

PROJECT LOCATION MAP

# RENOVATIONS FOR ESPORTS

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DEMOLITION DIOO DEMOLITION PLAN

ARCHITECTURAL AIOO BASE BID FLOOR PLAN AIOI ALTERNATE #I FLOOR PLAN



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ISU-T-512 TERMINATION / IDENTIFICATION

ISU-T-513 STATION OUTLET DETAILS





PLAN NOTES:

- () REMOVE EXISTING PAIR OF DOORS COMPLETE. FRAME TO REMAIN TURN OVER DOORS TO OWNER.
- 2 REMOVE EXISTING CARPETING COMPLETE. PREP FLOOR FOR NEW CARPETING.
- (3) REMOVE EXISTING WOOD LOUVER SLAT GRILL TO APPROXIMATELY 12' OF LENGTH. INFILL WALL AREA WITH FRAMING AND PLYWOOD FOR INSTALLATION OF SALVAGED WOOD BOARDS.
- (4) REMOVE EXISTING ROUGH SAWN WOOD BOARDS TO APPROXIMATELY 12' OF LENGTH. THIS WILL ONLY NEED TO OCCUR IF ALTERNATE # 3 IS ACCEPTED.
- 5 REMOVE EXISTING WOOD TRIM AND SISAL WALL COVERING COMPLETE. PREP WALL FOR NEW FINISHES.
- (6) REMOVE EXISTING DOOR HARDWARE AND SECURE TO FIXED CLOSED POSITION



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PLAN NOTES:

- (I) INSTALL A NEW 42" SOLID CORE WOOD DOOR IN FINISH TO MATCH EXISTING. SIZE DOOR HEIGHT AND HINGES TO MATCH WITH EXISTING METAL FRAME.
- (2) INSTALL A METAL FRAME MULLION SIDELIGHT TO EXISTING METAL FRAME.
- (3) INSTALL A 5 5/8" METAL STUD WALL TO 10'-0" WITH 5/8" DRYWALL. INSTALL WOOD BLOCKING WHERE NEW T.V.'S ARE TO BE MOUNTED. THIS SHALL BE BID AS ALTERNATE #3
- (4) CONSTRUCT A WOOD FRAMED PLATFORM AND RAMP WITH 3/4" PLYWOOD DECKING. INSTALL CARPETING OVER PLATFORM AND RAMP. RISER PLATFORM SIDES TO BE LAMINATED IN COLOR TO BE SELECTED.
- (5) INSTALL A METAL RAILING AND GUARD RAIL.
- (6) REMOVE EXISTING CARPETING COMPLETE. INSTALL NEW CARPET TILE FLOORING AS "MILLIKEN" "LOUDSPEAKER" COLOR: BLUE CHROMA # TWE 52 INSTALL 6" BLACK VINYL BASE ON DRYWALL WALLS ONLY.
- REMOVE EXISTING DOOR HARDWARE AND SECURE TO FIXED CLOSED POSITION
- (8) INSTALL SALVAGED ROUGH SAWN WOOD PLANKS TO MATCH WITH EXISTING WALL SIDING.
- (9) REMOVE EXISTING SISAL AND WOOD TRIM COMPLETE. PREP WALLS FOR NEW FINISHED AS REQUIRED.
- BASE BID FURNITURE LAYOUT.
- II REMOVE AND SALVAGE EXISTING ROUGH SAWN BOARDS THAT ARE WHERE THE METAL STUD WALL WILL BE CONSTRUCTED.
- 0 ISU TO PROVIDE T.V.'S AND T.V. MOUNTS. CONTRACTOR WILL INSTALL THE MOUNTS AND T.V'S AS PER PLAN LOCATIONS. FIELD VERIFY EXACT HEIGHTS OF T.V.'S WITH OWNER PRIOR TO INSTALLATION OF REQUIRED BLOCKING.



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PLAN NOTES:

- () INSTALL A NEW 42" SOLID CORE WOOD DOOR IN FINISH TO MATCH EXISTING. SIZE DOOR HEIGHT AND HINGES TO MATCH WITH EXISTING METAL FRAME.
- INSTALL A METAL FRAME MULLION SIDELIGHT TO EXISTING METAL FRAME.
- 3 INSTALL A 5 5/8" METAL STUD WALL TO IO'-O" WITH 5/8" DRYWALL. INSTALL WOOD BLOCKING WHERE NEW T.V.'S ARE TO BE MOUNTED. THIS SHALL BE BID AS ALTERNATE #3
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- 5 INSTALL A METAL RAILING AND GUARD RAIL.
- (6) REMOVE EXISTING CARPETING COMPLETE. INSTALL NEW CARPET TILE FLOORING AS "MILLIKEN" "LOUDSPEAKER" COLOR: BLUE CHROMA # TWE 52 INSTALL 6" BLACK VINYL BASE ON DRYWALL WALLS ONLY.
- REMOVE EXISTING DOOR HARDWARE AND SECURE TO FIXED CLOSED POSITION
- INSTALL SALVAGED ROUGH SAWN WOOD PLANKS TO MATCH WITH EXISTING WALL SIDING.
- (9) REMOVE EXISTING SISAL AND WOOD TRIM COMPLETE. PREP WALLS FOR NEW FINISHED AS REQUIRED.
- $\bigcirc$  Alternate furniture layout to be bid as part of ALTERNATE #1
- (||) REMOVE AND SALVAGE EXISTING ROUGH SAWN BOARDS THAT ARE WHERE THE METAL STUD WALL WILL BE CONSTRUCTED.
- 2 ISU TO PROVIDE T.V.'S AND T.V. MOUNTS. CONTRACTOR WILL INSTALL THE MOUNTS AND T.V'S AS PER PLAN LOCATIONS. FIELD VERIFY EXACT HEIGHTS OF T.V.'S WITH OWNER PRIOR TO INSTALLATION OF REQUIRED BLOCKING.

![](_page_3_Figure_16.jpeg)

![](_page_3_Figure_17.jpeg)

#### TYPICAL WIRING DESIGNATIONS

#### ABBREVIATIONS

AMPERE

KW KWH

LTG

MAG STR

MAN MAT

MATV

MAX

MC

MCA

MCB

MCC MCCB MCM MCP

MCS

AC	ALTERNATING CURRENT; ARMORED CABLE
ADJ	ADJUSTABLE
AF	AMPERE FLISE: AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALCR	AUTOMATIC LOAD CONTROL RELAY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASYM	ASYMMETRICAL
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AVG	AVERAGE
AWG	AMERICAN WIRE GUAGE
BATT	BATTERY
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT; CENTRIGRADE
C/C	CENTER TO CENTER
CD CCTV CD	CLOSED CIRCUIT TELEVISION
CFL CIRC	COMPACT FLUORESCENT CIRCUIT CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
COND	CONDUCTOR
CONT	CONTINUOUS; CONTINUED
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER; CUBIC
CU FT	CUBIC FOOT
CY	CUBIC YARD
DC DC DDC DF	DIRECT CURRENT DIRECT DIGITAL CONTROL DUAL FACE
DIA	DIAMETER
DIAG	DIAGONAL
DISC	DISCONNECT
DISTR	DISTRIBUTION
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DWG	DRAWING
DX	DIRECT EXPANSION
E	EAST; EXISTING
EA	EACH
EB EB EC EGC	ELECTRIC BASEBOARD RADIATION ELECTRICAL CONTRACTOR EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRICAL
ELEV	ELEVATOR; ELEVATION
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENG	ENGINE
EQUIP	EQUIPMENT
EST	ESTIMATED
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXP	EXPOSED
EXT	EXTERIOR
F	FUSED; FAHRENHEIT FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT-CANDLE
FD	FUSED DISCONNECT
FDR	FEEDER
FIN	FINISHED
FIXI	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FLOOK	FLEORESCENT
FM	FREQUENCY MODULATION; FACTORY MUTUAL
FT	FOOT; FEET
FURN	FURNISHED
FVNR	FULL VOLTAGE NON-REVERSING GROUND
GA	GUAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GRD	GROUND
GRS, GRC	GALVANIZED RIGID STEEL CONDUIT
HD	HEAVY DUTY; HIGH DEFINITION
HG	MERCURY
HOA	HAND-OFF-ALITOMATIC
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HRS/DAY	HOURS PER DAY
HT	HEIGHT
HV	HIGH VOLTAGE
HZ	HERTZ
IDF IEEE	INSTIDE DIAWELER INTERMEDIATE DISTRIBUTION FRAME INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IMP	IMPEDANCE
IN	INCH
INCAN	INCANDESCENT
INSUL	INSULATION; INSULATED
INT INV EL	
JB	JOULE; JUNCTION
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KHZ	KILOHERTZ
KK	KIRK KEY
KP	KEYPAD
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE

KILOVOLT AMPERE REACTIVE KILOWATT KILOWATT-HOUR LENGTH: LONG: LUMEN POUND; ELL CONDUIT BODY LIGHT EMITTING DIODE LINEAR FOOT LAMP LUMEN DEPRECIATION LOCK OUT LOCKED ROTOR AMPS

VO

LIGHT; LIQUID-TIGHT I IGHTING LOW VOLTAGE METER MILLIAMPERE MAGNETIC STARTER MANUAL

MATERIAL MASTER ANTENNA TELEVISION MAXIMUM METAL CLAD CABLE; MOTOR CONTROLLER MINIMUM CIRCUIT AMPS MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOLDED CASE CIRCUIT BREAKER THOUSAND CIRCULAR MILS

MOTOR CIRCUIT PROTECTOR MOTOR CIRCUIT SWITCH

F P D G G C C C C C C C C C C C C C C C C C	MAIN DISTRIBUTION FRAME MAIN DISTRIBUTION PANELBOARD MEDIUM MANUFACTURING MANUFACTURER MANHOLE; METAL HALIDE; MAN-HOUR MEGAHERTZ MINERAL INSULATED MICROPHONE MINIMUM; MINUTE MISCELLANEOUS MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION MOGUL MOUNTED MANUAL TRANSFER SWITCH MEGAVOLT; MEDIUM VOLTAGE MEGAVOLT AMPERES MEGAVOLT AMPERES REACTIVE MEGAWATT
C MA S	NEUTRAL NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCATION NON-FUSED NON-FUSED DISCONNECT NOT IN CONTRACT NIGHT LIGHT NON-METALLIC SHEATHED CABLE NUMBER; NORMALLY OPEN NOT TO SCALE
s sy	OVERHEAD AND PROFIT ON CENTER; OVERCURRENT OUTSIDE DIAMETER OVERHEAD OVERLOAD OUTSIDE SCREW AND YOKE OUNCE
) - G R	POLE; PULL PUBLIC ADDRESS PUSH BUTTON; PULL BOX PHOTOCELL PEDESTAL POWER FACTOR PHASE POST INDICATOR VALVE PILOT LIGHT PANEL PAIR PRIMARY POUNDS PER SQUARE FOOT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GUAGE POTENTIAL TRANSFORMER PER UNIT POLYVINYL CHLORIDE POWER
CEPT = R Q'D S A C S C C	RESISTANCE; RELOCATED RECEPTACLE REFERENCE REFRIGERATOR REQUIRED RIGID GALVANIZED STEEL RUNNING LOAD AMPS ROOM RIGID METALLIC CONDUIT ROOT MEAN SQUARE RIGID NON-METALLIC CONDUIT RAINTIGHT
CR HED R C D T R FT IN D R F D B D B D B D B D B D C R F T	SHORT-CIRCUIT CURRENT-RATING SCHEDULE SHORT CIRCUIT RATING SERVICE ENTRACE; SERVICE EQUIPMENT SECONDARY SOLID NEUTRAL SINGLE POLE SURGE PROTECTIVE DEVICE SINGLE POLE, DOUBLE THROW SPEAKER SINGLE POLE, SINGLE THROW SQUARE SQUARE FEET SQUARE FEET SQUARE FEET SQUARE INCH STAINLESS STEEL; SAFETY SWITCH START STOP SHUNT TRIP; STANDARD SURFACE SWITCH SWITCHING DUTY SWITCHBOARD SQUARE YARD SYMMETRICAL
E 3 3 3 3 3 5 5 5	TEMPERATURE; TRANFORMER TERMINAL BLOCK TIME CLOCK TEMPERATURE CONTROLS CONTRACTOR TEMPERATURE CONTROL PANEL TIME DELAY TELEPHONE TELECOMMUNICATIONS GROUNDING BUSBAR TOTAL HARMONIC DISTORTION; THREAD TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TELECOMMUNICATIONS OUTLET TAMPER RESISTANT TELEPHONE TERMAINAL BOARD TELEVISION TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL
= =IN D L	UNDER (CABINET OR COUNTER) UNDERGROUND FEEDER UNDERGROUND ULTRA HIGH FREQUENCY UNDERWRITERS LABORATORY UNFINISHED UNLESS NOTED OTHERWISE UTILITY UNSHIELDED TWISTED PAIR
R RT D = L	VOLT VOLT AMPERES VOLT AMPERES REACTIVE VERTICAL VARIABLE FREQUENCY DRIVE VERY HIGH FREQUENCY VOLUME
P	WIRE; WATT; WIDE WITH WIRELESS ACCESS POINT WIRE GUARD "WIREMOLD" (SURFACE RACEWAY) WEATHERPROOF WEIGHT; WATERTIGHT
MR ER	TRANSFORMER TRANSFER WYE DEGREE DELTA PHASE; DIAMETER POUND; NUMBER PERCENT AT APPROXIMATELY FEET INCHES
NOT SHEI DOC	ALL SYMBOLS ON THIS ET ARE USED IN THESE UMENTS.

![](_page_4_Picture_8.jpeg)

**TYPICAL DEVICE DESIGNATIONS** 

LIGHT FIXTURES

Э	CLOCK
Э	CLOCK
þ	BELL
	BUZZEF
Ð	THERM
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#### **GENERAL NOTES:**

1. COORDINATE LOCATIONS OF DEVICES TO BE INSTALLED IN CEILINGS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.

2. 120 VOLT CIRCUITS SHALL UTILIZE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS. DO NOT SHARE NEUTRALS.

