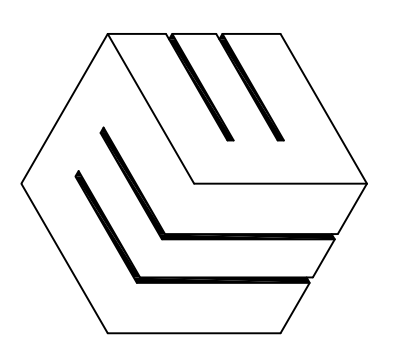


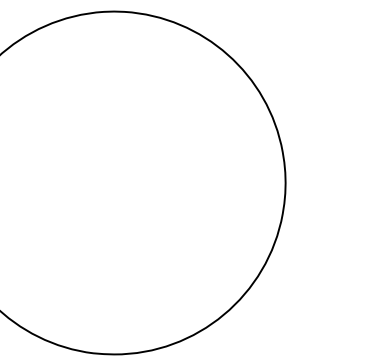
**SITE PLAN**  
SCALE: 1"=100'

① ②

**ELECTRICAL NOTES**

- ① REFER TO DRAWING E2 FOR CONDUIT MATRIX OF COMMUNICATION WIRES IN EACH DUCT BANK.
- ② ALL DUCT BANK NUMBERS SHOWN ARE FOR COMMUNICATIONS CONDUITS ONLY.

|  |  |  |                   |
|--|--|--|-------------------|
|   | <p><b>Minnich Engineering &amp; Associates</b><br/>Electrical Engineers<br/>2013 Bonita Court<br/>Harrisburg, Pa 17110<br/>717-526-9804 717-526-9805</p> |  |                   |
| <p><b>Cheran Inc.</b><br/>3552 Gettysburg Road, Suite 101<br/>Camp Hill, PA 17011<br/>717-525-9461 717-525-9463</p>  | <p>C:\Documents and Settings\TKW\Desktop\Drawings\Harrisburg\Drawn\Drawn.dwg</p>   |  |                   |
| <p>Campus Infrastructure For:<br/><b>Harrisburg Community College</b><br/>1 HACCC Drive<br/>Harrisburg, PA 17110</p>   | <p><b>SCALE: AS NOTED</b></p>  |  |                   |
| <p><b>DATE: 05-06-2010</b></p>   | <p><b>DWG. BY: TRK</b></p>   |  |                   |
| <p><b>REVISIONS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50px; text-align: center;">0</td> <td style="width: 50px;"></td> </tr> </table> | 0  |  | <p><b>E-1</b></p> |
| 0  |  |  |                   |



