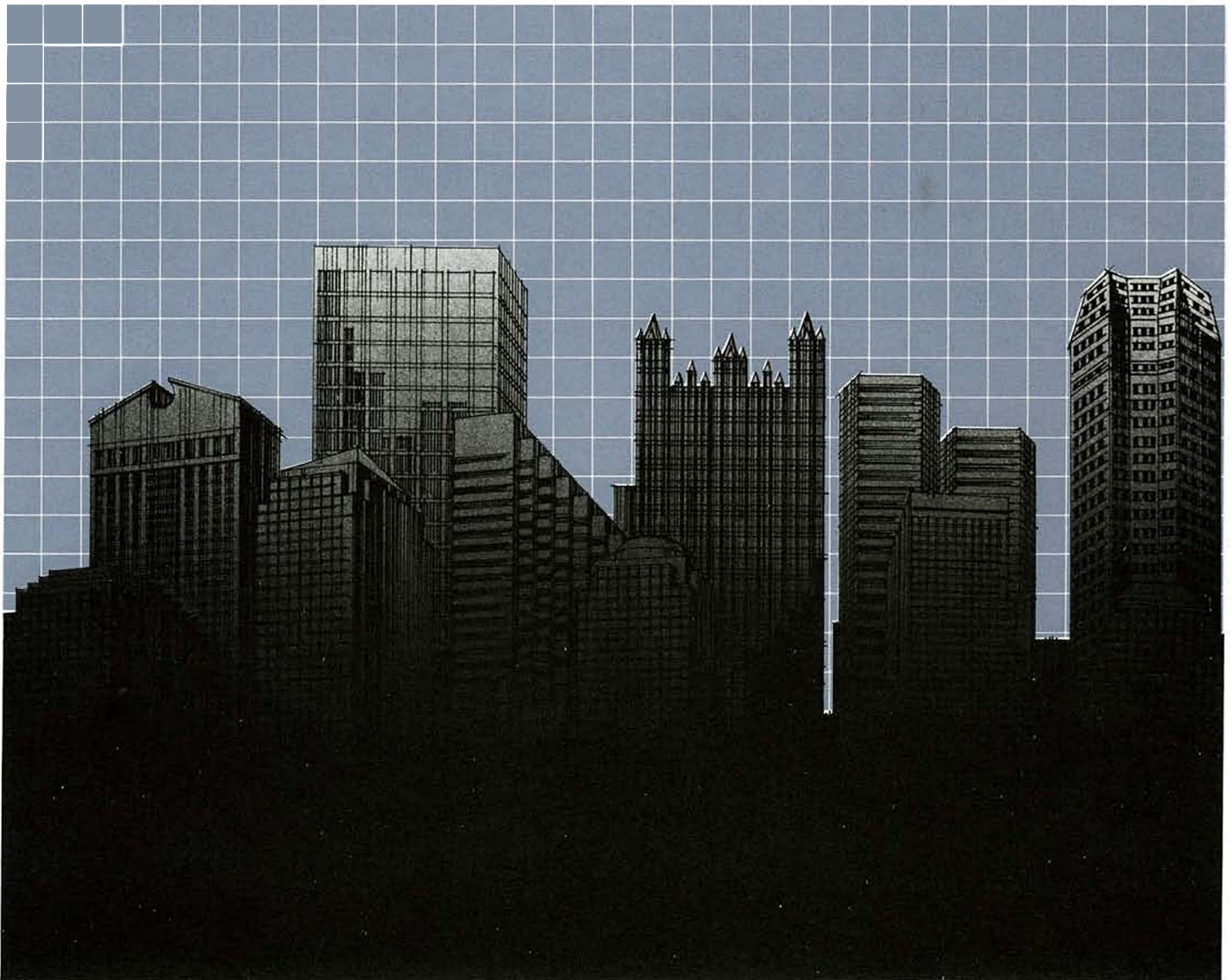


Q-Floor/Taproute System **Owners' Manual**

A guide to using the system,
the Tapmate preset inserts
and the Tapway bottomless trench



**H.H. Robertson
Floor Systems**

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Forward

The Robertson Q-Floor/Taproute System is not only a basic structural component of your building, it is also the most advanced distribution/delivery system available today.

We have prepared this brochure as a guide to the most effective utilization of this system within your building.

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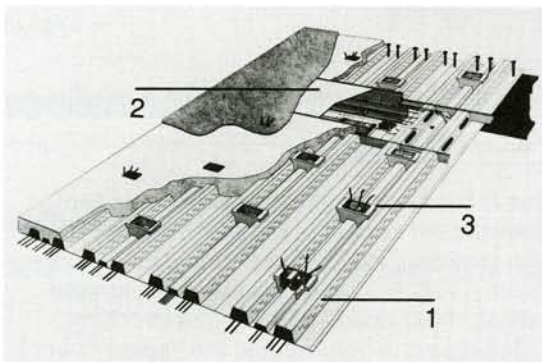
The System—General Information

The system consists of the following components:

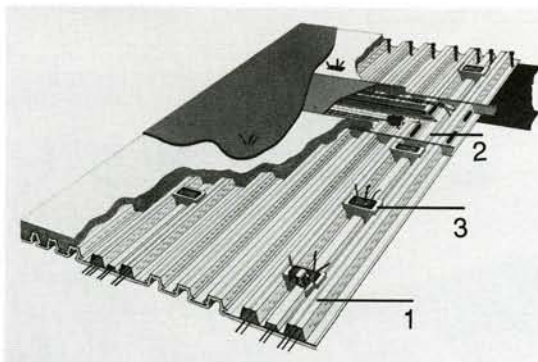
- ☐ Structural/Electrical Floor (1)
- ☐ Tapway Trench (2)
- ☐ Tapmate Preset Inserts (3)

These three basic components, when assembled and secured according to Robertson's installation instructions, provide an integrated, continuous metallic system which is mechanically/electrically connected to the steel building frame. The resulting metallic "sheath" provides a safe path to ground with very low electrical resistance. This means that separate ground wires to electrical devices are generally not required so long as the devices themselves are electrically connected to the metallic Taproute System. Codes of local jurisdictions, of course, govern the prescribed practices and may vary.

Full Cellular



5' Blend Cellular



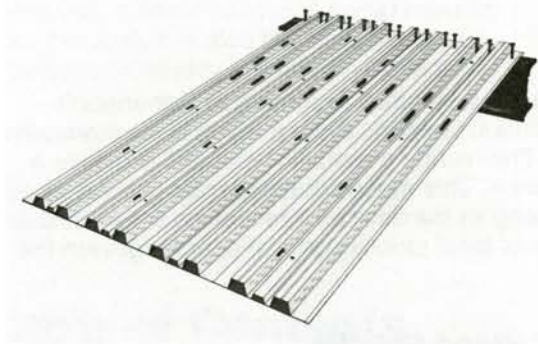
Reference Data

One of the most important elements of building management is the ability to analyze the capabilities of a structure as it relates to its ultimate use; whether it's an office building, laboratory or factory.

Essential to any such analysis is a series of "road maps" which should be maintained and updated as necessary. Basically they are:

- ☐ Architectural drawings
- ☐ Mechanical drawings
- ☐ Shop drawings of all major system items
- ☐ "As-built" drawings of all major system items
- ☐ Complete Specifications with any noted variations
- ☐ Manufacturer's installation and operation instructions for all major systems and items
- ☐ Structural drawings
- ☐ Site drawings
- ☐ Electrical drawings

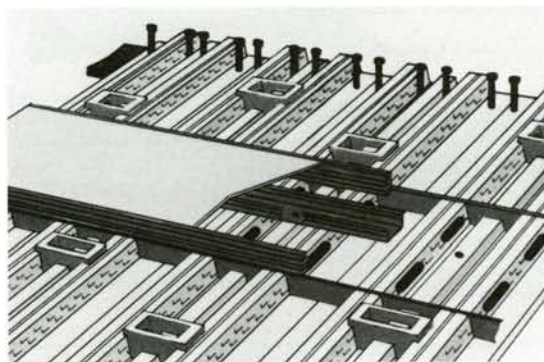
Components—General Information



1 Structural/ Electrical Floor

The Q-Floor/Taproute System functions as both a structural component *and* as the second phase of the cable/wire *distribution* system.

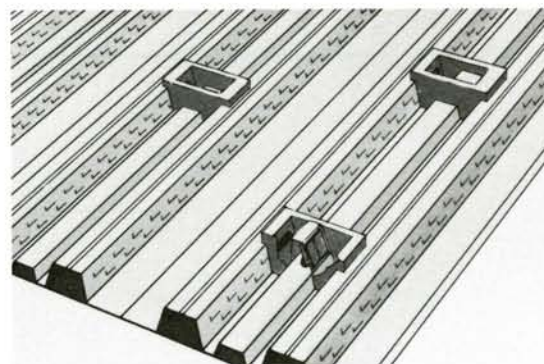
Because the system functions as a composite floor element, it provides the most efficient structural floor design possible and is referred to as "composite slab design."



2 Tapway Bottomless Trench

This is the primary *distribution* component. It provides the capacity and flexibility to handle high tension circuitry, telephone cables, closed circuit TV, C.R.T. and computer equipment cabling, fiber optics and local networking.

Because it is bottomless, the Tapway trench offers the fullest and most effective utilization of header capacity available from any under-floor system. Communications networks, such as broad- and baseband, require the use of splitters and taps which can quickly congest the cross-section available for cabling. But with the Tapway bottomless trench the additional space between the deck cells is immediately accessible and available for storage of these bulky devices without sacrificing trench capacity. In fact, an 18" wide bottomless trench is functionally equivalent to a 30" wide full-bottom trench.



3 Tapmate Preset Inserts

These outlets represent the "end use" point in the system. They complete the electrical raceway system by linking and *delivering* the wiring and cabling from the floor cells to the work station.

1 Components

Structural/Electrical Floor

The Q-Floor/Taproute system begins as a structural metal deck. Its wide ribs easily accommodate shear studs for composite beam design.