3. CONTRACTOR SHALL COORDINATE WITH ALL TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR INCORRECT WORK, OR FOR INFRINGEMENT UPON OTHERS' WORK, DUE TO A LACK OF COORDINATION

4. DEVICES IN GENERAL SHALL BE CENTERED IN WALL SPACE IN WHICH THEY ARE INSTALLED OR THEY SHALL BE SPACED SYMMETRICALLY (FOR EXAMPLE, CENTER DEVICES WHEN MOUNTED ON FACE OF COLUMNS)

5. COORDINATE AND VERIFY LOCATIONS OF DEVICES WITH BLOCK COURSING, FINISH MATERIALS, CASEWORK, ETC. PRIOR TO ROUGH-IN.

6. RECEPTACLES CONNECTED TO EMERGENCY CIRCUITS SHALL BE RED COLOR.

7. WIRING SHALL BE MINIMUM #12 AWG IN 3/4" EMT CONDUIT UNLESS OTHERWISE NOTED OR REQUIRED. 8. LOW VOLTAGE PLENUM-RATED CABLING (FIRE ALARM, LIGHTING CONTROL, ETC.) SHALL BE CONCEALED ABOVE ACCESSIBLE CEILINGS. FOR CABLES BEING ROUTED THROUGH AREAS WITH EXPOSED STRUCTURE OR INACCESSIBLE CEILINGS, INSTALL CABLES IN MINIMUM 1-INCH CONDUITS. 9. REPLACE EXISTING BLANK COVERPLATES WITH NEW. FINISH/MATERIAL TO MATCH THOSE USED FOR NEW DEVICES.

10. DEVICE BOXES SHALL BE FLUSH MOUNTED AND RACEWAYS SHALL BE CONCEALED. 11. WHERE SURFACE DEVICE BOXES ARE PERMITTED, DO NOT USE PLASTER RINGS. USE EXPOSED WORK COVERS INTENDED FOR THE PURPOSE

12. WHERE SURFACE CONDUIT OR EMT IS PERMITTED, DO NOT USE CONDUIT HANGERS LESS THAN 8-FEET AFF. USE ONE- OR TWO-HOLE STRAPS SO THAT NO SHARP EDGES PROTRUDE FROM THE WALL.

13. EXISTING CONCEALED RACEWAYS AND DEVICE BOXES MAY BE REUSED IN PLACE IF DEEMED CODE COMPLIANT AND IN GOOD CONDITION. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION. 14. PROVIDE FLUSH BACK BOXES AND CONCEALED RACEWAYS FOR THERMOSTATS. SEE MECHANICAL DRAWINGS FOR LOCATIONS.

15. A MAXIMUM OF THREE SINGLE-PHASE CIRCUITS SHALL BE INSTALLED IN A SINGLE CONDUIT.

16. COORDINATE EXACT LOCATION OF FLOOR OUTLETS AND OUTLETS AT TV LOCATIONS AND SIMILAR LOCATIONS PRIOR TO ROUGH-IN. OUTLETS AT TV LOCATIONS SHALL BE INSTALLED IN A RECESSED WALL BOX. SEE T-SERIES DRAWINGS

17. COORDINATE WORK WITH TELECOMMUNICATIONS DRAWINGS AND SPECIFICATIONS. SEE T-SERIES DRAWINGS FOR PATHWAYS AND ELECTRICAL WORK.

18. PROVIDE FIRESTOPPING AT PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION. 19. DEVICES ON WALLS SHALL BE INDIVIDUALLY FED FROM ABOVE (I.E. DO NOT INSTALL RACEWAYS HORIZONTALLY IN WALL UNLESS APPROVED).

20. INSTALL ABOVE-CEILING RACEWAYS AT LEAST 7-INCHES ABOVE CEILING TO ALLOW FOR REMOVAL OF CEILING TILES AND LIGHTS.

#### **GENERAL NOTES - DEMOLITION:**

NOTED.

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK. THESE DRAWINGS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. SOME CONDITIONS MAY HAVE BEEN CONCEALED DURING FIELD SURVEYS.

2. DEVICES AND EQUIPMENT SHOWN DASHED AND WITH HEAVY LINE WEIGHT ON DEMOLITION DRAWINGS SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL WIRING TO SOURCE, UNLESS OTHERWISE

3. DISPOSAL OF DEMOLISHED MATERIALS SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

4. CONTRACTOR SHALL PROTECT EXISTING OWNER FACILITIES THAT ARE TO REMAIN DURING CONSTRUCTION. ANY FACILITIES DAMAGED OR DISCONNECTED BY CONTRACTOR SHALL BE IMMEDIATELY RESTORED TO PREVIOUS CONDITION.

5. OWNER SHALL HAVE "RIGHT OF FIRST REFUSAL" FOR DEMOLISHED ITEMS. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO BEGINNING WORK TO DETERMINE WHAT ITEMS THE OWNER MAY BE INTERESTED IN KEEPING. CONTRACTOR SHALL CAREFULLY REMOVE SUCH ITEMS AND DELIVER TO OWNER'S DESIGNATED STORAGE AREA. FOR ITEMS DEEMED OBSOLETE BY THE OWNER, CONTRACTOR SHALL IMMEDIATELY REMOVE SUCH ITEMS FROM THE PREMISES, UNLESS OTHERWISE

6. FOR MECHANICAL EQUIPMENT BEING REMOVED, REMOVE ASSOCIATED DISCONNECTS, CONTROLLERS, WIRING, ETC. COMPLETE. VERIFY WITH MECHANICAL CONTRACTOR.

7. FOR EQUIPMENT OR DEVICES BEING REMOVED FROM WALLS THAT WILL REMAIN, REMOVE EXISTING DEVICE BOX AND PATCH WALL, UNLESS OTHERWISE REQUIRED OR INSTRUCTED. FINISH CONDITION SHALL SHOW NO INDICATION OF PREVIOUS INSTALLATION.

8. PROVIDE ADEQUATE SUPPORT FOR EXISTING CABLING/RACEWAYS ABOVE CEILING AS REQUIRED. REMOVE OBSOLETE CABLING, WIRING, RACEWAYS, ETC.

9. REMOVE ASSOCIATED ELECTRICAL FOR ANY EXISTING EQUIPMENT BEING REMOVED BY ANY TRADE. REFER TO ALL DRAWINGS.

10. CONTRACTOR SHALL REMOVE EXISTING DEVICES ON WALLS BEING REMOVED, WHETHER DEVICES ARE SHOWN OR NOT, UNLESS OTHERWISE INSTRUCTED.

11. COORDINATE SCHEDULING OF DEMOLITION WORK WITH OWNER AND TRADES.

12. PATCH EXISTING HOLES THROUGH WALLS AND FLOORS WHERE EXISTING RACEWAYS OR CABLES ARE REMOVED

## Indianapolis, IN 46204 Phone: (317) 634-4672 Fax: (317) 638-8725 HESE DRAWINGS AND SPECIFICATIONS, AND ALL COPIES THEREOF ARE AND SHALL REMAIN THE PROPERTY AN COPYRIGHT OF THE ENGINEER. THEY SHALL BE USE ONLY WITH RESPECT TO THIS PROJECT AND ARE NOT 1 BE USED ON ANY OTHER PROJECT OR WORK WITHOU PRIOR WRITTEN PERMISSION FROM THE ENGINEE ERTIFIED BY: PE60910351 STATE OF **REVISIONS:** NO. DESCRIPTION DATE: ROJECT DESCRIPTION: RENOVATIONS FOR ESPORTS **JONES HALL** INDIANA STATE **UNIVERSITY**

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and Associates, Inc

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Consulting Engineers

## TERRE HAUTE INDIANA

(ISU Bid No. B0028353)

YPLAN

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![](_page_5_Picture_0.jpeg)

## **DEMOLITION LEGEND:**

EXISTING WORK TO BE REMOVED EXISTING WORK TO REMAIN

#### GENERAL NOTES

- 1. SEE DRAWING E001 FOR GENERAL NOTES.
- 2. IT IS BELIEVED THAT RECEPTACLES THAT ARE SHOWN TO BE REMOVED ARE FED FROM EXISTING PANEL '1L'. VERIFY.

## PLAN NOTES

- 1 EXISTING PANEL '1L' TO REMAIN.
- 2 REMOVE CABLING BACK TO EXISTING TELECOM RACK IN 5TH FLOOR TELECOM ROOM. REMOVE ANY SURFACE RACEWAY.
- (3) REMOVE TWO-COMPARTMENT SURFACE RACEWAY AND ALL ASSOCIATED DEVICES AND WIRING.
- 4 REMOVE EXIT LIGHT AND ALL WIRING AND RACEWAY.
- 5 REMOVE EXIT LIGHT AND PREPARE WIRING FOR REUSE.
- 6 DIMMER SWITCHES TO REMAIN.
- 7 FIRE ALARM DEVICES TO RELOCATED. SEE E211.
- 8 REMOVE BLANK COVER AND ANY ASSOCIATED WIRING.

![](_page_5_Picture_15.jpeg)

FIRST FLOOR PLAN -POWER/SYSTEMS DEMOLITION

![](_page_5_Picture_17.jpeg)

![](_page_6_Figure_0.jpeg)

WORK TO
BE INSTALLED

EXISTING WORK TO REMAIN

#### GENERAL NOTES

1. SEE DRAWING E001 FOR GENERAL NOTES.

#### PLAN NOTES

- 1 EXISTING DISTRIBUTION PANEL 'PF'. CONNECT NEW FEEDER TO EXISTING SPARE 100A-3P FUSIBLE SWITCH. PROVIDE 100A FUSES. VERIFY SWITCH OPERATION AND PROVIDE ROUTINE MAINTENANCE. 208Y/120V-3Ø-4W.
- 2 PROVIDE NEW 100A FEEDER TO NEW PANEL 'ES' LOCATED ON FIRST FLOOR. SEE E211. 4#3, 1#8G, 1-1/4"C. ROUTE ABOVE LAY-IN CEILING.
- (3) UP TO PANEL 'ES'.

![](_page_6_Picture_10.jpeg)

![](_page_6_Picture_11.jpeg)

![](_page_7_Picture_0.jpeg)

- WORK TO BE INSTALLED
- EXISTING WORK TO REMAIN

#### **GENERAL NOTES**

1. SEE DRAWING XXXX FOR GENERAL NOTES.

#### PLAN NOTES

1 EXISTING LIGHTING TO REMAIN. FED FROM EXISTING PANEL '1L'.

- 2 EXISTING DIMMERS TO REMAIN.
- (3) PROVIDE EXIT LIGHT (SEE SPECS) AND CONNECT TO EXISTING EMERGENCY CIRCUIT.
- 4 PROVIDE EXIT LIGHT (SEE SPECS) AND EXTEND EXISTING EMERGENCY CIRCUIT. REMOVE AND REPLACE EXISTING CEILING AS REQUIRED.
- 5 SEE T201 FOR SCOPE OF WORK FOR SECURITY CAMERAS AND WIRELESS ACCESS POINTS. (SHOWN HERE FOR REFERENCE OF LOCATION.)
- 6 TYPICAL EXISTING SPRINKLER HEAD TO REMAIN.
- (7) TYPICAL EXISTING HVAC DIFFUSER TO REMAIN.
- 8 TYPICAL EXISTING FIRE ALARM SYSTEM SMOKE DETECTOR TO REMAIN.
- 9 TYPICAL EXISTING WIRELESS ACCESS POINT TO REMAIN.

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![](_page_8_Picture_0.jpeg)

WORK TO BE INSTALLED			
EXISTING WORK TO REMAIN			

#### **GENERAL NOTES**

1. SEE DRAWING E001 FOR GENERAL NOTES.

#### PLAN NOTES

#### 1 EXISTING PANEL '1L'.

- 2 PROVIDE PANEL 'ES'. SEE E200 FOR FEEDER. PANEL SHALL BE 100 AMP, 208Y/120V-3Ø-4W WITH 100A-3P MAIN BREAKER, (30) 20A-1P BRANCH BREAKERS, INTEGRAL TVSS, 22 KAIC. BASE BID = SURFACE MOUNT; ALTERNATE BID (STUD WALL) = FLUSH MOUNT. VERIFY EXACT LOCATION OF PANEL WITH OWNER.
- (3) INSTALL SALVAGED FIRE ALARM DEVICES. EXTEND EXISTING WIRING. SEE ED211.
- (4) COORDINATE MOUNTING HEIGHT OF DEVICES AT TV LOCATION WITH OWNER.
- (5) PROVIDE 120V TO DOOR ACCESS CONTROL POWER SUPPLY.
- 6 PROVIDE 120V FOR FUTURE DOOR ACCESS CONTROL POWER SUPPLY.
- (7) PROVIDE (2) 120V CIRCUITS FOR FUTURE USE.
- 8 PROVIDE ONE QUAD RECEPTACLE AT STANDARD HEIGHT AND THE OTHER QUAD RECEPTACLE AT TV HEIGHT (COORDINATE MOUNTING HEIGHT WITH OWNER), BOTH ON THE SAME CIRCUIT THAT'S INDICATED.
- 9 NEW METAL STUD WALL WITH DRYWALL, AS SHOWN, SHALL BE PART OF AN ALTERNATE BID. AS PART OF THAT ALTERNATE, ALL ELECTRICAL COMPONENTS SHALL BE FLUSH MOUNTED WITH CONCEALED RACEWAYS AND BOXES. UNDER BASE BID, THE EXISTING WALL WILL BE LEFT EXPOSED. AS PART OF BASE BID, ALL ELECTRICAL COMPONENTS SHALL BE SURFACE MOUNTED.
- (10) PROVIDE A LEGRAND EVOLUTION 'EFB' SERIES FLOOR BOX IN THE RAISED PLATFORM. BOX SHALL HAVE BLACK COVER AND QUANTITY OF GANGS AS REQUIRED TO ACCOMMODATE ALL POWER, TELECOM, AND AV DEVICES AND WIRING. SEE T-SERIES DRAWINGS. PROVIDE TWO (2) DUPLEX RECEPTACLES. VERIFY EXACT LOCATION OF BOX WITH OWNER, FURNITURE, AND FRAMING.

