INDIANA UNIVERSITY
CAPITAL PROJECTS

Addendum #1

Project: BL601 Memorial Stadium – Replace North Fascia LED Display
Indiana University Bloomington
IU 20261143

Date: November 16, 2026

This Addendum, issued prior to bidding, alters, amends, corrects, or clarifies the Construction Bid Documents to the extent stated herein and does thereby become a part of the Construction Bid Documents, and will become part of the Contract Documents of the successful bidder. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

ITEMS INCLUDED IN THIS ADDENDUM

Questions and Answers

Q1. Are there any drawings of the existing digital board that are available for review?
A1. See the attached as-builts.

Q2. Are there any drawings or concepts of a proposed solution for this project?
A2. No, the intent is to basically match existing display dimensions closely as possible.

Q3. Will Indiana University accept references for projects of equivalent size and scope completed at professional sports stadiums as satisfying the experience requirements outlined in Section 1.2.A.1–2, in addition to projects completed at NCAA Division I facilities?
A3. Yes, equivalent scope completed at professional sports stadiums will be acceptable.

Q4. Has IU established a budget for this project? If so, can it be shared?
A4. The first time this project was put out for bid the results were at a range between $300K - $400K.

Q5. What existing scoring and display-control equipment must the new LED display integrate with? Will IU provide the equipment and software information?

A5. The existing videoboard control system is Motion Rocket. Scoring is OES but will not be fed to this board.

Q6. Can an authorized manufacturer's service provider satisfy the local service and warranty requirements, including annual inspections? Does the two-hour response requirement mean an on-site response?

A6. Yes, an authorized service provider does satisfy this requirement. The response requirement does mean an on-site response.

Q7. Are there any restrictions on using cranes or lifts on or near the playing field beyond those stated in the specifications?

A7. No equipment will be allowed on the turf.

Q8. Are there any restrictions on the use of cranes, lifts, or other installation equipment on or adjacent to the playing field, beyond the protection measures outlined in the project manual?

A8. No additional restrictions.

Q9. Is the pre-bid meeting on 11/20 a mandatory event for all bidders?

A9. The pre-bid meeting is being changed to mandatory.

Attachments

Existing digital board as-built drawings – 8 pages
Revised Notice to Bidders

End of Addendum No. 1

CONTROL		
SHEET NO.	DRAWING NO.	TITLE
400	1182815	CONTROL; NOTES & INDEX - 400
400	1011959	CONTROL; NOTES & INDEX - 400 (C17541)
401	1011961	CONTROL; SCHEMATIC - NEW EQUIPMENT - 401 FOOTBALL (C17541)
402	1011962	CONTROL; SCHEMATIC - EXISTING EQUIPMENT - 402 FOOTBALL (C17541)
403	1011966	CONTROL; RACK ELEVATION - FOOTBALL - 403 (C17541)

CABLE LABEL NOMENCLATURE	
LAYOUT: FXYZZ	
F - IDENTIFIES IF CABLE IS FIELD INSTALLED OR INSTALLED IN RACK	
F	CABLE IS FIELD INSTALLED
	BLANK IF THE CABLE IS IN THE RACK
	X - IDENTIFIES WHAT IS ON THE CABLE
A	AUDIO CABLING
C	COMMUNICATION CABLING (INTERCOM)
D	DATA CABLE
P	POWER CABLE
V	VIDEO CABLING
	Y - IDENTIFIES THE SHEET THE CABLE IS ON
	LAST NUMBER OF SHEET IS USED
	Z - IDENTIFIES THE CABLE NUMBER
	START AT 01 AND GOES IN ORDER

IP ADDRESS MAP	
SUBNET MASK	255.255.255.0
GATEWAY	192.168.0.1
COMPONENT	IP ADDRESS

REFERENCE DWG - 1011959

NOTES:

THIS CONTROL ROOM IS TO BE CLIMATE CONTROLLED BY CUSTOMER. NORMAL OPERATING TEMPERATURE SHOULD BE BETWEEN 65 AND 75 DEGREES FAHRENHEIT. NORMAL OPERATING HUMIDITY SHOULD BE LESS THAN 80 PERCENT NON-CONDENSING. STORAGE TEMPERATURE SHOULD BE BETWEEN 40 AND 95 DEGREES FAHRENHEIT. STORAGE HUMIDITY SHOULD BE LESS THAN 95 PERCENT NON-CONDENSING.

IT IS THE RESPONSIBILITY OF THE CUSTOMER THAT ALL CONTROL ROOM POWER IS FROM CLEAN DEDICATED CIRCUITS. EACH RACK REQUIRES TWO 20 AMP CIRCUITS TERMINATED WITH NEMA 5-20R RECEPTACLES. ONE 20 AMP CIRCUIT PREFERABLY FROM THE SAME POWER FEED IS REQUIRED FOR EACH DESK WHERE WORKSTATIONS ARE TO BE PLACED.

IT IS THE RESPONSIBILITY OF THE ELECTRICAL INSTALLATION CONTRACTOR TO ENSURE THAT ALL ELECTRICAL WORK PERFORMED ON-SITE MEETS OR EXCEEDS ALL LOCAL AND NATIONAL ELECTRICAL CODES.

DAKTRONICS IS NOT RESPONSIBLE FOR THE QUALITY OF THE POWER DELIVERY SYSTEM TO THE CONTROL SYSTEM.

BECAUSE EACH INSTALLATION IS UNIQUE, DAKTRONICS OFFERS THESE INSTRUCTIONS AS GUIDELINES ONLY. DAKTRONICS, INC. ASSUMES NO LIABILITY IF INSTALLATION STEPS HAVE BEEN OMITTED OR OTHER NECESSARY PROCEDURES ARE NOT INCLUDED IN THIS SYSTEM RISER DIAGRAM.

WHEN VIEWING THE RACK FROM THE REAR, ALL THE POWER SHOULD RUN ON THE LEFT AND THE SIGNAL ON THE RIGHT. DO NOT ALLOW THE SIGNAL AND POWER TO RUN PARALLEL WITH ONE ANOTHER.

CONTROL EQUIPMENT ABBREVIATION DESCRIPTION	
ABS	A/B SWITCH/INTERFACE
ABR	REMOTE A/B SWITCH/INTERFACE
ACG	ALLSPORT CG
ADP	ADAPTER
ALL	ALLSPORT SCORING CONSOLE
BOP	BREAK OUT PANEL
CIM	COMPUTER INTERFACE MODULE
CLT	CURRENT LOOP TERMINATION PANEL
CPU	COMPUTER
DAD	DATA DISTRIBUTOR
DDA	DVI DISTRIBUTION AMPLIFIER
DIP	DISPLAY INTERFACE PROCESSOR (NO SCALING)
DMP	DIGITAL MEDIA PLAYER
DER	DVI RECEIVER
FPP	FIBER OPTIC PATCH PANEL
FAI	FIRE ALARM INTERFACE
FMC	FIBER MODE CONVERTER
FRX	FIBER CONVERTER RECEIVER
FTX	FIBER CONVERTER TRANSMITTER
GPM	GRAPHICS PICTURE MONITOR
IBB	I-BOOT BAR
KVE	KVM EXTENDER
KVM	KVM SWITCH
KVR	KVM RECEIVER
MCV	MEDIA CONVERTER
MDA	MULTIPLE DISPLAY ADAPTER
MGR	KVM MANAGER
MMK	MONITOR, MOUSE & KEYBOARD
NAS	NETWORK ACCESS STORAGE
NET	NETWORK ROUTER/SWITCHER/HUB
OMN	OMNISPORT
OOP	OOPS BUTTON (KILL BUTTON)
POE	POWER OVER ETHERNET INJECTOR
POW	POWER STRIP
RPC	REMOTE POWER CONTACTOR
SCV	SIGNAL CONVERTER
SWI	SWITCH INTERFACE
PTI	PHOTO/TEMP ISOLATOR
UPS	UNINTERRUPTIBLE POWER SUPPLY
VIP	VIDEO IMAGE PROCESSOR
VPS	VIDEO PROCESSOR SYSTEM
VXP	VX PORT
WST	WORKSTATION

INDIANA UNIVERSITY

MEMORIAL STADIUM

BLOOMINGTON, IN USA

SUBMITTAL APPROVAL

☐ APPROVED ☐ APPROVED AS NOTED ☐ APPROVED AS NOTED & RESUBMIT

COMPANY: _____

SIGNED: _____

TITLE: _____ DATE: _____

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BROOKINGS, SD 57006
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PROJ: INDIANA UNIVERSITY
TITLE: CONTROL; NOTES & INDEX - 400
DESIGN: BSEELEY | DRAWN: BSEELEY | DATE: 17 JUL 14
SCALE: NONE

SHEET	REV	JOB NO:	FUNC.-TYPE-SIZE	
400	00	C22396	F - 01 - D	1182815

INDIANA UNIVERSITY

BLOOMINGTON, IN

CONTROL		
SHEET NO.	DRAWING NO.	TITLE
400	1011959	CONTROL; NOTES & INDEX – 400
401	1011961	CONTROL; SCHEMATIC – NEW EQUIPMENT – 401 – FOOTBALL
402	1011962	CONTROL; SCHEMATIC – EXISTING EQUIPMENT – 402 – FOOTBALL
403	1011966	CONTROL; RACK ELEVATION – 403
404	1015126	CONTROL; SCHEMATIC – SWIMMING – 404
405	1015127	CONTROL; RACK ELEVATION – SWIMMING – 405

FOOTBALL

IP ADDRESS MAP		IP ADDRESS MAP	
COMPONENT	IP ADDRESS	COMPONENT	IP ADDRESS
CPU 1	192.168.0.101	VIP 1	192.168.0.160
CPU 2	192.168.0.102	VIP 2	192.168.0.161
CPU 3	192.168.0.131	VIP 3	192.168.0.162
CPU 4	192.168.0.109	VIP 4	192.168.0.163
CPU 5	192.168.0.110	VIP 5	192.168.0.164
CPU 6	192.168.0.120	VIP 6	192.168.0.165
CPU 7	192.168.0.122	NET 1	192.168.0.1
		* DIP 1	192.168.0.170
		* DIP 2	192.168.0.171

