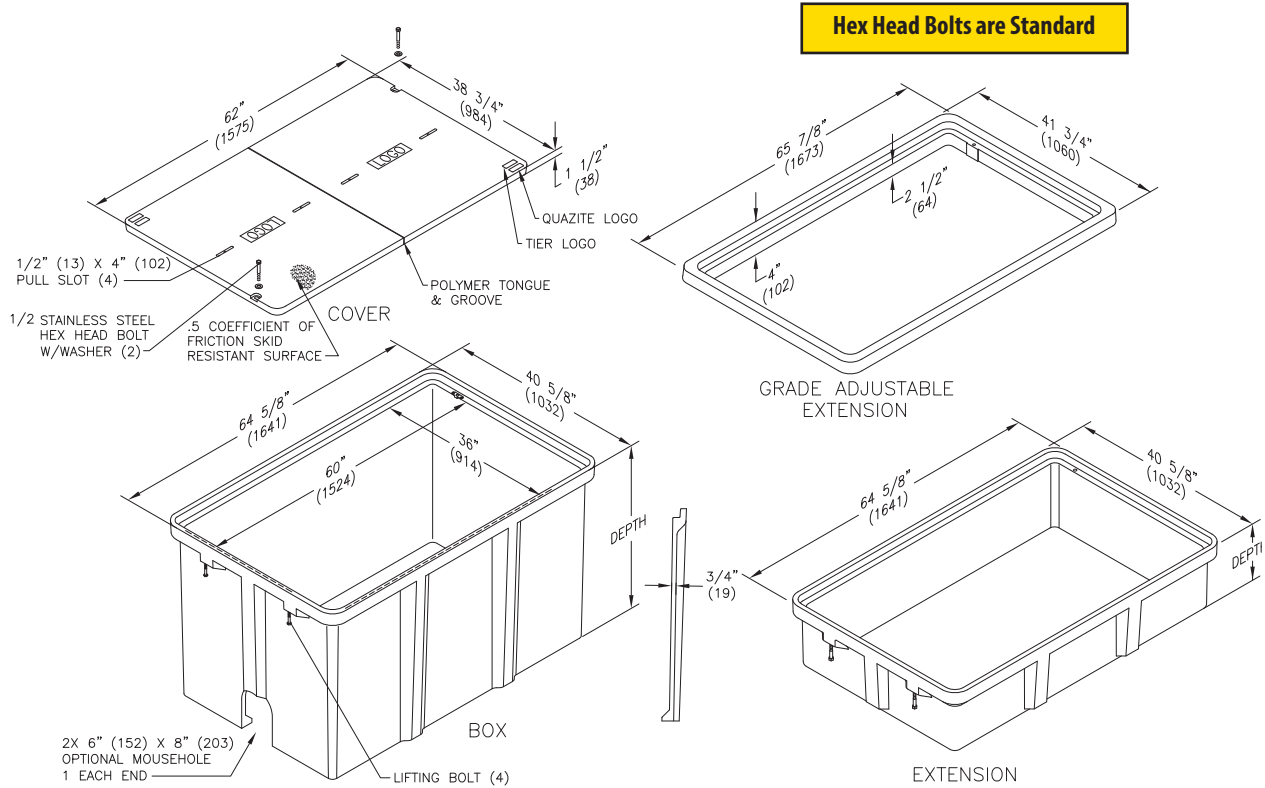


# 36" x 60" PG Style Polymer Concrete (Stackable) Assembly

Dimensions / Data



## Covers

DESCRIPTION	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
Lightweight 2 Bolts	5	5,000 / 7,500	222	10	LG3660CA00**
W/ 2 Bolts	15	15,000 / 22,500	384	10	PG3660HA00**
W/ 2 Bolts	22	22,500 / 33,750	470	10	PG3660HH00**
Lightweight No Bolts	5	5,000 / 7,500	222	10	LG3660WA00**

Replace \*\* with a logo code found on page 64. See page 70 for meter and touch/radio read cover options.