FIRST FLOOR PLAN - POWER

SCALE: 1/4" = 1'-0

	D&A #24002				
	R.E. Dimond and Associates, Inc. Consulting Engineers 732 North Capitol Avenue Indianapolis, IN 46204 Phone: (317) 634-4672 Fax: (317) 638-8725				
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WORK TO BE INSTALLED

EXISTING WORK TO REMAIN

### GENERAL NOTES

1. ALL DUCTWORK SHOWN IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED. SHOWN FOR REFERENCE. VERIFY.

## PLAN NOTES

- 1 VERIFY PROPER OPERATION OF HOT DECK AND COLD DECK MOTORIZED DAMPERS AND ASSOCIATED CONTROLS. REPORT ANY ISSUES TO OWNER.
- 2 EXISTING 4x13 BRANCH DUCT PENETRATIONS UP THRU FLOOR SLAB TO REMAIN. CLEAN DUCT BACK TO DAMPERS.
- 3 EXISTING 4x12 BRANCH DUCT PENETRATIONS UP THRU FLOOR SLAB TO REMAIN. CLEAN DUCT BACK TO DAMPERS.
- (4) EXISTING 4x20 BRANCH DUCT PENETRATIONS UP THRU FLOOR SLAB TO REMAIN. CLEAN DUCT BACK TO DAMPERS.

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DRAWN BY: DW/VH SCALE: AS NOTED DATE: 4/5/2024 DATE: 4/5/2024 D.A. #240 SHEET DESCRIPTION: BASEMENT FLOOR PLAN -	DW DW
MECHANICAL Sheet number: M200	

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![](_page_10_Picture_0.jpeg)

WORK TO
BE INSTALLED

EXISTING WORK TO REMAIN

#### GENERAL NOTES

1. ALL DUCTWORK AND PIPING SHOWN IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED. SHOWN FOR REFERENCE. VERIFY.

#### PLAN NOTES

- 1 REMOVE EXISTING FLOOR MOUNTED BASEBOARD DIFFUSER. PREPARE FLOOR FOR NEW FLOOR COVERING. CLEAN DUCTWORK. SEE M200. PREPARE EXISTING DUCTWORK FROM BELOW TO RECEIVE NEW LINEAR BAR GRILLE.
- 2 EXISTING 4x13 BRANCH DUCT PENETRATIONS UP THRU FLOOR SLAB FROM BELOW TO REMAIN. CLEAN DUCT BACK TO DAMPERS IN BASEMENT. AFTER REMOVAL OF EXISTING BASEBOARD DIFFUSER, INVESTIGATE DUCT FOR RECEIVING A NEW LINEAR BAR GRILLE. MODIFY AS REQUIRED. GRILLE SHALL BE PRICE LBPH-25C SERIES, WITH 0° DEFLECTION BARS, PENCIL PROOF SPACING, HEAVY DUTY FLANGED BORDER, 4" - TYPE 1000 (VERIFY), 160 CFM, 28 NC. COORDINATE FASTENING IN FIELD. BLACK ANODIZED FINISH.
- 3 EXISTING 4x12 BRANCH DUCT PENETRATIONS UP THRU FLOOR SLAB FROM BELOW TO REMAIN. CLEAN DUCT BACK TO DAMPERS IN BASEMENT. AFTER REMOVAL OF EXISTING BASEBOARD DIFFUSER, INVESTIGATE DUCT FOR RECEIVING A NEW LINEAR BAR GRILLE. MODIFY AS REQUIRED. GRILLE SHALL BE PRICE LBPH-25C SERIES, WITH 0° DEFLECTION BARS, PENCIL PROOF SPACING, HEAVY DUTY FLANGED BORDER, 4" - TYPE 1000 (VERIFY), 160 CFM, 28 NC. COORDINATE FASTENING IN FIELD. BLACK ANODIZED FINISH.
- (4) EXISTING 4x20 BRANCH DUCT PENETRATIONS UP THRU FLOOR SLAB TO REMAIN. CLEAN DUCT BACK TO DAMPERS IN BASEMENT. AFTER REMOVAL OF EXISTING BASEBOARD DIFFUSER, INVESTIGATE DUCT FOR RECEIVING A NEW LINEAR BAR GRILLE. MODIFY AS REQUIRED. GRILLE SHALL BE PRICE LBPH-25C SERIES, WITH 0° DEFLECTION BARS, PENCIL PROOF SPACING, HEAVY DUTY FLANGED BORDER, 4" - TYPE 1000 (VERIFY), 160 CFM, 28 NC. COORDINATE FASTENING IN FIELD. BLACK ANODIZED FINISH.
- 5 REWORK EXISTING THERMOSTAT AS REQUIRED FOR NEW WALL CONSTRUCTION.
- 6 FOR THE ALTERNATE BID TO INSTALL A STUD WALL IN THIS AREA, EXTEND THE EXISTING DUCTWORK IN THE WALL CAVITY AND INSTALL THE GRILLE IN THE WALL JUST ABOVE THE BASEBOARD. WILL NEED TO COORDINATE WITH FIELD CONDITIONS AND FURNITURE. WILL REQUIRE SOME HORIZONTAL DUCTWORK.

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## FIRST FLOOR PLAN - MECHANICAL SCALE: 1/4" = 1'-0"

= 1'-0" PLAN NORTH

SYMBOL	DEFINITION														
ACC	Administrative Control Console	21 CAN	Campus Area Network	41	DVR Digital Video Recorder	61 IPX	Internet Packet Exchange	81 MODEM	Modulator/Demodulator	101	RFI Request For Information/ Radio Frequer	cy <i>121</i> RFI	Request For Information/ Radio Frequency	141 TAHC	To Above accessible Hallway Ceiling
ADA	Americans with Disabilities Act	22 CATV	Community Antenna Television	42	EC Electrical Contractor	62 ISDN	Integrated Services Digital Network	<i>82</i> ms	millisecond	102	RFP Request For Proposal	122 RFP	Request For Proposal	142 TB	Tera Byte
AFF	Above Finished Floor	23 CCITT	Consultative Committee for International	43	EF Entrance Facility	63 ISO	International Organization for Standardization	<i>83</i> MTBF	Mean Time Between Failures	103	RFQ Request For Quotation	123 RFQ	Request For Quotation	1 <i>43</i> TBB	Telecommunications BackBoard
AFG	Above Finished Grade	24 CCTV	Closed Circuit Television	44	EGP Exterior Gateway Protocol	64 ISP	Internet Service Provider	84 MPLS	Multi Protocol Label Switching	104	RFR RF Equipment Rack	124 RFR	RF Equipment Rack	1 <i>44</i> TCP	Transmission Control Protocol
AFSF	Above Finished Stage Floor	25 CDDI	Copper Distributed Data Interface	45	EIA Electronics Industries Association	65 LAN	Local Area Network	<i>85</i> OC	Optical Carrier	105	RIP Routing Information Protocol	125 RIP	Routing Information Protocol	145 TCP/IP	Transmission Control Protocol/Internet
AM	Amplitude Modulation	26 CH	Counter Height	46	EMI Electromagnetic Interface	66 LANE	LAN Emulation	<i>86</i> OFE	Owner Furnished Equipment	106	RMON Remote Monitor	126 RMON	Remote Monitor	146 TIA	Telecommunications Industries Associatio
ANSI	American National Standards Institute	27 CLEC	Competitive Local Exchange Carrier	47	ER Equipment Room	67 LASER	Light Amplification by Stimulated Emission of	<i>87</i> OFOI	Owner Furnished, Owner Installed	107	ROM Read Only Memory	127 ROM	Read Only Memory	147 TO	Telecommunications Outlet
ASME	American Society of Mechanical Engineers	28 CPE	Customer Premises Equipment	48	TSI European Telecommunications Standards	68 LAT	Local Area Transport	<i>88</i> OSI	Open Systems Interconnection	108	SBB Security system BackBoard	128 SBB	Security system BackBoard	148 TR	Telecommunications Room
ASTM	American Society of Testing Materials	29 CPU	Central Processing Unit	49	FB Floor Box	69 LATA	Local Access and Transport Area	<i>89</i> PAN	Personal Area Network	109	SC Sound Cabinet; screw cover	129 SC	Sound Cabinet; screw cover	149 UON	Unless Otherwise Noted
MTA	Asynchronous Transfer Mode	30 CSA	Canadian Standards Associations	50	CC Federal Communications Comission	70 LEC	Local Exchange Carrier	<i>90</i> PAR	Public Address Rack	110	SCR Security Equipment Rack	130 SCR	Security Equipment Rack	150 VCR	Video Cassette Recorder
AVR	Audio Visual Rack	31 CSMA/CA	Carrier-Sense Multiple Access with Collision	51	DDI Fiber Data Distributed Interface	71 LED	Light Emitting Diode	<i>91</i> PAY	Pay Telephone Location	111	SJB Speaker Junction Box	131 SJB	Speaker Junction Box	151 VolP	Voice over Internet Protocol
AWG	American Wire Gauge	32 CSMA/CE	) Carrier-Sense Multiple Access/Collision	52	GAN Global Area Network	72 LI	Local (AV) Input	<i>92</i> pps	Packets Per Second	112	SCJB Security Camera Junction Box	132 SCJB	Security Camera Junction Box	152 W	Wall Mounted Device
BFC	Below Finished Ceiling	33 CSU	Channel Service Unit	53	GB Giga Byte	73 LO	Local (AV) Output	<i>93</i> PRI	Primary Rate Interface	113	SMTP Simple Main Transfer Protocol	133 SMTP	Simple Main Transfer Protocol	153 WAN	Wide Area Network
BGP	Border (Boundary) Gateway Protocol	<i>34</i> CT	Communications Technology	54 (	b/s (Gbps) – Gigabits per second	74 MAC	Media Access Control	94 PSTN	Public Switched Telephone Network	114	SNA Systems Network Architecture	134 SNA	Systems Network Architecture	154 WAP	Wireless Access Point
BICSI	Building Industry Consulting Services	35 CTC	Communications Technology Contractor	55	GHz Gigahertz	75 MAN	Metropolitan Area Network	95 QoS	Quality of Service	115	SNMP Simple Network Management Protocol	135 SNMP	Simple Network Management Protocol	155 WG	Wire Guard
BIT	Binary digit	<i>36</i> db	Decibel	56	HC Horizontal Cross-connect	76 MB	Mega Bytes	96 RAID	Random Array of Inexpensive Disks	116	SONET Synchronous Optical Network	136 SONET	F Synchronous Optical Network		
BOM	Bill of Material	37 DSL	Digital Subscriber Line	57	IC Intermediate Cross-connect	77 Mb/s	Megabits per second	97 RAM	Random Access Memory	117	SP Service Provider (Also Local Service Pro	ider) <i>137</i> SP	Service Provider (Also Local Service Provider)		
BPS	Bits per second	38 DSU	Data Service Unit/Digital Service Unit	58	IDF Intermediate Distribution Frame (Replaced by	78 MC	Main Cross-connect	98 RBOC	Regional Bell Operating Company	118	SR Strike Release - Door	138 SR	Strike Release - Door		
BRI	Basic Rate Interface (ISDN)	39 DTE	Data Terminal Equipment	59	EEE Institute of Electrical and Electronics	79 MDF	Main Distribution Frame (Also see ER)	99 RF	Radio Frequency	119	SSR Sound System Rack	139 SSR	Sound System Rack		
CAD	Computer Aided Design	40 DTR	Data/Telecommunications Rack	60	IP Internet Protocol	80 MHz	Megahertz	100 RFC	Request For Comment	120	TAAC To Above Accessible Ceiling	140 TAAC	To Above Accessible Ceiling		

