

**Kingsville Independent School District  
Instructional Technology Department  
Harrel Elementary School – Port Density E-Rate 2010  
925 W. Johnston Ave  
Kingsville, TX 78363**

**MDF (look for room #13 in map) → will be converted into IDF #1 after the Catalyst 4507 is removed**

3 Patch panels available

- 48 port patch panel - 48 cables
- 48 port patch panel - 48 cables
- 48 port patch panel - 30 cables

Total number of existing cable drops **126**

Total number of additional cable drops necessary **18**

The existing CISCO Catalyst 4507 will be removed and instead CISCO PoE switches are to be used  
Service providers must include enough PoE switches to support all network connections at this location

Include one APC SUA 1000 UPS RM 2U per switch used at this IDF location

Existing 4' wall mounted cabinet is not to be replaced

Include cooling fan kit for 4' cabinet at this IDF location

**IDF1 ("Lounge" in map) → Will convert into MDF and moved to room #22 next to kitchen area**

No patch panels at this IDF location; the cables connect directly into the switches

- 24 port CISCO switch has 4 cables connected
- 48 port CISCO switch has 8 cables connected
- 24 port CISCO switch has 0 cables connected

Install one 24 port patch panel and punch lines in

Total number of existing cable drops **12**

Total number of additional cable drops necessary **12**

Existing Catalyst 4507 at MDF (room 13) will be replaced by 6500 series Catalyst (6509) with 1 PoE blade

New Catalyst 6500 series needs only one 48 port PoE blade; it will replace existing switches

New Catalyst 6500 series unit will have a 10 Gig blade and maximum of 8 ports 2 to 1

No CISCO switches are necessary at this location

Existing APC Symmetra 6K, step down and extended run need new battery and power modules replaced

**Proposed IDF2 - School expansion (new wing)**

Total of 10 new rooms added to existing facility

- Hallway area will receive 9 drops
- 7 rooms will receive 12 drops
- 1 room will receive 8 drops
- 1 room will receive 6 drops
- 1 room will receive 30 drops

Total of **137** new drops necessary

Include three 48 port patch panels at this IDF location

Include one 4' cabinet with perforated-screen front door for ventilation

Include cooling fan kit for 4' cabinet at this IDF location

Three (3) CISCO PoE switches necessary to support network connections

Include one APC SUA 1000 UPS RM 2U per switch used at this IDF location (total of three)

**Campus-wide total number of cable drops necessary = 175**

#### **ADDITIONAL (SUMMARY) NOTES**

- All switches to be replaced
- This campus is to receive an additional 8 Cisco Light Weight Access Points
- All surface mounted raceway (if necessary) must be Wiremold v2000 series
- IDFs will have dedicated 10 Gig single mode armored fiber connections (home-run fiber links)
- This campus location has 1 – 7960 with expansion module and 6 – 7940; they are to remain
- Additional 30 CISCO telephone units necessary
- One (1) CISCO wireless phone or equivalent for PE coach to use outside in covered play area
  - Cisco Antenna for wireless CISCO phone to be installed at covered play area
- New paging and intercom system integrated into proposed network upgrade and phone system
- Non-eligible: new IP based Camera System with 20 interior Axis cameras and 16 exterior cameras
  - Camera server must be DELL R710 and PowerVault unit with 15T storage capacity
  - UPS for camera server must be APC 2200XL with extended run unit
  - APC cabinet necessary to house camera equipment (42Us Model AR3100)
- Catalyst 4507 will be replaced by CISCO Catalyst 6500 series
- 6500 series Catalyst (6509) must have only one PoE blade
- New 6500 series unit will have 10 Gig blade and maximum of 8 ports 2 to 1
- Battery and power modules for APC Symmetra 6K with Step Down and Extended Run

If additional information or clarification is necessary, please contact me at (361) 675-0579. You can also email you questions at [jvcruz@kingsvilleisd.com](mailto:jvcruz@kingsvilleisd.com)