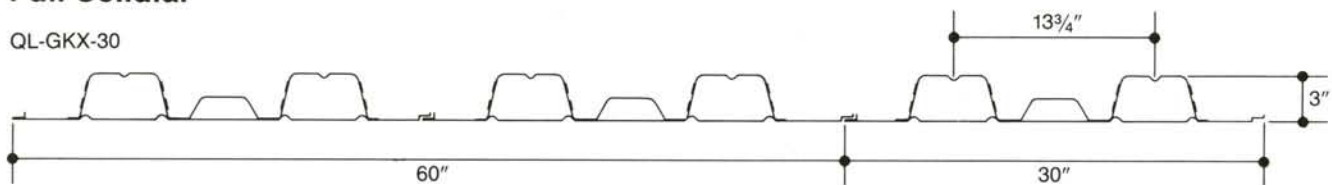
Factory-welded flat base plates are then added to create cells which accommodate all high and low tension wiring and cables.

Large factory-punched holes are accurately located in the cellular units to permit easy and economical "pulling" of wires and cables.

The units are most commonly installed as either full cellular or as a cellular/deck blend* (see drawings below).

Full Cellular*

QL-GKX-30

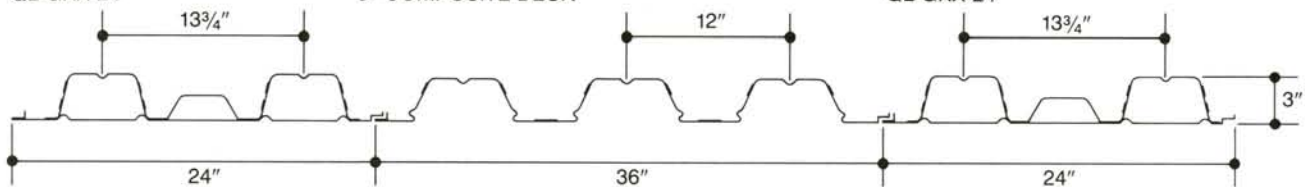


5' Blend*

QL-GKX-24

3" COMPOSITE DECK

QL-GKX-24



* Many other density options are available. Check your reference data to determine exact modules in your buildings.

2 Components

Tapway Bottomless Trench

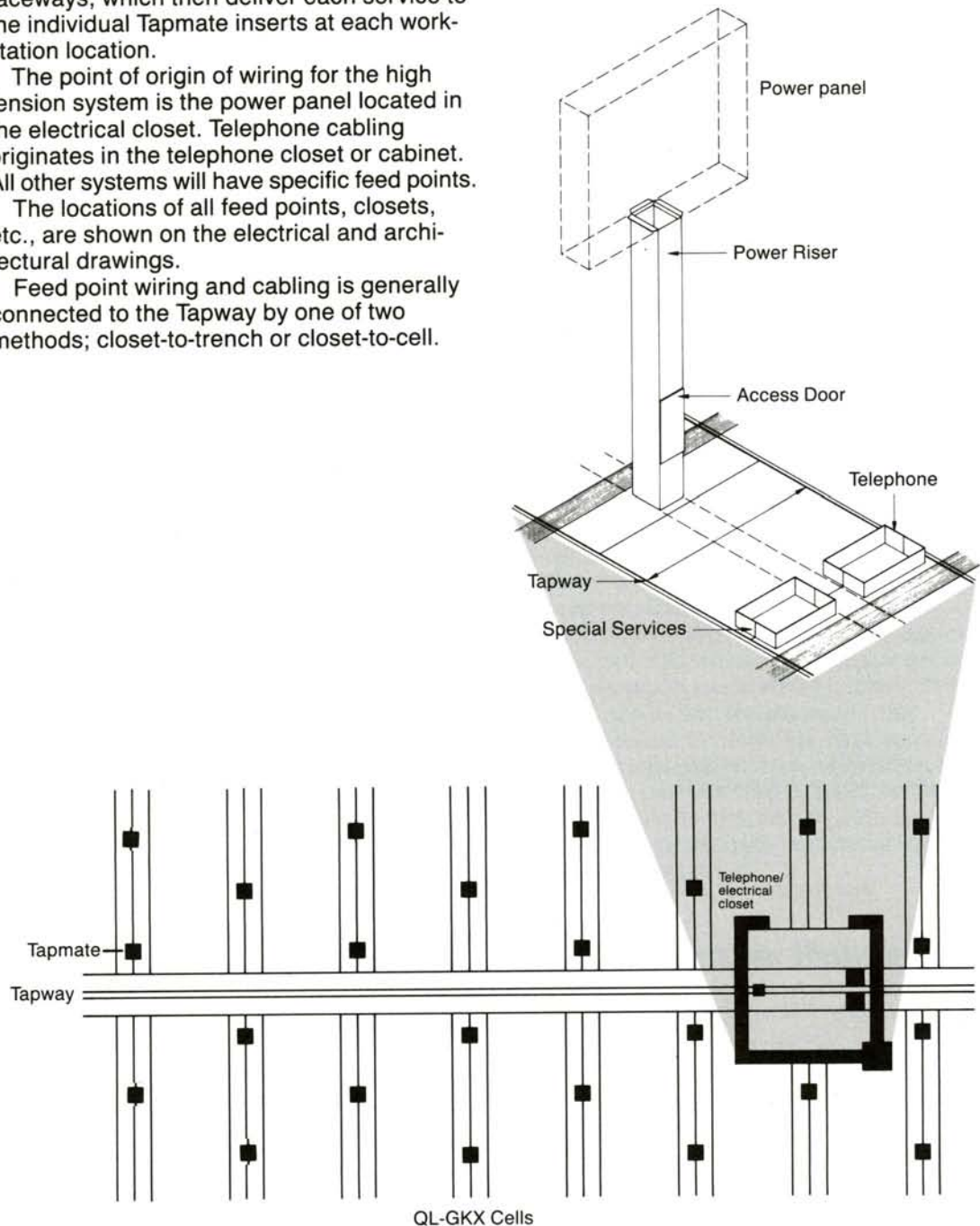
The Tapway bottomless trench distributes all of the wiring and cabling in the system from their points of origin to the cellular raceways, which then deliver each service to the individual Tapmate inserts at each workstation location.

The point of origin of wiring for the high tension system is the power panel located in the electrical closet. Telephone cabling originates in the telephone closet or cabinet. All other systems will have specific feed points.

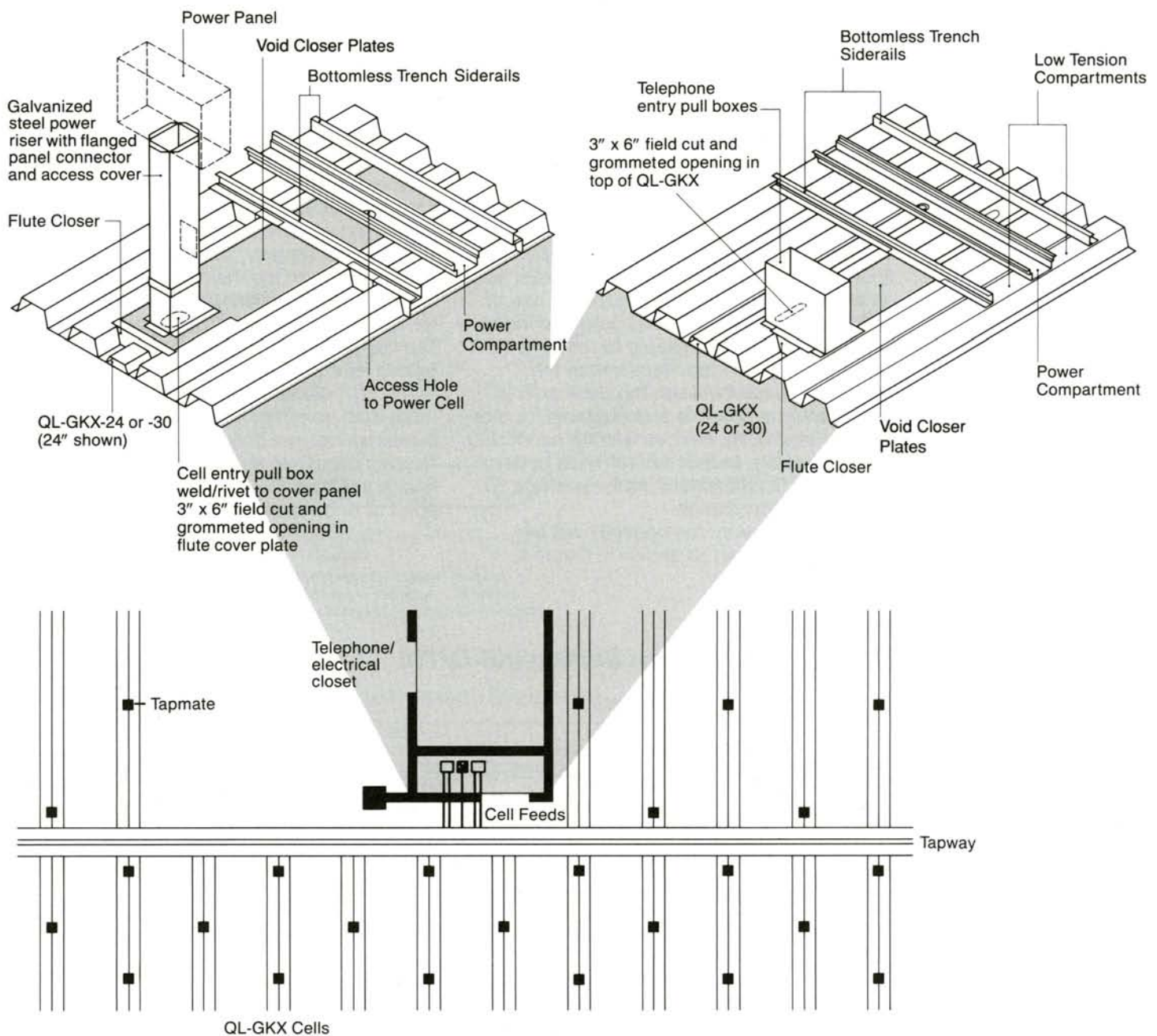
The locations of all feed points, closets, etc., are shown on the electrical and architectural drawings.

Feed point wiring and cabling is generally connected to the Tapway by one of two methods; closet-to-trench or closet-to-cell.

Typical Closet-to-Trench Feed



Typical Closet-to-Cell Feed



2 Components

Tapway Bottomless Trench (cont'd)

The wiring and cabling is transferred from the Tapway trench feeder to the cells of the electrical floor unit via activation holes that have been factory-punched and then properly bushed with grommets installed by the electrical contractor when placing the Tapway units.