	СОММ	UNICATION TECHNO	DLOGY l	_EGEND	
SYMBOL	DESCRIPTION	ROUGH-IN	– SEE NOTE (2 Height	2) WIRE WAY	NOTES
	TELECC	MMUNICATIONS (VOICE,	DATA, ANI	D VIDEO)	
<b>₩</b>	VOICE OUTLET, WALL MOUNTED TELEPHONE	1-GANG BOX	* 48" AFF	1" CONDUIT TAAC	* MOUNTING HEIGHT SUBJECT TO ADA REQUIREMENTS WALL PHONE AND EMERGENCY CALL STATION
S EC	W = DENOTES WALL TELEPHONE USE. UON ONE 4 PR UTP. EC = EMERGENCY CALL STATION				ARE OWNER PROVIDED.
$\bigtriangledown^{\times}$	EQUIPMENT OUTLET X = DENOTES INTENDED USE: ELEV/ELEVATOR, FACP/FIRE ALARM CONTROL PANEL, BAS/BUILDING AUTOMATION SYSTEM (HVAC) UON TWO 4 PR UTP.	2-GANG BACK BOX, DEEP	COUNTER HEIGHT	1" CONDUIT TAAC	EQUIPMENT CONNECTION; COORDINATE LOCATION WITH ACCESS TO ELECTRICAL POWER OUTLET
$\triangleleft^{\times}$	DATA OUTLET X = DENOTES QUANTITY OF CABLES. MINIMUM 1-DATA CABLE. D = DATA CABLE	2-GANG BACK BOX, DEEP LI OPTION : 3-GANG BACK BOX, 3-1/2" DEEP	18" AFF	(2) 1" CONDUIT TAAC OR (1) 1 ¼" CONDUIT TAAC	WHEN "LI" SUBSCRIPT IS USED WITH THIS SYMBOL PROVIDE ALL ADDITIONAL CABLING AND CONNECTIVITY AS INDICATED ON DETAILS.
	WIRELESS ACCESS POINT WAP = DENOTES SPECIAL USE. MINIMUM 1 DATA CABLE WALL MOUNT: 2 DATA CABLES	1-GANG BACK BOX WHEN WALL MOUNTED CEILING MOUNTED LOCATIONS SHALL INCLUDE A CABLE SUPPORT ; DISCREET CABLES TO ATTACH DIRECTLY TO DEVICE WHEN INSTALLED	SEE NOTES	3/4" CONDUIT TAAC	WALL MOUNTED VERSIONS OF THIS DEVICE SHALL BE INSTALLED 84" AFF OR 6" BELOW FINISHED CEILING, WHICHEVER IS HIGHER. PROVIDE 1 WAP PER EACH 25 USERS.
$\triangleleft^{\times}$	SPECIAL SUBSCRIPT DEFINITIONS IN ADDITION TO BASIC SYMBOL REQUIREMENTS: B = BLANK COVER PLATE. NO CONNECTORS OR CABLES LI = LOCAL AV INPUT OPTION (SEE SPECS AND DETAILS) LO = LOCAL OUTPUT; SPECIFIC LOCATION FOR TERMINATION OF LI CABLES (SEE SPECS AND DETAILS) FO = ADD ONE PAIR OF 50/125 MM FIBER OPTIC CABLE (SEE SPECS AND DETAILS)	2-GANG BACK BOX, DEEP LI OPTION : 3-GANG BACK BOX, 3-1/2" DEEP	18" AFF	<ul> <li>(2) 1" CONDUIT TAAC</li> <li>OR (1) 1 ¼" CONDUIT TAAC</li> <li>LI OPTION</li> <li>: (3) 1" CONDUITS</li> <li>TAAC</li> </ul>	WHEN "LI" SUBSCRIPT IS USED WITH THIS SYMBOL PROVIDE ALL ADDITIONAL CABLING AND CONNECTIVITY AS INDICATED ON DETAILS.
TV	TELEVISION OUTLET – WALL MOUNTED PROVIDE (1) DATA CABLE CABLE. LO = SPECIAL LOCAL AV OUTPUT OPTION. SEE SPECS AND DETAILS.	2-GANG BACK BOX, DEEP LO OPTION : 3-GANG DEVICE BOX, 3-1/2" DEEP	84" AFF	(2) 1" CONDUIT TAAC OR (1) 1 ¼" CONDUIT TAAC LI OPTION : (3) 1" CONDUITS	COORDINATE LOCATION OF THIS DEVICE WITH AC POWER. PROVIDE AC POWER RECEPTACLE ADJACENT EACH OF THESE DEVICES.
+ TV	TELEVISION OUTLET CEILING HUNG PROVIDE (1) DATA CABLE CABLE. LO = SPECIAL LOCAL AV OUTPUT OPTION. SEE SPECS AND DETAILS.	ABOVE CEILING CABLE SUPPORT; DISCREET CABLES TO PASS THROUGH MOUNTING STEM TO ATTACH DIRECTLY TO DEVICE WHEN INSTALLED	84" AFF		COORDINATE LOCATION OF THIS DEVICE WITH AC POWER. PROVIDE AC POWER RECEPTACLE ADJACENT T EACH OF THESE DEVICES.
+ VP⊄	VIDEO PROJECTOR LOCATION – CEILING MOUNTED PROVIDE (1) DATA CABLE CABLE MINIMUM UON. LO = SPECIAL LOCAL AV OUTPUT OPTION. SEE SPECS AND DETAILS.	ABOVE CEILING CABLE SUPPORT; DISCREET CABLES TO PASS THROUGH MOUNTING STEM TO ATTACH DIRECTLY TO DEVICE WHEN INSTALLED	84" AFF		COORDINATE LOCATION OF THIS DEVICE WITH AC POWER. PROVIDE AC POWER RECEPTACLE ADJACENT T EACH OF THESE DEVICES.
VPQ	VIDEO PROJECTOR LOCATION – OUTLET (PORTABLE USE) PROVIDE (1) DATA CABLE CABLE MINIMUM UON. LO = SPECIAL LOCAL AV OUTPUT OPTION. SEE SPECS AND DETAILS	2-GANG BACK BOX, DEEP LO OPTION : 3-GANG DEVICE BOX, 3-1/2" DEEP	84" AFF	(2) 1" CONDUIT TAAC OR (1) 1 ¼" CONDUIT TAAC LI OPTION : (3) 1" CONDUITS	COORDINATE LOCATION OF THIS DEVICE WITH AC POWER. PROVIDE AC POWER RECEPTACLE ADJACENT T EACH OF THESE DEVICES.
CERINE MID ZONE ENCLOSURE	TELECOMMUNICATIONS ACTIVE CEILING ENCLOSURE PROVIDE (1) DATA CABLE CABLE MINIMUM UON. LO = SPECIAL LOCAL AV OUTPUT OPTION. SEE SPECS AND DETAILS	SEE SPECIFICATIONS; MOUNTS IN 2' X 2' ACCESSIBLE CEILING TILE GRID	84" AFF		COORDINATE LOCATION OF THIS DEVICE WITH AC POWER. PROVIDE AC POWER RECEPTACLE ADJACENT T EACH OF THESE DEVICES.
CEILING MID ZONE ENCLOSURE	SPECIAL USE (VP, WAP, ETC.) ACTIVE CEILING ENCLOSURE	SEE SPECIFICATIONS; MOUNTS IN 2' X 2' ACCESSIBLE CEILING TILE GRID	84" AFF		COORDINATE LOCATION OF THIS DEVICE WITH AC POWER. PROVIDE AC POWER RECEPTACLE ADJACENT T
	= SPECIAL LOCAL AV OUTPUT OPTION. SEE SPECS AND DETAILS. TELE-POWER POLE	SEE NOTES	COORDINATE FOR POWER CONNECTION	SEE NOTES	EACH OF THESE DEVICES.
$\square^{\sim}$	X = DENOTES QUANTITY OF CABLE.		WITH E.C.		
	CONNECTION TO SYSTEM FURNITURE - WALL	MULTI-GANG BACK BOX, MINIMUM 2-1/2" DEEP WITH FURNITURE WHIP ASSEMBLY	18" AFF COORDINATE WITH FURNITURE / CASEWORK	PROPERLY SIZED FOR QUANTITY OF CABLES DESIRED (40% FILL)	PROVIDE FURNITURE WHIP ASSEMBLY TO THE SYSTEM FURNITURE. COORDINATE WITH FURNITURE SYSTEM.
	CONNECTION TO SYSTEM FURNITURE - FLOOR	SEE SPECIFICATIONS AND DETAILS FOR FLOOR BOX TYPE WITH FURNITURE WHIP ASSEMBLY		PROPERLY SIZED FOR QUANTITY OF CABLES DESIRED (40%	PROVIDE FURNITURE WHIP ASSEMBLY TO THE SYSTEM FURNITURE. COORDINATE WITH FURNITURE SYSTEM.
FBX	FLOOR BOX, MULTI-FUNCTION COMMUNICATIONS BOX X = BOX TYPE	SEE DETAILS FOR ADDITIONAL REQUIREMENTS	FLUSH IN FINISHED FLOOR	(3) 1–1/4" CONDUIT AND (2) 3/4" CONDUIT TAAC	
	FLOOR OUTLET – POKE THROUGH X = denotes quantity of cables.	SEE SPECS AND DETAILS			
		SECURITY			1
DS	DOOR STATUS CONTACT(S) CONCEALED MAGNETIC TYPE ALL DOOR CONTACT SWITCHES SHALL BE DPDT	N/A	TOP OF DOOR FRAME	3/4" CONDUIT TAAC	PROVIDE TWO INDEPENDENT CONTACTS ON DOUBLE DOORS. ADJACENT DOORS MAY SHARE THE SAME
	UNLESS OTHERWISE NOTED PROXIMITY READER	1−GANG BOX, 3 ½" DEEP	48" AFF	1" CONDUIT TAAC	ROUGH-IN IF CONSTRUCTION ALLOWS.
	ACCESS CONTROL SYSTEM, DOOR RELEASE SWITCH	1-GANG BOX	48" AFF	3/4" CONDUIT TAAC	
	ACCESS CONTROL SYSTEM, DOOR ENTRY KEYPAD	1−GANG BOX, 3 ½" DEEP	48" AFF	1" CONDUIT TAAC	
KP]	PANIC (DURESS) SWITCH/STATION	1-GANG DEVICE BOX	48" AFF	3/4" CONDUIT TAAC	
PS	DOOR LOCK ELECTRIC SHEAR TYPE	AS REQUIRED BY LOCK	TOP OF DOOR	3/4" CONDUIT TAAC	
			FRAME		
	ACCESS CONTROL SYSTEM, ELECTRIC DOOR LOCK/STRIKE	N/A	FRAME	3/4" CONDUIT TAAC	
C	SURVEILLANCE CAMERA SEE NOTE	2−GANG BOX, 3 ½" DEEP	10' EXTERIOR AFF	1" CONDUIT TAAC	COORDINATE ROUGH-IN WITH CAMERA SUPPLIER
CV	CAMERA, COVERT	1-GANG DEVICE BOX	CEILING MOUNT	3/4" CONDUIT TAAC	COORDINATE ROUGH-IN WITH CAMERA SUPPLIER
СМ	MICROPHONE, COVERT	1-GANG DEVICE BOX	48" AFF	3/4" CONDUIT TAAC	COORDINATE ROUGH-IN WITH MICROPHONE SUPPLIER
	SEE NOTE CONTROL STATION	1−GANG BOX, 3 ½" DEEP	48" AFF	3/4" CONDUIT TAAC	
2	MOTION SENSOR	1-GANG BOX	96" AFF UON	3/4" CONDUIT TAAC	
$\triangleleft$					
* Al ** V *** Det Wh Sou	LL 1-Gang and 2-Gang Boxes reference in this legend shall be ass Where a mounting height measurement is applied to a rough-in, the A Triangle symbol without a subscript designation shall have at lea ail Sheet for cabling requirements. ere a telecommunications outlet location is adjacent to an electrica and Devices, faceplates shall be coordinated to the same type and	embled from 4 11/16th" square boxes with sep e measurement shall be referenced to the cent ist the minimum quantities of cable(s); Soild – I outlet, the mounting height will be the same f color and mounted at the same height.	barate trim rings. E er of the rough-in d one voice, Hollow - or each. Where mu	Depth of composite assembly levice, UON. - one data, and Combination ultiple Telecommunications a	shall be as indicated. – one voice and one data cable. See Faceplate re adjacent (such as Telecommunications and
со	NDUIT RUNS SHALL HAVE NO MORE THAN 180 DEGREES O	F BENDS WITHOUT AN ADEQUATE PULL E	OX.		

	DR.	AWING LABEL	ING
DRAWING PREFIX			
	Т	TECHNOLOGY	
DRAWING TYPE			
	0	LEGEND/INDEX	
	1	FLOORPLANS	
	2	ELEVATIONS	
	3	SECTIONALS	
	4	ENLARGED FLO	ORPLANS
	5	DETAILS	
	6	DIAGRAMS	
DISCIPLINE ID			
	0	COMMUNICATIO	NS .
	1	STRUCTURED C/	ABLING
	2	DATA SYSTEMS	
	3	TELEPHONE SY:	STEM
	4	A/V SYSTEMS	
	5	DISTRIBUTED CO	MMUNICATION
SEQUENCE #			
	0	RESERVED	
	1-9	FIRST-NINTH	
	A-Z	10-36	

-DRAWING PREFIX -DRAWING TYPE /DISCIPLINE ID SEQUENCE #

T501DRAWING IDENTIFICATION IS INTENDED TO PROVIDE AN ORDERLY FORMAT TO DELIVER PROJECT INFORMATION

A MAJORITY OF DRAWINGS CONTAIN INFORMATION THAT IS REQUIRED OR WILL BE BENEFICIAL TO MULTIPLE DISCIPLINES AND/OR CONTRACTORS. LIKEWISE, EACH SPECIFICATION SECTION MAY REQUIRE INFORMATION ON MULTIPLE DRAWINGS TO COMPLETE THE SYSTEM(S).

A DRAWING IDENTIFICATION cale = NONE

#### MISCELLANEOUS

10100	
SYMBOL	DESCRIPTION
	JUNCTION BOX – WALL MOUNTED
J	FLUSH MOUNTED IN FINISHED AREAS.
	JUNCTION BOX – CEILING MOUNTED
J	LOCATED ABOVE ACCESSIBLE CEILING, OR HIGH TO STRUCTURE IN UNFINISHED AREAS
	PULL BOX – WALL MOUNTED
Р	FLUSH MOUNTED IN FINISHED AREAS.
	PULL BOX - CEILING MOUNTED
P	LOCATED ABOVE ACCESSIBLE CEILING, OR HIGH TO STRUCTURE IN UNFINISHED AREAS. NO SPLICES/CABLE CONNECTIONS PERMITTED IN THIS BOX.
	DEVICE LOCATION MODIFIER
•	PROVIDES CLARIFICATION AS TO THE INTENDED LOCATION OF A DEVICE. GENERALLY USED WHEN DEVICES ARE TO LOCATED IN CLOSE PROXIMITY HORIZONTALLY, OR ARRAYED VERTICALLY, BUT DRAWING SCALE DOES NOT ALLOW THIS TO BE SHOWN WITH VISUAL CLARITY.
	LOCATION LABEL
< <u>xxxx</u> >	AN ABBREVIATION USED TO UNIQUELY A LOCATION ON A DRAWING. SPECIFICATIONS, SYSTEM DRAWING AND DETAILS REFER TO THIS LOCATION. ID TEXT VARIES.
	DEVICE ID LABEL
(XXXX)	USED TO UNIQUELY IDENTIFY A DEVICE ON A DRAWING. OFTEN USED TO ASSOCIATE THE INSTALLED LOCATION OF A DEVICE (AS DEPICTED ON A PLAN DRAWING) WITH ADDITIONAL INFORMATION ABOUT THE DEVICE AS INDICATED ON THE COMMUNICATION TECHNOLOGY SYSTEM, DETAIL AND ELEVATION DRAWING. ID TEXT VARIES.
	ROUTING DESTINATION IDENTIFIERS
	IDENTIFIES THE DEVICE/LOCATION TO THE WIRE WAY AND CABLING SHALL BE ROUTED. PROVIDE CONDUIT AND CABLING AS LISTED AND AS SPECIFIED.
	CONDUIT SLEEVE
	2" DIAMETER UNLESS OTHERWISE NOTED; PROVIDE FIRE STOPPING; ROUTE FROM ACCESSIBLE CEILING TO ACCESSIBLE CEILING
	CONDUIT STUB UP INTO ACCESSIBLE CEILING
	QUANTITY AND SIZE OF CONDUIT PER LEGEND; AS SPECIFIED; AS NOTED.
	CONDUIT(S) BENEATH FINISHED FLOOR
$\square$	QUANTITY AND SIZE OF CONDUIT AS NOTED AND AS LISTED AND AS SPECIFIED

#### GENERAL NOTES:

- REQUIREMENT SHALL APPLY UNLESS OTHERWISE CLARIFIED IN WRITING PRIOR TO BID. 3) EACH CONTRACTOR SHALL VERIFY IN THE FIELD ALL EXISTING APPLICABLE CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS
- REQUIREMENT. 4) EACH CONTRACTOR SHALL REVIEW ALL PORTIONS OF HIS WORK, BEFORE STARTING THE WORK, TO VERIFY THAT THE WORK WILL REFERRED TO THE DESIGNER FOR RESOLUTION.
- AS REQUIRED.
- PROCUREMENT AND INSTALLATION.
- SPECIFICATIONS AND DRAWINGS FOR REQUIREMENTS.
- ADDRESSED PRIOR TO THE CONTRACTOR'S BID SUBMISSION.
- COMPLY WITH THIS REQUIREMENT. NUMBERS SHALL NOT CHANGE.