| Cond. # | Size | Originates At | Terminates At            | Conduit Length | Cable Type and Description  |
|---------|------|---------------|--------------------------|----------------|---|
| 01      | 4"   | Utility Pole  | Manhole #1               | 260'           | 1-24 Strand SM Fiber, 1-Fiber Cable<br>1-Cut 300pr Cable, 1-Interduct   |
| 02      | 4"   | Utility Pole  | Manhole #1               | 260'           | 1-.50" Hard Line Coax, 1-.50 Cable  |
| 03      | 3"   | Manhole #1    | Manhole #2               | 460'           | 2-Fire Alarm Cables, 4-Gray Cables  |
| 04      | 4"   | Manhole #1    | Manhole #2               | 460'           | 1-24 Strand SM Fiber, 1-Fiber Cable, 2-Fire Alarm Cables<br>1-Cut 300pr Cable, 1-Interduct  |
| 05      | 4"   | Manhole #1    | Manhole #2               | 460'           | 1-.50" Hard Line Coax, 1-.50 Cable  |
| 06      | 3"   | Manhole #2    | Manhole #3               | 270'           | 1-100pr Cable, 2-12 Strand Fiber<br>1-12Strand Blue Fiber, 2-Fire Alarm Cable   |
| 07      | 4"   | Manhole #2    | Manhole #3               | 270'           | 1-800pr Cable, 2-12 Strand Fiber<br>1-Hardline Coax Cable   |
| 08      | 4"   | Manhole #2    | Manhole #3               | 270'           | 8-Fire Alarm Cables, 2-Gray Cables<br>1-RG11 Coax cable, 3-RG62 Coax cable<br>2-12Strand Fiber Cables, 4-RG6 Coax Cables<br>2-.25 Yellow Cables |
| 09      | 3"   | Manhole #2    | Manhole #5               | 230'           | 15-Cables, Conduit was inaccessible.  |
| 10      | 4"   | Manhole #2    | Manhole #5               | 230'           | 3-.50 Black Cables  |
| 11      | 4"   | Manhole #2    | Manhole #5               | 230'           | 3-.50" Hard Line Coax, 1-600pr Cable  |
| 12      | 4"   | Manhole #2    | Manhole #5               | 230'           | 8-Fire Alarm Cables, 6-Gray Cables<br>1-3/4" Black Cable, 1-Coax Cable<br>1-Black Cable   |
| 13      | 4"   | Manhole #2    | Manhole #5               | 230'           | 1-Cut 600pr Cable   |
| 14      | 3"   | Manhole #3    | Manhole #4               | 340'           | 8-Fire Alarm Cables, 2-Gray Cables, 3-RG62 Coax Cables<br>1-RG11 Coax Cables, 4-RG6 Coax Cables<br>2-Fiber Cables, 2-.05 Yellow Cables          |
| 15      | 4"   | Manhole #3    | Manhole #4               | 340'           | 1-600pr Cable, 2-12 Strand Fiber Cable  |
| 16      | 4"   | Manhole #3    | Manhole #4               | 340'           | 2-Fiber Cables<br>1-800pr Cable   |
| 17      | 3"   | Manhole #4    | Manhole #7               | 230'           | 6-Fire Alarm Cables, 4-Gray Cables<br>1-.25 Black Cable, 1-Fiber Cable<br>2-100pr Cable, 1-25pr Cable   |
| 18      | 4"   | Manhole #4    | Manhole #7               | 230'           | 1-600pr Cable, 4-#10THN Solid Wires   |
| 19      | 4"   | Manhole #4    | Manhole #7               | 230'           | 5-#10THN Solid Wires, 1-25pr Cable<br>1-Honeywell Black Cable, 1-Fiber Cable<br>8-RG59 Coax Cable, 3-.50 Black Cables                           |
| 20      | 3"   | Manhole #7    | Manhole #8               | 440'           | 3-Fiber Cables, 1-25pr Cable<br>4-Fire Alarm Cables   |
| 21      | 4"   | Manhole #7    | Manhole #8               | 440'           | 4-RG59 Coax Cables, 1-600pr Cable<br>1-Fiber Cable, 1-.75 Hardline Coax Cable<br>1-.50 Black Honeywell Cable, 4-#10THN Solid Wires              |
| 22      | 4"   | Manhole #7    | Manhole #8               | 440'           | 1-100pr Cable, 1-200pr Cable<br>3-RG59 Coax Cables  |