The Tapway runs will be indicated on the electrical drawings. Many times they also are shown on the architectural and structural drawings. These should be checked carefully to positively locate the Tapway runs.

Note that the telephone/special services cells each have four openings, (see Detail C). This permits cell feed from either direction to allow simple bending of the communications cabling.

Because it is bottomless, the Tapway trench offers the fullest and most effective utilization of header capacity available from any under-floor system. Communications networks, such as broad- and baseband, require the use of splitters and taps which can quickly congest the cross-sectional available for cabling. But with the Tapway bottomless trench the additional space between the deck cells is immediately accessible and available for storage of these bulky devices without sacrificing trench capacity. In fact, an 18" wide bottomless trench is functionally equivalent to a 30" wide full-bottom trench.

The main Tapway run normally will be compartmentalized as shown in Detail A.

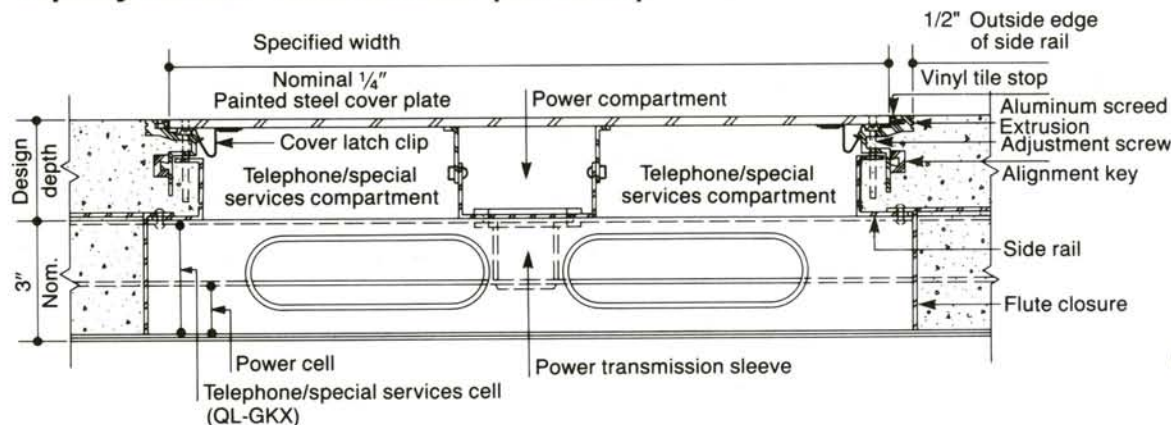
It is important that the top of the partition/dividers be raised to assure full and continuous contact with the underside of the cover plate. The Whiz-Loc nut **MUST** be against the vertical slot of the bottom divider, (see Detail D). (Proper torquing range is 170 to 190 inch-pounds.)

During the activation stage, or at anytime thereafter, should the Tapway cover become "springy" (through excessive daily loadings, etc.) the Robertson cover support system is easily adjusted to correct the problem. Simply remove the affected cover(s), loosen the fasteners, raise the supports, retighten the fasteners (again, 170 to 190 inch-pounds torque) and replace the cover(s). If further corrective action is necessary, contact your Robertson representative.

Additional Tapway "jack headers" (which are smaller than the main run) may be required to circumvent floor penetrations and for certain other special conditions. A typical Tapway jack header normally is compartmentalized as shown in Detail B.

The 2 1/4" diameter power cell feed hole is more than adequate for all present and future power wiring densities. The installation of the Tapway trench on the structural/electrical floor completes the Taproute System from point of origin to point of outlet.

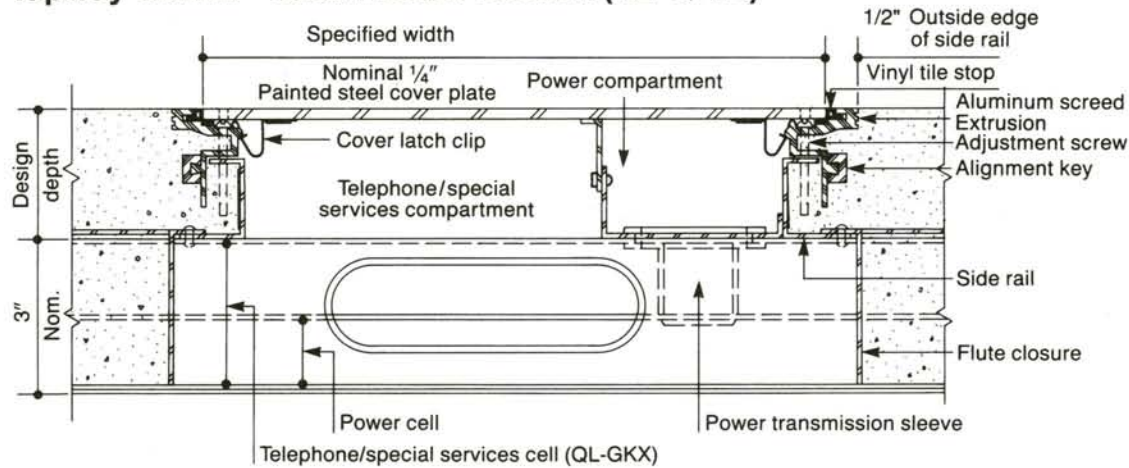
Detail A
Tapway Trench—Main Section (KE-Q/TD)



NOTE: The Tapway trench must be protected against wheel loads in excess of 500 pounds.

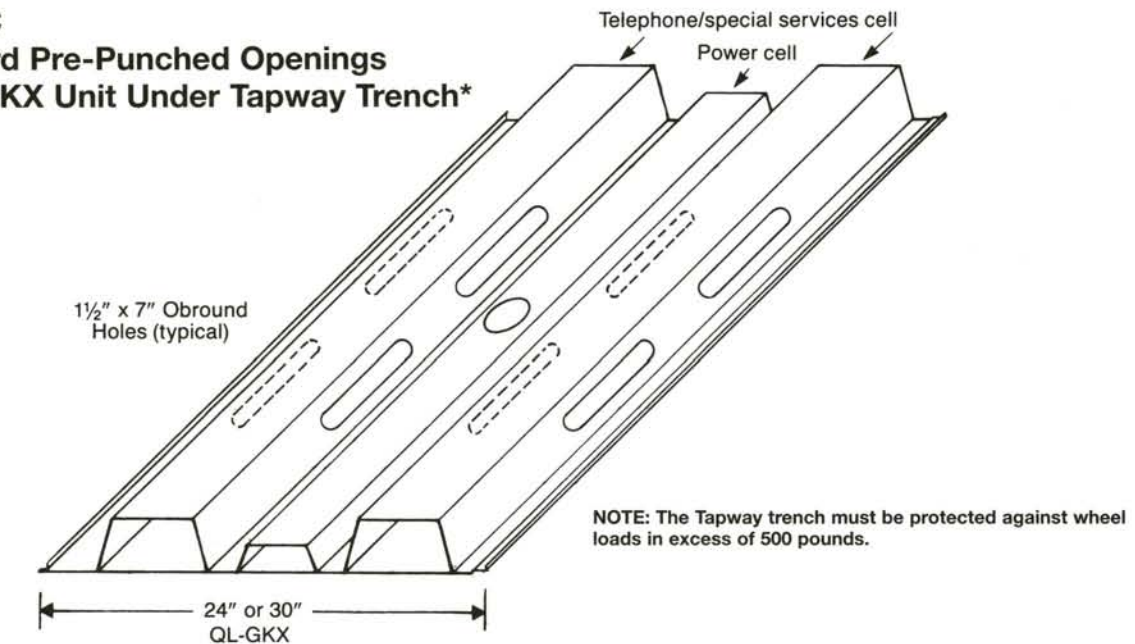
Detail B

Tapway Trench—Jack Header Section (KE-Q/TD)



Detail C

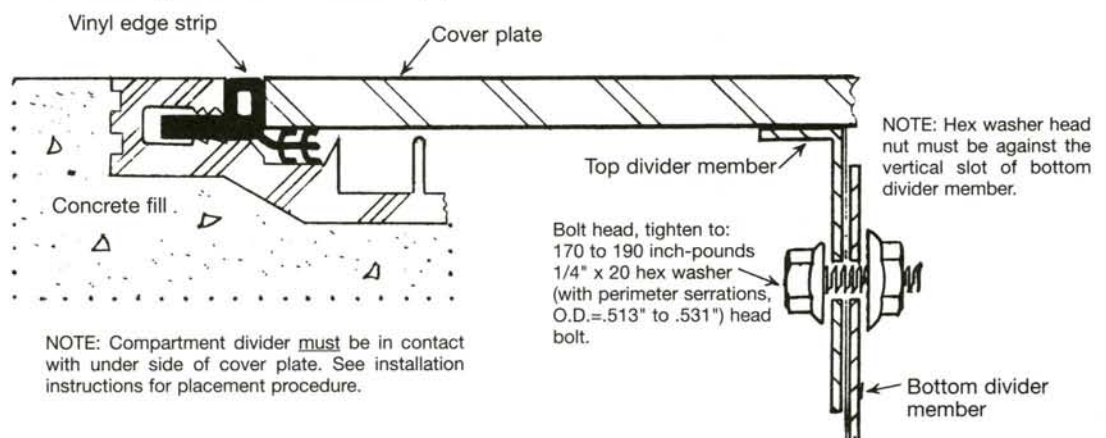
Standard Pre-Punched Openings in QL-GKX Unit Under Tapway Trench*



*Nine-hole Tapway pattern (generally supplied for three compartment Tapways 18" and wider) shown. Other hole patterns can be provided dependent on owner's requirements.

