

## GENERAL NOTES:

- THIS PACKAGE SCOPE OF WORK INCLUDES A FULLY OPERATIVE INTEGRATED AIRPORT SYSTEM, REFERRED TO HEREIN AS THE AIRPORT INFORMATION MANAGEMENT SYSTEM (AIMS) THAT MEETS ALL OF THE EQUIPMENT, FUNCTIONAL, OPERATIONAL, PERFORMANCE, AND REDUNDANCY REQUIREMENTS IN THE PROJECT PLANS (SECTION TITLED MF) AND SPECIFICATIONS (SECTION 274216). ELECTRICAL POWER AND DATA CONNECTIVITY, INCLUSIVE OF ALL CONDUIT AND CABLING, SHALL BE BY OTHERS AS REFERENCED IN THE ELECTRICAL AND TELECOMMUNICATIONS SECTIONS OF THE DRAWINGS AND SPECIFICATIONS.
- THE SCOPE OF WORK UNDER THIS CONTRACT INVOLVES THE INSTALLATION OF NETWORK ARCHITECTURE COMPONENTS, COMMON USE SELF SERVICE (CUSS) KIOSKS, MULTI-USER FLIGHT INFORMATION DISPLAY SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LABOR AND MATERIAL ASSOCIATED WITH THE SCOPE OUTLINED WITHIN THE PROJECT MANUAL, UNLESS OTHERWISE NOTED.
- ALL SCREENS SHOWN, IN THIS PACKAGE SHALL BE FURNISHED, MOUNTED AND INSTALLED UNDER THIS CONTRACT. MOUNTING OF SCREENS SHALL BE COORDINATED WITH THE MILLWORK CONTRACTOR. THIS CONTRACT SHALL SUBMIT NECESSARY SCREEN, DVC, AND MOUNTING HARDWARE CUT SHEETS TO THE CONSTRUCTION MANAGER, ENGINEER, AND OWNER FOR APPROVAL 30 DAYS AFTER AWARD OF THE CONTRACT.
- THE SCOPE OF WORK OUTLINED IN THE "MF" PACKAGE AND IN SPECIFICATION SECTION 274228 SHALL BE PROCURED THROUGH THE OWNER. THE BASE BUILDING CONTRACT WILL CARRY AN ADVISORY NOTICE ON THE SCOPE OF WORK, PLEASE SEE THE SPECIFICATIONS FOR DETAILS. THE OWNER WILL SELECT THE INTEGRATOR BASED ON THE BEST VALUE.
- ALL POWER AND DATA REQUIRED FOR THE SYSTEM SHOWN IN THIS PACKAGE SHALL BE PROVIDED BY THE BASE BUILDING SCOPE OF WORK SHOWN IN THE "TC" AND "E" SETS. ALL DATA AND POWER INFORMATION IS FOR REFERENCE AND COORDINATION ONLY.
- ALL SCREEN AND KIOSK SUBMITTALS REQUIRED IN THE SPECIFICATIONS SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER PRIOR TO GAINING FINAL APPROVAL.
- THE SYSTEM SHALL BE COMMISSIONED IN ACCORDANCE WITH THE SPECIFICATION.
- THESE DRAWINGS DESCRIBE THE GENERAL REQUIREMENTS FOR THE INSTALLATION OF THE MUFIDS SYSTEM WITHIN THE FACILITIES OF THE PORTLAND INTERNATIONAL JETPORT. THE PROJECT INCLUDES FURNISHING, INSTALLATION, STARTUP AND TESTING OF THE COMPONENTS FOR THE COMPLETE MUFIDS SYSTEM AS DESCRIBED IN THESE DRAWINGS, AND THE SPECIFICATIONS. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS THOROUGHLY PRIOR TO SUBMITTING A PROPOSAL.
- CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL DEVICES AND FINAL CONDUIT ROUTING WITH THE ENGINEER/PWM PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE TELECOMMUNICATION CONDUITS AND CABLES INSTALLATION/TERMINATION WITH TELECOMMUNICATION CONTRACTOR.
- ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH RADIANT FLOOR PEX TUBING WITHIN THE SLAB ASSEMBLY.
- DIMENSIONS TAKE PRECEDENCE OVER SCALE.
- THE CONTRACTOR SHALL PROVIDE SECURITY WITHIN THE CONSTRUCTION AREA AND WILL KEEP ALL UNAUTHORIZED PERSONNEL OUT. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE PROJECT AREA THROUGH ACCESS POINTS AS DIRECTED BY THE PWM.
- IN CONSTRUCTION AREAS THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING CABLES DURING CONSTRUCTION. THE CONTRACTOR WILL PAY FOR ALL COSTS ASSOCIATED WITH THE REPAIR OF ANY DAMAGED CABLES.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL SAFETY DEVICES SUCH AS STAKED LIMIT LINES AND BARRICADES. ALL TEMPORARY MARKINGS, BARRICADES, FLAGMEN, ETC REQUIRED SHALL BE FURNISHED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER AT ONCE IF THERE ARE ANY DISCREPANCIES.
- THE ALTERATION OF THE EXISTING BUILDINGS IS WORK OF A COMPLEX NATURE WHICH WILL REQUIRE ACCURATE PLANNING, CAREFUL PREPARATION AND EXECUTION. ATTENTION TO DETAIL AND CLOSE SUPERVISION BY THE CONTRACTOR, THE CONTRACTOR SHALL BE REQUIRED TO DO THIS WORK IN FULL COOPERATION WITH ALL CONSTRUCTION TRADES AND SUBJECT TO SCHEDULING ARRANGED TO MINIMIZE DISRUPTION OF NORMAL ACTIVITIES OF THE BUILDINGS. PHASING OF ALL WORK SHALL BE DONE IN COORDINATION WITH THE PWM.
- ALL DEVICES AND BOXES INSTALLED SHALL BE TAGGED AND/OR MARKED AS MUFIDS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- ALL PENETRATIONS, BOTH NEW AND EXISTING, THROUGH DESIGNATED FIRE RATED WALLS, CEILINGS AND FLOOR SLABS (WHICH ARE 2-HOUR RATED) SHALL BE PROPERLY SEALED WITH AN APPROVED RATED FIRESTOPPING MATERIAL. CONTRACTOR SHALL SUBMIT INSTALLATION DETAILS FOR FIRESTOPPING TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- WHERE UTILITIES AND/OR SERVICES REQUIRE SHUTDOWN FOR THE