## Boxes (box depths 31" and 36" must be used as bottom of any stack)

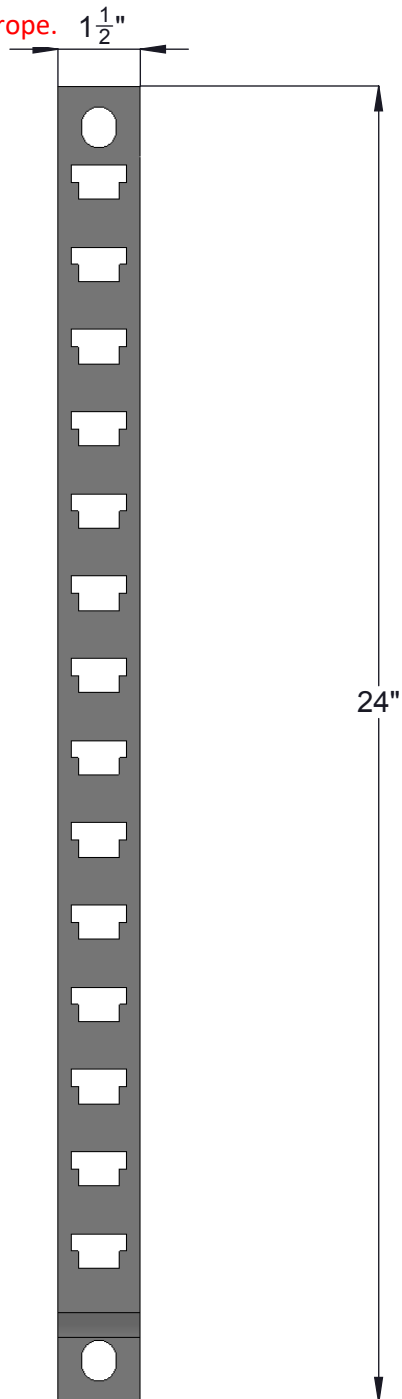
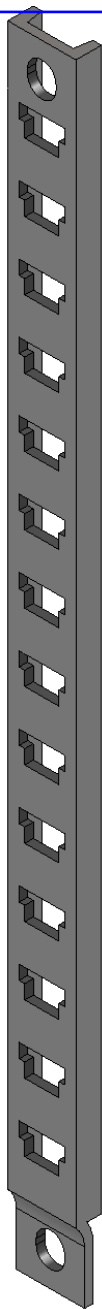
DESCRIPTION	DEPTH	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
Standard Open Bottom	19"	22	22,500 / 33,750	381	4	PG3660BA19
	24"		22,500 / 33,750	397	3	PG3660BA24
	31"		22,500 / 33,750	481	2	PG3660BA31
	36"		22,500 / 33,750	647	2	PG3660BA36
Solid Bottom	19 1/2"	22	22,500 / 33,750	479	4	PG3660DA19
	24 1/2"		22,500 / 33,750	495	3	PG3660DA24
	31 1/2"		22,500 / 33,750	590	2	PG3660DA31
	36 1/2"		22,500 / 33,750	738	2	PG3660DA36

To order boxes with two standard mouseholes, replace the letter "A" with the letter "B".

# UNDERGROUND CABLE RACK

QTY: 4 two in each hand hole for Tie off of innerduct/rope.

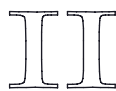
Revise QTYs with the removal of handhole #1.



## General Notes:

1. MANUFACTURED FROM 1-1/2 X 9/16 X 3/16 INCH HOT ROLLED STEEL CHANNEL
2. MOUNT THROUGH T-SLOTS
3. T-SLOTS SPACED AT 1-1/2"
4. HOT DIP GALVANIZED FINISH

MADE IN U.S.A.