# PLENUM.

1) NOTHING SET FORTH IN THESE DRAWINGS SHALL RELEASE ANY CONTRACTOR FROM HIS RESPONSIBILITY TO PROVIDE APPROPRIATE QUANTITIES, FIELD MEASUREMENTS, DIMENSIONAL STABILITY, INSTALLATION, ANCHORAGE, AND COORDINATION WITH OTHER TRADES; OR RELEASE HIM FROM HIS RESPONSIBILITY TO IDENTIFY AND RESOLVE DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, OR FREE HIM OF HIS RESPONSIBILITY TO ALERT DESIGNER TO ERRORS OR OMISSIONS. 2) CONTRACTOR SHALL USE THESE DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS TO DETERMINE THE FULL SCOPE, INTENT AND REQUIREMENTS OF THE PROJECT. SPECIFICATIONS AND DRAWINGS ARE INTENDED TO BE COMPLEMENTARY, NOT MUTUALLY EXCLUSIVE. WORK SHOWN ON THE DRAWINGS BUT NOT LISTED IN THE SPECIFICATIONS, AND WORK DESCRIBED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS SHALL BE INTERPRETED AS THOUGH WORK WERE FULLY DESCRIBED IN BOTH PLACES. THE HIGHER QUANTITY, HIGHER QUALITY, MORE LABOR INTENSIVE AND OVERALL MORE STRINGENT AND MORE COSTLY

AND AS PERTINENT TO THE INTENT OF THESE DRAWINGS. ANY DISCREPANCY DISCOVERED SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER PRIOR TO THE COMMENCEMENT OF ANY WORK AFFECTED BY, OR RELATED TO, SUCH DISCREPANCY. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH, OR CAUSED BY HIS FAILURE TO COMPLY WITH THIS

NOT PROHIBIT COMPLETION OF THE PROJECT AS INTENDED IN THESE CONSTRUCTION DOCUMENTS. ALL QUESTIONS SHALL BE

5) EACH CONTRACTOR SHALL BE RESPONSIBLE FOR JOB CLEANLINESS. PROJECT AREAS SHALL BE THOROUGHLY CLEANED AND TRASH DISPOSED OF AT THE END OF EACH WORK DAY. OWNER'S FACILITIES SHALL NOT BE USED FOR WASTE DISPOSAL. 6) PROVIDE DUST PROTECTION WHEN WORKING IN EXISTING FACILITIES. SEAL OFF ALL WORK AREAS FROM REMAINDER OF THE EXISTING FACILITY TO RETAIN ALL CONSTRUCTION DIRT AND DUST. SEAL EXISTING DOORS WITH TAPE AND PROVIDE DUST-PROOF BARRIERS

7) ALL WORK SHALL BE SEQUENCED TO PROVIDE FOR THE OWNER'S CONTINUED USE OF THE EXISTING FACILITY WHEN REQUIRED. OWNER'S ACCESS, EGRESS AND SAFETY SHALL BE MAINTAINED BY EACH CONTRACTOR. THE SEQUENCE OF WORK SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER. REFER TO THE PROJECT MANUAL FOR FURTHER REQUIREMENTS. 8) EACH CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL SURFACES AND FINISHES IN THE INTERIOR OR EXTERIOR OF THE FACILITY. DAMAGED SURFACES OR FINISHES RESULTING FROM THE PERFORMANCE OF THE WORK OR NEGLIGENCE SHALL BE REPAIRED AT NO COST TO THE OWNER BY THE RESPONSIBLE CONTRACTOR. FINISHES AND SURFACES SHALL BE MADE TO MATCH THE EXISTING FINISHES OR SURFACES TO THE SATISFACTION OF THE OWNER AND ARCHITECT/CONSTRUCTION MANAGER. 9) EACH CONTRACTOR SHALL COORDINATE HIS RESPECTIVE CUTTING AND PATCHING WORK WITH THE CONSTRUCTION MANAGER. 10) COLORS OF CABLING USED FOR ALL COMMUNICATIONS TECHNOLOGY WORK SHALL BE REVIEWED AND APPROVED PRIOR TO

11) ALL LADDER RACK AND OTHER COMMUNICATION TECHNOLOGY CABLING PATHWAYS DEPICTED ON THE ENLARGED FLOOR PLANS AND OTHERWISE NECESSARY FOR PROFESSIONAL WIRE MANAGEMENT WITHIN THE MAIN EQUIPMENT ROOM (ER) AND ALL TELECOMMUNICATION ROOMS (TR) SHALL BE PROVIDED BY THE COMMUNICATIONS TECHNOLOGY CONTRACTOR. SEE DIVISION 27

12) THE DIVISION 27 CONTRACTOR SHALL THOROUGHLY REVIEW THE SPECIFIED ROUGH -IN TO ENSURE THAT SUPPLIED ROUGH-IN WILL SUPPORT THE CABLING AND DEVICES BEING SUPPLIED. DIVISION 27 CONTRACTOR SHALL THOROUGHLY COORDINATE WITH THE DIVISION 26 ROUGH-IN PROVIDER PRIOR TO ROUGH-IN MATERIAL ACQUISITION AND INSTALLATION. 13) CABLE TRAY SHOWN ON THE 1/8" SCALE FLOORPLAN DRAWINGS SHALL BE FURNISHED BY THE DIVISION 26 CONTRACTOR. 14) CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TELEPHONE, DATA, CENTRAL SOUND, SECURITY CCTV AND ALARM SYSTEM SERVICES IN ALL EXISTING AREAS FOR DURATION OF PROJECT FOR MULTI-PHASED PROJECTS. CONTRACTOR SHALL COLLABORATE WITH OWNER'S TECHNOLOGY PERSONNEL AS NECESSARY AND PROVIDE TEMPORARY WIRING, CROSS-CONNECTS, TERMINATION DEVICES, AND LABOR TO MAINTAIN OPERATION ACCEPTABLE TO THE OWNER. CONTRACTOR SHALL REFER TO THE FRONT END DOCUMENTS OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION RELATED TO PHASING. ALL PHASING QUESTIONS SHALL BE

15) EACH CONTRACTOR SHALL FIELD VERIFY ALL EXISTING APPLICABLE CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS. AS PERTAINS TO THE INTENT OF THESE DRAWINGS, CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT AND DESIGNER ANY DISCREPANCIES DISCOVERED PRIOR TO THE COMMENCEMENT OF ANY WORK AFFECTED BY OR RELATED TO SUCH DISCREPANCY. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH OR CAUSED BY THAT CONTRACTOR'S FAILURE TO

16) EVERY SPACE INCLUDING HALLWAYS, RESTROOMS, CLOSETS, STAIRWELLS, ETC SHALL HAVE A UNIQUE ROOM IDENTIFIER. FINAL ROOM NUMBERS SHALL BE CONFIRMED WITH OWNER BEFORE CONSTRUCTION DOCUMENTS ARE ISSUED. ONCE CONSTRUCTION BEGINS ROOM

GENERAL CABLING NOTES:

1) PLENUM CABLE REQUIRED. ALL PROVIDED CABLE THAT WILL NOT BE INSTALLED IN A FULLY ENCLOSED CONDUIT SYSTEM SHALL BE RATED FOR INSTALLATION WITHIN A RETURN AIR 2) ALL INSTALLED CABLING SHALL BE CONTINUOUS AND WITHOUT SPLICES, EXCEPT WHERE OTHERWISE NOTE.

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RENOVATIONS FOR ESPORTS JONES HALL	INDIANA STATE UNIVERSITY	TERRE HAUTE, INDIANA	(ISU Bid No. B0028353)
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MARK DATE	DESC	RIPTION	
DRAWN BY: CHECKED BY: DWG FILE: COPYRIGHT 201	1		
Keyplan			

![](_page_12_Figure_0.jpeg)

#### **GENERAL ROUGH-IN NOTES:**

WHERE CONDUIT IS SHOWN AND/OR SPECIFIED, CONTRACTOR SHALL PROVIDE ALL PULL BOXES SHOWN, PLUS ADDITIONAL PULL BOXES AS FOLLOWS: A) EVERY 180 DEGREES OF CONDUIT BEND;

EVERY 100 FEET OF CONDUIT PATH. 2) PULL BOXES AND JUNCTION BOXES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. ALL ROUGH-IN REQUIREMENTS, INCLUDING BUT NOT LIMITED TO MOUNTING HEIGHTS, BACK BOX SIZES, AND CONDUIT PATHS, AS THEY MAY BE INDICATED ON PLANS, DETAILS AND ELEVATIONS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED ON THE LEGEND. QUANTITIES AND SIZES OF CONDUITS ARE PER LEGEND UNLESS EXPRESSLY LISTED ON THE

4) THE DIVISION 26 ELECTRICAL CONTRACTOR SHALL PROVIDE CABLING PATHWAYS AND ROUGH-IN IDENTIFIED ON THE PLANS AND TELECOMMUNICATIONS LEGEND TO SUPPORT COMMUNICATION TECHNOLOGY WORK, UNLESS NOTED OTHERWISE. ALL OTHER PATHWAYS REQUIRED TO SUPPORT DIVISION 27 CABLING THAT IS NOT CLEARLY IDENTIFIED OR CLEARLY TO BE PROVIDED BY OTHERS SHALL BE PROVIDED BY THE DIVISION 27 CONTRACTOR. ROUGH-IN PROVIDER SHALL COORDINATE CLOSELY WITH THE DEVICE AND CABLE PROVIDER(S), PRIOR TO INSTALLATION, TO BE CERTAIN THAT THE TYPE AND LOCATION OF ALL ROUGH-IN AND PATHWAY PROVISIONS ARE COORDINATED AND WILL ADEQUATELY SUPPORT THE SYSTEMS AS THEY ARE TO BE INSTALLED. ANY COSTS INCURRED RESULTING FROM A FAILURE TO ADEQUATELY COORDINATE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ALL 1-GANG AND 2-GANG BOXES REFERENCED ON THE LEGEND SHALL BE ASSEMBLED FROM 4 11/16TH" SQUARE BOXES WITH SEPARATE TRIM RINGS. DEPTH OF COMPOSITE ASSEMBLY SHALL BE AS INDICATED. PROVIDE COVER PLATES FOR ALL DEVICE, JUNCTION AND PULL BOXES. COORDINATE

MATERIAL AND FINISH OF ALL BLANK PLATES TO MATCH SURROUNDING PLATES. WHERE DEVICE CONDUITS ARE SPECIFIED "TAAC" (TO ABOVE ACCESSIBLE CEILING) THIS SHALL IMPLY THAT CONDUITS SHALL BE STUBBED OUT INTO AN ACCESSIBLE CONCEALED CEILING CAVITY PROVIDE PULL STRINGS INSTALLED IN ALL CONDUITS INCLUDING THOSE PROVIDED FOR

IMMEDIATE AND FUTURE USE. WHERE A MOUNTING HEIGHT MEASUREMENT IS APPLIED TO A ROUGH-IN, THE MEASUREMENT SHALL BE REFERENCED TO THE CENTER OF THE ROUGH-IN DEVICE.

13) EXPOSED CONDUIT SHALL NOT BE PERMITTED IN FINISHED AREAS. SURFACE MOUNT BACK BOXES AND MATCHING RACEWAY SHALL BE USED FOR

COMMUNICATION TECHNOLOGY DEVICES THAT ARE NOT INSTALLED WITHIN A WALL OR 15) WHERE SPECIFICATIONS AND/OR DRAWINGS INDICATE THE USE OF SURFACE RACEWAY AND

BOXES IN LIEU OF RECESSED ROUGH-IN, THE BOX SIZE AND USABLE RACEWAY CABLE AREA SHALL SUBSTANTIALLY MATCH THAT OF THE DEFAULT STANDARD ROUGH-IN. IN SOME CIRCUMSTANCES THIS MAY REQUIRE THE CONTRACTOR TO PROCURE MATERIALS ONLY AVAILABLE BY SPECIAL ORDER FROM THE MANUFACTURERS. 16) ROUGH-IN PROVIDER SHALL PROVIDE ALL WALL/FLOOR PENETRATIONS AND FIRE STOPPING

REQUIRED FOR COMMUNICATIONS TECHNOLOGY CABLING THAT MUST TRANSITION FROM SURFACE RACEWAY TO ACCESSIBLE CEILING CAVITIES. 17) ALL CONDUIT PROVIDED FOR COMMUNICATION TECHNOLOGY USE SHALL BE PROVIDED WITH NYLON END-BUSHINGS. BUSHINGS SHALL BE INSTALLED AT EACH END OF THE CONDUIT; AT EACH PULL/JUNCTION/DEVICE BOX; ON CONDUIT STUBS; AT EACH LOCATION WHERE

PULLING CABLE THROUGH THE CONDUIT MAY CAUSE THE CABLE TO RUB AGAINST THE END OF A CONDUIT OR ITS END FITTING. DEVICES TO BE INSTALLED AT CASEWORK LOCATIONS SHALL BE CLOSELY COORDINATED WITH THE CASEWORK TO ENSURE FUNCTIONAL CONNECTIVITY. COORDINATE WITH ARCHITECT

AND EQUIPMENT AND CASEWORK DRAWINGS. 19) ALL COMMUNICATION TECHNOLOGY ROUGH-IN SHALL BE CLOSELY COORDINATED IN THE FIELD TO COMPLEMENT THE INTENDED FURNITURE PLAN AND SAFE AND EFFICIENT CONNECTIVITY OF COMMUNICATION TECHNOLOGY EQUIPMENT.