## GENERAL REQUIREMENTS:

- WORK TO BE PERFORMED, NOTIFY THE PWM. REQUESTS FOR UTILITY AND/OR SERVICE SHUTDOWNS SHALL BE SUBMITTED TO THE PWM IN WRITING, A MINIMUM OF 2 WEEKS PRIOR TO THE SCHEDULED SHUTDOWN.
- THE CONTRACTOR SHALL NOT BE ALLOWED ANY STORAGE AREA OTHER THAN THAT AVAILABLE WITHIN THE LIMITS OF THE STAGING AREA OR CONFINES OF THE WORK AREA.
- ALL MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS.
- A COPY OF THE CURRENT SET OF CONTRACT DOCUMENTS WITH AS-BUILT INFORMATION SHALL BE KEPT AT THE JOB SITE AT ALL TIMES BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PATCH, REPAIR OR REPLACE EXISTING WORK DISTURBED BY THIS CONTRACT WITH MATERIAL AND WORKMANSHIP MATCHING OR EQUAL TO THE CONDITION OF ADJACENT UNDISTURBED AREAS AND PRIOR TO THE NEW WORK BEING STARTED.
- ALL CONTRACTOR EMPLOYEES SHALL BE BADGED IN ACCORDANCE WITH THE REQUIREMENTS OF AIRPORT SECURITY. CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE AIRPORT BADGING OFFICE FOR TESTING AND BADGING OF CONTRACTOR'S PERSONNEL. MATERIAL SUPPLIERS WILL NOT REQUIRE AIRPORT BADGES, BUT MUST BE ESCORTED BY A PERMANENTLY BADGED CONTRACTOR EMPLOYEE AT ALL TIMES WITHIN THE AOA.
- DAMAGED DURING INSTALLATION AT NO ADDITIONAL COSTS TO THE OWNER.
- CONTRACTOR SHALL REPAIR ANY AREA IN KIND OF INSTALLATION DEFACES EXISTING WALLS, FLOORS, OR CEILINGS PAINTED AREAS.
- THESE DRAWINGS MAY NOT SHOW ALL REQUIRED CONNECTIONS, PATCH CONDS, INTERCONNECTING CABLES, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE IN HIS BID PRICE ALL APPURTENANCES FOR A COMPLETED AND OPERATIONAL SYSTEM THAT MEETS THE SYSTEM DESIGN REQUIREMENTS, WHETHER OR NOT SHOWN ON THE DRAWINGS OR CALLED OUT IN THE SPECIFICATIONS.