AZUSA, CA

**INWESCO**  
INCORPORATED

FORTWORTH, TX

(800) 266-9304

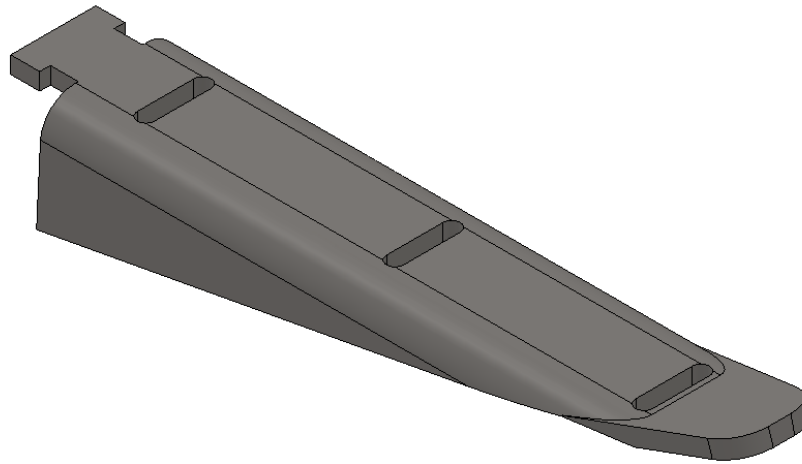
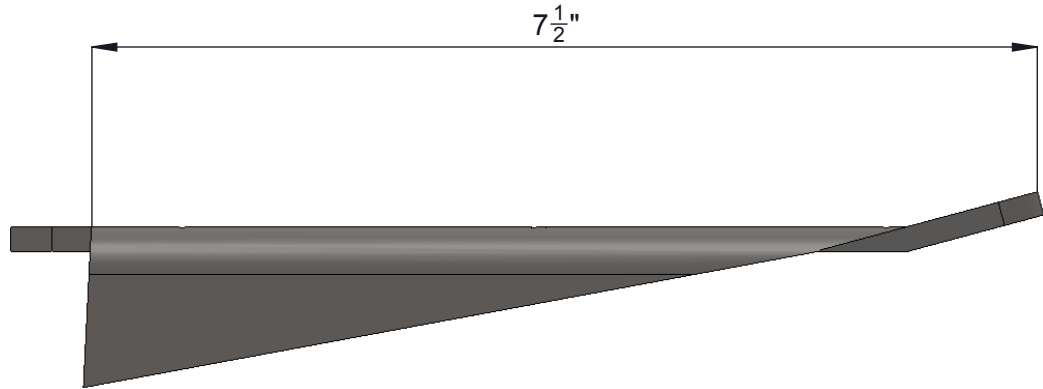
UNDERGROUND CABLE RACK  
14 HOLES WITH MOUNTING HOLES

**10A08**

# UNDERGROUND CABLE RACK HOOK

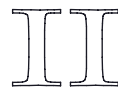
QTY: 4 two in each Hand hole

Revise QTYs with the removal of handhole #1.