Detail D

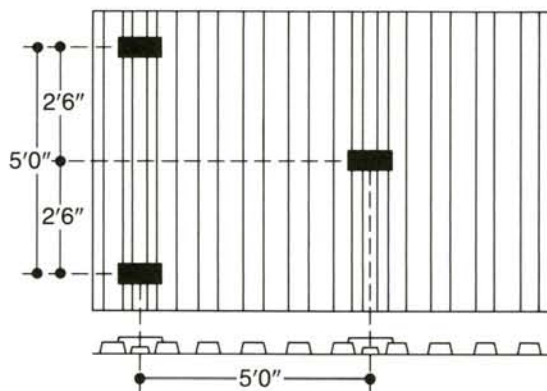
Positioning of Power Compartment Divider(s)



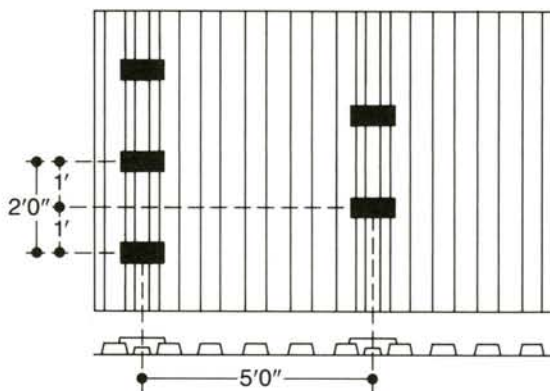
3 Components Tapmate Preset Inserts

The Tapmate preset is the "end use" point in the electrical raceway system. It delivers the wiring and cabling in the electrical floor cells to the office equipment, telephones, computers, etc. at the workstation. Tapmate outlets are located on a pre-established

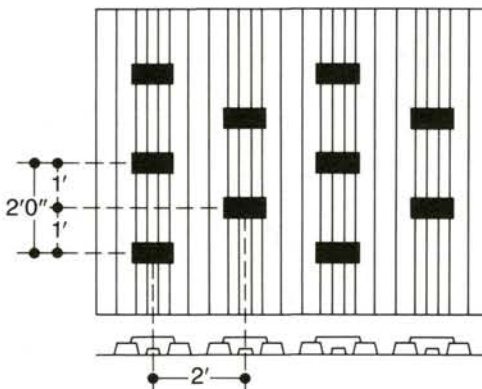
module which normally is shown on the electrical drawings. Refer to the drawings not only for outlet location, but also to orient it in relation to electrical cells. Tapmate outlets are most commonly arranged on these staggered grid configurations:



Flexibility... The Q-Floor/Taproute 5' x 5' **blend** provides one potential workstation every 25 square feet.

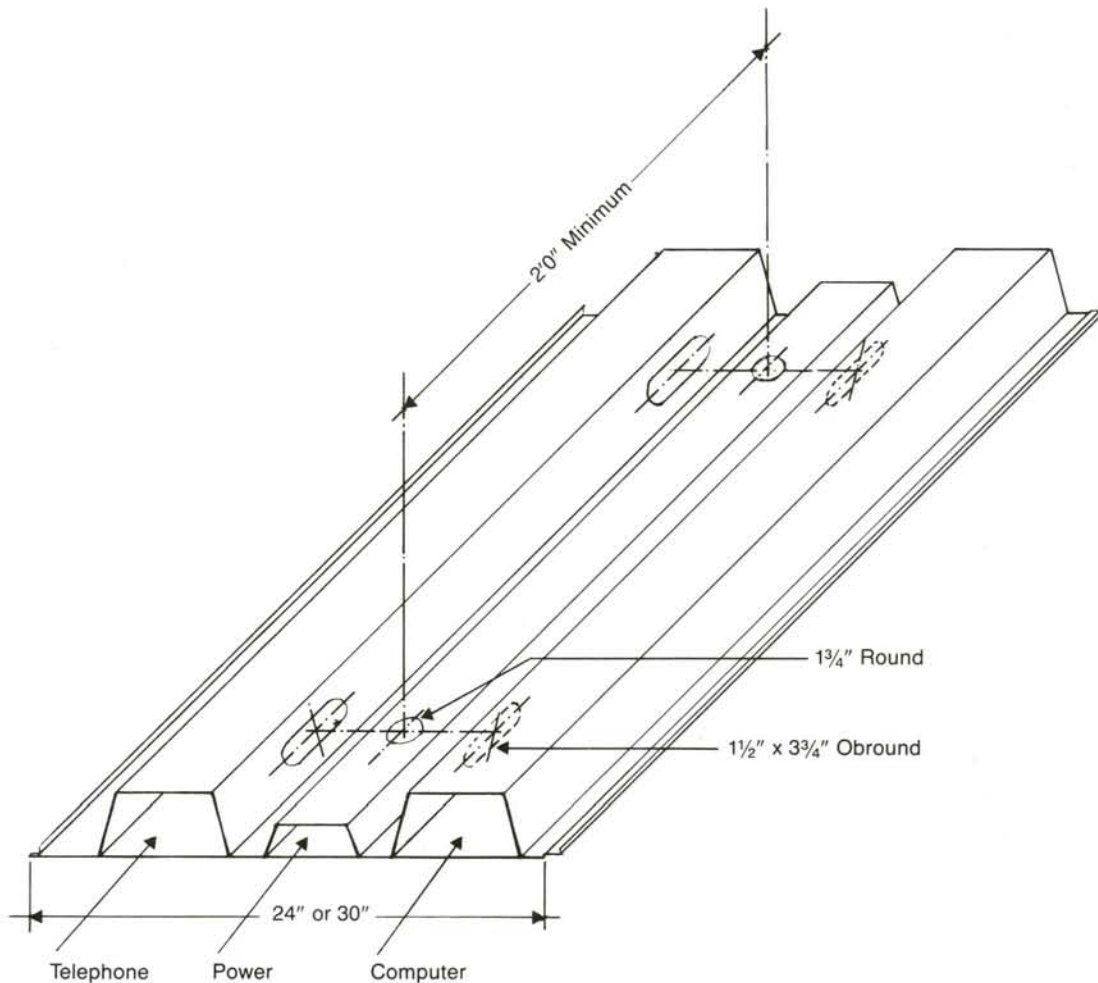


More flexibility... This modified 5' x 2' **blend** provides one potential workstation every 10 square feet.



Greatest Flexibility... The Q-Floor/Taproute **full cellular 2' x 2' module** provides one potential workstation every 4 square feet for maximum flexibility.

Note: The Tapmate module in your building may be different than these layouts because of different design parameters.

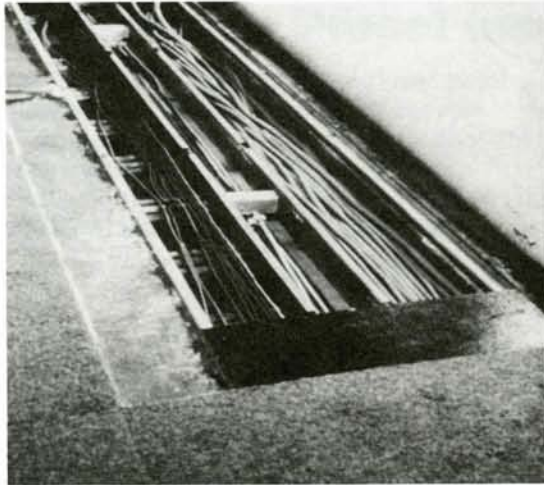


Standard Prepunched Openings in QL-GKX Unit for Tapmats

Each electrical cellular floor unit is factory-punched on a pre-determined grid to accommodate the field-installed Tapmate units.

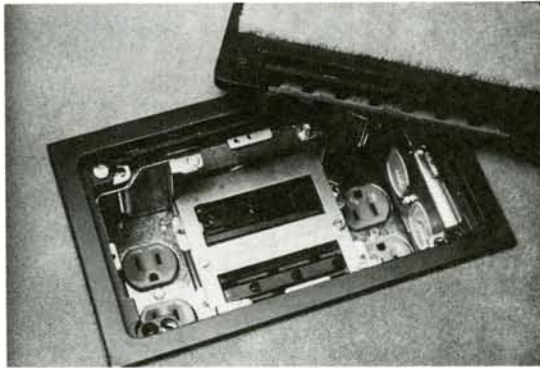
The $1\frac{1}{2}'' \times 3\frac{3}{4}''$ obround opening into each low tension cell at every Tapmate location permits a generous 4.15 sq. in. of wiring and cabling egress, which can handle standard telephone and computer cabling as well as fiber-optics and local area networks.

Activation—General Information



1 Tapway Bottomless Trench

Activation of the Tapway trench is as simple as removing the cover plates from the appropriate section and accessing the correct cells. The three large service compartments, completely separate from closet to cell, and the unique bottomless design provide more-than-sufficient capacity for present and future requirements.



2 Tapmate Preset Insert

The activation of the Tapmate preset insert is a relatively simple process, once the outlet location has been accurately determined. Although some of the steps are identical, whether the concrete is covered or uncovered at the time of activation affects some steps. Additionally, concrete thickness can vary from outlet to outlet, therefore the methods of initial concrete removal will also vary.

There are also a wide range of activation options available to suit every workstation need. All are discussed and illustrated in detail in Robertson brochure EF-242.

Electronic Outlet Locator

In order to *precisely* locate each Tapmate outlet prior to concrete removal it is recommended that a Robertson Outlet Locator (#ED-3) be used.

The general characteristics and operation and maintenance suggestions follow:

Controls:

On-Off Switch Spring Action
(deadman) Button

Sensitivity Turn *sensitivity*
control clockwise to increase sensitivity
and counterclockwise to decrease
sensitivity.

Zero Setting Turn *zero control*
clockwise to return the pointer from off-
scale (left) back to zero and countclock-
wise to zero the pointer from an on-scale
position.

Operation

The *sensitivity control* may be set at a position which gives the greatest up-scale reading without going over scale (pegging the pointer) when directly over an outlet. After making any change in sensitivity setting, *always recheck the zero control setting*. Re-zero, if necessary.

With the search coil away from any metal, switch on and adjust the *zero control* until the needle reads zero.

To locate an outlet, press switch and slide the locator over the area to be searched. The position of the search coil at which a peak meter reading is observed will be the location of the outlet.

NOTE: Ordinarily, the user of the Tapmate locator will have some prior knowledge of the orientation of the major axis of the outlet box relative to some reference floor line. However, if there is some doubt, rotate the search coil 90° from the position which gave the peak meter reading. Although the difference may be slight, whichever of the two search coil positions yields the higher peak meter reading will indicate the major axis of the outlet box as installed. When the peak meter reading is observed, switch the locator off. This locator is supplied with a template set and instructions for their use. Refer to the Tapmate installation instructions for specific details.

Maintenance

Avoid rough handling. The meter movement is constructed with fine jeweled pivots, such as those in a watch. With reasonable care, your transistorized locator should give years of trouble-free use. It is unlikely that the transistor will become defective during the life of the instrument.