## GENERAL REQUIREMENTS:

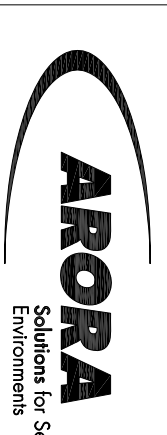
- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, INCIDENTALS, METHODS AND SERVICES REQUIRED TO INSTALL ALL WORK INDICATED COMPLETELY AND IN FULL OPERATION.
- PRIOR TO ACCEPTANCE OF THE SPACE, ALL SYSTEMS SHALL BE TESTED, BALANCED, AND OPERATED TO DEMONSTRATE TO THE OWNER OR HIS DESIGNATED REPRESENTATIVE, THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS THEREOF CONFORM TO DESIGN INTENT.
- VERIFY ALL FIELD CONDITIONS, ACCESS WAYS, DIMENSIONS, AND DETAILS IN THE FIELD PRIOR TO BID AND PRIOR TO FABRICATION. INCLUDE IN BID ALL WORK NECESSARY TO COVER COSTS RESULTING FROM FIELD CONDITIONS.
- ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST AND ALL APPLICABLE LAWS, CODES, AND REGULATIONS ADOPTED BY MUNICIPAL, COUNTY, STATE, AIRPORT AUTHORITIES, FEDERAL AUTHORITIES, UTILITY COMPANIES, INSURANCE AGENCIES AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK, INCLUDING CURRENT ENVIRONMENTAL REGULATIONS, AND SHALL COMPLY WITH THE APPLICABLE LOCAL ELECTRICAL CODES.
- APPLY FOR, SECURE, AND PAY FOR ALL PERMITS AND/OR CERTIFICATES OF INSPECTION REQUIRED IN THE PERFORMANCE OF THE WORK BY ALL AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR (EXCEPT WHERE EXTENSIONS OF THIS ONE YEAR PERIOD ARE NOTED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS, LABOR, FUNCTIONAL EQUIPMENT OR UNDESIRABLE PERFORMANCE, AND ALL OTHER WORK OR PARTS OF THE BUILDING DAMAGED THEREBY, AS A RESULT OF WORK OF THE PROJECT BY THE CONTRACTOR. CONTRACTOR SHALL PAY ALL REPAIR COSTS ACCORDINGLY, WITHOUT ADDITIONAL COSTS TO THE OWNER.
- IN ADDITION TO SPECIFICS AS MAY BE DEFINED HEREAFTER, THE CONTRACTOR SHALL PROTECT THE WORK SITE AND ALL HIS OR HER WORK, AGAINST DAMAGE FROM ANY SURFACE (INCLUDING BUT NOT LIMITED TO WATER, DUST, HEAT, FREEZING, ETC.) UNTIL FINAL COMPLETION AND ACCEPTANCE BY THE OWNER.
- CONTRACTOR SHALL, UPON COMPLETION OF THE WORK, SUBMIT AS-BUILT RECORD DRAWINGS SHOWING ALL CHANGES FROM THE CONTRACT DRAWINGS MADE IN THE INSTALLATION, AND SHOWING DIMENSION LOCATIONS OF CONCEALED EQUIPMENT ON PARTS OF THE WORK.
- PRIOR TO DELIVERY OF THE MATERIALS TO THE SITE, CONTRACTOR SHALL PROVIDE MATERIAL SAFETY DATA SHEETS FOR ALL ITEMS AND MATERIALS USED IN THE WORK.