## General Notes:

1. MANUFACTURED FROM 3/16 INCH STEEL
2. FINISH: HOT DIP GALVANIZED



AZUSA, CA

**INWESCO**  
INCORPORATED

FORTWORTH, TX

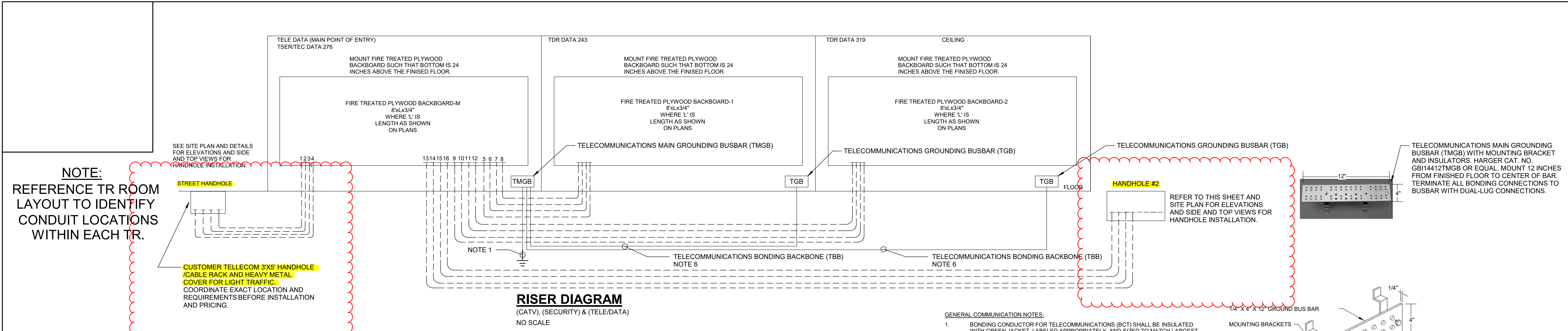
(800) 266-9304

7-1/2" CABLE RACK HOOK

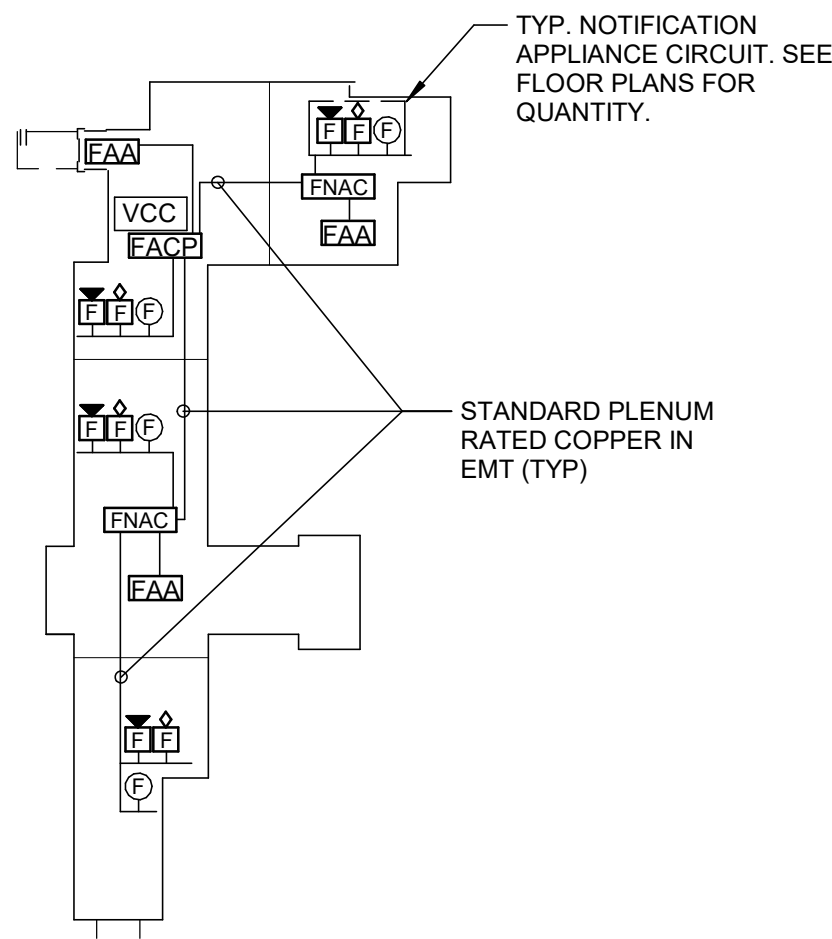
MADE IN U.S.A.

**10A36**





CONDUIT	SIZE	FROM	TO	PURPOSE	MAX CELL INTERDUCT		
					CELL 1	CELL 2	CELL 3
1	4"	STREET	TSER/TEC DATA 276	TO STREET CARRIER FACILITIES CARRIER #1	COPPER ENTRANCE CABLE	FIBER ENTRANCE CABLE	SPARE
2	4"	STREET	TSER/TEC DATA 276	CARRIER #2	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE
3	4"	STREET	TSER/TEC DATA 276	CATV	COAX/FIBER ENTRANCE CABLE	SPARE FUTURE	SPARE FUTURE
4	4"	STREET	TSER/TEC DATA 276	SPARE	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE
5	4"	TSER/TEC DATA 276	TDR DATA 243	BACKBONE COPPER	BACKBONE COPPER- (200 PR)	SPARE FUTURE	SPARE
6	4"	TSER/TEC DATA 276	TDR DATA 243	BACKBONE FIBER	BACKBONE FIBER- (12 STAND OM3)	SPARE FUTURE	SPARE FUTURE
7	4"	TSER/TEC DATA 276	TDR DATA 243	BACKBONE CATV	BACKBONE CATV-(2-RG11)	SPARE FUTURE	SPARE FUTURE
8	4"	TSER/TEC DATA 276	TDR DATA 243	SPARE	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE
9	4"	TSER/TEC DATA 276	TDR DATA 319	BACKBONE COPPER	BACKBONE COPPER- (200 PR)	SPARE FUTURE	SPARE
10	4"	TSER/TEC DATA 276	TDR DATA 319	BACKBONE FIBER	BACKBONE FIBER- (12 STAND OM3)	SPARE FUTURE	SPARE FUTURE
11	4"	TSER/TEC DATA 276	TDR DATA 319	BACKBONE CATV	BACKBONE CATV-(2-RG11)	SPARE FUTURE	SPARE FUTURE
12	4"	TSER/TEC DATA 276	TDR DATA 319	SPARE	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE
13	4"	TSER/TEC DATA 276	HANDHOLE #2	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE
14	4"	TSER/TEC DATA 276	HANDHOLE #2	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE
15	4"	TSER/TEC DATA 276	HANDHOLE #2	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE
16	4"	TSER/TEC DATA 276	HANDHOLE #2	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE	SPARE FUTURE



