KeyCenter
Bid Information

1. Provide, install, and test Approximately **(21)** Cat 5e(White), Cat 5e(Red), and Cat 6e(Yellow) stations using Siemon CT couplers per print **D-2A**. Note: All CT coupler to be "computer labeled" with corresponding cable number and color. 1100 – 1999 the 1st 1 represents floor number. 2nd 1 represents closet number and the last 3 digits represent the actual cable number.
2. Test results to be provided electronically to Key Bank (MS Excel preferred).
3. Standard RJ coupler configuration per station. 1 - CT-C5-C5-XX for white and red Cat 5e cables and 1- CT-C5-XX for yellow Cat 6e cable.
4. All Siemon CT couplers to have appropriate colored icon for identification. Note: White – Voice, Red – LAN and Yellow – Miscellaneous Data.
5. Modular furniture adapter (CT-MFO-xxx-xx) – dependent on brand and color of furniture.
6. All horizontal Cat 5e White cables in MDF/ETO room to be terminated on Siemon 300pr 110 blocks. Note: All 300pr blocks to be "computer labeled" with corresponding cable number. 1001 – 1999, the 1st 1 represents floor number. 2nd 1 represents closet number and the last 3 digits represent the actual cable number.
7. All horizontal Cat 5e Red cables in MDF/ETO room to be terminated on Siemon HD5-48 (568A) or (HD5-24 if specified) patch panels. Note: All patch panels to be "computer labeled" with corresponding **cable number and color**. 1001 – 1999, the 1st 1 represents floor number. 2nd 1 represents closet number and the last 3 digits represent the actual cable number.
8. All horizontal Cat 6e Yellow cables in MDF/ETO room to be terminated on Siemon HD6-48 (568A) or (HD6-24 if specified) patch panels. Note: All patch panels to be "computer labeled" with corresponding **cable number and color**. 10001 – 11999, the 1st 1 represents floor number. 2nd 1 represents closet number and the last 3 digits represent the actual cable number.
9. All Horizontal cables to be "computer labeled" at each end with corresponding cable number. 11001 – 11999 the 1st 1 represents floor number. 2nd 1 represents closet number and the last 3 digits represent the actual cable number.
10. All exposed horizontal cables on the station end should be spiral wrapped with black spiral wrap. Where floor Poke Thru is required, use Hubbell Wiring Device-Kellems Product - Through-Floor Fittings - **PT2FIT**, Flush Furniture Fitting - **FF2BK** to accommodate maximum of - 24 Cat 5e and 12 Cat 6e cables. Finish w/ 2" 90° fitting and spiral wrap exposed cables going into furniture system

11. Provide the following patch cords:

Quantity	Color	Type	Length
28	Red	Cat 5e	5'
28	Red	Cat 5e	10'
4	Red	Cat 5e	14'
9	Yellow	Cat 6e	5'
1	Yellow	Cat 6e	7'
8	Yellow	Cat 6e	10'

12. Install all MDF/BHO room patch cords. All patch cords to be "computer labeled" at both ends with in 1" of RJ-45 connector with associated station number. Note: Patch cords to be no longer than 1' of actual length required and to be of appropriate color Red or Yellow. The additional patch cords to remain on site as spares.
13. Install **(21)** 10' ***station*** patch cords for all Cat 5e Red jacks.
    Note: Patch cord color to be red.
14. Install 10' ***station*** patch cords for Cat 6e Yellow jacks where required per cut sheets.
    Note: Patch cord color to be yellow.
15. All patch cords to be ordered through Rexel Datacom:
    Scott Shaw (Datacom Manager)
    Rexel Datacom
    Office: (440) 248-3800 ext. 587 - Cell (216) 470-1958 - E-Mail: sshaw@rexelusa.com
16. All Cat 5e Red patch panel ports to be ported into Cisco switches. Note: Patch panel parts to be installed on a one for one basis and to be consecutive. Patch panel port 4001 should be ported into Cisco switch port 1, patch panel port 4002 should be ported into Cisco switch port 2 and so on. (Equipment configurations may very, please verify with cut sheet)
17. Cat 6e Yellow patch panel parts will be patched into the Cisco switch as required per cut sheet.