The electronic locator operates on the energy of a single 1.5V size "D" flashlight battery. Power consumed by the instrument is very small and a battery can be expected to give service for a year or more. In the case of difficulty, loosen the four (4) screws securing the back locator panel and remove the panel from the case. Make certain the battery is properly seated into the clips provided. If necessary, replace the cell with a fresh alkaline battery. Reassemble the case.

Do not leave old worn out batteries in the instrument. They may burst or leak, causing damage to the other parts. If, for some reason, it becomes necessary to return the instrument to the factory, pack it in a carton with ample padding to protect it during shipment.



1 Activation **Tapway Bottomless Trench**

The Tapway trench requires no field work for activation except removal of the cover plates at the proper locations to access the appropriate electrical cell intersections.

Tapway cover plates can be removed using two different methods, dependent upon covering:

(1) If the floor covering is carpet that is permanently attached to the cover plate,

simply insert a screwdriver into the butt joint between two plates and pry up for easy removal. Subsequent plates can then be removed quite readily.

The screwdriver (pry) method can also be used if the carpeting is installed with the *flap method* of access, and the flaps are secured to the cover plate via a strippable adhesive.

(2) If the floor covering is vinyl tile, asphalt tile, etc. use a vacuum device (suction cups).

Do not use a screwdriver or any other tool to pry up the cover when any type of tile floor covering is used. Marring and cracking of the floor tile will result.

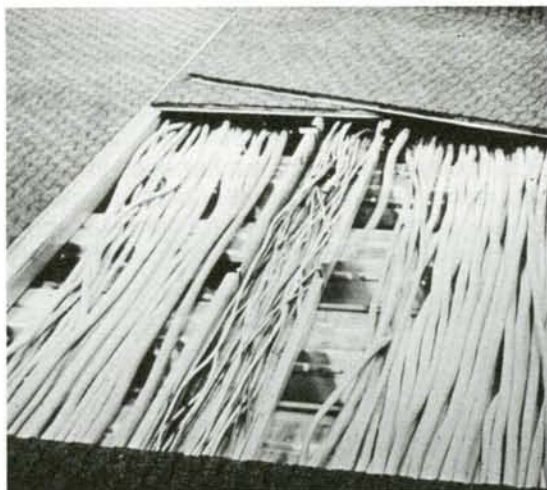
In *carpeted* areas the Tapway trench will not have a gasket at the butt joints of cover plates.

Gaskets mounted on cross bars are available for use at butt joints of cover plates in *vinyl tile and asphalt tile areas*. These gasketed cross bars are removable to facilitate the laying-in of cabling and wiring. Cross bars are a U.L. requirement and a National Electric Code condition which must be maintained. NOTE: Replace cross bars after work is completed.

NOTE: The Tapway trench must be protected against wheel loads in excess of 500 pounds.

NOTE: Older office buildings and areas may not have sufficient trench capacity to meet today's wiring needs.

Existing Robertson systems can be *retrofitted* using the Tapway bottomless trench to satisfy even the most demanding electrical and telecommunications requirements. Contact your Robertson representative for complete details and feasibility assessment.



2 Activation Tapmate Preset Insert

General Information

Normally, the concrete covering each Tapmate preset insert will be thin enough that sharply striking the breakout area over the outlet with a 4 lb. (min) hammer should fracture and loosen the minimal concrete fill over the outlet. (See Detail 15A).

However, when the floor slab is screeded level from the columns (during construction), a greater concrete thickness may be encountered (See Detail 15B) due to compound deflection of the structural support frame and deck.

The following tools are suggested to remove the excessive concrete in the breakout area:

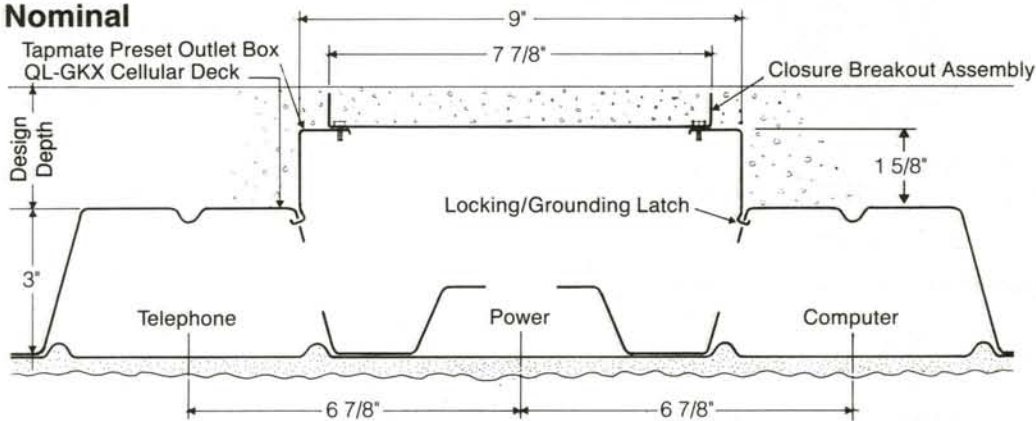
- Heavy Duty $\frac{3}{4}$ " Hammer (#5361)
—electric-powered with (a) brick cleaning chisel (#48-62-0080) or (b) $\frac{5}{8}$ " x 7" cold chisel (#48-62-0070)
Milwaukee Electric Tool Corporation

- $1\frac{1}{2}$ " Heavy Duty Precision Hammer (#5020)—electric-powered with $\frac{7}{8}$ " x 9" Cold Chisel (#7095)
Black & Decker Manufacturing Company
- Super Power Zip Gun (#CP-717)—
airpowered with wide cutting chisel (#A-O47051)
Chicago Pneumatic Tool Company
- Airless (Manually-powered) Jackhammer—
a 25 lb. steel bar with sliding hammer and Moil point bit
Sylvax Corporation

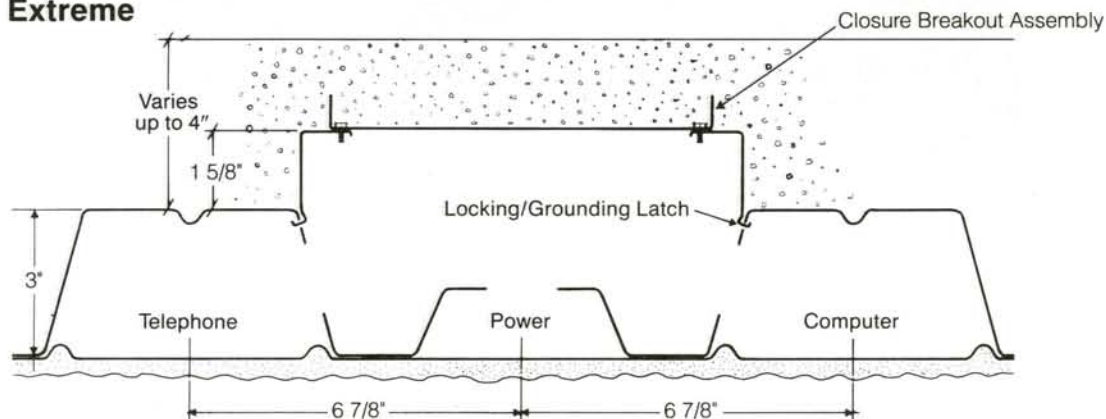
Following concrete breakout, remove all debris with a vacuum cleaner, then remove the two (2) screws holding the breakout pan and pry it out and discard.

At this time, it is recommended that the grommets be installed and that electrical conductors and/or cabling be pulled into the system. Although not mandatory, it does facilitate "fishing" of wires because the opening in the Tapmate body is unencumbered by the various activation elements.

Detail A Nominal



Detail B Extreme



2 Activation Sequence **Tapmate Preset Insert**

Activating the Tapmate unit is a relatively simple process.

First, determine the Tapmate insert's general location by referring to the drawings.

Then, pinpoint the location and orientation of the unit using the "Robertson Electronic Locator." (See instructions on page 13.)

Also provided with the instrument is a carpet cutting template (See instructions for its use on page 20).

A. Prior to floor covering

This sequence illustrates the steps to be taken when activation will occur before the floor covering is applied. This sequence also pertains when "carpet squares" (lift-up type) are used.



1. Locating Tapmate insert at work station

Either the architect or building owner should provide specific workstation location information. Use these drawings and an electronic locator to precisely position insert. (For locator instructions, see page 13).



2. Breaking out concrete

Depending upon concrete fill depth over the breakout area, use either a 4 lb. (min) hammer or tool to penetrate concrete to pan. (Suggested tools are listed on page 15.)



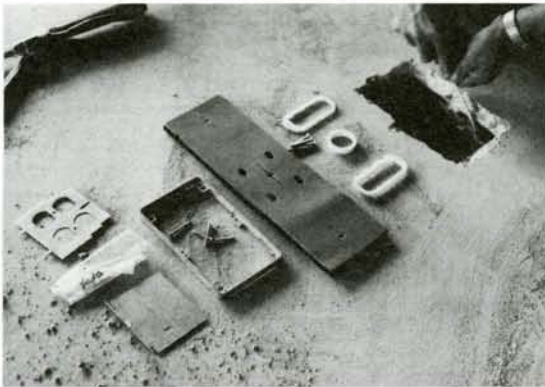
3. Removing knock-out pan

When all debris has been removed, disengage the two hold-down screws, one at each end of the pan. Simply pry out the pan and discard it. After removal of pan, vacuum all debris from box cavity.



4. Tapmate opening

The opening is now ready to receive the activation components.



5. Proper Finishing

Position each part that is to be installed in a sequential manner. Be sure all parts,* items and fasteners are available in the proper quantities. (The drawings on pages 21-25 identify all of the parts for each activation option.)

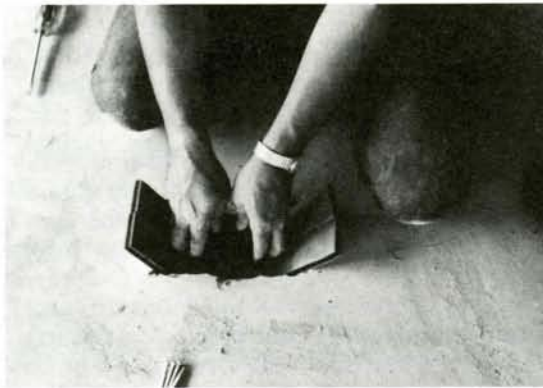
*Although shown, the firepad is *not* normally required.



6. Grommets

Insert the two obround and one circular snap-in bushing grommets into the pre-punched holes in the cellular deck.