#### DETAIL NOTES:

- NOTIFICATION APPLIANCE CIRCUITS AND ANY OTHER CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCE CIRCUITS SHALL BE PROTECTED FROM THE POINT AT WHICH THEY EXIT THE CONTROL UNIT UNTIL THEY SERVE USING LEVEL 1 SURVIVABILITY PER NFPA 72.

#### FIRE ALARM - 2 HOUR WIRING EXAMPLE

SCALE: NOT TO SCALE

#### NOTES:

- ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE FIRE ALARM SYSTEM INCLUDING ALL CONDUIT, WIRE, RELAYS AND INTERLOCKS AS DIRECTED BY MANUFACTURER.
- FIRE ALARM VENDOR IS RESPONSIBLE FOR INCLUDING ANY ADDITIONAL POWER SUPPLIES NECESSARY FOR THE OPTIONAL SYSTEM REGARDLESS IF SHOWN ON DOCUMENTS.
- THE FIRE ALARM CONTRACTOR SHALL SUBMIT PLANS AND CUT SHEETS TO THE FIRE DEPARTMENT FOR REVIEW AND APPROVAL AFTER REVIEW BY ARCHITECT/ENGINEER.
- SYSTEM SHALL BE SUPERVISED & MONITORED OFF SITE BY AN APPROVED MONITORING FACILITY.
- FIRE ALARM SHALL BE IN CONDUIT, NO EXCEPTIONS.
- COORDINATE CONDUIT SIZE REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS. PVC MAY BE USED UNDER-GRADE BUT WITH RIGID ELBOWS AND STUBUPS.
- PROVIDE ACTIVATION CONTROL OF ALL SMOKE AND SMOKE/FIRE DAMPERS. COORDINATE LOCATION(S) WITH DIV. 25000 PLANS AND CONTRACTOR. PROVIDE ALL NECESSARY DEVICES, CONDUIT AND WIRING FOR A COMPLETE AND OPERATIONAL SYSTEM.
- SEE PLANS FOR DEVICES. SHOWN HERE ONLY AS A MEANS OF SEPARATION OF ZONES. CONTRACTOR SHALL VERIFY ZONES WITH ARCHITECTURAL LIFE SAFETY PLAN. DEVICES WITHIN EACH SMOKE COMPARTMENT SHALL BE PROVIDED AS A SEPARATE ZONE. FIRE ALARM CONTROL PANEL SHALL BE PROGRAMMED TO INDICATED ZONE OF DEVICE IN ALARM.
- POWER BY 120V LIFE SAFETY BRANCH. SEE PANEL SCHEDULES FOR CIRCUIT NUMBER.
- PROVIDE 201 CIRCUITS TO LIFE SAFETY PANELS FOR ANY POWER BOOSTER PANELS IF REQUIRED BY THE FIRE ALARM MANUFACTURER. THESE CIRCUIT SHALL BE INCLUDED IN THE BASE BID.
- NOT ALL DEVICES MAY BE SHOWN ON THIS RISER, REFER TO PLANS FOR DEVICES.
- COORDINATE SPRINKLER PIT REQUIREMENTS WITH CIVIL.
- FIRE ALARM AT PATIENTS CARE AREAS SHALL BE PROVIDED AS PRIVATE MODE PER NFPA 101 AND NFPA 72 REQUIREMENTS.
- RELEASE BY SMOKE DETECTORS WITHIN 5 FOOT ADJACENT TO THE DOOR.
- FIRE ALARM NOTIFICATION TO BE UTILIZE PRIVATE MODE REDUCED AUDIBILITY, PER NFPA 101 AND NFPA 72 REQUIREMENTS.