* ADDED PER C22396

SWIMMING

IP ADDRESS MAP	
COMPONENT	IP ADDRESS
CPU 1	192.168.0.101
CPU 2	192.168.0.102
CPU 3	192.168.0.122
VIP 1	192.168.0.160
VIP 2	192.168.0.161
VIP 3	192.168.0.162
NET 1	192.168.0.1

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GPM	GRAPHICS PICTURE MONITOR
IBB	I-BOOT BAR
KVE	KVM EXTENDER
KVM	KVM SWITCH
KVU	KVM USER STATION
KYB	KEYBOARD
MCV	MEDIA CONVERTER
MSE	MOUSE
NAS	NETWORK ATTACHED STORAGE
NET	NETWORK HUB/SWITCH/ROUTER
OMN	OMNISPORT SCORING CONSOLE
PNT	PRINTER
PTI	PHOTO/TEMP ISOLATOR
RPS	REMOTE POWER SWITCH
SCV	SIGNAL CONVERTER
SWI	SWITCH INTERFACE
UPS	UNINTERRUPTIBLE POWER SYSTEM
VIP	VIDEO/IMAGE PROCESSOR
VXP	VXPORT

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	START AT 01 AND GOES IN ORDER

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☐ APPROVED AS NOTED & RESUBMIT

COMPANY: _____

SIGNED: _____

TITLE: _____ DATE: _____

SHEET 400

REV	DATE		BY
03	17 JUL 14	ADDED INFO FOR FACIA PER C22396	RES
02	30 JUL 10	UPDATED IP ADDRESS MAP FOR SWIMMING	CGL
01	25 MAY 10	ADDED SWIMMING INFORMATION	CGL

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PROJ:	INDIANA UNIVERSITY / BLOOMINGTON, IN
TITLE:	CONTROL; NOTES & INDEX – 400
DESGN:	NROHLIK
DRAWN:	CLARSEN
DATE:	17 MAY 10
SCALE:	NONE

SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	
400	03	C17541	F-01-D	1011959

RACKS LOCATED IN ROOM W713 STADIUM CONTROL

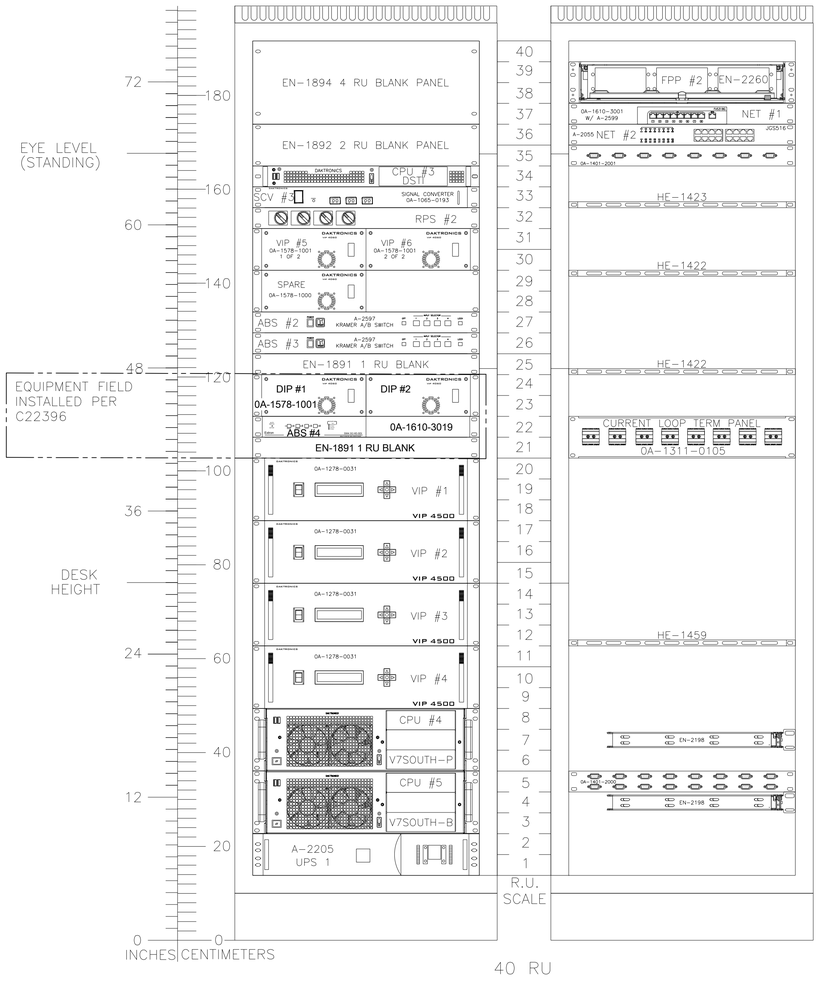
EQUIPMENT LIST		
PART DESCRIPTION	PART NUMBER	QUANTITY
RACK SCREWS	HC-1522	12
CABLE TIE; 8"	HE-1275	20
CABLE TIE; 3.9"	HE-1318	10
ENVELOPES	OS-1021	AS NEEDED
CABLE LABEL	LL-2416	AS NEEDED
EQUIPMENT LABEL	LL-2658	7

EQUIPMENT TABLE FOR C22396

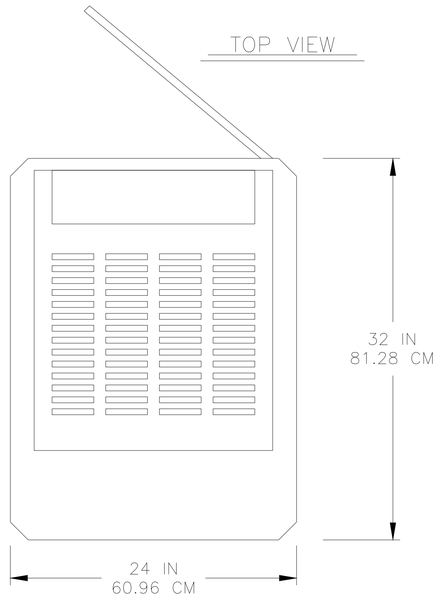
FRONT VIEW

REAR VIEW

0Z-17541-1000RA



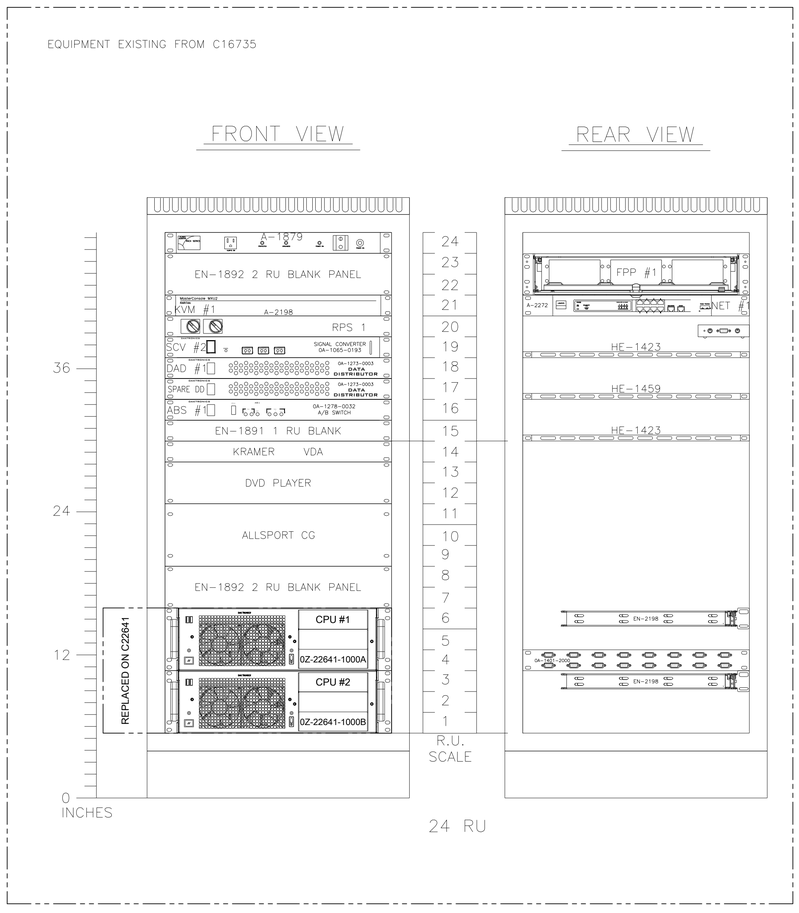
TOP VIEW



EQUIPMENT EXISTING FROM C16735

FRONT VIEW

REAR VIEW



	HEAT CONS. (BTU/HR)	POWER CONS. (WATTS)	WEIGHT (LBS)
RACK TOTAL	3350	982	698

EACH CONTROL RACK REQUIRES DEDICATED 20 AMP CIRCUIT TERMINATED WITH NEMA 5-20R RECEPTACLES

	HEAT CONS. (BTU/HR)	POWER CONS. (WATTS)	WEIGHT (LBS)
RACK TOTAL	848	249	353

EACH CONTROL RACK REQUIRES DEDICATED 20 AMP CIRCUIT TERMINATED WITH NEMA 5-20R RECEPTACLES

REV	DATE:		BY:
04	18 SEP 14	UPDATED CPU #1 & CPU #2 FOR C22641	CWY
REV	DATE:		BY:
03	17 JUL 14	ADDED EQUIPMENT FOR FASCIA DISPLAY PER C22396 DIP1, DIP2, ABS3, ADDED VMAXA CARDS TO CPU1 & CPU2	RES
REV	DATE:		BY:
02	28 OCT 10	ADDED DVD PLAYER AND ALLSPORT CG TO 24RU RACK	CGL
REV	DATE:		BY:
01	01 JUN 10	UPDATED TO NEW TITLE BLOCK	NJR

INDIANA UNIVERSITY

BLOOMINGTON, IN

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COMPANY: _____

SIGNED: _____

TITLE: _____ DATE: _____

SHEET 403

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PROJ: INDIANA UNIVERSITY / BLOOMINGTON, IN
TITLE: CONTROL RACK ELEVATION – FOOTBALL – 403
DESIGN: NROHLIK DRAWN: CLARSEN DATE: 17 MAY 10
SCALE: 1 = 6