NOTE: Power conductors should be pulled from the Tapway trench at this time. Low tension cabling may be pulled at anytime.



7. Fire mat

Although not normally required, special conditions may call for insertion of a neoprene fire mat. If needed, insert and tuck in snugly at this time.



8. Leveling the System*

Install the four #12-24 self-tapping, round-headed leveling screws into the *inner-most* pre-punched holes in the Tapmate IV box. Align the heads approximately $\frac{1}{2}$ " below concrete surface.



9. Partition Plate/Receptacles

Install partition plate with the proper receptacles already mounted and wired into the high tension circuit. At this time, the modular telephone connector plate should be installed.



10. Activating Ring

Place the activating ring on top of the four levelling screws (See Step #8 above) and level the ring to the proper height. (Specific instructions are packed with the appropriate component, usually the partition plate.)

* NOTE: In some activation situations, placement of the activating ring may be required prior to mounting partition plates. When using the metal cover, KED-MC, leveling screws and activating ring are not required.



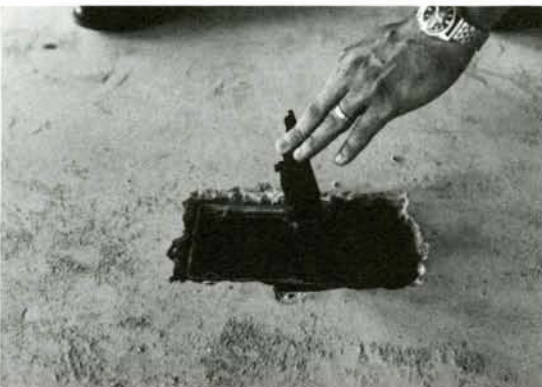
11. Hold-down Screws

Check level and then secure the activating ring with four #8-32 self-tapping, flat-headed hold-down screws into the *outer* pre-punched holes in the Tapmate box.



12. Cover Assembly

Position and install the finished cover assembly. (Cover assemblies vary depending upon activation option selected. The one shown is for the concealed activation.)



13. Check and Level

Finally, check to assure easy cover operation and that the finished outlet is flush (level) with the surrounding concrete floor.

NOTE: If severe concrete "spalling" occurs at the periphery of the activating ring during breakout, back-patch with a suitable mixture or compound. Be careful not to "lock-in" or impair cover operation when back-patching.

2 Activation Sequence Tapmate Preset Insert

B. After floor is covered



This sequence illustrates the steps to be taken when activation will occur after the broadloom carpeting has been laid. In this

situation the Tapmate preset insert is completely hidden, covered by not only the concrete fill but also the carpet.

This is also the sequence that is normally followed when activating inserts *after* a building is occupied.

Again, the initial steps are the same as for uncovered concrete (see page 16). The insert's general location is determined from the engineering drawings. Then, the exact location is determined using the Electronic Outlet Locator (#ED-3)—see instructions on page 13.



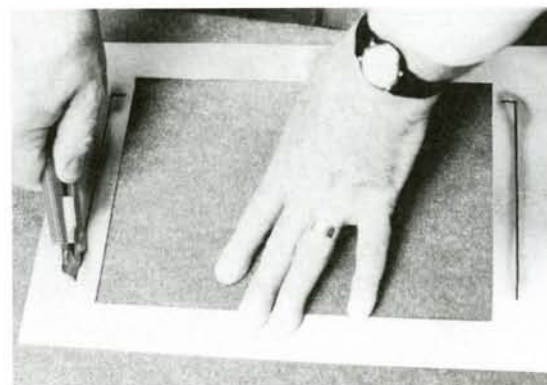
1. Carpet Cutting Template

There is *one important difference* when locating inserts on carpet: the carpet-cutting template *must be used*. This guide is included with the Locator unit.



2. Locator and Template

After the preset insert has been accurately located *and oriented* using the Electronic Locator (page 13) place the template as shown.



3. Marking the Cuts

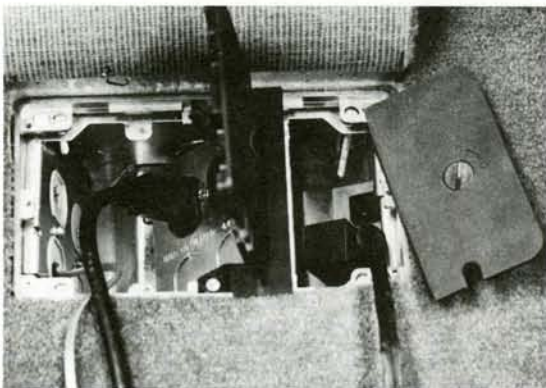
Remove the locator, taking care to maintain the position of the template. Then cut through carpet at ends and corners of template.



4. Finish Cutting

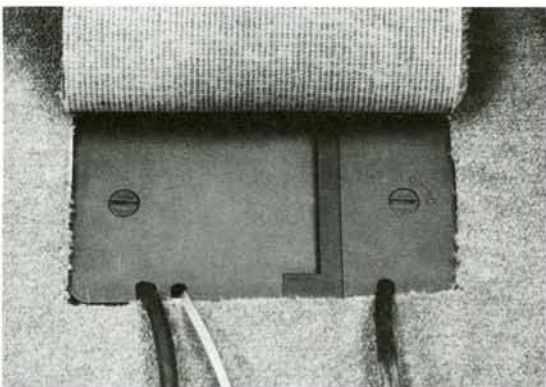
Remove the template, complete the cut and flap back the carpet.

After the carpet has been flapped back, follow steps A2 through A13 (pages 16 through 19) to complete the activation process.



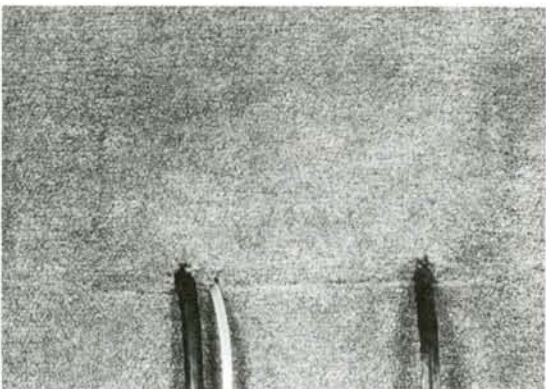
5. Finished Outlet

A typical fully-activated Tapmate Outlet with power, telephone and special services wiring connected.



6. Notched and Closed

The same outlet shown above, but with covers field-notched to accommodate wiring and then closed and latched into operating position—providing a solid floor surface.



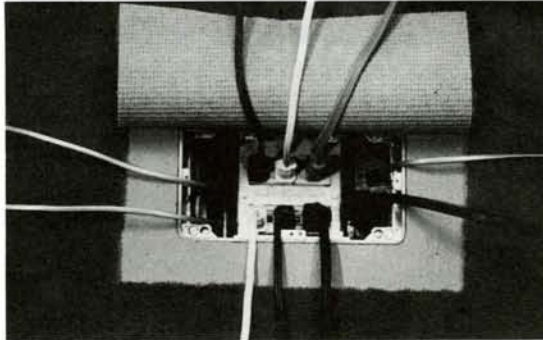
7. Carpet Replaced

Here the carpet has been slit to accommodate the wires and then put back into its original position. (Double-faced tape or adhesive can be used to secure the carpet.)

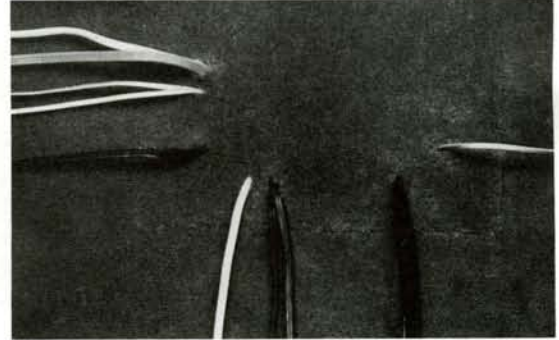
The result is a neat clean wiring egress, in which the wires seem to "almost magically" emerge from the carpet.

Activation Options

Concealed/Horizontal



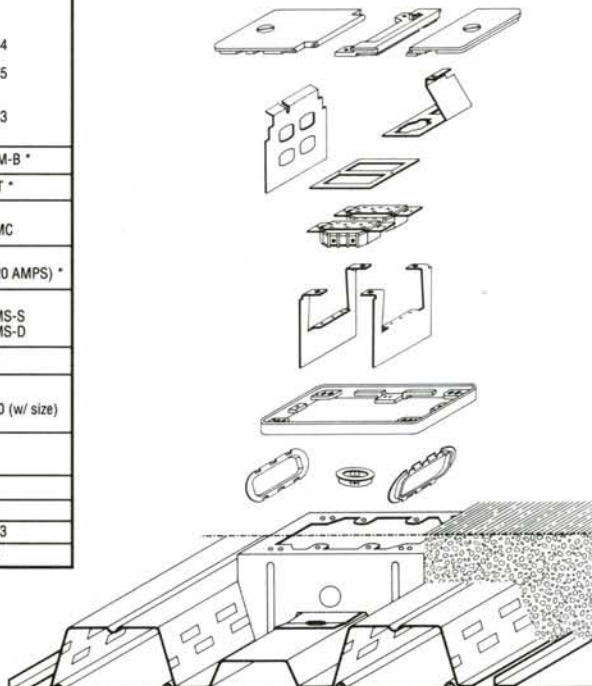
Two recessed duplex receptacles may be mounted horizontally. Two modular tele-



phone jacks plus IBM connector. Wire and cabling emerge from carpet slits.