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX	SYSTEM OUTPUTS															
	FACP ANNUNCIATION				NOTIFICATION				REQUIRED FIRE SAFETY CONTROL							
SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1 FIRE ALARM SYSTEM AC POWER FAILURE																
2 FIRE ALARM SYSTEM LOW BATTERY																
3 OPEN CIRCUIT																
4 GROUND FAULT																
5 NOTIFICATION APPLIANCE CIRCUIT SHORT																
6 BUILDING MANUAL PULL STATIONS																
7 DOOR RELEASE SMOKE DETECTORS																
8 AREA HEAT/SMOKE DETECTORS																
9 HVAC AIR DUCT SMOKE DETECTORS																
10 SPRINKLER TAMPER SWITCH																
11 SPRINKLER WATER FLOW IN BUILDING																
12 CO SENSOR																
13 KITCHEN HOOD FIRE SUPPRESSION SYSTEM																
14 GENERATOR/NURSE CALL/O2 ALARMS																
15 KITCHEN SHUNT TRIP POWER																

KITCHEN FANS SEQUENCE OF OPERATION ON FIRE ALARM ACTIVATION  
IF KITCHEN HOODS ARE OPERATING AND THE FIRE ALARM IS ACTIVATED:  
1. EF-K AND EF-D TO SHUT DOWN.  
2. OAU-1 AND EF-D TO SHUT DOWN.

IF KITCHEN HOODS ARE OFF AND THE FIRE ALARM IS ACTIVATED:  
1. EF-K, EF-D AND OAU-1 TO REMAIN OFF.