| 23      | 3"   | Manhole #8    | Manhole #9               | 420'           | 2-Fire Alarm Cables, 4-Gray Cables  |
| 24      | 4"   | Manhole #8    | Manhole #9               | 420'           | 1-600pr Cable, 1-100pr Cable  |
| 25      | 3"   | Manhole #8    | Manhole #9               | 420'           | 1-25pr Cable, 1-12Strand SM Fiber<br>1-.50 Black Cable, 4-#10THN Solid Wires  |
| 26      | 3"   | Manhole #9    | Physical Ed Bld          | 320'           | 2-ATT Fiber Cables, 1-25pr Cable  |
| 27      | 3"   | Manhole #9    | Physical Ed Bld          | 320'           | 4-Fire Alarm Cables, 2-Gray Cables<br>1-.50 Black Cable   |
| 28      | 4"   | Manhole #8    | Hall Technology Center   | 220'           | 2-Fire Alarm Cables, 4-Gray Cables<br>1-300pr Cable   |
| 29      | 4"   | Manhole #8    | Hall Technology Center   | 220'           | 5-RG59 Coax Cables, 2-Fiber Cables<br>1-.50 Honeywell Cable, 1-.50 Black Cable  |
| 30      | 4"   | Manhole #8    | Hall Technology Center   | 220'           | 1-300pr Cable, 1-.75 Hardline Coax Cable  |
| 31      | 3"   | Manhole #4    | Blocker Hall             | 290'           | 1-400pr Cable, 1-.50 Black Cable  |
| 32      | 3"   | Manhole #4    | Blocker Hall             | 290'           | 5-.25Black Cables, 2-.50 Black Cables<br>12-Fire Alarm Cables   |
| 33      | 3"   | Blocker Hall  | Office                   | 100'           |   |
| 34      | 2"   | Blocker Hall  | Office                   | 140'           |   |
| 35      | 4"   | Manhole #7    | Office                   | 190'           | 12-RG59 Coax Cables, 1-500pr Cable<br>1-Honeywell Black cable, 2-.50 Black Cables<br>2-RG6 Coax Cables  |
| 36      | 3"   | Manhole #4    | Library Floor Cavity     | 120'           | Empty   |
| 37      | 3"   | Manhole #7    | Cooper Student Center    | 140'           | 1-400pr Cable, 1-50pr Cable<br>1-.50 Hardline Coax Cable, 1-.25 Black Cable<br>1/2 of conduit blocked by 800pr Cable                            |
| 38      | 3"   | Manhole #7    | Cooper Student Center    | 140'           | 2-Fire alarm Cables, 4-Gray Cables<br>8-RG59 Coax Cables, 3-.50 Black Cables<br>1/4 of conduit blocked by 800pr Cable                           |
| 39      | 4"   | Manhole #5    | Lehrman Fine Arts Center | 360'           | 2-Fire alarm Cables, 4-Gray Cables<br>4-.50 Black Cables, 1-.75 Black cable   |
| 40      | 3"   | Manhole #5    | Lehrman Fine Arts Center | 360'           | 1-.50 Hard Line Coax<br>1-#8THN Stranded Wire, 3-.50 Cables<br>1-.50 Cut Cable, 2-.25 Black Cables  |
| 41      | 4"   | Manhole #5    | McCormick Library        | 30'            | 1-.50 Hardline Coax Cable, 2-12Strand Fiber Cables<br>1-800pr Cable   |
| 42      | 4"   | Manhole #5    | McCormick Library        | 30'            | 6-Fire alarm Cables, 6-Gray Cables<br>3-RG62 Coax Cables, 1-.25 Orange Cable  |
| 43      | 4"   | Manhole #5    | McCormick Library        | 30'            | 1-500pr Cable   |
| 44      | 4"   | Manhole #5    | McCormick Library        | 30'            | 13-Small Cables   |
| 45      | 4"   | Manhole #5    | McCormick Library        | 30'            | 3-.50 Black Cables  |
| 46      | 4"   | Manhole #5    | Whitaker Center          | 200'           | 1-500pr Cable, 1-300pr Cable<br>1-.50 Black Cable   |
| 47      | 4"   | Manhole #5    | Whitaker Center          | 200'           | Empty   |
| 48      | 3"   | Manhole #5    | Whitaker Center          | 200'           | Wires Cut Off   |