18. Provide and install CADDY *(brand name)* J-Hooks for horizontal pathway.
    Install per manufacture specifications.
    CADDY Series # (www.erico.com)

Series	Maximum Cable Count
CAT12	16 UTP cables
CAT21	50 UTP cables
CAT32	80 UTP cables
CAT64	300 UTP cables
CAT425	220 UTP cables w/ 4" loop
CAT425	425 UTP cables w/ 6" loop

    Note: Cable to be supported every 5' per Siemon specifications or local code which ever is the shortest span for the cables.
19. Provide, install and test **(12)** Cat 5e cables from – Siemon 110 Modular Jack Wall Mount Block (S110AB5-100JPT) "Telco HD5" mounted on the Telco backboard to ports 1-12 on the Siemon HD5-24 patch panel in the equipment rack along with **(6)** Cat 5e cables from the second 25 pair the Siemon 100pr 110 block (S110AB2-100FT) "Telco HD5" mounted on the Telco backboard to ports 13-18 on the same Siemon HD5-24 patch panel in the equipment rack along with **(6)** Cat 5e cables from the third to last 25pr of the last 300pr 110 "Equipment" block to ports 19-24 on the same 24 port patch panel - HD5-24 (568A) in the equipment rack per print **D-1A**.
    Note: Cables to be Cat 5e White and "computer labeled" – Telco Patch Panel 1 – 24.
    Port 1 - 12 Modular connections to Telco Wall
    Port 13 - 18 Miscellaneous Telco
    Port 19 - 24 Fax Machines (to stations)
20. Provide install and test **(1)** 25pr cable from the second to last 25pr of the last 300pr 110 "Equipment" block to the first 25pr of the 100pr 110 block (S110AB1-100FT) on Telco Wall.
    Note: Cable to be Cat 3 and "computer labeled" – TELCO.
21. Provide, install and test **(1)** 25 cable from equipment rack (3745 or 2611 Router) to the last 25pr of last 300pr 110 "Equipment" block mounted on backboard as per print. Note: Cable to be Cat 3 and "computer labeled" – AVVID terminate equipment end of cable with a 180 Straight 50 pin AMP connector and leave at (3745 or 2611 Router) in row 1, (Right / Left 90 angle connector will not fit equipment).
22. Provide and install per Print **D-1A (2)** Ortronics 19"x6½" racks (OR-60400159)
23. All relay racks to have Anti-sway support per local code.
24. Provide and install **(1)** Siemon HD5-24 and **(1)** Siemon HD5-48 patch panel s) per print **D-1A** view **104**.
25. Provide and install **(1)** Siemon HD6-48 patch panel(s) per print **D-1A** and view **104**.

26. Provide and install (4) Siemon 110 blocks with associated wire management per print **D-1A** view **100, 101**. **Note:** *Terminate with **C4** 4-pair connecting blocks, blue/orange/green/brown.*
27. Provide and install all 2", 3", 4" and 6" 'D' rings per print **D-1A**.
28. Provide and install **(4)** Siemon horizontal wire managers (WM-145-5) per print **D-1A** view **104**.
29. Provide and install **(3)** Siemon horizontal wire managers (WM-143-5) per print **D-1A** view **104**.
30. Provide and install **(3)** AMP Cable Support Bar "D" Rings (557548-1) on rear of patch panels, http://www.ampnetconnect.com.
31. Install the following:
    (2) vertical plug strip(s) (Wiremold G-20IG512 w/ 6' SO Cord w/ L5-20P)
    (1) extension cord(s) [12-3 SJO Cord with (NEMA L5-20P) on top and (NEMA 5-20R) on bottom], for rack UPS
    (1) extension cord(s) [12-3 SJO Cord with (NEMA 5-15P) at rack and (NEMA 5-15R) at PBX] for key system UPS per print D-1A.