20) MANY COMMUNICATION TECHNOLOGY DEVICES ARE INTENDED TO HAVE ADJACENT POWER OUTLETS TO SERVE THE SAME EQUIPMENT. CLOSE PROXIMITY OF THESE DEVICES IS CRITICAL TO USABILITY AND AESTHETICS. CONTRACTOR SHALL COORDINATE THESE DEVICES TO BE LOCATED ADJACENT AND AT THE SAME HEIGHT. 21) TELECOMMUNICATION DEVICE MOUNTING HEIGHT SHALL BE CONSISTENT WITH THE

ELECTRICAL OUTLET MOUNTING HEIGHTS FOR THE FACILITY (NEW OR EXISTING) UNLESS OTHERWISE INDICATED ON DRAWINGS. CONTRACTOR SHALL SEEK THE DIRECTION OF THE DESIGNER/ARCHITECT/ENGINEER/CONSULTANT SHOULD DISCREPANCIES BE FOUND WITHIN THE DRAWINGS, SPECIFICATIONS AND ACTUAL FIELD CONDITIONS. 22) FOR THE ELEVATOR (ELEV), COORDINATE TERMINATION WITH ELEVATOR

CONTRACTOR. PROVIDE CONDUIT FROM ELEVATOR CONTROL PANEL TO THE CORRIDOR CEILING SPACE, UNLESS OTHERWISE NOTED. 23) COORDINATE THE REQUIREMENTS FOR HVAC BUILDING AUTOMATION SYSTEM (BAS),

INCLUDING LOCATION, WITH THE MECHANICAL CONTRACTOR. 24) ALL CONDUITS STUBBED INTO THE CEILING CAVITY SHALL BE MARKED WITH AN INDELIBLE MARKER INDICATING THE CONDUIT'S INTENDED USE. MARK SO AS TO BE READABLE FROM BELOW WITHIN 6 INCHES OF THE BUSHING WITH THE FOLLOWING LABELS: "CAMERA," "ICOM," "DOOR," "SPKR," "MIC," "CLOCK," "VOL," "PANEL," "WAP," "DATA," "PHONE," "COM," "RF," "VP," "INPUT," ETC.

DIVISION 26 CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO (2) 2-INCH DIAMETER THROUGH-THE-WALL CONDUIT SLEEVES FOR COMMUNICATION TECHNOLOGY PATHWAYS. ROUTE THE CONDUITS FROM ACCESSIBLE CEILING CAVITY TO ACCESSIBLE CEILING CAVITY FROM EACH ROOM TO NEAREST HALLWAY/CORRIDOR. COORDINATE LOCATIONS WITH DIVISION 27 CONTRACTOR.

**INDIANA STATE** UNIVERSITY **TERRE HAUTE, INDIANA** COMMUNICATIONS STANDARDS . ИО UNIVERSIT INDIANA 28353) SP ш HAL 00 Ĩ ш Ш JONES  $\triangleleft$  $\triangleleft$ Ï σ RRE Ω DIANA (ISU >ENO Ш ſ DA#24002 These Drawings and Specifications, and all copies thereof are and shall remain the property and copyright of Indiana State University. They shall be used only with respect to this Project and are not to be used on any other Project or Work without prior written permission from Indiana State University. THIS SPACE RESERVED FOR PROFESSIONAL SEALS THIS SPACE RESERVED FOR PROFESSIONAL SEALS MARK DATE DESCRIPTION PROJECT NO .: PROJECT DATE: June 2011 DRAWN BY: CHECKED BY: DWG FILE: COPYRIGHT 2011 Keyplan LEGEND

**ISU-T-002** 

![](_page_13_Picture_0.jpeg)

- WORK TO BE INSTALLED
- EXISTING WORK

#### GENERAL NOTES

- 1. SEE DRAWINGS ISU-T-001 & ISU-T-002 FOR GENERAL NOTES.
- 2. SEE DRAWING T401 FOR ADDITIONAL WORK RELATED TO AV SYSTEM AND EQUIPMENT SPECS.
- 3. COLOR OF TELECOM DEVICES AND FACEPLATES SHALL MATCH ELECTRICAL WIRING DEVICES, AS SELECTED BY THE OWNER.
- 4. PATHWAYS AND DEVICE BOXES FOR TELECOM DEVICES/CABLING SHALL BE SEPARATE/INDEPENDENT FROM ALL AV CABLING AND DEVICES. DO NOT SHARE CONDUITS OR BOXES AND KEEP SOME SEPARATION WITHIN CABLE TRAY. COORDINATE WITH OWNER.

#### PLAN NOTES

- 1 PROVIDE ONE CAT. 6A CABLE FOR OWNER-PROVIDED CEILING MOUNTED SECURITY CAMERA. LEAVE A 10'-0" SERVICE LOOP OF CABLE ABOVE CEILING. TERMINATE WITH JACK AS DIRECTED BY OWNER.
- 2 EXISTING CEILING MOUNTED SECURITY CAMERA TO REMAIN OR BE REPLACED BY OWNER. (SHOWN FOR REFERENCE.)
- (3) EXISTING WIRELESS ACCESS POINT TO REMAIN.
- 4 PROVIDE CAT. 6A CABLING FOR A CEILING MOUNTED OWNER-PROVIDED, OWNER-INSTALLED WIRELESS ACCESS POINT. PROVIDE A 10'-0" SERVICE LOOP ABOVE CEILING. TERMINATE WITH JACK AS DIRECTED BY OWNER.
- 5 PROVIDE A MINIMUM 12"x12"x6"D BOX WITH GROMMETED OPENING IN SPLIT FACE COVER AND A 2" CONDUIT UP TO CABLE TRAY. VERIFY BOX SIZE TO ACCOMMODATE QTY. OF CABLES. COORDINATE WITH OWNER.
- 6 VERIFY LOCATION OF TV OUTLET WITH OWNER. INSTALL NEXT TO POWER RECEPTACLE.
- (7) INSTALL ROUGH-IN FOR ACCESS CONTROLS, CARD READER, ELECTRIC STRIKE, POWER SUPPLY, ETC. SEE DETAIL ON T400 SERIES DRAWING.
- 8 INSTALL DATA CABLE FOR FUTURE ACCESS CONTROLS. PROVIDE A 10'-0" SERVICE LOOP ABOVE CEILING.
- 9 PROVIDE A NEW 4" RIGID STEEL CONDUIT SLEEVE THRU FLOOR SLABS 2, 3, 4, & 5 FOR NEW DATA CABLES FROM ESPORTS 108. INSTALL NEXT TO EXISTING SLEEVES. PROVIDE WIRE MANAGEMENT FOR CABLING ON EACH FLOOR. COORDINATE WITH OWNER. PROVIDE PROPER PROTECTION OF EXISTING FACILITIES DURING CORE DRILLING. SEE T212 FOR FIFTH FLOOR LOCATION. PROVIDE FIRE-STOPPING.
- (10) INSTALL DEVICES IN FLOOR BOX. SEE DRAWING E211.

# D&A #24002 **R.E. Dímond** and Associates, Inc. **Consulting Engineers** 732 North Capitol Avenue Indianapolis, IN 46204 Phone: (317) 634-4672 Fax: (317) 638-8725 THESE DRAWINGS AND SPECIFICATIONS, AND ALL COPIES THEREOF ARE AND SHALL REMAIN THE PROPERTY AND COPYRIGHT OF THE ENGINEER. THEY SHALL BE USED ONLY WITH RESPECT TO THIS PROJECT AND ARE NOT TH BE USED ON ANY OTHER PROJECT OR WORK WITHOU PRIOR WRITTEN PERMISSION FROM THE ENGINEER CERTIFIED BY: PE6091035 STATE OF **REVISIONS:** NO. DESCRIPTION DATE: PROJECT DESCRIPTION: RENOVATIONS FOR ESPORTS **JONES HALL** INDIANA STATE UNIVERSITY TERRE HAUTE, INDIANA (ISU Bid No. B0028353) EYPLAN DRAWN BY: ESIGNED BY: DW/VH HECKED BY: CALE AS NOTED JOB NO.: 4/5/2024 D.A. #2400 SHEET DESCRIPTION: FIRST FLOOR PLAN -TELECOM HEET NUMBER:

T201

![](_page_13_Picture_21.jpeg)

PLAN NORTH

![](_page_14_Picture_0.jpeg)

WORK TO
BE INSTALLED

EXISTING WORK TO REMAIN

#### **GENERAL NOTES**

1. SEE DRAWINGS ISU-T-001 & ISU-T-002 FOR GENERAL NOTES.

#### PLAN NOTES

- 1 EXISTING LIGHTING TO REMAIN.
- (2) TYPICAL EXISTING SPRINKLER HEAD TO REMAIN.
- (3) TYPICAL EXISTING HVAC DIFFUSER TO REMAIN.
- (4) TYPICAL EXISTING FIRE ALARM SYSTEM SMOKE DETECTOR TO REMAIN.
- (5) TYPICAL EXISTING WIRELESS ACCESS POINT TO REMAIN.
- (6) RELOCATED EXISTING BASKET STYLE CABLE TRAY. NOMINAL 24" WIDE x 6" HIGH. CONTRACTOR SHALL REMOVE EXISTING CABLE TRAY FROM EXISTING TECH 'A' BUILDING ON CAMPUS, RELOCATE, AND REINSTALL CABLE TRAY AS SHOWN. REUSE EXISTING SUPPORTS (CHANNEL AND THREADED ROD) AND/OR PROVIDE NEW AS REQUIRED. SUPPORT FROM STRUCTURE ABOVE LAY-IN CEILING. INSTALL APPROXIMATELY 12" BELOW THE CEILING, ENSURING ACCESS TO EXISTING LIGHT FIXTURES. PROVIDE TEMPORARY SUPPORT OF EXISTING CABLES AT TECH 'A' AS REQUIRED. (BUILDING IS BEING VACATED FOR RENOVATION BUT SYSTEMS NEED TO REMAIN OPERATIONAL - COORDINATE WITH OWNER.) USE CABLE TRAY FOR PATHWAY OF LOW VOLTAGE CABLES WITHIN THE ROOM (DATA, AV, ETC.)
- (7) USE EXISTING ELBOW (RADIUS) FITTINGS IF AVAILABLE.
- (8) NEW WIRELESS ACCESS POINT. SEE T201.
- (9) NEW SECURITY CAMERA. SEE T201.
- 10 PROVIDE A 4" CONDUIT (OR EQUIVALENT) FROM THE CABLE TRAY TO ABOVE THE LOUNGE CEILING FOR LOW VOLTAGE CABLES.
- (11) CONDUIT SLEEVES FOR CABLE PATHWAY TO EXISTING TELECOM ROOM ON THE FIFTH FLOOR. SEE T201.
- (12) EXISTING CEILING HEIGHT IS APPROX. 11'-4" AFF.
- (13) ORGANIZE CABLES IN CABLE TRAY BY LOCATION AND/OR FUNCTION. COORDINATE WITH OWNER.

![](_page_14_Picture_21.jpeg)

FIRST FLOOR PLAN -TELECOM (CABLE TRAY) SCALE: 1/4" = 1'-0"

![](_page_14_Picture_23.jpeg)

![](_page_15_Figure_0.jpeg)

WORK TO BE INSTALLED
EXISTING WOR

#### **GENERAL NOTES**

1. SEE DRAWING T001 FOR GENERAL NOTES.

#### PLAN NOTES

1 EXISTING TELECOM RACK TO REMAIN. PROVIDE PATCH PANELS FOR TERMINATION OF NEW DATA CABLES.

2 PROVIDE A NEW 4" RIGID STEEL CONDUIT SLEEVE THRU FLOOR SLABS 2, 3, 4, & 5 FOR NEW DATA CABLES FROM ESPORTS 108. INSTALL NEXT TO EXISTING SLEEVES. PROVIDE WIRE MANAGEMENT FOR CABLING ON EACH FLOOR. COORDINATE WITH OWNER. PROVIDE PROPER PROTECTION OF EXISTING FACILITIES DURING CORE DRILLING. SEE T201 FOR FIRST FLOOR LOCATION. PROVIDE FIRE-STOPPING.

![](_page_15_Picture_8.jpeg)

![](_page_16_Figure_0.jpeg)

HROUGH GYPSUM BOARD WALL PENETRATIONS

![](_page_16_Picture_2.jpeg)

**Smooth Penetrator - Block** System No. W-J-3048 F Rating - 2 Hr T Rating - 0 Hr

![](_page_16_Figure_4.jpeg)

F RATING - 2 HOUR Smooth Penetrator - Block System 1. Wall Assembly - Minimum 6" thick reinforced lightweight or normal weight (100-150pcf) concrete. Wall may also be constructed of any UL classified Concrete Blocks. 2. Cables -- Aggregate cross-sectional area of cables in Smooth Sleeve to be minimum 8 percent to maximum 48 percent of the aggregate cross-sectional area of the Smooth Sleeve. Cables shall be rigidly supported on both sides of the wall assembly. 3. Firestop System -- The firestop system shall consist of the following:

UL SYSTEM NUMBER W-L--3048

A. Firestop Device \* -- Smooth steel sleeve device incorporating flat washers secured by sliding compression couplers. Device shall be installed in accordance with the accompanying installation instructions and bushings shall be applied to each end. Device provided in nominal 1, 2, and 4" sizes. Maximum diameter of opening in wall for 1, 2, and 4" device sizes are 1 1/4", 2 7/16", and 4 1/2" respectively. **B.** Fill void with cavity material \* -- Sealant - Minimum of 1" thickness of fill material applied within the Smooth Sleeve, flush with both ends. Bearing the UL classification Marking

> System No. W-J-3145 F Rating - 2 Hr T Rating - 3/4 Hr

![](_page_16_Figure_8.jpeg)