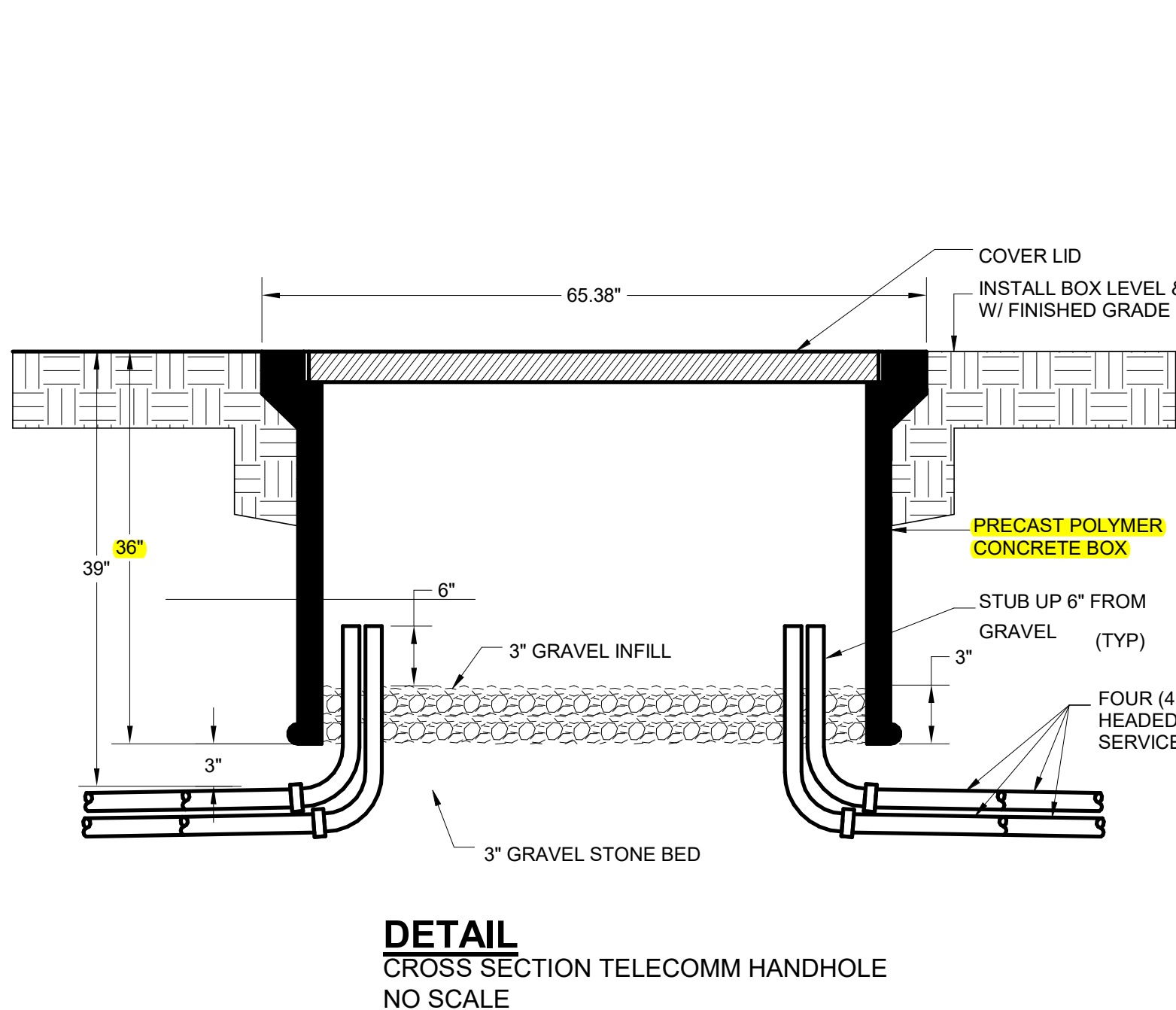
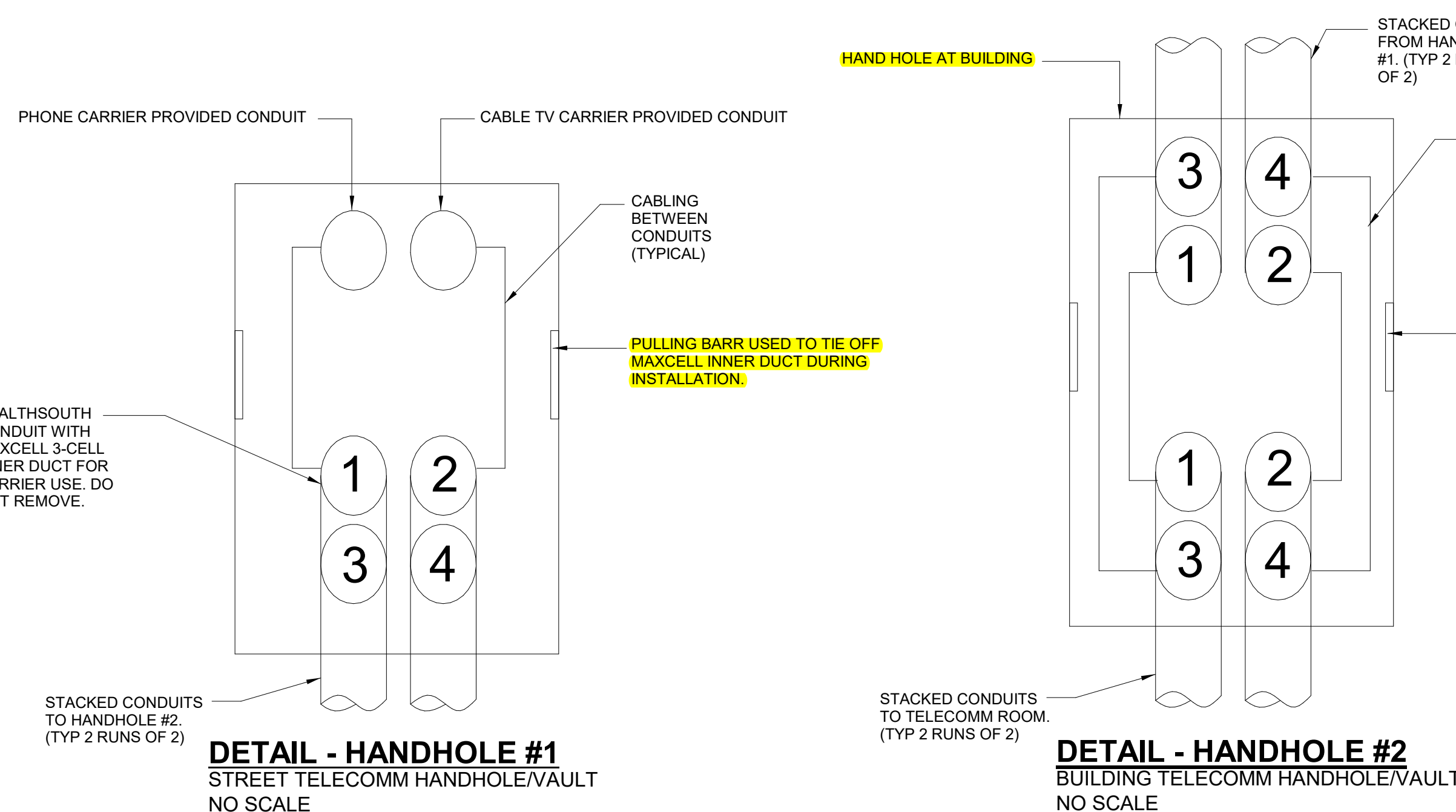
IF ANSUL SYSTEM BENEATH KH-1 ACTIVATES:  
1. OAU-1 AND EF-D TO SHUT DOWN.  
2. IF EF-K, EF-D AND OAU-1 ARE OFF, EF-K TO BE ENERGIZED BY THE ANSUL SYSTEM.