#	PART DESCRIPTION	PART NUMBER
1	3-Piece Interacting Plastic Cover Assembly	
	Screw Attached Center Plate	KEC-PC4
	Low Tension (CRT/SS) Plastic Cover With Pawl Latch	KEC-PC5
	Hinged Telephone/Power Plastic Cover With Pawl Latch	KEC-PC3
2	IBM Interface Connector Bracket	KEC-IBM-B *
3	Modular Telephone Mounting Bracket	KED-MT *
4	Mounting Cover Duplex	KED-HMC
5	Receptacles Duplex	(15 to 20 AMPS) *
6	Mounting Straps (2) 2 1/2" Concrete Cover All Others	KED-HMS-S KED-HMS-D
7	Activating Ring Assembly	KEC-AX
8	Tapmate IV Grommets 1 1/2" x 3 3/4" S.G. (2) 1 3/4" S.G.	KE-720 (w/ size)
9	Tapmate IV Pre-Set Insert (Prior to concrete pour)	
	Fill Depth	Box
	2 1/2"	KED-S3
	3"	KED-3D3
	3 1/4"	KED-D3

QL-GKX Cellular Floor Deck



- Notes:
1. The screws used to support/secure activating ring to Tapmate IV box provide for variation in actual concrete depth over Tapmate IV boxes.
 2. The concrete type and slab thickness, as well as the requirement for spray-on fireproofing is established in design assemblies as tested and published in the U.L. Fire Resistance Directory. The addition of a neoprene mat that provides additional internal heat resistance is required in specific assemblies.
 3. Tapmate IV pre-set insert boxes are also available for fill depths of less than 2 1/2".

Contact H. H. Robertson.

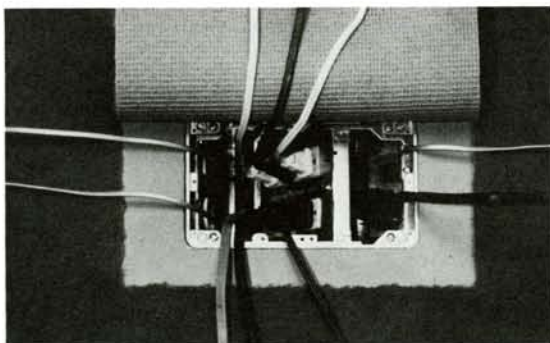
OPTIONAL ACCESSORIES		
10	Plastic Flange Ring	KEC-FR-P
11	Neoprene Filler Ring (Required under KEC-FR-P with tile)	KEC-NF
12	Horizontal Mounting Divider (Used to isolate CRT/SS compartment when req'd.)	KED-HMD
13	Aluminum Deactivation Plate (Used in lieu of cover components)	KEC-FP

Contact H.H. Robertson for other options.

NOTE: Although shown above, triplex receptacles are no longer available.

* Optional

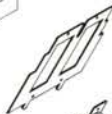
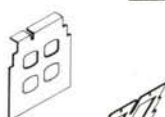
Concealed/Sloped



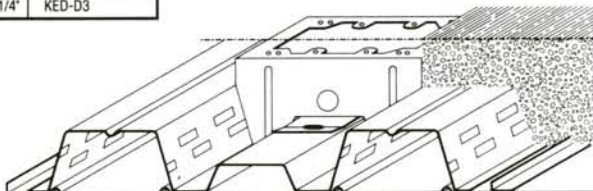
Two recessed duplex receptacles may be mounted on a 33° angle. Two modular

telephone jacks plus IBM connector. Wire and cabling emerge from carpet slits.

#	PART DESCRIPTION	PART NUMBER
1	3-Piece Interacting Plastic Cover Assembly	
	Screw Attached Center Plate	KEC-PC4
	Low Tension (CRT/SS) Plastic Cover With Pawl Latch	KEC-PC5
	Hinged Telephone/Power Plastic Cover With Pawl Latch	KEC-PC3
2	IBM Interface Connector Bracket	KEC-IBM-B *
3	Modular Telephone Mounting Bracket	KED-MT *
4	Partition Plates	
	Receptable Box*	Plate
	Duplex KED-S3	KED-4.4V
	Duplex KED-D3 or 3D3	KED-5.0V
	*See item 9	
5	Receptacles Duplex	(15 to 20 AMPS) *
6	Box Divider 2 1/2" Concrete Cover All Others	KED-BD-S KED-BD-D
7	Activating Ring Assembly	KEC-AX
8	Tapmate IV Grommets 1 1/2" x 3 3/4" S.G. (2) 1 3/4" S.G.	} KE-720 (w/ size)
9	Tapmate IV Pre-Set Insert (Prior to concrete pour)	
	Fill Depth	Box
	2 1/2"	KED-S3
	3"	KED-3D3
	3 1/4"	KED-D3



QL-GKX Cellular Floor Deck



OPTIONAL ACCESSORIES		
10	Plastic Flange Ring	KEC-FR-P
11	Neoprene Filler Ring (Required under KEC-FR-P with tile)	KEC-NF
12	Aluminum Deactivation Plate (Used in lieu of cover components)	KEC-FP

Contact H.H. Robertson for other options.

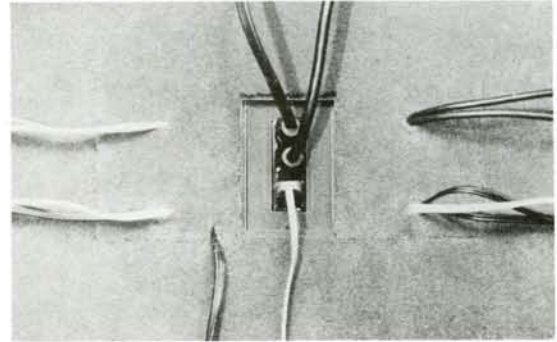
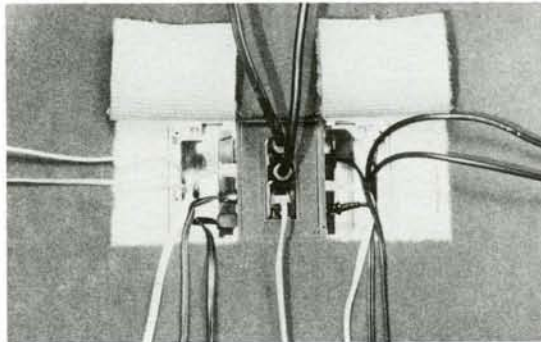
- Notes:
1. The screws used to support/secure activating ring to Tapmate IV box provide for variation in actual concrete depth over Tapmate IV boxes.
 2. The concrete type and slab thickness, as well as the requirement for spray-on fireproofing is established in design assemblies as tested and published in the U.L. Fire Resistance Directory. The addition of a neoprene mat that provides additional internal heat resistance is required in specific assemblies.
 3. Tapmate IV pre-set insert boxes are also available for fill depths of less than 2 1/2".

Contact H. H. Robertson.

NOTE: Although shown above, triplex receptacles are no longer available.

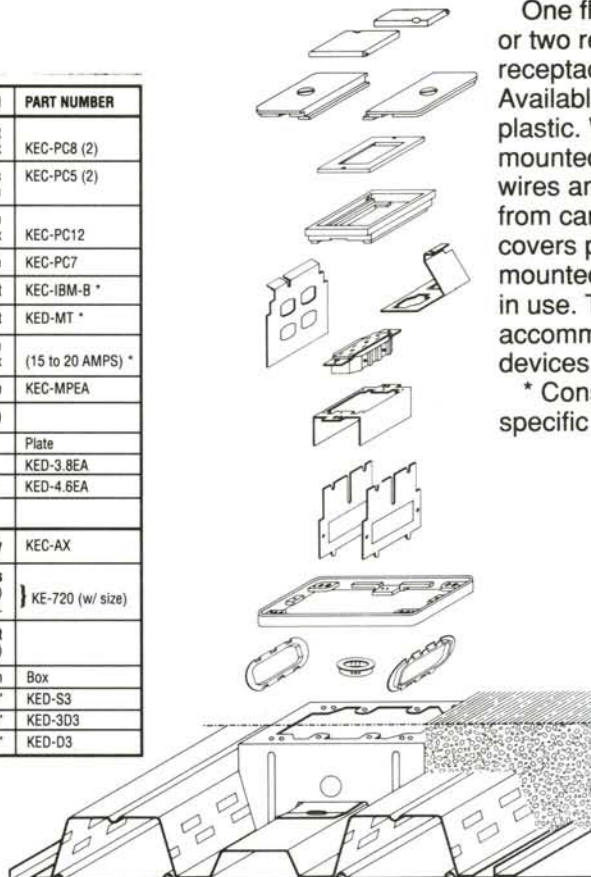
* Optional

Easy Access/Standard



#	PART DESCRIPTION	PART NUMBER
1	Hinged Cover Set Duplex	KEC-PC8 (2)
2	Low Tension (CRT/SS) Plastic Covers With Pawl Latch	KEC-PC5 (2)
3	Face Plate Duplex	KEC-PC12
4	Center Frame	KEC-PC7
5	IBM Interface Connector Bracket	KEC-IBM-B *
6	Modular Telephone Mounting Bracket	KED-MT *
7	Receptacle Duplex	(15 to 20 AMPS) *
8	Surface Receptacle Mounting Plate	KEC-MPEA
9	Easy Access Partition Plates (2)	
	Receptable Box*	Plate
	Duplex	KED-S3 KED-3.8EA
	Duplex	KED-D3 or 3D3 KED-4.6EA
	*See item 12	
10	Activating Ring Assembly	KEC-AX
11	Tapmate IV Grommets 1 1/2" x 3 3/4" S.G. (2) 1 3/4" S.G.	} KE-720 (w/ size)
12	Tapmate IV Pre-Set Insert (Prior to concrete pour)	
	Fill Depth	Box
	2 1/2"	KED-S3
	3"	KED-3D3
	3 1/4"	KED-D3

QL-GKX Cellular
Floor Deck



One flush mounted duplex or two recessed duplex receptacles* IBM connector. Available in brown or gray plastic. With exception of flush mounted receptacle, all other wires and cabling emerge from carpet slits. Hinged covers protect the flush mounted receptacle when not in use. This activation can accommodate 250 volt wiring devices.

* Consult H.H. Robertson for specific details

OPTIONAL ACCESSORIES		
13	Plastic Deactivation Cover (Used in lieu of KEC-PC7)	KEC-PC6
14	Plastic Flange Ring	KEC-FR-P
15	Neoprene Filler Ring (Required under KEC-FR-P with tile)	KEC-NF
16	Aluminum Deactivation Plate (Used in lieu of cover components)	KEC-FP

Contact H.H. Robertson for other options.