    Note: Vertical plug strip(s) and extension cord(s) to be provided by electrical contractor. Length depicted on print **D-1A**.
32. Provide and install **(1)** horizontal plug strip (Wiremold - J06B0BX) per print **D-1A** view **104**.
33. Provide and install **(4)** CPI double-sided shelves 6" (12293-719) per print **D-1A** view **104**.
34. Provide and install **(1)** CPI keyboard shelf (11546-701) per print **D-1A** view **104**.
35. Provide and install Cable Tray as per print **D-1A** if shown.
36. Provide per each ATM Location. **(1)** ATM(s) at this site.
    1 - Cat 5E White, 1 Cat 5E Red and 1 Cat 6E Yellow
    1 - 12.5pr Conductor Low Cap ATM cable (EDDC) from ATM location to MDF/ETO room
    3 - 4pr Conductor 22AWG Stranded Shielded cable to Alarm Panel
    1 - RG59 / two Conductor 18AWG Siamese cable (plenum Belden 649948 or PVC Belden 549945) (outside camera, customer) + (1) red cat 5E (to CCTV / DVR equipment location.
    1 - RG59 / two Conductor 18AWG Siamese cable (plenum Belden 649948 or PVC Belden 549945) (inside camera, vault) to CCTV / DVR Equipment location.

    NOTE: If ceiling requires Plenum Rated cable, a 1" Conduit will need to be installed from ATM Room and stubbing into MDF/ETO room.
    NOTE: Island ATM to have (3) 1½" conduits from MDF/ETO room to ATM location.
    1 – Power
    1 – Security
    1 – Voice/Data and EDDC cable
37. Provide, install, and test **(1)** – RG6U Coax from teller row home run to Inlighten Server in MDF/ETO room for Inlighten System, per print **D-2A**. Cross-connect measured business line from Telco D'marc to port 22 of Telco Patch Panel. Note: All Coax to be "computer labeled" with corresponding cable number. 1001 – 1099 the 1st 1 represents floor number. 2nd 1 represents closet number and the last 3 digits represent the actual cable number 001 – 099.

38. Provide, install, and test **(1)** RG6U Coax for CATV, per print **D-2A**, home run to CATV backboard in MDF/ETO room. Note: All coax to be "computer labeled" with corresponding cable number. 1001 – 1099 the 1st 1 represents floor number. 2nd 1 represents closet number and the last 3 digits represent the actual cable number 001 – 099.
39. Provide and install Siemon splitters for Cat 5e white voice cable per cut sheets (YT4-U2-U2) (fax, modem, recorded lines etc.)
40. Post drawing **D-1A** in the MDF/ETO room in a conspicuous location to facilitate proper vendor equipment placement. Contact Dave French at (216) 689-9792 or David_L_French@KeyBank.com for additional drawings if necessary.
41. Provide all cross connects and equipment installation support. Note: Telco installation support and cross connects of Voice and Data cross connects and patching.
42. Provide on site support for scheduled move(s) to support any potential connectivity issues.
43. All connecting hardware must be Siemon Company.
44. All connecting hardware to be wired **568A**.
45. Cable installer to be a Siemon Company Certified Installer.
46. All horizontal cable must be CommScope or Mohawk/CDT.

Color	Plenum	Non-plenum	Manufacture
White	550M	55N4R	CommScope
Blue	5504M	55N4R	CommScope *(if required)*
Red	5504M	55N4R	CommScope
Yellow	6ECMP	6ECMR	CommScope **(Cat 6e)**
White	M55988	M55989	Mohawk/CDT
Blue	M56168	M56167	Mohawk/CDT *(if required)*
Red	M56072	M56670	Mohawk/CDT
Yellow	M57415	M57420	Mohawk/CDT **(Cat 6e)**

Acronyms

CATV – Cable Television
CCTV – Closed Circuit Television
CRE – Corporate Real-estate
EDDC – Extended distance data cable
ETO – Enterprise Technology Operations
MDF – Main Distribution Frame

KeyCenter **Date: 8/28/03**

Environmental Totals (Move-in)