- UNLESS OTHERWISE NOTED, ALL PARTS, EQUIPMENT, AND MATERIALS SHALL BE NEW AND SHALL BE SAME AND/OR UL APPROVED
- CONTRACTOR SHALL COMPLETE ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE WORK. CUTTING AND PATCHING SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER. PATCHING MATERIALS SHALL MATCH EXISTING MATERIALS TO THE GREATEST EXTENT POSSIBLE. PROVIDE TOUCH UP PAINT AS REQUIRED TO MATCH PAINT FINISH & COLOR OF EXISTING ADJACENT AREAS.
- CONTRACTOR SHALL DISPOSE OF TRASH/RUBBLE/CONSTRUCTION DEBRIS AN A DAILY BASIS FROM WORK AREA AND OFF AIRPORT PROPERTY. ALL TRASH/CONSTRUCTION DEBRIS SHALL HAULED OFF OF AIRPORT PROPERTY TO AN APPROVED DISPOSAL SITE. ANY TRASH/RUBBLE/CONSTRUCTION DEBRIS DEEMED AS HAZARDOUS WASTE/MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH CORRESPONDING REGULATIONS AND DISPOSED OF ACCORDINGLY AT AN APPROVED HAZARDOUS WASTE DUMPSITE WITH ALL OF THE APPROVED/REQUIRED DOCUMENTATION.
- EACH CONTRACTOR SHALL PERFORM ALL WORK IN STRICT COMPLIANCE WITH THE AIRPORT AUTHORITIES.
- CONTRACTOR SHALL COREDRILL OPENINGS THROUGH FLOORS FOR NEW CONDUIT PENETRATIONS AS REQUIRED. COREDRILLED OPENINGS SHALL BE SLEAVED AND SEALED WITH FIREPROOF MATERIAL. CONTRACTOR SHALL CORE DRILL 1/4"Ø PILOT HOLE PRIOR TO CORE DRILLING. CONTRACTOR SHALL TAKE PRECAUTIONS AS TO PROTECT AREA BENEATH COREDRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE AND WATER THAT MAY ENTER AREA BELOW. REPLACE ANY/ALL CEILING TILES THAT ARE REMOVED/DAMAGED DUE TO THIS WORK. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION. ALL COREDRILL LOCATIONS SHALL BE COORDINATED WITH AIRPORT AUTHORITIES PRIOR TO CORING.
- CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE, DESIGN INTENT, AND GENERAL ARRANGEMENT ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES INCLUDING RESOLUTION OF FIELD CONFLICTS THAT MAY ARISE.
- PRIOR TO ANY UTILITY OUTAGE/INTERRUPTION, PREPARE A SCHEDULE OF ANY SUCH OUTAGE. INCLUDE DURATION, IDENTIFICATION OF UTILITY AFFECTED, TEMPORARY UTILITY SERVICE TO BE PROVIDED (IF REQUIRED) AND THE ACTION TO BE TAKEN IN CASE OF AN EMERGENCY. ALL OUTAGES SHALL BE IN WRITING, FULLY COORDINATED AND APPROVED BY THE AIRPORT AUTHORITIES. ALL OUTAGES SHALL BE SCHEDULED AT LEAST 72 HOURS IN ADVANCE. UTILITY OUTAGES/INTERRUPTIONS WILL NORMALLY BE SCHEDULED BETWEEN THE HOURS OF 12:00 PM AND 4:00 AM, TUESDAY THROUGH THURSDAY.