SHEET	REV	JOB NO.	FUNC-TYPE-SIZE	
403	04	C17541	F-01-D	1011966

INDIANA UNIVERSITY

BLOOMINGTON, IN

EQUIPMENT LOCATED IN W710 SCORING AND TIMING PRODUCTION

CPU #6
SCU #1
ALL-IN-ONE
TOUCH CPU
0A-1403-1000
SHOW CONTROL USER STATION
USB
KY/MS
DVI
USB
NETWORK
FD101 W-1384 /W P-1350 @ 2
NET2_13
KEYBOARD
BULK CAT5 TO CONTROL RACKS

CPU #7
SCU #2
ALL-IN-ONE
TOUCH CPU
0A-1403-1000
SHOW CONTROL USER STATION
USB
KY/MS
DVI
USB
NETWORK
FD102 W-1384 /W P-1350 @ 2
NET2_14
KEYBOARD
BULK CAT5 TO CONTROL RACKS

EQUIPMENT LOCATED IN W713 STADIUM CONTROL

NET #1
1 GB NETWORK ROUTER
0A-1610-3001
W/A-2599
INTERNET IN 1
NET OUT 1 … NET OUT 8
NET2_1
D118 W-1732

NET #2
NETWORK SWITCH A-2055
NET 1 … NET 16
NET1_1
CPU1_N S402 FD127 W-1384 /W P-1350 @ 2
CPU2_N S402 FD128 W-1384 /W P-1350 @ 2
CPU3_N D129 W-1506
CPU4_N D130 W-1735
CPU5_N D131 W-1735
VIP1_N D132 W-1734
VIP2_N D133 W-1734
VIP3_N D134 W-1734
VIP4_N D135 W-1735
VIP5_N D136 W-1506
VIP6_N D137 W-1506
CPU6_N
CPU7_N

CPU #4
V7000 SOUTH-P
0A-1402-5303
VMAX4 CARD 1 (0A-1278-0003) TEMP/PHOTO, COAX RX, FIBER RX, FIBER TX, COAX TX1, COAX TX2
VMAX4 CARD 2 (0A-1278-0003) TEMP/PHOTO, COAX RX, FIBER RX, FIBER TX, COAX TX1, COAX TX2
VMAX4 CARD 3 (0A-1278-0003) TEMP/PHOTO, COAX RX, FIBER RX, FIBER TX, COAX TX1, COAX TX2
NETWORK
COM 1
USB
MON/KY/MS
DD1830730
SERIAL
NET2_5
FD145 PR-200063-01
KVM1_4 S403
D103 W-1723
D104 W-1723
D105 W-1267
SCV3_CV3
D106 W-1731
D107 W-1731
W-2068
MOUNTED TO 0A-1401-2000 PRIMARY

CPU #5
V7000 SOUTH-B
0A-1402-5303
VMAX4 CARD 1 (0A-1278-0003) TEMP/PHOTO, COAX RX, FIBER RX, FIBER TX, COAX TX1, COAX TX2
VMAX4 CARD 2 (0A-1278-0003) TEMP/PHOTO, COAX RX, FIBER RX, FIBER TX, COAX TX1, COAX TX2
VMAX4 CARD 3 (0A-1278-0003) TEMP/PHOTO, COAX RX, FIBER RX, FIBER TX, COAX TX1, COAX TX2
NETWORK
COM 1
USB
MON/KY/MS
DD1830731
SERIAL
NET2_6
UPS1_USB
KVM1_5 S403
FD146 PR-200063-01
D108 W-1723
D109 W-1723
D110 W-1267
SCV3_CV3
D111 W-1634
D112 W-1730
W-2068
MOUNTED TO 0A-1401-2000 PRIMARY

VIP #1
FIBER IN, COAX IN, NETWORK, SERIAL, DIAG OUT, DIAG IN
VIDEO IMAGE PROCESSOR 4500
0A-1278-0031
DVI/VGA IN1, DVI/VGA IN2, HD/SDI IN 1, LOOP OUT1, HD/SDI IN 2, LOOP OUT2, HD/SDI IN 3, LOOP OUT3, HD/SDI IN 4, DIAG IN
ANALOG 2, ANALOG 3, ANALOG 4
DVI/VGA OUT, HD/SDI OUT, COMP/PR OUT, Y OUT, C/PB OUT
COAX OUTA, COAX OUTB, FIBER OUT
C, Y/COMP, Y/GRN, PB/BLU, PB/RED
ANALOG INPUTS TYP. @ 4
MINI VOX PORT
NET2_7
D119 W-1957 /W P-1372 @ 2
D148 W-1957 /W P-1372 @ 2

VIP #2
NET2_8
D120 W-1957 /W P-1372 @ 2
D149 W-1957 /W P-1372 @ 2

VIP #3
NET2_9
D121 W-1957 /W P-1372 @ 2
D150 W-1957 /W P-1372 @ 2

VIP #4
NET2_10
D122 W-1957 /W P-1372 @ 2
D151 W-1957 /W P-1372 @ 2

ABS #2
KRAMER A/B INTERFACE
A-2597
COAX IN A, COAX IN B, COAX IN C, COAX IN D
LEFT HALF
COAX OUT 1, COAX OUT 2
D138 W-1957 /W P-1372 @ 2

ABS #3
KRAMER A/B INTERFACE
A-2597
COAX IN A, COAX IN B, COAX IN C, COAX IN D
RIGHT HALF
COAX OUT 1, COAX OUT 2
D139 W-1957 /W 1372 @ 2

VIP #5
VIDEO IMAGE PROCESSOR 4060
0A-1578-1001
2 OF 2
SDI/VMAX, LOOP OUT, DVI, NETWORK
TRANSLATION TABLE DD1829531
SERIAL PORT: PORT A RX, PORT A TX, PORT B RX, PORT B TX, +5V, +, –, GND, +, –, CAN
NET2_11
D140 W-2201

VIP #6
VIDEO IMAGE PROCESSOR 4060
0A-1578-1001
2 OF 2
SDI/VMAX, LOOP OUT, DVI, NETWORK
TRANSLATION TABLE DD1829532
SERIAL PORT: PORT A RX, PORT A TX, PORT B RX, PORT B TX, +5V, +, –, GND, +, –, CAN
NET2_12
D141 W-2201

RPS #2
POWER CONTROLLER 0A-1171-4083
SWITCH 1 VIDEO — FIBER OUT A, FIBER OUT B
SWITCH 2 AD PANELS — FIBER OUT A, FIBER OUT B
SWITCH 3 AUDIO — FIBER OUT A, FIBER OUT B
SWITCH 4 FASCIA — FIBER OUT A, FIBER OUT B
D142 W-1727
D143 W-1727
D144 W-1727

FPP #2
EN-2260 @ 1 P-1389 @ 1
EN-1960 @ 5
FIBER PATCH PANEL POSITION
FIBER COLORS
DESCRIPTION / FUNCTION
A1 BL 720X1800 DVX-500-15HD; PLR S401 TX
A2 OR 720X1800 DVX-500-15HD; PLR S401 RX
A3 GN 720X1800 DVX-500-15HD; PLR S406 TX
A4 BN 720X1800 DVX-500-15HD; PLR S406 RX
A5 BL NOT USED
A6 OR 720X1800 REMOTE POWER; RP1-1
A7 GN SOUTH AD PANELS REMOTE POWER; RP1-1
A8 BN SOUTH AUDIO REMOTE POWER; RP1-1
A9 … A12
B1 BL 84X4620 RTX-1100-13HD; PLR S401 TX
B2 OR 84X4620 RTX-1100-13HD; PLR S401 RX
B3 GN
B4 BN REMOTE POWER – NEW FASCIA
B5 BL 84X4620 RTX-1100-13HD; PLR S401 TX (R)
B6 OR 84X4620 RTX-1100-13HD; PLR S401 RX (R)
B7 GN
B8 BN REMOTE POWER – NEW FASCIA
B9 … B12
TO 720X1800 SOUTH ENDZONE REFER TO DWG-984151 LC
TO 720X1800 SOUTH ENDZONE REFER TO DWG-984151 LC
S402 DIP1_FOA_FB
TO 84X4620 FASCIA REFER TO DWG-XXXXXXX LC
S402 DIP2_FOA_FB
TO 84X4620 FASCIA REFER TO DWG-XXXXXXX LC

* NOTE *
ADD P-1389 INTO EXISTING FPP2 (IN 40 RU RACK) FOR CONNECTION TO NORTH END ZONE FASCIA PER C22396.

CPU #3
DSTI-P
0A-1402-0903
USER KIT
0A-1092-0059
ER-016560
NETWORK
USB
MON/KY/MS
SERIAL
NET2_4
FD147 PR-200063-01
KVM1_3 S403
D113 W-1729
FD114 EXISTING
D115 W-1729
D116 W-1729
DVM_COM1_2 S402
W-2068
MOUNTED TO 0A-1401-2001

SCV #3
SIGNAL CONVERTER 0A-1065-0193
CONVERTER # 3_ 1 — RS 232 RX/TX — CL RX
TRUCK DOCK — CL TX
CONVERTER # 3_ 2 — RS 232 RX/TX — CL RX
STATS — CL TX
CONVERTER # 3_ 3 — RS232 RX/TX — CL RX
ALLSPORT G.I.P. — RS232 TX — CL TX
D123 W-1973
D124 W-1973
D125 W-1973
D126 W-1973
ALLSPORT CC S402

RACK TERMINATED / FIELD TERMINATED
0A-1311-0105
TERMINAL BLOCK 1 TRUCKDOCK/TV FEED (TIME STAMP)
TERMINAL BLOCK 2 STATS OUPUT #1
TERMINAL BLOCK 3 STATS INPUT #1
TERMINAL BLOCK 4 STATS INPUT #2
TERMINAL BLOCK 5 ALLSPORT CURRENT LOOP INPUT #1
TERMINAL BLOCK 6 ALLSPORT CURRENT LOOP OUTPUT #4 REAL TIME DATA (RTD)
TERMINAL BLOCK 7 ALLSPORT CURRENT LOOP OUTPUT #1 SCOREBOARD OUTPUT
TERMINAL BLOCK 8 ALLSPORT CURRENT LOOP OUTPUT #2 SCOREBOARD OUTPUT
SCV1_TB1 S402
A29 S402
SCV2_CV3 S402
ALLSPORT J-BOX S402