Qty	Product / Model	Description	Location	BTU/Hr	Amps	Voltage	Weight Lbs.	Dim H x W x D	Rack Units
1	Cisco 3745	Router	Row 1 Rack 2	2014	10.0	117	32	5.25 x 17.25 x 16	3
2	Cisco 3524PWR XL	Switch	Row 1 Rack 2	2218	5.6	117	24	1.75 x 17.5 x 11.8	2
1	IBM Server xSeries 232	Server	Row 1 Rack 2	1707	4.3	117	83	16.8 x 8.6 x 26	10
1	Inlighten System	Server	Row 1 Rack 1	1707	4.3	117	83	12.93 x 10 x 21	8
1	APC 2200 NET	UPS	Row 1 Rack 2	275	0.2	117	112	17 x 7.7 x 21.5	10
1	Lucent Partner ACS System	Key System	Row 1 Rack 1	682	1.8	117			
1	DVR Lanex Net DVR	Digital Video Recorder	Wall Field	409	1.5	117	10	1.75 x 17 x 11.5	1
1	DVR Camera Power Supply	Camera Power Supply	Wall Field	1198	3.0	117	17	16.13 x 10.86 x 4.37	
2	Monitor	Monitor	Row 1 Rack 1	778	3.0	117	80	15.2 x 16.7 x 12.3	18
1	PC	Computer	Row 1 Rack 1	1024	2.6	117	30		
1	External Modem	External Modem	Row 1 Rack 1	167	0.4	117	2		
			Totals	**12179**	**36.7**		**472.0**		**52**

Environmental Totals (Future) = (*Move-in* + *Growth*)

Qty	Product / Model	Description	Location	BTU/Hr	Amps	Voltage	Weight Lbs.	Dim H x W x D	Rack Units
1	Cisco 3745	Router	Row 1 Rack 2	2014	10.0	117	32	5.25 x 17.25 x 16	3
2	Cisco 3524PWR XL	Switch	Row 1 Rack 2	2218	5.6	117	24	1.75 x 17.5 x 11.8	2
1	Inlighten System	Server	Row 1 Rack 2	1707	4.3	117	83	12.93 x 10 x 21	8
1	IBM Server xSeries 232	Server	Row 1 Rack 2	1707	4.3	117	83	16.8 x 8.6 x 26	10
2	APC 2200 NET	UPS	Row 1 Rack 2	550	0.4	117	224	17 x 7.7 x 21.5	20
1	Lucent Partner ACS System	Key System	Row 1 Rack 1	682	1.8	117			
1	DVR Lanex Net DVR	Digital Video Recorder	Wall Field	409	1.5	117	10	1.75 x 17 x 11.5	1
1	DVR Camera Power Supply	Camera Power Supply	Wall Field	1198	3.0	117	17	16.13 x 10.86 x 4.37	
2	PC	Computer	Row 1 Rack 1	2048	5.2	117	60		
2	Monitor	Monitor	Row 1 Rack 1	778	3.0	117	80	15.2 x 16.7 x 12.3	18
2	External Modem	External Modem	Row 1 Rack 1	334	0.8	117	4		
			Totals	**13645**	**39.9**		**616.0**		**62**

NOTE: CABLE VENDOR IS RESPONSIBLE TO PROVIDE & INSTALL ALL CABLING FOR THE ETO ROOM & DIEBOLD SECURITY SYSTEM. REFER TO DIEBOLD CABLING SPECIFICATION DWG FOR LOCATION, TYPE, & MFG.

NOTE: VERTICAL PLUG STRIPS AND EXTENSION CORDS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LENGTH DEPICTED ON PRINT D-1A

NOTE: THIS PLAN IS FOR REFERENCE ONLY! FINAL CABLING PLAN WILL BE ISSUED BY RJC

KeyCorp

Design by:

RJC Consulting
Data Communications Systems Design
Project Management
20364 Morar Circle
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Bid Information

KeyCenter
85 Commercial Street
Long Warf
Portland, ME 04101

Notes:
- See Sheet D-1A for MDF/ETO room detail.

Questions pertaining to this drawing,
please contact: Key Bank,
David L. French
Office (216) 689-9792
Pager (888) 701-2942

Date: *8/15/03*
Last Date Revised: *8/28/03*
Spreadsheet: *N/A*
Prepared By: *R. Csontos*
Scale: *As Noted*
Drawing Name: *85 Commercial Street-01.dwg*

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