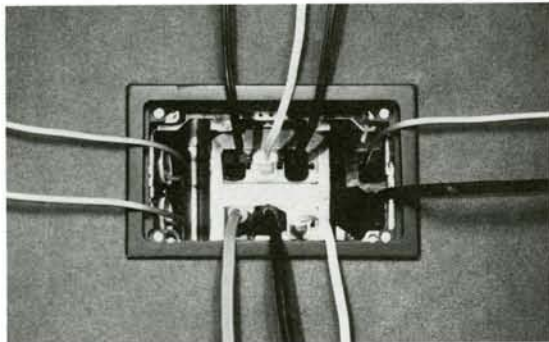
- Notes:
- The screws used to support/secure activating ring to Tapmate IV box provide for variation in actual concrete depth over Tapmate IV boxes.
 - The concrete type and slab thickness, as well as the requirement for spray-on fireproofing is established in design assemblies as tested and published in the U.L. Fire Resistance Directory. The addition of a neoprene mat that provides additional internal heat resistance is required in specific assemblies.
 - Tapmate IV pre-set insert boxes are also available for fill depths of less than 2 1/2".

Contact H. H. Robertson.

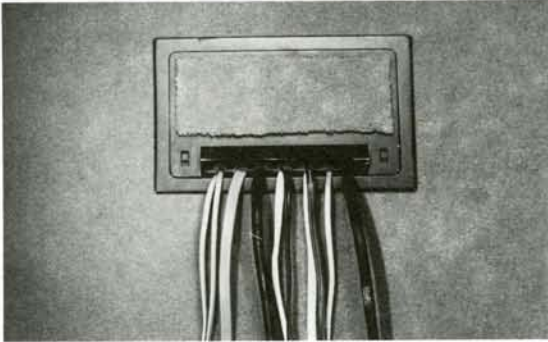
NOTE: Although shown above, triplex receptacles are no longer available.

* Optional

Easy Access/Deluxe

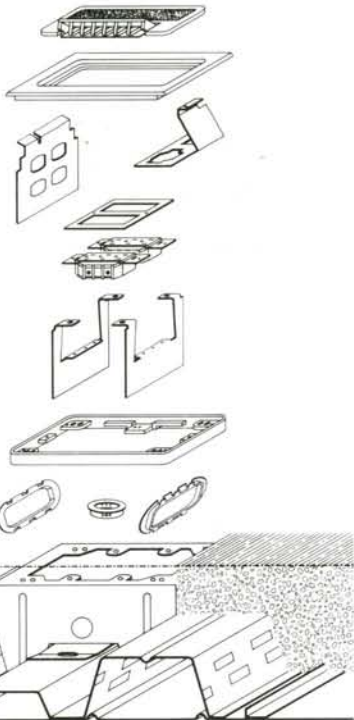


Two recessed horizontal duplex receptacles. Two modular telephone jacks plus IBM connectors. Choice of brown or gray carpet flange assembly with recess to accommodate floor covering. All wires and



cabling emerge from the protected exit (which closes flush when deactivated). This activation also accepts the multiplex option, see page 26.

#	PART DESCRIPTION	PART NUMBER
1	Deluxe Cover With Access Door Assembly	KED-NAC
2	Flange Ring	(Inc. w/ KED-NAC)
3	IBM Interface Connector Bracket	KEC-IBM-B *
4	Modular Telephone Mounting Bracket	KED-MT *
5	Mounting Cover Duplex	KED-HMC
6	Receptacles Duplex	(15 to 20 AMPS) *
7	Mounting Straps (2) 2 1/2" Concrete Cover All Others	KED-HMS-S KED-HMS-D
8	Activating Ring Assembly	KEC-AX
9	Tapmate IV Grommets 1 1/2" x 3 3/4" S.G. (2) 1 3/4" S.G.	KE-720 (w/ size)
10	Tapmate IV Pre-Set Insert (Prior to concrete pour)	
	Fill Depth	Box
	2 1/2"	KED-S3
	3"	KED-3D3
	3 1/4"	KED-D3



QL-GKX Cellular
Floor Deck

OPTIONAL ACCESSORIES		
11	Neoprene Filler Ring (Required under flange ring with tile)	KEC-NF
12	Aluminum Deactivation Plate (Used in lieu of cover components)	KEC-FP

Contact H.H. Robertson for other options.

NOTE: Although shown above, triplex receptacles are no longer available.

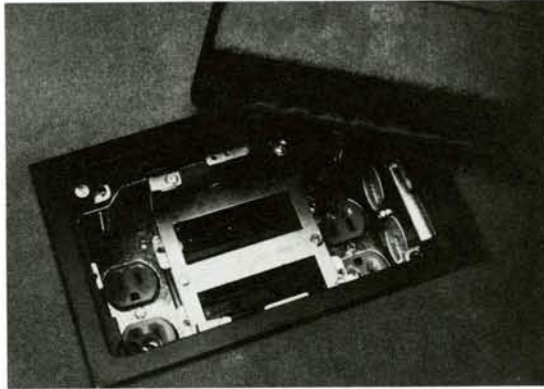
- Notes:
- The screws used to support/secure activating ring to Tapmate IV box provide for variation in actual concrete depth over Tapmate IV boxes.
 - The concrete type and slab thickness, as well as the requirement for spray-on fireproofing is established in design assemblies as tested and published in the U.L. Fire Resistance Directory. The addition of a neoprene mat that provides additional internal heat resistance is required in specific assemblies.
 - Tapmate IV pre-set insert boxes are also available for fill depths of less than 2 1/2".

Contact H. H. Robertson.

Colors available: Brown
Gray
Blue
Claret
Green
Off-White

* Optional

Activation Options

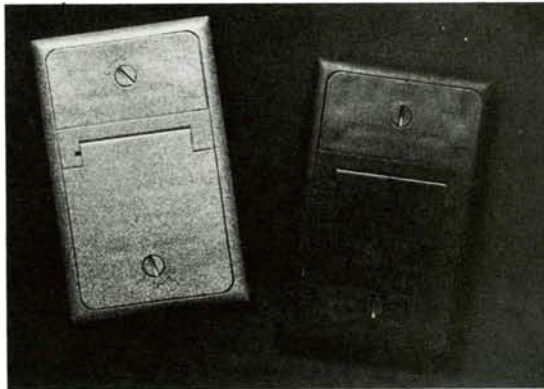


◀ Multiplex Activation

This Multiplex activation is available only with the Easy Access Deluxe Mode. It provides the capability to activate a workstation with four duplex receptacles.

This is an ideal arrangement for a workstation that requires normal power and either an isolated ground or a specially-filtered power circuit.

In addition to the high tension service, a modular telephone jack may be mounted in one of the communication cells and data wiring remains available in the other.

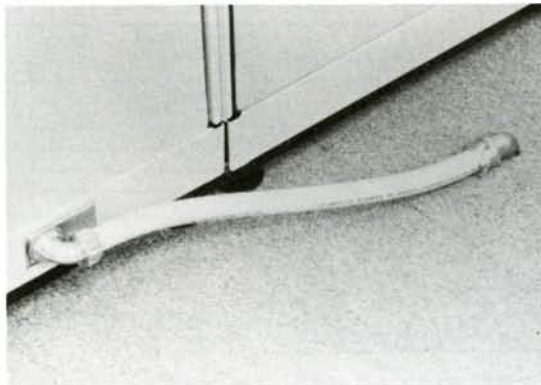


◀ Color Options

The plastic hinged tops for Concealed activations, when used with the flange ring accessory, are available in brown and gray. When used with vinyl tile, the neoprene filler ring (KEC-NF) is required.

Flat Cable Interface

When carpet squares are used as the floor covering, Robertson has the details and components that permit interface between FCC cables and the Tapmate concealed activation option.



◀ Hardwired Partitions

Both the Concealed and the Standard Easy Access units can be easily adapted to accommodate pre-or hard-wired partitions.

Aftersets

In addition to the Tapmate preset insert, the Taproute system will accommodate afterset service fittings in either flush or monument styles. Photos and descriptions are in catalog EF352, page 7.

NOTE: Although shown above, triplex receptacles are no longer available.

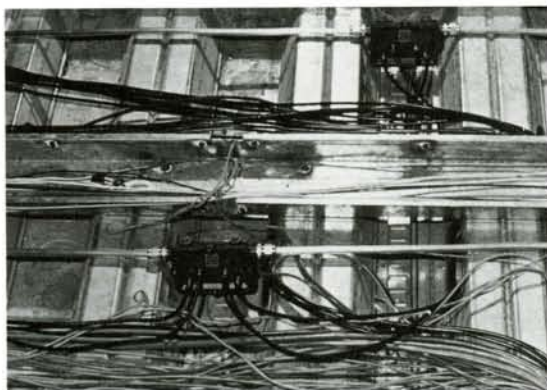


◀ Surge Suppressor

This unit is compatible only with a flush-mounted duplex receptacle on the *Standard Easy Access* unit.

High Voltage Capability

The Easy Access (Standard) option can accommodate 250 volt wiring devices, if required. Please consult H.H. Robertson for details and maximum capacity.



◀ Local Area Networking

Because of the patented "bottomless" configuration of Robertson's distribution trench, there is more than adequate space available to accommodate LAN connectors, even in high wire-density situations.

Deactivation

When workstations are temporarily deactivated, replace the existing plastic cover components with new uncut cover pieces (or an aluminum plate) fastened to the activating ring.

NOTE: Each Tapmate outlet can be accessed through the bottom of the cell in order to downfeed into the floor below, if desired.

Robertson's Activation HELP Line

Technical Assistance • Availability • Price Quotes

Call Robertson Floor Systems

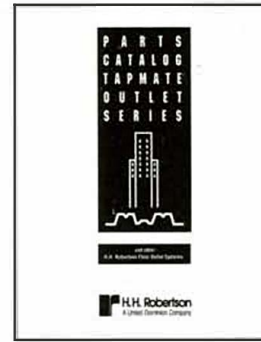
TOLL FREE: 1-800-932-0706



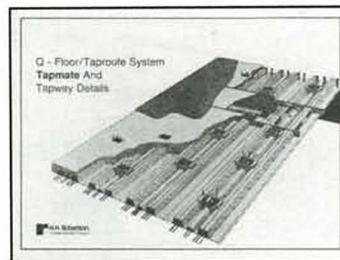
Q-Floor/Taproute
EF-100



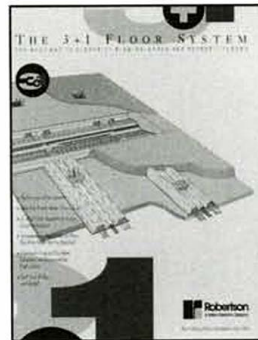
Activation Options
EF-242



Parts Catalog
EF-352



Tapmate/Tapway Details
EF-180



The 3+1 System
EF-102

H.H. Robertson Floor System

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