UPS #1
UPS A-2206
USB, SERIAL, POWER OUT, POWER OUT
POWER OUT, POWER IN, POWER OUT, POWER OUT
CPU5_USB
D117 SUPPLIED

REV	DATE:		BY:
04	17 JUL 14	ADDED DETAILS PER C22396 FASCIA DISPLAY	RES
03	28 OCT 10	ADDED CONNECTIONS FROM TERMINAL BLOCK 7 TO ALLSPORT CG AND ALLSPORT J-BOX	CGL
02	25 JUN 10	CHANGED COMPUTERS TO 0A-1402-5303	JC
01	01 JUN 10	UPDATED TO NEW TITLE BLOCK	NJR

DAKTRONICS, INC.
BROOKINGS, SD 57006
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PROJ: INDIANA UNIVERSITY / BLOOMINGTON, IN
TITLE: CONTROL: SCHEMATIC – NEW EQUIPMENT – 401 FOOTBALL
DESIGN: NROHLIK
DRAWN: CLARSEN
DATE: 17 MAY 10
SCALE: NONE

SHEET	REV	JOB NO:	FUNC-TYPE-SIZE	
401	04	C17541	F-01-D	1011961

EQUIPMENT LOCATED IN W710 SCORING AND TIMING PRODUCTION

OPTIONAL ADDITIONAL EQUIPMENT: 0A-1401-0002 & CONNECTING CABLES

NOTE: THIS EQUIPMENT WILL BE INSTALLED ON SITE. (TYPICALLY ON FRONT COUNTER)

UPS A-1690

WORKSTATION # 2

19" LCD MONITOR A-2047

KEYBOARD

CATS A-2763 KVM RECEIVER — MONITOR, KEYBOARD, MOUSE

5V POWER SUPPLY INCLUDED

COMPUTERS UPGRADED ON C22641

CPU #1

DMP-7000 0Z-22641-1000A V7MAIN-P DD1634751

VMAX4 CARD 2 — TEMP / PH, ~~COAX RX~~, ~~FIBER RX~~, FIBER TX, COAX TX 1, ~~COAX TX 2~~ (0A-1278-0003)

VMAX CARD EXISTING FROM C22641

ADDED ON C22641

VMAX4 CARD 1 — TEMP / PH, ~~COAX RX~~, ~~FIBER RX~~, FIBER TX, COAX TX 1, ~~COAX TX 2~~ (0A-1278-0003)

NETWORK, COM 1, KB/MS/VGA, USB 1, USB 2, SERIAL EX

NET2_2 S401 — W-1723 D110 — D111 — W-1731 D113 — W-2068

MOUNTED TO 0A-1401-2000 PRIMARY

CPU #2

DMP-7000 0Z-22641-1000B V7MAIN-B DD1636434

VMAX4 CARD 2 — TEMP / PH, ~~COAX RX~~, ~~FIBER RX~~, FIBER TX, COAX TX 1, ~~COAX TX 2~~ (0A-1278-0003)

VMAX CARD EXISTING FROM C22641

ADDED ON C22641

VMAX4 CARD 1 — TEMP / PH, ~~COAX RX~~, ~~FIBER RX~~, FIBER TX, COAX TX 1, ~~COAX TX 2~~ (0A-1278-0003)

NETWORK, COM 1, KB/MS/VGA, USB 1, USB 2, SERIAL EX

NET2_3 S401 — W-1723 D116 — D117 — W-2068

MOUNTED TO 0A-1401-2000 BACKUP

MONITOR, KEYBOARD, MOUSE — 2X8 KVM SWITCH A-2198 — KVM2 EXT

CPU 1 — W-1739 D102
CPU 2 — W-1739 D103
CPU 3 — CPU3_MMX S401
CPU 4 — CPU4_MMX S401
CPU 5 — CPU5_MMX S401
CPU 6
CPU 7
CPU 8

EQUIPMENT LOCATED IN W713 STADIUM CONTROL

EXISTING EQUIPMENT FROM C16735

ABS #4

EXTRON SW4 SDI SWITCHER 0A-1610-3019 (A-2942)

FD101 COAX IN 1
FD102 COAX IN 2
COAX IN 3
COAX IN 4
RS-232

COAX OUT 1 — FD103
COAX OUT 2 — FD104

FASCIA

DIP #1

VIDEO IMAGE PROCESSOR 4060 — 0A-1578-1000

PORT A RX, PORT A TX, PORT B RX, PORT B TX, V7 PHOTO, CAN PHOTO
SDI / VMAX, DVI, NETWORK
TRANSLATION TABLE - DD2850802

FD105 — FPP2_B1:B2 — S401
FD106

DIP #2

VIDEO IMAGE PROCESSOR 4060 — 0A-1578-1000

PORT A RX, PORT A TX, PORT B RX, PORT B TX, V7 PHOTO, CAN PHOTO
SDI / VMAX, DVI, NETWORK
TRANSLATION TABLE - DD2850803

FD107 — FPP2_B7:B8 — S401

** NOTE **
EQUIPMENT ADDED PER C22396 FOR NEW FASCIA DISPLAY. VMAX4 CARDS ADDED INTO EXISTING COMPUTERS IN EXISTING 24 RU RACK. A/B SWITCH AND VIP-4060 DISPLAY INTERFACE PROCESSORS INSTALLED IN EXISTING 40 RU RACK.

CABLE LABELS: DD2850779
EQUIPMENT LABELS: DD2850780

A/B INTERFACE # 2 0A-1278-0032

FIBER IN A, FIBER IN B, ~~COAX IN~~, ~~COAX OUT~~, REMOTE IN
A/B SWITCH #2_1
FIBER OUT 1, FIBER OUT 2, FIBER OUT 3, FIBER OUT 4, REMOTE OUT

W-1721 D123

0A-1273-0003 TRANSLATION TABLE DD1632664 RACKMOUNT DD 4042

PORT 0 RX, PORT 0 TX, PORT 1 RX, PORT 1 TX, SERIAL A, SERIAL B
DD #1
PORT 0 RX, PORT 0 TX, PORT 1 RX, PORT 1 TX, PORT 2 RX, PORT 2 TX, PORT 3 RX, PORT 3 TX
SWITCHES DD, FACE, SCN

W-1727 D126
W-1727 D127

RPS 1

POWER CONTROLLER 0A-1171-4082

SWITCH 1, LED, SWITCH 2, SCBD
FIBER OUT A, FIBER OUT B

W-1726 D128
W-1726 D129

W-1726 D130

EN-2260 @ 1; P-1291 @ 3; EN-1960 @ 3

FIBER PATCH PANEL POSITION
FIBER COLORS
DESCRIPTION / FUNCTION

A1 BL
A2 OR
A3 GN
A4 BN
A5 WT
A6 SL
B1 RD
B2 BK
B3 YL
B4 VI
B5 PO
B6 AQ

TO 304X416 REFER TO DWG-1191132

C1 BL 180X192; MLC1 TX
C2 OR 180X192; MLC1 RX
C3 GN
C4 BN 180X192 MLC1; REMOTE POWER RP1_1
C5 WT 180X192 MLC1; REMOTE POWER RP1_2
C6 SL SCOREBOARD

TO 180X192 REFER TO DWG-847438

EN-1960 FIBER PATCH PANEL POSITION D

EN-1960 FIBER PATCH PANEL POSITION E

EN-1960 FIBER PATCH PANEL POSITION F

CONTROL ROOM REMOTE POWER SWITCHING CONFIGURATION

SWITCH 1 — ON / OFF — HD-16 BOTH SIDES
SWITCH 2 — ON / OFF — SCOREBOARD

PATCH PANEL CONFIG.

EN-1882 @1
P-1291 @1 FP1

FIBER PATCH PANEL POSITION
FIBER COLORS
DESCRIPTION / FUNCTION

A1 BL
A2 OR
A3 GN
A4 BN
A5 SL
A6 WT SCOREBOARD

W-1505

0A-1196-0131 SCOREBOARD CL TO FIBER CONVERTER CARD INSTALLED IN PATCH PANEL

FIBER TERMS

ST 62µm	QTY.
P-1293	XX

LOCATED AT TRUCK DOCK BEHIND ELEVATOR

SCV1, 0A-1065-0173
TB1 X1 J1
1-CL+ 2-CL- 12-N 13-P
CLT1_TB1 S401 — W-1267 (10')

SCV #2 SIGNAL CONVERTER 0A-1065-0183

RS 232 RX/TX — CONVERTER # 2_ 1 — CL RX
NOT USED — CL TX
RS 232 RX/TX — CONVERTER # 2_ 2 — CL RX
NOT USED — CL TX
RS232 RX/TX — CONVERTER # 2_ 3 — CL RX
RS232 TX — ALLSPORT G.I.P. — CL TX
RS232 TX

CLT1_TB5/6 S401

UPGRADE PER CUSTOMER SERVICE SVO 261356. FROM C8740

UPGRADE PER CUSTOMER SERVICE SVO 261356. FROM C8740

EXISTING W-1234 — CLT1_TB5/6/7 S401

0A-1196-0089 ALLSPORT J-BOX

W-1234

TO D.O.G. CLOCKS
TO LOCKER ROOM CLOCKS
TO AUX SCORE BOARDS

EXISTING ESPN MODEM

W-1247, 25' SIGNAL CABLE

SHOT CLOCK CONTROL 0A-1196-0031

GAME CLOCK CONTROL 0A-1166-0003

J7 J6 J5 J4 J3 J1 — ALLSPORT 5100

LL-2437 CODE 6612

0A-1196-0002 TNMC INSERT LL-2441

ALLSPORT MANUAL 0A-1000-1079

ALLSPORT J1 OUTPUT TABLE

PIN#	OUTPUT #	SIGNAL
14	1+	MAIN& AUX SCOREBOARDS
15	1-	
16	2+	D.O.G. CLOCK
17	2-	
18	3+	LOCKER RM. CLKS.
19	3-	
22	4+	V7000 RTD
7	4-	
9	CL IN+	STATS INPUT TO CONSOLE
10	CL IN-	
7	GND	

STATS J2 OUTPUT TABLE

SC PIN#	J2 PIN #	SIGNAL
11	1	STATS RX
12	2	
9	3	STATS TX
10	4	
4	5	NOT USED
5	6	
6	7	GND

VIDEO IN
SCOREBOARD IN
VIDEO OUT TO CONCOURSE TV'S

0A-1314-0001 ALLSPORT CG (KIT)

T-1118 WALL PACK TRANSFORMER WITH 6FT CORD (KIT). 120VAC RECEPTACLE REQUIRED.