NOTE: COORDINATE CONTROL SEQUENCE WITH HVAC CONTRACTOR AND PROVIDE ALL FIRE ALARM CONNECTIONS AND DEVICES REQUIRED.

FIRE ALARM SEQUENCE OF OPERATION  
THE FOLLOWING SHALL OCCUR WHEN THE FIRE ALARM SYSTEM ACTIVATION OCCURS. THE SYSTEM SHALL COMMUNICATE ALARMS TROUBLE AND SUPERVISORY SIGNALS VIA DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT).

1. THE FIRE ALARM SYSTEM SHALL OPERATE AS FOLLOWS:  
A. MANUAL OPERATION: OPERATION OF A MANUAL FREE ALARM PULL STATION SHALL:

- IDENTIFY THE INDIVIDUAL STATION ON THE SYSTEM CONTROL PANEL AND SOUND THE ALARM BELL AT THE CONTROL PANEL AND REMOTE ALARM PANEL.
  - SHUT DOWN VENTILATION SYSTEMS.
  - TRANSMIT A SIGNAL TO THE CENTRAL STATION.
  - ACTIVATE THE PRINTER.
- B. ACTIVATION OF A DUCT MOUNTED SMOKE DETECTOR, AN AREA SMOKE DETECTOR OR HEAT DETECTOR, OR SPRINKLER WATER FLOW SWITCH SHALL CAUSE THE FOLLOWING:
- PROVIDE OPERATION AS DESCRIBED FOR MANUAL FIRE ALARM PULL STATION.
  - A SIGNAL DEDICATED TO THE SPRINKLER SYSTEM WATER FLOW ALARM SHALL NOT BE ABLE TO BE SILENCED WHILE THE SPRINKLER SYSTEM IS FLOWING AT A RATE OF FLOW EQUAL TO A SINGLE HEAD.
- C. ACTIVATION OF ANY SUPERVISORY CIRCUIT SHALL CAUSE THE FOLLOWING ACTIONS AND INDICATIONS:
- DISPLAY THE ORIGIN OF THE SUPERVISORY CONDITION REPORT ON THE ALPHANUMERIC LCD DISPLAY AT THE CONTROL PANEL AND REMOTE ANNUNCIATOR PANELS.
  - ACTIVATE SUPERVISORY AUDIBLE AND VISUAL SIGNALS AT THE CONTROL PANEL AND REMOTE ANNUNCIATOR PANELS.
  - RECORD THE OCCURRENCE OF THE EVENT, THE TIME OF OCCURRENCE, AND THE DEVICE INITIATING THE EVENT.
- D. RECEIPT OF A TROUBLE SIGNAL AT THE FIRE ALARM CONTROL PANEL SHALL CAUSE THE FOLLOWING ACTIONS AND INDICATIONS:
- DISPLAY AT THE CONTROL PANEL AND REMOTE ANNUNCIATOR PANELS ALPHANUMERIC LCD DISPLAY, THE ORIGIN OF THE TROUBLE CONDITION REPORT.
  - RECORD THE AUDIBLE AND VISUAL SIGNALS AT THE FIRE CONTROL PANEL AND REMOTE ANNUNCIATOR.
  - RECORD THE OCCURRENCE OF THE EVENT, THE TIME OF OCCURRENCE, AND THE DEVICE INITIATING THE EVENT.



CONSULTANTS:

SEAL ON THIS DOCUMENT AUTHORIZED BY:



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