1. Wall Assembly — Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100 -150 pcf or 1600 -2400 kg/m3 ) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max area of opening is 192 sq in. (0.12 m2) with max dimensions of 24 in. (610 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers. 2 Fireston System — The firestop shall consist of the following: A. Fill, Void or Cavity Materials\* Composite Sheet - Foil-faced sheet with galv steel sheet backer. Sheets may be installed as one solid sheet, cut in two pieces (top and bottom) or split on one side of the penetrant(s). Opening in composite sheet to be max 3/16 in. (5 mm) larger than width and height dimensions of firestop device(s). Sheets cut to lap min of 2 in (51 mm) on the wall on all sides. Sheets to be installed or each side of wall with foil facing against wall surface and secured with min 3/16 in. (5

mm) diam by 1-1/4 in. (32 mm) long steel concrete screws in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers. Spacing of fasteners not to exceed 6 in. (152 SPECIFIED TECHNOLOGIES INC — SpecSeal CS Composite Sheet B. Fill, Void or Cavity Materials\* - Putty or Sealant - Nom 3/16 in. (5 mm) wide by 3/16 in. (5 mm) thick putty strips or nom 1/4 in. (6 mm) diam bead of sealant applied beneath composite sheet around entire perimeter of through opening on both sides of SPECIFIED TECHNOLOGIES INC — SpecSeal Putty, SpecSeal 100, 101, 102, 120,

129 or 105 Sealant or SpecSeal LCI Sealant C. Steel Cover Strip — The steel cover strip is required when the sheet is cut/split to accommodate the firestop devices (Item 2D) Min 2 in (51 mm) wide strip of min 0.020 in. (0.51 mm) thick (26 gauge) galv steel centered over entire length of each butted seam or slit made in the intumescent sheet (Item 2A). Prior to installation of the steel strip, the seam or slit in the intumescent sheet shall be covered with a nom 1/8 by 1/2 in. (3.2 by 3 mm) ribbon of putty or a nom 1/4 in. (6 mm) diam bead of sealant (Item 2C). Stee cover strip secured to galy steel sheet backer of intumescent sheet with steel sheet metal screws or rivets spaced max 3 in. (76 mm) OC on each side of seam or slit. D. Firestop Device\*— One, two, three, four or seven firestop device modules ganged

together. Each firestop device module consists of a 3 by 3 by 10 - 1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. The space between the firestop device module(s) and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max. 1/8 in. (3.2 mm) for square or rectangular plates and min 0 in. (0 mm, point contact) to max 1/2 in. (13 mm) when circular wall plates are used. Firestop device module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel set screws provided with wall plates. Four- and seven- gang steel wall plates shall be secured to wall using four steel concrete screws or to composite sheet using four steel sheet metal screws Each firestop device module is to be installed with ends projecting an equal distance

beyond each surface of the wall assembly SPECIFIED TECHNOLOGIES INC - EZ PATH. E. Firestop Device\* — Extension Module — (Optional, Not Shown) — Module attached to ends of 3 by 3 by 10 -1/2 in. (76 by 76 by 267 mm) long firestop device (Item 2D) to increase its length to facilitate installations in thicker walls. Each module consists of a 3 by 3 by 6 in. (76 by 76 by 152 mm) long galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2D) and extensi module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device or extension module(s) by means of steel set screws provided with wall

plates. Firestop device and extension module(s) assembly to be installed with ends

projecting an equal distance beyond each surface of the wall assembly. SPECIFIED TECHNOLOGIES INC — EZ PATH Extension F. **Firestop Device\*** — One firestop device module consisting of a 1.4 by 1.4 by 10 -1/2 in. (36 by 36 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device module to be installed in accordance with the accompanying installatio instructions. The space between the firestop device module and the periphery of the opening shall be min 0 in, (0 mm, point contact) to max 1/8 in, (3.2 mm). Firestop device module secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel set screws provided with device. The firestop device module is to be installed with ends projecting an equal distance beyond each surface of

SPECIFIED TECHNOLOGIES INC - EZ PATH Mini 3. Cables — The cables may represent a 0 to 100 percent visual fill within the loading area for each firestop device module (Items 2D through 2F). Cable fill to be distributed at a uniform height across the width of the firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used: A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation or with plenum rated jacketing and insulation. B. Max 350 kcmil single copper conductor power cable with XLPE jacket and insulation

C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and D. Max 3/C No. 10 AWG metal clad or armored cable with steel or aluminum jacket. E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket. F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated lacketing and insulation

G. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation H. Max RG/U coaxial cable with fluorinated ethylene insulation and jacketing. . Fiber optic cable with PVC or polyethylene (PE) jacket and insulation having a max diam of 5/8 in. (16 mm). J. Optical Fiber Raceway+ — Max 1-1/2 in. (38 mm) diam (or smaller) optical fiber eway ("innerduct") formed of either PVC or polyvinylidene fluoride (PVDF) with optical fiber cable fill. Raceways installed in accordance with the National Electrical Code (NFPA

+Bearing the UL Listing Mark \*Bearing the UL Classification Mar

D

the wall assembly.

![](_page_16_Picture_19.jpeg)

![](_page_16_Figure_20.jpeg)

Split Sleeve - Block

System No. W-J-3047

F Rating - 2 Hr

T Rating - 0 Hr

2. Cables -- Aggregate cross-sectional area of cables in the Split Sleeve to be minimum 8 percent to maximum 48 percent of the aggregate cross-sectional area of the Split Sleeve. Cables shall be rigidly supported on both sides of the wall assembly. 3. Firestop System -- The firestop system shall consist of the following: A. Firestop Device \* -- Threaded Split Sleeve halves incorporating split nuts and split washers sized to fit the specific diameter of the opening. Device shall be installed around cables in accordance with the accompanying installation instructions and bushings shall be applied to each end. Device provide in nominal 1, 2, and 4" sizes. Maximum diameter of opening in wall for 1, 2, and 4" device sizes are 1 1/4", 2 7/16", and 4 1/2" B. Fill void with cavity material \* -- Sealant - Minimum of 1" thickness of fill material applied within the Smooth Sleeve, flush with both ends.

earing the UL classification Marking

F RATING - 2 HOUR

**Threaded Penetrator - Block** System No. W-J-3049 F Rating - 2 Hr T Rating - 0 Hr

UL SYSTEM NUMBER W-L--3049

**Threaded Penetrator - Block System** 1. Wall Assembly - Minimum 6" thick reinforced lightweight or normal weight (100-150pcf) concrete. Wall may also be constructed of any UL classified Concrete Blocks. 2. Cables -- Aggregate cross-sectional area of cables in Threaded Sleeve to be minimum 8 percent to maximum 48 percent of the aggregate cross-sectional area of the Threaded Sleeve. Cables shall be rigidly supported on both sides of the wall assembly. I he firestop system shall consist of the following A. Firestop Device \* -- Threaded steel sleeve device incorporating flat washers secured by threaded couplers. Device shall be installed in accordance with the accompanying installation instructions and bushings shall be applied to each end. Device provided in nominal 1, 2, and 4" sizes. Maximum diameter of opening in wall for 1, 2,

and 4" device sizes are 1 1/4", 2 7/16", and 4 1/2" respectively. B. Fill void with cavity material \* -- Sealent - Minimum of 1" thickness of fill material applied within the Smooth Sleeve, flush with both ends. aring the UL classification Marking

![](_page_16_Figure_26.jpeg)

1. Wall Assembly — Min 6 in, (152 mm) thick reinforced lightweight or normal weight (100 -150 pc or 1600 -2400 kg/m3 ) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks\*. Opening to be max 1/4 in. (6 mm) larger than width and height dimensions of firestop device(s). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of

1A. Steel Sleeve - (Optional, Not Shown) - Nom 4 in. diam (or smalle Schedule 10 (or heavier) steel pipe, rigid steel conduit, or EMT sleeve cast or grouted into concrete wall flush with wall surfaces. 2. Firestop Device\* — Single firestop device module consisting of a 3 by 3 by 10 -1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device module to be installed in accordance with the accompanying installation instructions. The space between the firestop device module(s) and the periphery of the opening shall be min 0 in. (0 mm, point contact to max 1/2 in. (13 mm). Firestop device module(s) secured in place by means of circular steel wall plates installed with gasketing material supplied with product. Circular steel wall plates installed or both sides of wall and secured to each device by means of steel set screws provided with device Firestop device module is to be installed with ends projecting an equal distance beyond each surface of the wall assembly. SPECIFIED TECHNOLOGIES INC - EZ PATH

2A. Firestop Device\* — Extension Module — (Optional, Not Shown) — Module attached to ends of 3 by 3 by 10 -1/2 in. (76 by 76 by 267 mm) long firestop device (Item 3) to increase its length to facilitate installation in thicker walls. Each module consists of a 3 by 3 by 6 in. (76 by 76 by 152 mm) long galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2) and extension module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device extension module(s) by means of steel set screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal ance beyond each surface of the wall assembly. SPECIFIED TECHNOLOGIES INC — EZ PATH Extension

B. Cables — Within the loading area for the firestop device module, the cables may represent a 0 to 100 percent visual fill. Cable fill to be distributed at a uniform height across the width of the firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any bination of the following types of cables may be used: A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation. B. Max 350 kcmil single copper conductor power cable with XLPE jacket and insulation C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and D. Max 3/C No. 10 AWG metal clad or armored cable with steel or aluminum jacket.

E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket. F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with polyvinyl chloride (PVC) jacketing and insulation. G. Max RG/U coaxial cable with fluorinated ethylene insulation and jacketing. H. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 5/8 in. (16 mm). I. Max four pair No. 24 AWG (or smaller) copper conductor data cable with plenum ratedj jacket and insulation

J. Optical Fiber Raceway+ - Max 1-1/2 in. (38 mm) diam (or smaller) optical fiber ceway ("innerduct") formed of either polyvinyl chloride (PVC) or polyvinylidene fluoride (PVDF) with optical fiber cable fill. Raceways installed in accordance with the National ctrical Code (NEPA 70 When Item 3A, 3B, 3C, 3D or 3E is used, the F Rating is 2 hr and the T Rating is 3/4 hr. When max 200 pair No. 24 AWG telecommunication cable is used or when Item 3F, 3G, 3H, 3I or 3J is used, the F Rating is 4 hr and the T Rating is 1 hr.

\*Bearing the UL Classification Mark

When device is cast or grouted in place, the steel restraint plates are optional. SPECIFIED TECHNOLOGIES INC - EZ PATH consists of a 3 by 3 by 6 in (76 by 76 by 152 mm) long galy steel tube with an SPECIFIED TECHNOLOGIES INC - EZ PATH Extension floor or both surfaces of wall. Any combination of the following types of cables may be used: with polyvinyl chloride (PVC) jacketing and insulation. B. Max 350 kcmil single copper conductor power cable with XLPE jacket and and insulation E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket. rated jacketing and insulation G. Max RG/U coaxial cable with fluorinated ethylene insulation and jacketing. max diam of 5/8 in. (16 mm).

used, the F Rating is 4 hr and the T Rating is 1 hr. +Bearing the UL Listing Mark \*Bearing the UL Classification Mark

![](_page_16_Figure_35.jpeg)

![](_page_16_Figure_36.jpeg)

SPECIFIED TECHNOLOGIES INC - EZ PATH

with polyvinyl chloride (PVC) insulation and jacketing. rated insulation and jacketing.

max diam of 5/8 in. (16 mm). Electrical Code (NFPA 70)

![](_page_16_Figure_41.jpeg)

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c THROUGH FLOOR PENETRATIONS

Shielded CAT6

Indiana State University Esports Lab

The Contractor's scope of work shall include the following:

- 1. Provide the equipment listed herein.
- 2. Provide the necessary cabling, jacks, and connections as described herein, elsewhere, or as required.
- 3. Coordinate all requirements with the Owner.

**Technology Specifications:** 

#### Gaming PCs:

Provide a quantity of twenty (20) PCs for base bid, with an alternate bid for 5 additional PC's (total of 25 PC's)

#### PC Specs

- CPU Provide a Central Processing Unit (CPU) with a minimum of 6-12 cores ranging from a minimum of 2.10 GHz to 4.40 GHz. Similar to the Intel i7-13000K
- Motherboard Provide wired and wireless connectivity as well as Bluetooth compatibility.
- RAM Provide Random Access Memory (RAM) with a minimum of DDR5 memory from 16 GB up to 32 GB total
- Storage Provide a Solid State Drive (SSD) with a minimum of 1 TB storage and up to 2
- GPU Provide a Graphics Processing Unit (GPU) with a minimum base clock of 1.32GHz with memory at either 8 or 12 GB GDDR6. Similar to the RTX 4060 TI
- Case Corsair 4000D Airflow ATX Mid Tower Case or equivilent • Power Supply - Corsair RM750e (2023) 750 W 80+ Gold Certified Fully Modular ATX or
- equivalent
- Network Card 1Gbps

#### Peripherals

- Monitor eSports 27" monitor, 1440p/QHD resolution, 144 hz refresh rate, 2ms or lower response rate, HDMI 2.0 and DisplayPort 1.4, 1 yr warranty
- Headset Headset, 20-20,000 Hz frequency response, 40mm drivers, noise canceling microphone, 1 yr warranty.
- Keyboard Ergonomic keyboard with number pad, mechanical switch, RGB lighting, USB. • Mouse - eSports optical mouse, USB, variable dpi up to 16k, 6 buttons, scroll wheel, 450IPS, 1 yr warranty.
- Mousepad Mousepad, non-slip, smooth durable cloth surface game mat, large 900x300mm size.

1

#### \*All AV wallplates to be black in color

![](_page_17_Figure_24.jpeg)

![](_page_17_Picture_26.jpeg)

• Monitor - eSports 24" monitor, 1440p/QHD resolution, 144 hz refresh rate, 2ms or lower response rate, HDMI 2.0 and DisplayPort 1.4, 1 yr warranty • Headset - Headset, 20-20,000 Hz frequency response, 40mm drivers, noise canceling

• Keyboard - Ergonomic keyboard with number pad, mechanical switch, RGB lighting, USB. • Mouse - eSports optical mouse, USB, variable dpi up to 16k, 6 buttons, scroll wheel, 450IPS,

• Mousepad - Mousepad, non-slip, smooth durable cloth surface game mat, large

The Contractor's scope of work shall include the following:

• Provide and install all Cat 6A shielded A/V cabling between wall plates, and the jacks, wall plates, and pathways, per the AV Wiring Schematic. • Provide and install all network ports and cables as shown or directed.

Installation of monitor mounts on desks

Installation of computer mounting hardware to desk.

• Mounting of all TVs and mounts needed for the TV. Equipment provided by Owner. • Owner will be installing any needed A/V components into a server rack or location of

• All cabling, locations, and requirements must be verified with the Owner.