CLT1_TB3 S401

A29
A28
A30

FROM C8740

SC1 0A-1065-0173 EXISTING
N-12 P-13

UA1
PRINTER, COM, USB, NETWORK
LAPTOP COMPUTER
STAT COMPUTER EXISTING

STATS CONTROL ROOM 5TH LEVEL

BREAKOUT ROOM (BOTTOM OF STAIRS)

TO SCOREBOARDS

REV	DATE:		BY:
05	18 SEP 14	UPDATED CPU #1 & CPU #2 TO NEW COMPUTERS	CWY
04	17 JUL 14	ADDED CONTROL FOR FASCIA DISPLAY PER C22396	RES
03	10 NOV 11	SWITCHED THE KVM RECEIVER FROM A-2916 TO A-2763	CHAGEN
02	28 OCT 10	REMOVED 2ND WORKSTATION AND EXISTING DVMC, ADDED ALLSPORT CG	CGL
01	01 JUN 10	UPDATED TO NEW TITLE BLOCK	NJR

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PROJ: INDIANA UNIVERSITY
TITLE: CONTROL, SCHEMATIC – EXISTING EQUIPMENT–402 FOOTBALL
DESIGN: NROHLIK
DRAWN: CLARSEN — DATE: 17 MAY 10
SCALE: NONE

SHEET	REV	JOB NO.	FUNC-TYPE-SIZE	
402	05	C17541	F-01-D	1011962

INDIANA UNIVERSITY

BLOOMINGTON, IN

SUBMITTAL APPROVAL

☐ APPROVED
☐ APPROVED AS NOTED
☐ APPROVED AS NOTED & RESUBMIT

COMPANY: _____
SIGNED: _____
TITLE: _____ DATE: _____

SHEET 402

INDIANA UNIVERSITY

MEMORIAL STADIUM

BLOOMINGTON, IN USA

SUBMITTAL APPROVAL

☐ APPROVED ☐ APPROVED AS NOTED ☐ APPROVED AS NOTED & RESUBMIT

COMPANY: _____

SIGNED: _____

TITLE: _____ DATE: _____

ELECTRICAL/SYSTEM

SHEET NO.	DRAWING NO.	TITLE
200	1183815	SYSTEM RISER; 200; ELECTRICAL NOTES AND INDEX
201	1183816	SYSTEM RISER; 201; RTX-1100-13HD-84X4620

NOTE: ALL FIBER TERMINATIONS TO BE DESIGNATED BY TEXT IN UPPER RIGHT CORNER OF DEVICES. DAKTRONICS USES ST AND LC TERMINATIONS THROUGHOUT THE SYSTEM. DESIGNATION IS FOR ALL TERMINATIONS LOCATED AT EACH DEVICE.

EXAMPLE:

ST (OR LC)

DEVICE

NOTES:

THE FOLLOWING 200 SERIES ARE NOT SCALED DRAWINGS AND SHOULD BE USED FOR POWER AND SIGNAL REQUIREMENTS ONLY.

IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT ALL ELECTRICAL WORK PERFORMED ON SITE MEETS OR EXCEEDS ALL LOCAL AND NATIONAL ELECTRICAL CODES.

ALL SIGNAL CABLE RUNS SHOULD BE LABELED WITH THEIR ORIGIN AND DESTINATION ON EACH END.

FIBER OPTIC CABLE RUNS MUST BE CONTINUOUS WITH A MINIMUM BEND RADIUS OF 15XO.D. OF THE FIBER CABLE.

IF A SHIELDED SIGNAL CABLE IS UTILIZED IN YOUR SYSTEM, ENSURE THAT THE CABLES SHIELD IS GROUNDED ON THE DISPLAY END ONLY, AND TO THE SHIELD TERMINAL AT THE SIGNAL CABLE SURGE ARRESTER CARD WHEN AVAILABLE.

ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE NATIONAL ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.

THE OVER CURRENT PROTECTION DEVICE MUST BE MATCHED TO THE FAULT CURRENT THAT IS AVAILABLE IN THE POWER DELIVERY CIRCUIT. TO DETERMINE THE AVAILABLE FAULT CURRENT OF A SITE, AN ONSITE FAULT CURRENT SURVEY MAY NEED TO BE PERFORMED BY QUALIFIED PERSONNEL. IF THE AVAILABLE FAULT CURRENT IN THE ELECTRICAL SYSTEM EXCEEDS 10,000 AMPS, A DAKTRONICS REPRESENTATIVE SHOULD BE CONTACTED.

DUE TO THE INRUSH CURRENT (MOMENTARY SURGE) CREATED BY THE DISPLAY EQUIPMENT ON STARTUP, THE OVER CURRENT PROTECTION DEVICE(S) MAY HAVE TO BE OVERSIZED.

DAKTRONICS UTILIZES BOTH STANDARD AND SUPPLEMENTARY CIRCUIT BREAKERS IN THE DISPLAY ASSEMBLY PROCESS. IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT ALL PRIMARY FEEDER CIRCUIT BREAKERS TO EACH DISPLAY/DISPLAY SECTION ARE UL 489 LISTED.

DAKTRONICS IS NOT RESPONSIBLE FOR THE QUALITY OF THE POWER DELIVERY SYSTEM TO THE DISPLAY SYSTEM.

BECAUSE EACH INSTALLATION IS UNIQUE, DAKTRONICS OFFERS THESE INSTRUCTIONS AS GUIDELINES ONLY. DAKTRONICS, INC. ASSUMES NO LIABILITY IF INSTALLATION STEPS HAVE BEEN OMITTED OR OTHER NECESSARY PROCEDURES ARE NOT INCLUDED IN THIS SYSTEM RISER DIAGRAM.

POWER AND SIGNAL REQUIREMENTS ARE SPECIFIED TO THE EQUIPMENT AND SETUP SHOWN. ANY CHANGES MADE TO EQUIPMENT OR THEIR SETUP SHOULD BE DISCUSSED WITH DAKTRONICS DESIGN PERSONNEL AND WILL REQUIRE AN UPDATED RISER DIAGRAM DRAWING.

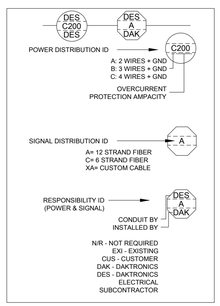
THE CONTRACTUAL AGREEMENT WILL DETERMINE THE PARTY OR PARTIES RESPONSIBLE FOR ITEMS LISTED AS FIELD INSTALLED. THIS DRAWING IS NOT INTENDED TO DETERMINE RESPONSIBILITIES AND SHOULD BE USED FOR REFERENCES ONLY.

ACTUAL PLACEMENT OF ELECTRICAL COMPONENTS, SUCH AS PANEL BOARDS, A/C'S, AND SPLICE PANELS, MAY VARY. PLEASE REFERENCE THE SYSTEM SHOP DRAWING FOR THIS DETAIL. THIS DRAWING REPRESENTS A GENERAL MOUNTING LOCATION ONLY.

——— EXTERNALLY MOUNTED HARDWARE
– – – – INTERNALLY MOUNTED HARDWARE

SIGNAL DISTRIBUTION SYSTEM LEGEND

ID TAG	CABLE TYPE	SIZE (O.D.)	DAKTRONICS PART NUMBER	CONDUIT PROVIDED & INSTALLED BY	CABLE		
					PROVIDED BY	INSTALLED BY	TERMINATED BY
A	12 STRAND, 50µm DX FIBER	0.26"	W-1490	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
B	NOT USED	-	-	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
C	6 STRAND, 50µm DX FIBER	0.22"	W-1489	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
D	6 STRAND, SM DX FIBER	0.20"	W-2515	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
E	4 STRAND, 50µm DX FIBER	0.20"	W-2121	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
F	4 STRAND, 50µm BX FIBER	0.31"	W-1494	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
G	2 STRAND, 50µm DX FIBER	0.18"	W-2120	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
H	6 STRAND, 62.5µm DX FIBER	0.22"	W-1456	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
J	6 PAIR, 22 AWG W/SHIELD	0.362"	W-1245	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
K	6 PAIR, 22 AWG PLENUM	0.30"	W-2035	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
L	2 PAIR, 22 AWG W/SHIELD	0.168"	W-1234	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
M	2 PAIR, 22 AWG PLENUM	0.14"	W-2034	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
N	AUDIO; 2 PAIR, 22 AWG	0.22"	W-1614	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
P	AUDIO; 1 PAIR, 22 AWG	0.17"	W-1615	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
R	2 PAIR, 18 AWG W/SHIELD	0.38"	W-1852	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
S	4 PAIR, 24 AWG CAT5E	0.21"	W-1384	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
T	4 PAIR, 24 AWG CAT5	0.26"	W-1467	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
U	1 PAIR 22 AWG W/SHIELD	0.138"	W-1077	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
V	1 PAIR, 12 AWG SPEAKER WIRE	0.279"	W-1561	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS
XA-Z	OTHER W OR PR CABLES	-	W OR PR	SEE TAG	DAKTRONICS	SEE TAG	DAKTRONICS



POWER DISTRIBUTION SYSTEM LEGEND

FEEDER TABLE - 2 CONDUCTORS+GND (SEE SPECIFICATIONS FOR INSULATION TYPE)

OVER CURRENT PROTECTION AMPACITY	2 WIRES			
	FDR REF	COPPER WIRE AWG-KCMIL	COPPER GND WIRE AWG	MIN. CONDUIT SIZE
15	A15	(2)14	14	1/2"
20	A20	(2)12	12	1/2"
25	A25	(2)10	10	1/2"
30	A30	(2)10	10	1/2"
35	A35	(2)8	10	1/2"
40	A40	(2)8	10	1/2"
45	A45	(2)8	10	1/2"
50	A50	(2)8	10	1/2"
60	A60	(2)6	10	3/4"
70	A70	(2)4	8	3/4"
80	A80	(2)4	8	3/4"
90	A90	(2)3	8	1"
100	A100	(2)3	8	1"
110	A110	(2)2	6	1"
125	A125	(2)1	6	1 1/4"
150	A150	(2)1/0	6	1 1/4"
175	A175	(2)2/0	6	1 1/4"
200	A200	(2)3/0	6	1 1/2"

NOTES:

A. CONDUIT SIZES ARE MINIMUM; INCREASE FOR LONG OR DIFFICULT RUNS.

B. ABOVE 86 F AMBIENT INCREASE WIRE SIZE PER NEC.

C. CONDUIT AND CONDUCTOR SIZES ARE BASED ON 90° TYPE THHN COPPER CURRENT CARRYING CONDUCTORS IN SCH. 40 PVC CONDUIT, TERMINATING TO 75°C TERMINALS. CONDUIT AND CONDUCTOR SIZES MAY NEED TO BE INCREASED PER LOCAL AND NATIONAL ELECTRIC CODES IF OTHER CONDUCTOR OR CONDUIT TYPES ARE USED.