| Cond. # | Size   | Originates At                               | Terminates At                               | Conduit Length | Cable Type and Description  |
|---------|--------|---|---|----------------|---|
| 49      | 4"     | Manhole #9                                  | Manhole #10                                 | 410'           | 1-100pr Cable   |
| 50      | 4"     | Manhole #9                                  | Manhole #10                                 | 410'           | 2-Fire alarm Cables, 2-Gray Cables<br>1-Cut Yellow & Brown Twisted Wires  |
| 51      | 4"     | Manhole #9                                  | Manhole #10                                 | 410'           | 2-.50 Black Cables  |
| 52      | 4"     | Manhole #10                                 | Manhole #11                                 | 400'           | 2-12 Strand SM Fiber  |
| 53      | 4"     | Manhole #10                                 | Manhole #11                                 | 400'           | 2-Fire alarm Cables, 2-Gray Cables<br>1-Yellow & Brown Twisted Wires  |
| 54      | 4"     | Manhole #10                                 | Manhole #11                                 | 400'           | 1-100pr Cable   |
| 55      | 4"     | Manhole #11                                 | Manhole #12                                 | 460'           | 2-12 Strand SM Fiber  |
| 56      | 4"     | Manhole #11                                 | Manhole #12                                 | 460'           | 2-Fire alarm Cables, 2-Gray Cables<br>1-Yellow & Brown Twisted Wires  |
| 57      | 4"     | Manhole #11                                 | Manhole #12                                 | 460'           | 1-100pr Cable   |
| 58      | 4"     | Manhole #12                                 | North Hall                                  | 450'           | Empty   |
| 59      | 4"     | Manhole #12                                 | North Hall                                  | 450'           | 2-Fire Alarm Cables, 3-Gray Cables<br>2-12Strand Fiber Cable, 1-Yellow & Brown Twisted Wire                                       |
| 60      | 4"     | Manhole #12                                 | North Hall                                  | 450'           | 1-25pr Cable, 1-100pr Cable   |
| 61      | 5"     | Manhole #4                                  | Blocker Hall                                | 260'           | 11-Fire Alarm Cables, 2-Gray Cables<br>1-100pr Cable, 1-25pr Cable<br>1-12Strand SM Fiber, 1-12Strand Fiber<br>2-.25 Black cables |
| 62      | 5"     | Manhole #4                                  | Blocker Hall                                | 260'           | 1-600pr Cable, 2-.50 Black Cables   |
| 63      | 5"     | Manhole #4                                  | Blocker Hall                                | 260'           | 1-100pr Cable, 1-600pr Cable<br>3-.50 Black cables, 1-Interduct   |
| 64      | 3"     | Stabler Building                            | Lehrman Arts Center                         | 60'            | 1-200pr Cable, 1-Fiber Cable  |
| 65      | 3"     | Manhole #13                                 | Stabler Hall                                | 160'           | 1-6 Strand MM Fiber, 1-RG11 Coax Cable<br>2-Fire Alarm Cables, 1-50pr Cable   |
| 66      | 3"     | Manhole #13                                 | Manhole 14                                  | 410'           | 1-50pr Cable, 1-6Strand MM Fiber Cable  |
| 67      | 3"     | Manhole #13                                 | Manhole 14                                  | 410'           | Empty   |
| 68      | 3"     | Manhole #13                                 | Manhole 14                                  | 410'           | 2-Fire Alarm Cables, 2-Gray Cables  |
| 69      | 3"     | Manhole #13                                 | Manhole 14                                  | 410'           | Empty   |
| 70      | 4"     | Manhole #14                                 | Campus Service Center                       | 170'           | 2-Fire Alarm Cables, 2-Gray Cables<br>1-50pr Cable, 1-6 Strand MM Fiber Cable<br>1-Unconnected RG11 Coax cable                    |
| 71      | 4"     | Manhole #14                                 | Capped Near N.W. Corner of Service Center   | 360'           | Empty   |
| 72      | 4"     | Manhole #14                                 | Capped Near N.W. Corner of Service Center   | 360'           | Empty   |
| 73      | 4"     | Manhole #13                                 | Capped Behind Lehrman Arts Center Building  | 390'           | Empty   |
| 74      | 4"     | Manhole #13                                 | Capped Behind Lehrman Arts Center Building  | 390'           | Empty   |
| 75      | 4"     | Manhole #13                                 | Capped Behind Lehrman Arts Center Building  | 390'           | Empty   |
| 76      | 4"     | Manhole #13                                 | Lehrman Arts Building Outdoor Kiln Area     | 390'           | 4-Fire Alarm Cables, 2-Gray Cables  |
| 77      | 4"     | Manhole #1                                  | Manhole Outside Primary Switchgear Building | 320'           | 1-12 Strand SM Fiber<br>2-Fire Alarm Cables, 1-100pr Cable  |
| 78      | 4"     | Manhole #1                                  | Manhole Outside Primary Switchgear Building | 320'           | 2-Fire Alarm Cables, 4-Gray Cables  |
| 79      | 4"     | Manhole Outside Primary Switchgear Building | Switchgear Building                         | 50'            | 1-12 Strand SM Fiber<br>2-Fire Alarm Cables, 1-100pr Cable  |
| 80      | 4"     | Manhole Outside Primary Switchgear Building | Switchgear Building                         | 50'            | 2-Fire Alarm Cables, 4-Gray Cables  |
| 81      | 4"     | Manhole #5                                  | Whitaker Hall Classroom 110 Ceiling Cavity  | 120'           | 4-Fire Alarm Cables, 4-Gray Cables  |
| 82      | 4"     | Manhole #5                                  | Whitaker Hall Classroom 110 Ceiling Cavity  | 120'           | Empty   |
| 83      | 1-1/4" | Whitaker Hall Classroom #110                | Whitaker Hall - New Fire Alarm MXL Panel    | 330'           |   |
| 84      | 1"     | Lehrman Arts Building Room #129             | Lehrman Arts Building Outdoor Kiln Area     | 310'           |   |
| 85      | 3/4"   | Cooper Bld                                  | Overholt Bld                                | 260'           | 2-Fire Alarm Cables   |
| 86      | 4"     | Manhole #12                                 | Power Shed                                  | 480'           | 2-Gray Cables   |
| 87      | 4"     | Manhole #12                                 | Power Shed                                  | 480'           | Empty   |
| 88      | 4"     | Manhole #12                                 | Power Shed                                  | 480'           | 1-25pr cable  |
| 89      | 4"     | Manhole #3                                  | Select Medical Bld                          | 90'            | 1-12 Strand Fiber   |
| 90      | 4"     | Manhole #3                                  | Select Medical Bld                          | 90'            | 1-100pr Cable, 2-Fire Alarm Cables<br>1-24Strand Fiber Cable  |
| 91      | 4"     | Manhole #5                                  | McCormick Library                           | 30'            | Empty   |
| 92      | 4"     | Manhole #5                                  | McCormick Library                           | 30'            | 1-Cut 200pr cable   |
| 93      | 4"     | Manhole #5                                  | McCormick Library                           | 30'            | 5-.50 Black cables, 1-Cut .50 Black Cable   |

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Campus Infrastructure For:  
**Harrisburg Community College**  
1 HACCC Drive  
Harrisburg, PA 17110  
DWG. BY: TRK SCALE: AS NOTED

DATE: 05-06-2010

REVISIONS:

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