## SHEET NOTES

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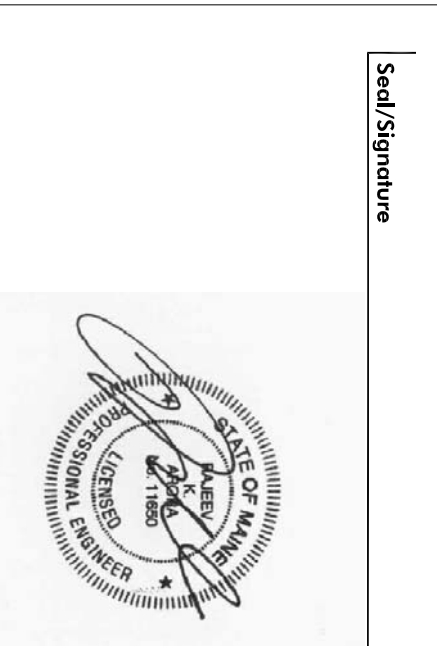
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Issue	Date & Issue Description	By	Check
145	09/10/11	SJB	RAJ
	ISSUED FOR CONSTRUCTION		



Project Name  
PWM TERMINAL EXPANSION

Project Number

Contract Name

MIF00.00

Description

MUFIDS AND COMMON USE

GENERAL NOTES

Scale

As Indicated

MIF00.00

GENERAL NOTES

SCALE: NOT TO SCALE

## KEY PLAN

1

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## SHEET NOTES

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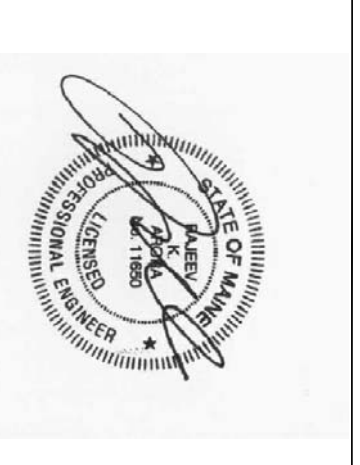
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Project Name	PMVA Terminal Expansion
Client Name	MURO 01
Contract Number	
Drawn By	SA
Checked By	SA
Designation	
Discipline	
Notes	
As Indicated	



Signed

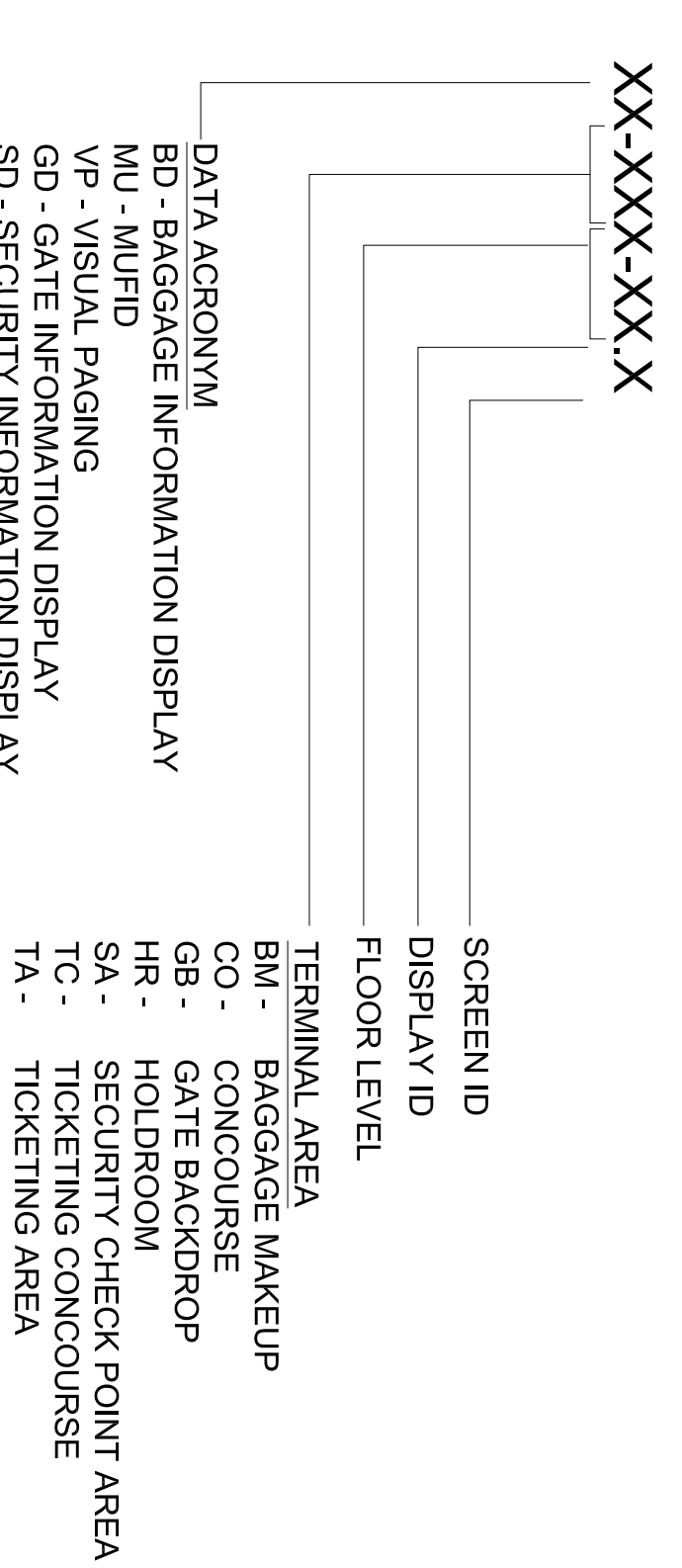
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145 09/01/11 ISSUED FOR CONSTRUCTION SB SA