D. IF WIRE OR CONDUIT SIZES OTHER THAN THOSE SHOWN IN THESE CHARTS ARE TO BE USED, CONTACT A DAKTRONICS ELECTRICAL ENGINEERING REPRESENTATIVE.

FEEDER TABLE - 3 CONDUCTORS+GND (SEE SPECIFICATIONS FOR INSULATION TYPE)

OVER CURRENT PROTECTION AMPACITY	3 WIRES			
	FDR REF	COPPER WIRE AWG-KCMIL	COPPER GND WIRE AWG	MIN. CONDUIT SIZE
15	B15	(3)14	14	1/2"
20	B20	(3)12	12	1/2"
25	B25	(3)10	10	1/2"
30	B30	(3)10	10	1/2"
35	B35	(3)8	10	3/4"
40	B40	(3)8	10	3/4"
45	B45	(3)8	10	3/4"
50	B50	(3)8	10	3/4"
60	B60	(3)6	10	3/4"
70	B70	(3)4	8	1"
80	B80	(3)4	8	1"
90	B90	(3)3	8	1"
100	B100	(3)3	8	1"
110	B110	(3)2	6	1 1/4"
125	B125	(3)1	6	1 1/4"
150	B150	(3)1/0	6	1 1/2"
175	B175	(3)2/0	6	1 1/2"
200	B200	(3)3/0	6	2"
225	B225	(3)4/0	4	2"
250	B250	(3)250	4	2"
300	B300	(3)350	4	2 1/2"
350	B350	(3)400	3	2 1/2"
400	B400	(3)600	3	3"

FEEDER TABLE - 4 CONDUCTORS+GND (SEE SPECIFICATIONS FOR INSULATION TYPE)

OVER CURRENT PROTECTION AMPACITY	4 WIRES			
	FDR REF	COPPER WIRE AWG-KCMIL	COPPER GND WIRE AWG	MIN. CONDUIT SIZE
15	C15	(4)14	14	1/2"
20	C20	(4)12	12	1/2"
25	C25	(4)10	10	1/2"
30	C30	(4)10	10	1/2"
35	C35	(4)8	10	3/4"
40	C40	(4)8	10	3/4"
45	C45	(4)8	10	3/4"
50	C50	(4)8	10	3/4"
60	C60	(4)6	10	1"
70	C70	(4)4	8	1 1/4"
80	C80	(4)4	8	1 1/4"
90	C90	(4)3	8	1 1/4"
100	C100	(4)3	8	1 1/4"
110	C110	(4)2	6	1 1/4"
125	C125	(4)1	6	1 1/2"
150	C150	(4)1/0	6	1 1/2"
175	C175	(4)2/0	6	2"
200	C200	(4)3/0	6	2"
225	C225	(4)4/0	4	2 1/2"
250	C250	(4)250	4	2 1/2"
300	C300	(4)350	4	3"
350	C350	(4)400	3	3"
400	C400	(4)600	3	3 1/2"
450	C450	(8)4/0	(2)2	(2) 2 1/2"
500	C500	(8)250	(2)2	(2) 2 1/2"
600	C600	(8)350	(2)1	(2) 3"
800	C800	(8)600	(2)1/0	(2) 3 1/2"
1000	C1000	(16)250	(4)2/0	(4) 2 1/2"
1200	C1200	(12)600	(3)3/0	(3) 3 1/2"
1600	C1600	(16)600	(4)4/0	(4) 3 1/2"
2000	C2000	(20)600	(5)250	(5) 3 1/2"
2500	C2500	(40)250	(10)350	(10)3"
3000	C3000	(48)250	(12)400	(12)3"
4000	C4000	(40)600	(10)500	(10) 4"

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BROOKINGS, SD 57006
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PROJ: INDIANA UNIVERSITY
TITLE: SYSTEM RISER; 200; ELECTRICAL NOTES AND INDEX
DESIGN: SSTUTZM | DRAWN: SSTUTZM | DATE: 24 JULY 14
SCALE: NONE

SHEET	REV	JOB NO:	FUNC - TYPE - SIZE	
200	00	C22396	F - 01 - D	1183815

RTX-1100-13HD-N-HC-84X4620-120BU-LT-RD

POWER AND SIGNAL DISTRIBUTION SYSTEM LEGEND
REFERENCE DRAWING 1183816, SHEET 200

COMPONENT IDENTIFICATION LEGEND				
ID TAG	COMPONENT DESCRIPTION	MANUFACTURER'S PART NUMBER	COMPONENT PROVIDED BY	COMPONENT INSTALLED BY
IFP	INTERNAL FIBER PATCH PLATE		DAKTRONICS	FACTORY
FP	FIBER PATCH PANEL	0A-1076-0131 WIP-1389	DAKTRONICS	DAK. ELECT. SUB.
PT	INTERNAL POWER TERM PANEL		DAKTRONICS	FACTORY
SS	208V OUTDOOR SURGE SUPPRESSOR	A-2073	DAKTRONICS	CUSTOMER
RP	REMOTE POWER CONTROL CONTACTOR	EN-2434/0P-1196-0013	DAKTRONICS	DAK. ELECT. SUB.
MD	MAIN DISTRIBUTION PANEL		CUSTOMER	CUSTOMER

INDIANA UNIVERSITY

MEMORIAL STADIUM

BLOOMINGTON, IN USA

SUBMITTAL APPROVAL

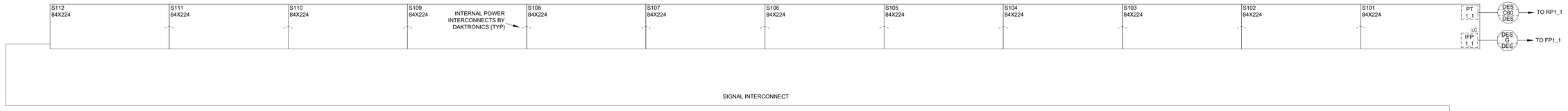
☐ APPROVED ☐ APPROVED AS NOTED ☐ APPROVED AS NOTED & RESUBMIT

COMPANY: _____

SIGNED: _____

TITLE: _____ DATE: _____

REAR VIEW

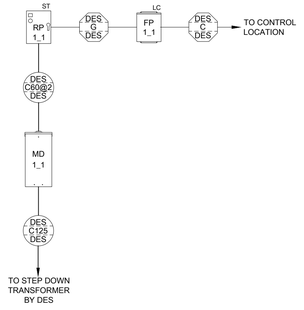


PANEL: MD1_1	SERVICE: 208Y/120 V 3 PH 4+GND W												
CIRCUIT	AMP LOAD			BRKR		CKT NO.		BRKR		AMP LOAD			CIRCUIT
	A	B	C	P	AMP			AMP	P	A	B	C	
PT1_1	54			3	60	1	2	60	3	40.5			PT1_2
		54				3	4			38.8			
			54			5	6					37.2	
SURGESUPP	-			3	30	7	8	BLANK					
		-				9	10	BLANK					
						11	12	BLANK					
TOTAL LOAD: A 94.5 B 92.8 C 91.2 TOTAL (KVA): 33.4													

*DAKTRONICS LED DISPLAYS ARE CONSIDERED NON-CONTINUOUS LOADS

SURGE SUPPRESSION NOTE

SURGE SUPPRESSORS TO BE INSTALLED AT EACH PANELBOARD SUPPLYING THE FEEDS FOR THE DISPLAY. TYPICALLY FED WITH 30A-3PH 120/208V CIRCUIT BREAKER. ELECT. SUB. AND DAKTRONICS TO COORDINATE HOW MANY SURGE SUPPRESSORS ARE NEEDED FOR THE DISPLAY.



REV	DATE		BY:
01	30 JULY 14	MOVED PT1_1 TO SECTION 101 ADDED STEP DWON ATWR BY SUB	SLS

DAKTRONICS, INC.
BROOKINGS, SD 57006
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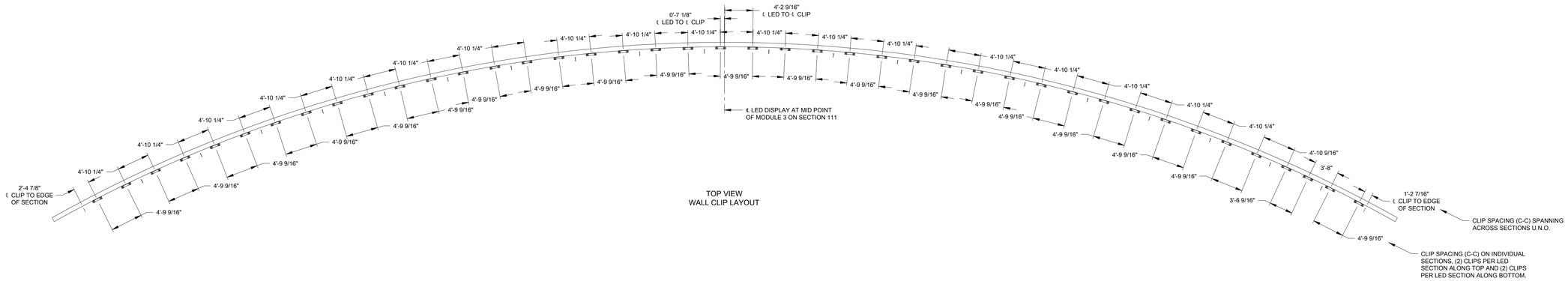
PROJ: INDIANA UNIVERSITY