1. Campus infrastructure supports up to 10G building-to-building and off-campus network

2. All workstation network runs will be home run to owner's preexisting network equipment. The default network speed will be 1Gbps per drop to each device. 3. All network runs shall be installed and tested by the Contractor. 4. All port counts, locations, and requirements must be verified with the Owner.

6. The appropriate remote access for VENDOR management will be provided based on

7. Network segmentation and firewalls will be utilized to protect the equipment and campus. Requirements and limitations must be documented.

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![](_page_18_Figure_0.jpeg)

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# **INDIANA STATE** UNIVERSITY **TERRE HAUTE, INDIANA** COMMUNICATIONS **STANDARDS** S SPORT: INDIANA UNIVERSI 8353) Ш 2 S FOR B00 Ц Ц STATE RENOVATIONS I JONES HAU<sup>-</sup> No. Bid RRE INDIANA (ISU Ш DA#24002 ese Drawings and Specifications, and all copies thereof e and shall remain the property and copyright of Indiana ate University. They shall be used only with respect to this reject and are not to be used on any other Project lihout prior written permission from Indiana St HIS SPACE RESERVED FOR PROFESSIONAL SEALS HIS SPACE RESERVED FOR PROFESSIONAL SEALS ARK DATE DESCRIPTION ROJECT NO .: ROJECT DATE: June 2011 RAWN BY: HECKED BY: WG FILE: OPYRIGHT 2011 TERMINATION AND IDENTIFICATION DETAILS **ISU-T-511**

![](_page_19_Figure_0.jpeg)

TYPICAL ER/TR RACK/CABINET LAYOUT

24"

COMBINATION OF RACKS AND CABINETS SHOWN AS EXAMPLE ONLY

![](_page_19_Figure_3.jpeg)

EACH RACK/CABINET SHALL BE CONSECUTIVELY NUMBERED FROM THE – LEFT TO RIGHT OR FROM THE WALL OUT RIGHT TO LEFT (AS SHOWN ON THE DETAIL DRAWINGS)

> AS WITH THE CORE DIAMETERS. J. ALL CABLES USED FOR DATA SHALL BE TERMINATED ON "HORIZON ER/TR. ALL CABLES USED FOR VOICE SHALL BE TERMINATED ON 6 BACKBOARD IN THE ER/TR. ALL CABLES USED FOR CONTROL (CTR TR) SHALL BE TERMINATED ON "CONTROL" PATCH PANELS IN THE POINT CABLES WILL BE TERMINATED ON A "WAP" PANEL IN THE ER K. SOLID TRIANGLES DENOTE VOICE (TELEPHONE) REQUIREMENTS. I REQUIREMENTS. HALF SOLID TRIANGLES DENOTE VOICE AND DAT NOTED (\*), EACH HALF SOLID TRIANGLE WILL RECEIVE ONE VOICE BE DATA.

- D. SEPARATE PATCH PANELS ARE UTILIZED FOR HORIZONTAL DATA, PANELS AS TO USE AND WITH UNIQUE IDENTIFIER AS SHOWN IN TH COORDINATE "FINAL" ROOM NUMBERS OR IDENTIFIERS WITH OV ALL LABELING SHALL CONFORM TO OPERATIONAL ROOM IDENTIFI F. ALL CABLES SHALL BE TERMINATED IN ALPHA-NUMERICAL ORDER G. LABEL ALL FACEPLATES WITH AN OUTLET IDENTIFIER AND LABEL E IN THE DIAGRAM AS A GUIDE. H. LABEL CROSS-CONNECT FIELDS, BACKBOARDS, RACKS/CABINETS UTILIZING THE EXAMPLES IN THE DIAGRAM AS A GUIDE. FIBER OPTIC PANELS SHALL BE IDENTIFIED WITH SOURCE, DESTINA Ι.
- NUMBER USED WHEN MULTIPLE ROOMS ARE REQUIRED ON A FLOO B. ALL CABLES SHALL HAVE A LABEL AFFIXED TO THE JACKET AT EAC TERMINATION POINT. THIS LABEL SHALL IDENTIFY THE SOURCE, D EXAMPLE: TRXX-101-B6 OR 101-SVID. C. THESE DETAILS ARE NOT INTENDED TO SHOW EXACT PROJECT RE LAYOUTS, FACEPLATE CONFIGURATION, EXACT CABLE TYPES, CAR QUANTITIES. THESE DETAILS DO DIAGRAMMATICALLY INDICATE PR COLOR-CODING, AND TERMINATIONS FOR THIS PROJECT. USE THE ANY QUESTIONS IN WRITING WITH THE PROCEDURE FOUND IN THE
- LABELING NOTES: (THIS PROJECT) A. EACH TELECOMMUNICATIONS ROOM SHALL HAVE A UNIQUE IDENT 2] UNIQUE 2 LETTER BUILDING CODE, AND 3] FLOOR LOCATION. EX EQUIPMENT ROOM ON THE FIRST FLOOR OF GILLUM HALL, OR, TR-TELECOMMUNICATIONS ROOM IN UNIVERSITY HALL ON THE THIRD

	INDIANA STATE UNIVERSITY TERRE HAUTE, INDIANA
	STANDARDS
	RENOVATIONS FOR ESPORTS JONES HALL INDIANA STATE UNIVERSITY TERRE HAUTE, INDIANA (ISU Bid No. B0028353)
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	THIS SPACE RESERVED FOR PROFESSIONAL SEALS
LING NOTES: (THIS PROJECT) EACH TELECOMMUNICATIONS ROOM SHALL HAVE A UNIQUE IDENTIFIER CONSISTING OF 1] ROOM TYPE, 2] UNIQUE 2 LETTER BUILDING CODE, AND 3] FLOOR LOCATION. EXAMPLE: ER-GH-1 FOR THE MAIN EQUIPMENT ROOM ON THE FIRST FLOOR OF GILLUM HALL, OR, TR-UH-304 FOR A TELECOMMUNICATIONS ROOM IN UNIVERSITY HALL ON THE THIRD FLOOR IN ROOM 304. (ROOM NUMBER USED WHEN MULTIPLE ROOMS ARE REQUIRED ON A FLOOR.) ALL CABLES SHALL HAVE A LABEL AFFIXED TO THE JACKET AT EACH END 4 TO 6" FROM THE TERMINATION POINT. THIS LABEL SHALL IDENTIFY THE SOURCE, DESTINATION, AND PORT IDENTIFIER. EXAMPLE: TRXX-101-B6 OR 101-SVID	MARK DATE DESCRIPTION
EXAMPLE. IRXA-101-B00 OK 101-SYUD.         THESE DETAILS ARE NOT INTENDED TO SHOW EXACT PROJECT REQUIREMENTS FOR RACK/CABINET         LAYOUTS, FACEPLATE CONFIGURATION, EXACT CABLE TYPES, CABLE DESTINATIONS OR CABLE         QUANTITIES. THESE DETAILS DO DIAGRAMMATICALLY INDICATE PROJECT REQUIREMENTS FOR LABELING,         COLOR-CODING, AND TERMINATIONS FOR THIS PROJECT. USE THESE DETAILS AS A GUIDE; SUBMIT         ANY QUESTIONS IN WRITING WITH THE PROCEDURE FOUND IN THE SPECIFICATIONS.         SEPARATE PATCH PANELS ARE UTILIZED FOR HORIZONTAL DATA, WIRELESS ACCESS POINTS, AND CONTROL LABEL         PANELS AS TO USE AND WITH UNIQUE IDENTIFIER AS SHOWN IN THE DIAGRAM.         COORDINATE "FINAL " ROOM NUMBERS OR IDENTIFIERS WITH OWNER PRIOR TO PERFORMING WORK;         ALL LABELING SHALL CONFORM TO OPERATIONAL ROOM IDENTIFIERS FOR BUILDING USE.         ALL CABLES SHALL BE TERMINATED IN ALPHA-NUMERICAL ORDER ON EACH PATCH PANEL.         LABEL ALL FACEPLATES WITH AN OUTLET IDENTIFIER AND LABEL EACH PORT; FOLLOW THE EXAMPLES         IN THE DIAGRAM AS A GUIDE.         FIBER OPTIC PANELS SHALL BE IDENTIFIED WITH SOURCE, DESTINATION, STRAND IDENTIFIER AS WELL         AS WITH THE CORE DIAMETERS.         ALL CABLES USED FOR DATA SHALL BE TERMINATED ON "HORIZONTAL DATA" PATCH PANELS IN THE         FIBER OPTIC PANELS SHALL BE IDENTIFIED WITH SOURCE, DESTINATION, STRAND IDENTIFIER AS WELL         AS WITH THE CORE DIAMETERS.         ALL CABLES USED FOR VOICE SHALL BE TERMINATED ON 66 STYLE BLOCKS ON A         BACKBO	PROJECT NO.:         PROJECT DATE:         June 2011         DRAWN BY:         CHECKED BY:         DWG FILE:         COPYRIGHT 2011
SOLID TRIANGLES WILL BE TERMINATED ON A "WAP" PANEL IN THE EXTR. SOLID TRIANGLES DENOTE VOICE (TELEPHONE) REQUIREMENTS. HOLLOW TRIANGLES DENOTE DATA REQUIREMENTS. HALF SOLID TRIANGLES DENOTE VOICE AND DATA REQUIREMENTS; UNLESS OTHERWISE NOTED (*), EACH HALF SOLID TRIANGLE WILL RECEIVE ONE VOICE JACK AND THE REMAINDER WILL BE DATA. (*) NOTATIONS WILL BE SUBSCRIPTS TO THE SYMBOL; xV WHERE x IS THE QUANTITY OF VOICE CABLES AND xD WHERE x IS THE QUANTITY OF DATA CABLES. SEE CABLE AND TERMINATION SUMMARY CHART FOR COLOR CODING OF JACKS AND CABLES ON THIS PROJECT.	Keyplan TERMINATION AND IDENTIFICATION
	ISU-T-512

![](_page_20_Picture_0.jpeg)

![](_page_20_Figure_1.jpeg)

(1) SINGLE GANG FACEPLATE (2) 1 PORT BLANKS (2) RJ45 UTP JACK INSERT; 4 PR UTP CABLES TO ER/TR RACK MOUNTED PATCH PANEL

![](_page_20_Figure_3.jpeg)

 $\nabla$ (1) SINGLE GANG FACEPLATE (3) 1 PORT BLANKS (1) RJ45 UTP JACK INSERT; 4 PR UTP CABLE TO ER/TR (NOTE: WAP SUBSCRIPT SHALL HAVE CABLE TERMINATED ON WAP PANEL IN ER/TR)

![](_page_20_Picture_9.jpeg)

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(1) SINGLE GANG FACEPLATE (4) RJ45 UTP JACK INSERT; 4 PR UTP CABLES TO ER/TR RACK MOUNTED PATCH PANEL

![](_page_20_Figure_11.jpeg)

(1) SINGLE GANG FACEPLATE (1) 1 PORT BLANKS (3) RJ45 UTP JACK INSERT; 4 PR UTP CABLES TO ER/TR RACK MOUNTED PATCH PANEL

- WORKSTATION OUTLET (FACEPLATE) NOTES: (THIS DETAIL)
- A. OUTLET REQUIREMENTS WHERE POWER/COMMUNICATIONS MULTI-COMPARTMENT SURFACE RACEWAY IS REQUIRED SHALL SUBSTITUTE 2 4 PORT JACK FRAMES AND STANDARD "ELECTRICAL OUTLET" OR RACEWAY FACEPLATE(S) IN PLACE OF THE DOUBLE GANG FACEPLATES SHOWN ON THIS DRAWING. ADDITIONAL FACEPLATES SHALL BE CUT-IN ADJACENT TO FULFILL THE OUTLET PORT REQUIREMENT. OUTLET LOCATIONS REQUIRING 4 OR FEWER PORTS SHALL UTILIZE A SINGLE 4 PORT JACK FRAME AND FACEPLATE
- AND FACEPLATE. AND FACEPLATE.
   B. ALL CABLES USED FOR DATA SHALL BE TERMINATED ON "HORIZONTAL DATA" PATCH PANELS IN THE ER/TR. ALL CABLES USED FOR VOICE SHALL BE TERMINATED ON "66 STYLE" BLOCKS ON A CROSS-CONNECT BACKBOARD IN THE ER/TR. ALL WIRELESS ACCESS POINT CABLES WILL BE TERMINATED ON A "WAP" PANEL IN THE ER/TR. ALL CABLES USED FOR VIDEO PROJECTORS SHALL
- BE TERMINATED ON A "CONTROL DATA" PATCH PANEL IN THE ER/TR. C. SOLID TRIANGLES DENOTE VOICE (TELEPHONE) REQUIREMENTS. HOLLOW TRIANGLES DENOTE DATA REQUIREMENTS. HALF SOLID TRIANGLES DENOTE VOICE AND DATA REQUIREMENTS; UNLESS OTHERWISE NOTED \*, EACH HALF SOLID TRIANGLE WILL RECEIVE ONE VOICE JACK AND THE REMAINDER WILL BE DATA.
- \* NOTATIONS WILL BE SUBSCRIPTS TO THE SYMBOL; XV WHERE X IS THE QUANTITY OF VOICE CABLES AND XD WHERE X IS THE QUANTITY OF DATA CABLES. D. NOT USED.
- JACK COLOR-CODING WILL BE AS LISTED IN CABLE AND TERMINATION CHART ON LABELING AND TERMINATION DETAIL SHEET.
- F. CABLE COLOR-CODING WILL BE AS LISTED IN CABLE AND TERMINATION CHART ON LABELING AND TERMINATION DETAIL SHEET.

INDIANA STATE UNIVERSITY TERRE HAUTE, INDIANA COMMUNICATIONS STANDARDS
RENOVATIONS FOR ESPORTS JONES HALL INDIANA STATE UNIVERSITY TERRE HAUTE, INDIANA (ISU Bid No. B0028353)
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Keyplan
STATION OUTLET DETAILS

 $\bigcirc$ 0 (1) SINGLE GANG SS FACEPLATE W/ MTG STUDS (1) 6P 6C MOD JACK; 4 PAIR CABLE TO ER/TR 66 BLOCK CROSS-CONNECT FIELD

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(1) SINGLE GANG FACEPLATE (4) 1 PORT BLANKS

0 0 

![](_page_20_Picture_23.jpeg)