**MF00.01**  
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## SYMBOLS LEGEND:

- ▷ DUPLEX TVSS RECEPTACLE (MOUNTED WITHIN MILLWORK/CENOSURE OR WALL MOUNTED): NEMA 5-20R, 20A
- ▷ DUPLEX TVSS RECEPTACLE (MOUNTED WITHIN MILLWORK/CENOSURE OR WALL MOUNTED): NEMA 5-20R, 20A, 125V
- ▷ DUPLEX TVSS RECEPTACLE (NEMA 5-20R, 20A, 125V)
- ▷ CEILING QUADRUPLEX TVSS RECEPTACLE: NEMA 5-20R, 20A, 125V
- ▷ SPECIAL PURPOSE RECEPTACLE: NEMA CONFIGURATION AS NOTED
- ▷ EXISTING POWER FLOOR BOX (PROVIDED UNDER INTERIOR FINISH UPGRADES PROJECT)
- ▷ EXISTING DATA FLOOR BOX (PROVIDED UNDER INTERIOR FINISH UPGRADES PROJECT); X INDICATES # OF NEW DATA FLOOR BOXES
- ▷ 3/4" DATA OUTLET (CEILING MOUNTED); X INDICATES THE # OF CAT6 DROP'S
- ▷ JUNCTION BOX
- ▷ ELECTRICAL PANELBOARD (TYPE AS NOTED)
- ▷ TRANSFORMER, TYPE AS NOTED
- ▷ AUTOMATIC TRANSFER SWITCH
- ▷ MOTOR CONTROL PANEL
- ▷ TELECOM CABINET; XX INDICATES RACK NUMBER
- ||||||||| CABLE TRAY
- MIC STATION (REUSE EXISTING), ROUTE NEW TACS CABLE (WEST PENN 254488 OR APPROVED EQUAL) TO LED
- ▷ RELOCATION INFORMATION CONSULE
- ▷ BAR CODE READER
- ▷ UNINTERRUPTIBLE POWER SUPPLY
- ▷ BOARDING GATE READER
- ▷ BOARDING PASS PRINTER
- ▷ BAG TAG PRINTER
- ▷ DOCUMENT PRINTER
- ▷ VOIP TELEPHONE
- ▷ INTEGRATED KEBBOARD
- ▷ EXISTING LED SCREEN TO BE REMOVED
- ▷ EXISTING BAGGAGE INFORMATION DISPLAY SCREEN TO BE REMOVED
- ▷ EXISTING TELEVISION SCREEN TO BE REMOVED
- ▷ DARK LINEWEIGHT INDICATES NEW WORK OR RELOCATED ITEM IN NEW LOCATION
- ▷ DARK AND DASHED LINEWEIGHT INDICATES DEMOLITION WORK OR ITEM TO BE RELOCATED
- ▷ LIGHT LINEWEIGHT INDICATES EXISTING WORK TO REMAIN
- ▷ BRANCH CIRCUIT HOMERUN, ARROW DESIGNATES DIRECTION OF PANELBOARD, NUMBER DESIGNATES CIRCUIT NUMBER, LETTERS DESIGNATES PANEL ID LABEL