TITLE: SYSTEM RISER; 201; RTX-1100-13HD-84X4620

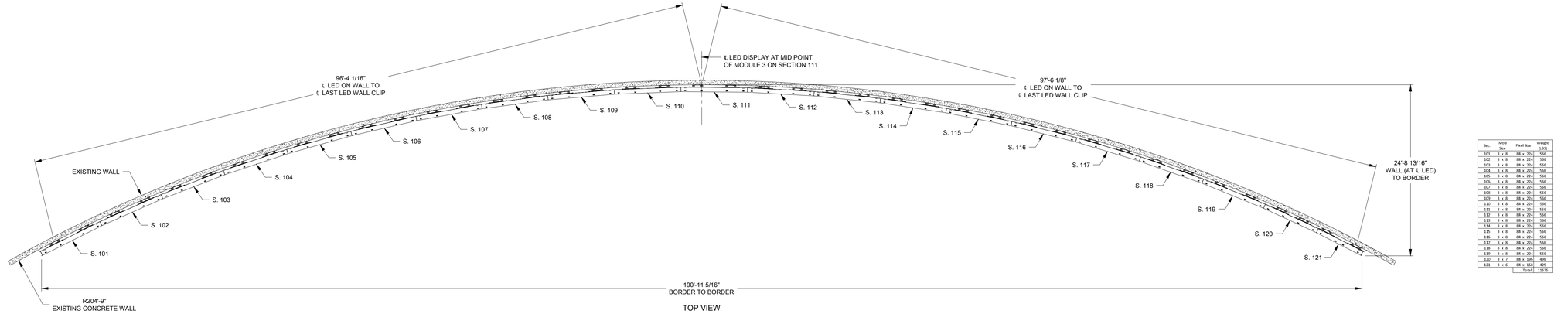
DESIGN: SSTUTZM | DRAWN: SSTUTZM | DATE: 24 JULY 14

SCALE: NONE

SHEET	REV	JOB NO:	FUNC - TYPE - SIZE	
201	01	C22396	F - 01 - D	1183816

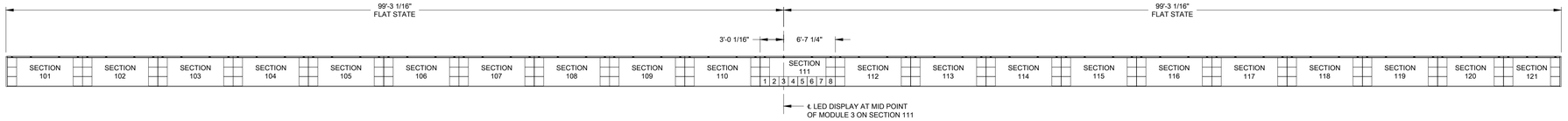


TOP VIEW
WALL CLIP LAYOUT



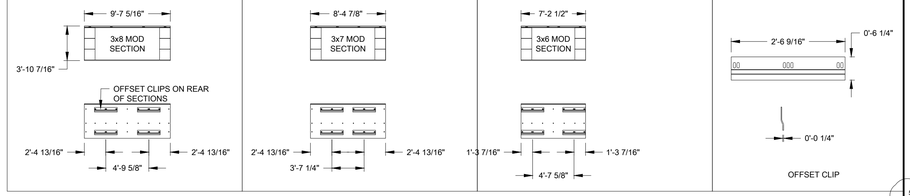
Sec.	Mod Size	Pixel Size	Weight (LBS)
101	3 x 8	84 x 224	566
102	3 x 8	84 x 224	566
103	3 x 8	84 x 224	566
104	3 x 8	84 x 224	566
105	3 x 8	84 x 224	566
106	3 x 8	84 x 224	566
107	3 x 8	84 x 224	566
108	3 x 8	84 x 224	566
109	3 x 8	84 x 224	566
110	3 x 8	84 x 224	566
111	3 x 8	84 x 224	566
112	3 x 8	84 x 224	566
113	3 x 8	84 x 224	566
114	3 x 8	84 x 224	566
115	3 x 8	84 x 224	566
116	3 x 8	84 x 224	566
117	3 x 8	84 x 224	566
118	3 x 8	84 x 224	566
119	3 x 8	84 x 224	566
120	3 x 7	84 x 196	496
121	3 x 6	84 x 168	425
		Total	13675

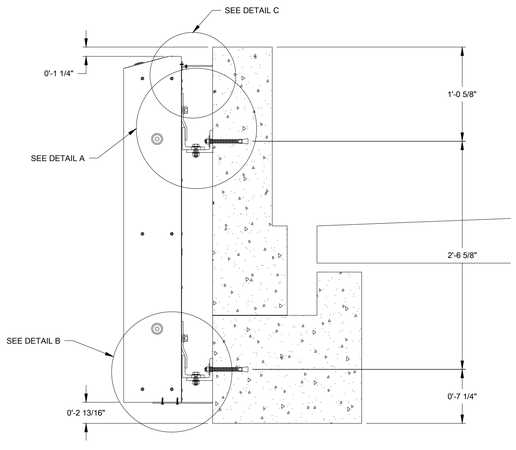
TOP VIEW



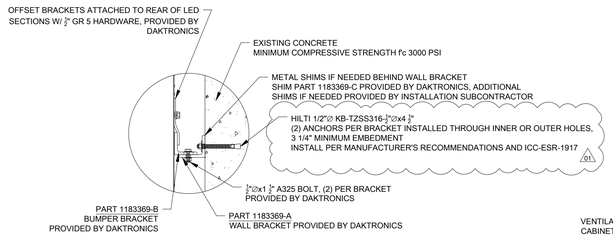
FRONT VIEW
SHOWN FLAT

TYP. SECTION DETAILS

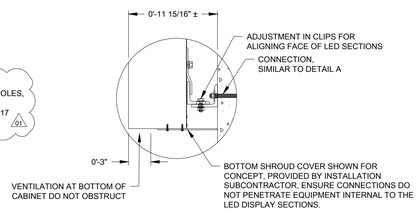




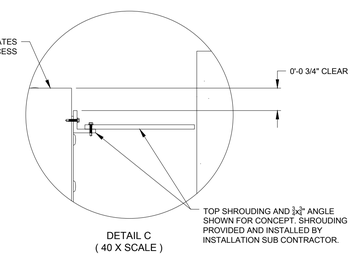
(10 X SCALE)



DETAIL A



DETAIL B



DETAIL C
(40 X SCALE)

INDIANA UNIVERSITY

MEMORIAL STADIUM

BLOOMINGTON, IN USA

☐ PARTS INSTALLED AND WELDED PER PRINT
☐ MODIFICATIONS MADE
-IF MODIFICATIONS ARE MADE, CHANGES SHALL BE DOCUMENTED AND AS-BUILT DRAWINGS OR SKETCHES RETURNED TO DAKTRONICS
PROJECT MANAGEMENT OR ENGINEERING STAFF
WORK PERFORMED BY:
PRINT NAME: _____
SIGNED: _____

SUBMITTAL APPROVAL

☐ APPROVED ☐ APPROVED AS NOTED ☐ APPROVED AS NOTED & RESUBMIT
COMPANY: _____
SIGNED: _____
TITLE: _____ DATE: _____

NOTES:

1.0 REFERENCE
1.1 REFER TO DAKTRONICS RISER DIAGRAM FOR ALL ELECTRICAL POWER AND SIGNAL SPECIFICATIONS.
1.2 REFER TO INSTALLATION AND MAINTENANCE MANUAL FOR COMPLETE INSTALLATION INSTRUCTIONS.
1.3 ALL DIMENSIONS ARE IN FEET AND INCHES.

2.0 PROJECT RESPONSIBILITY
2.1 ALL DRAWINGS MUST BE APPROVED BY THE CUSTOMER AND IF APPLICABLE BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF INDIANA BEFORE THEY CAN BE USED FOR FABRICATION OR ERECTION.
2.2 DAKTRONICS IS RESPONSIBLE FOR CERTIFYING ALL NEW STRUCTURE.
2.3 IT WILL BE THE UNDERSTANDING OF DAKTRONICS THAT SHOP APPROVAL IMPLIES THAT THE CUSTOMER'S QUALIFIED ENGINEER HAS REVIEWED THE LOADS TO THE CONCRETE FASCIA AND THAT THE CONCRETE FASCIA HAS BEEN DEEMED ACCEPTABLE TO SUPPORT THE LOADS AS DETAILED.
2.4 DAKTRONICS' AND CUSTOMER'S SUBCONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO INSTALLATION.
2.5 ALL SUBCONTRACTORS SHALL PERFORM WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND OR LOCAL REGULATIONS.
2.6 ALL ACCESS STRUCTURE MUST MEET ALL APPLICABLE LOCAL, FEDERAL, AND STATE SAFETY REGULATIONS.
2.7 EACH SUBCONTRACTOR IS RESPONSIBLE FOR JOBSITE SAFETY.
2.8 ERECTION SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGNING AND PROVIDING TEMPORARY BRACING FOR STABILITY OF UNINSTALLED EQUIPMENT AND STRUCTURE.
2.9 EACH SUBCONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF WASTE MATERIALS ON THE JOBSITE.

3.0 DISPLAY NOTES
3.1 DAKTRONICS DISPLAYS ARE ALL ALUMINUM CONSTRUCTION.
3.2 ELECTRICAL COMPONENTS ARE ACCESSED FROM THE FRONT OR TOP FOR THE RIBBON VIDEO DISPLAY.
3.3 LIFT POINTS ARE PROVIDED BY DAKTRONICS IN EACH SECTION (ALL REMOVABLE LIFT POINTS SHALL BE REMOVED AFTER THE INSTALLATION OF EACH SECTION).
3.4 WHEN LIFTING SECTIONS THE PREFERRED METHOD IS TO USE A SPREADER BEAM TO DISTRIBUTE WEIGHT AMONG ALL LIFT POINTS PROVIDED. FOR ALTERNATE METHOD OF RIGGING REFER TO INSTALLATION MANUAL.
3.5 DAKTRONICS DISPLAYS ARE SUPPLIED WITH OFFSET BRACKETS ATTACHED TO DISPLAY SECTIONS WITH 1/2" GRADE 5 HARDWARE.
3.6 DEPTH OF CABINET MAY VARY DEPENDING ON DISPLAY TECHNOLOGY.
3.7 WHEN INSTALLING DAKTRONICS DISPLAY SECTIONS, DISPLAY JOINTS BETWEEN CONSECUTIVE SECTIONS MUST BE BOLTED TOGETHER.
3.8 ACTUAL WIND PRESSURE NOT TO EXCEED THE DESIGNED WIND PRESSURE CAPACITY OF DAKTRONICS DISPLAY CABINETS OF 57 PSF.

4.0 STRUCTURAL NOTES
4.1 COMPLY WITH THE PROVISIONS OF THE FOLLOWING LATEST EDITIONS BUT NOT LIMITED TO THESE ONLY:
- ALL FEDERAL, STATE AND LOCAL LAWS THAT GOVERN SAFETY REQUIREMENTS FOR STEEL ERECTION.
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"
- AMERICAN WELDING SOCIETY (AWS) STANDARD CODE D1.1 "STRUCTURAL WELDING CODE"
- AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.
- ACI-318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY"
4.2 STRUCTURAL STEEL GRADE:
- PLATE, ANGLE, AND CHANNEL SHALL BE ASTM A36 (Fy=36 ksi)
- HOLLOW STRUCTURAL STEEL TUBE SHALL BE ASTM A500-B (Fy=46 ksi)
- WIDE FLANGE AND WT SHALL BE ASTM A992-50 (Fy=50 ksi)
4.3 BOLTS AND NUTS
- ALL BOLTS SHALL BE HEAVY HEX STRUCTURAL BOLTS ASTM A325 TYPE 1 U.N.O.
- STRUCTURAL HEX NUTS SHALL BE MINIMUM ASTM A563-DH
- STRUCTURAL WASHERS SHALL BE MINIMUM ASTM F436
- ANCHOR RODS SHALL BE MINIMUM ASTM F1554-36 (Fy = 36 ksi) AND GALVANIZED
- GRADE 5 HARDWARE SHALL BE ACCEPTABLE WHERE SPECIFIED ON DRAWINGS
- ALL HEAVY HEX STRUCTURAL BOLTS, ANCHOR RODS, NUTS & WASHERS SHALL BE GALVANIZED PER THE LATEST EDITION OF ONE OF THE FOLLOWING ASTM STANDARDS: A153 OR A153 (CLASS C) OR ASTM B 695 (CLASS 50)
- ALL BOLTS IN CONTACT WITH ALUMINUM SHALL BE ZINC PLATED, GALVANIZED, OR STAINLESS STEEL.
- ALL BOLTS SHALL BE FULLY PRETENSIONED PER APPROVED METHODS LISTED IN AISC STANDARDS U.N.O.
4.4 CONCRETE AND GROUT
- CONCRETE SHALL BE PLACED TO ACI CODES AND STANDARDS OF PRACTICE. CONSTRUCTION JOINTS ARE NOT ALLOWED. INDIVIDUAL FOUNDATIONS SHALL BE POURED IN A CONTINUOUS POUR.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 psi.
- NON-SHRINK GROUT SHALL CONFORM TO ASTM C-1107. NON-SHRINK GROUT SHALL HAVE A MINIMUM STRENGTH AT 28 DAYS OF 8000 PSI FOR SUPPORTING 4000 PSI CONCRETE AND SHALL BE SLOPED AWAY FROM COLUMNS IN ALL DIRECTIONS AT A MINIMUM 2.0% SLOPE.
- FOR DIRECT EMBEDDED COLUMNS, EQUIPMENT CAN BE INSTALLED ON STRUCTURE AFTER A MINIMUM CURING TIME OF 3 DAYS, PROVIDED THE CURING PROCESS HAS BEEN PROPERLY MAINTAINED IN ACCORDANCE WITH ACI-318
- FOR REINFORCED FOUNDATIONS, EQUIPMENT CAN BE INSTALLED ON STRUCTURE AFTER A MINIMUM CURING TIME OF 7 DAYS, PROVIDED THE CURING PROCESS HAS BEEN PROPERLY MAINTAINED IN ACCORDANCE WITH ACI-318
4.5 STRUCTURAL STEEL WELDING
- ALL WELDING (SHOP & FIELD) SHALL BE PERFORMED BY A WELDER CERTIFIED FOR THE SPECIFIED TYPE AND POSITION OF THE REQUIRED WELD.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1
- SHIELDED METAL ARC WELDING PROCESSES SHALL BE USED TO PERFORM WELDS
- LOW HYDROGEN E70 SERIES ELECTRODES TO BE USED WITH SMAW PROCESS
4.6 PAINT
- ALL STRUCTURE STEEL SHALL BE PREPARED TO MEET CUSTOMERS SPECIFICATIONS OR A MINIMUM OF SSPC-SP2
- ALL STEEL MUST BE COATED AND PROTECTED BY SPECIFIED PRIMER AND THEN FINISHED PER COLOR INDICATED BY THE CUSTOMER
IMMEDIATELY AFTER SURFACE PREPARATION APPLY SPECIFIED PRIMER AT A RATE TO PROVIDE A UNIFORM DRY THICKNESS OF 2 MILS
- TOUCH UP PAINT AFTER INSTALLATION
4.7 ALL HOLLOW STRUCTURAL STEEL SECTIONS SHALL BE CAPPED AND WELDED ALL AROUND TO PREVENT WATER FROM ENTERING THE SECTION
- SELF-DRILLING TEK SCREWS SHALL NOT BE USED FOR ATTACHMENT INTO HOLLOW STRUCTURAL STEEL SECTIONS UNLESS A THREAD SEALANT IS USED TO PREVENT WATER FROM ENTERING SECTION
- ANY OTHER PENETRATIONS INTO HOLLOW STRUCTURAL STEEL SECTIONS SHALL BE PROPERLY SEALED TO PREVENT WATER INTRUSION.
4.9 DESIGN CRITERIA:
- SEE CERTIFIED DRAWING FROM THE ENGINEER OF RECORD FOR FINAL PARAMETERS.

5.0 SPECIAL INSPECTIONS
5.1 STEEL FABRICATION SHALL BE DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED AS REQUIRED BY THE IBC TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
5.2 NO FIELD WELDING SHALL BE PERMITTED UNLESS NOTED OTHERWISE
5.3 THE FOLLOWING SPECIAL INSPECTIONS, WHERE APPLICABLE, SHALL BE REQUIRED PER CHAPTER 17 OF THE IBC:
- PERIODIC SPECIAL INSPECTION OF HIGH-STRENGTH BOLTING (IF APPLICABLE)
- SPECIAL INSPECTION OF FIELD WELDING (IF APPLICABLE)
- SPECIAL INSPECTION OF POST-INSTALLED ANCHORAGE TO CONCRETE OR MASONRY (IF APPLICABLE) PER PRODUCT ICC REPORT
5.3 NO STRUCTURAL OBSERVATION IS REQUIRED.

01

REV	DATE:	UPDATE NOTES	BY:
01	28 JUL 14		DMM

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BROOKINGS, SD 57006
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PROJ: INDIANA UNIVERSITY MEMORIAL STADIUM
TITLE: SHOP: RTX-1100-13HD-84x4620
DESIGN: MOLSEED | DRAWN: MOLSEED | DATE: 22 JUL 14
SCALE: 1/8" = 1'

SHEET	REV	JOB NO.	FUNC - TYPE - SIZE	
301	01	C22396	F - 10 - D	1183196

NOTICE TO BIDDERS

Revised per Addendum 1, dated 11/16/26

Notice is hereby given that electronic bids will be received:

By: The Trustees of Indiana University
Bloomington, Indiana

For: BL601 - MEMORIAL STADIUM - REPLACE NORTH FASCIA LED DISPLAY
Indiana University Bloomington
IU 20261143

At: Office of the Vice President for Capital Planning and Facilities

In accordance with Indiana Code 4-13-18 Drug Testing of Employees of Public Works Contractors and IC 5-16 Public Works

Via electronic bid submission on www.iuplanroom.com. Bidders must be registered on the plan room, and signed into the plan room, to submit a bid.

Bids will be electronically opened via Zoom: https://iu.zoom.us/j/82623978895
Meeting ID: 826 2397 8895
Join By Telephone: 312-626-6799

Until: 2:00 P.M. Eastern Time on December 2, 2026.

Bids received after that time will not be accepted. Bid results will be published on www.iuplanroom.com.

A Unified Bid is requested for all work in this project, including General, Mechanical, and Electrical Construction work.

See project specifications for electronic bid submission instructions.

All bid proposals shall be in full accord with the Bidding Documents, which are on file with the Owner and may be examined by prospective Bidders:

VPCPF Support Resources – Construction Procurement
Indiana University
bidtab@iu.edu
812-855-5294

Bidding documents will be available November 4, 2026. Please contact the Eastern Engineering Distribution Department, 9901 Allisonville Road, Fishers, Indiana 46038, Ph. 317-598-0661, www.iuplanroom.com for deposit and purchase information.

Each bid must be accompanied by:

- a completed Minority, Women's and Veteran's Business Enterprise Participation Plan, detailing the good faith efforts of the contractor to include minority, women and veteran-

owned enterprises as subcontractors or material suppliers on the Project;
- a bid security for 5% of the total bid; and
- the contractor's written drug testing program, which must be in full compliance with IC 4-13-18.

The Owner reserves the right to accept or reject any bid and to waive any irregularities in bidding. The Owner may consider the bid to be incomplete if it does not provide the required documentation as described in this Notice, including but not limited to the Minority, Women's and Veteran's Business Enterprise Participation Plan. The Base Bid may be held for a period not to exceed sixty days before awarding Contracts. All Alternate Bids may be held for a period not to exceed ninety days before award and incorporation into the contract by proper Change Directive.

Demolition of existing and installation of new fascia LED display can begin no earlier than May 10th, 2027, and must be completed by August 1st, 2027.

Should a successful Bidder withdraw his bid or fail to execute a satisfactory Contract within 10 days after notice of acceptance of bid, the Owner may declare the Bid Security forfeited as liquidated damages, not as penalty.

A **mandatory** pre-bid meeting is scheduled for 9:00am, Eastern Time, on November 20, 2026. **Prime bidders are required to attend**. All interested parties should assemble at the north entrance to Memorial Stadium, 701 E. 17th St., Bloomington, IN 47408. Indiana University Bloomington campus.

BL601 - MEMORIAL STADIUM - REPLACE NORTH FASCIA LED DISPLAY
Indiana University Bloomington
IU 20261143