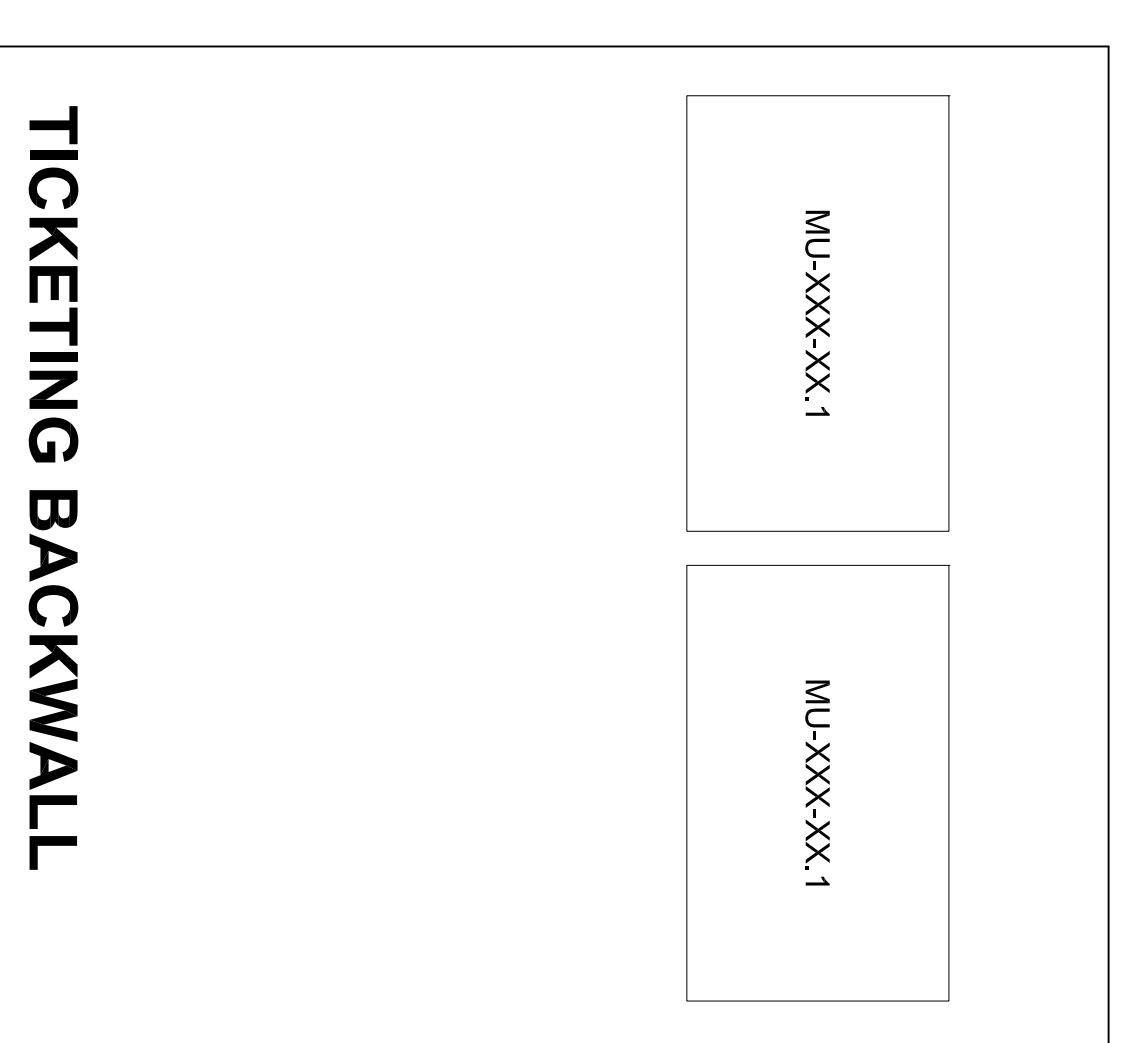
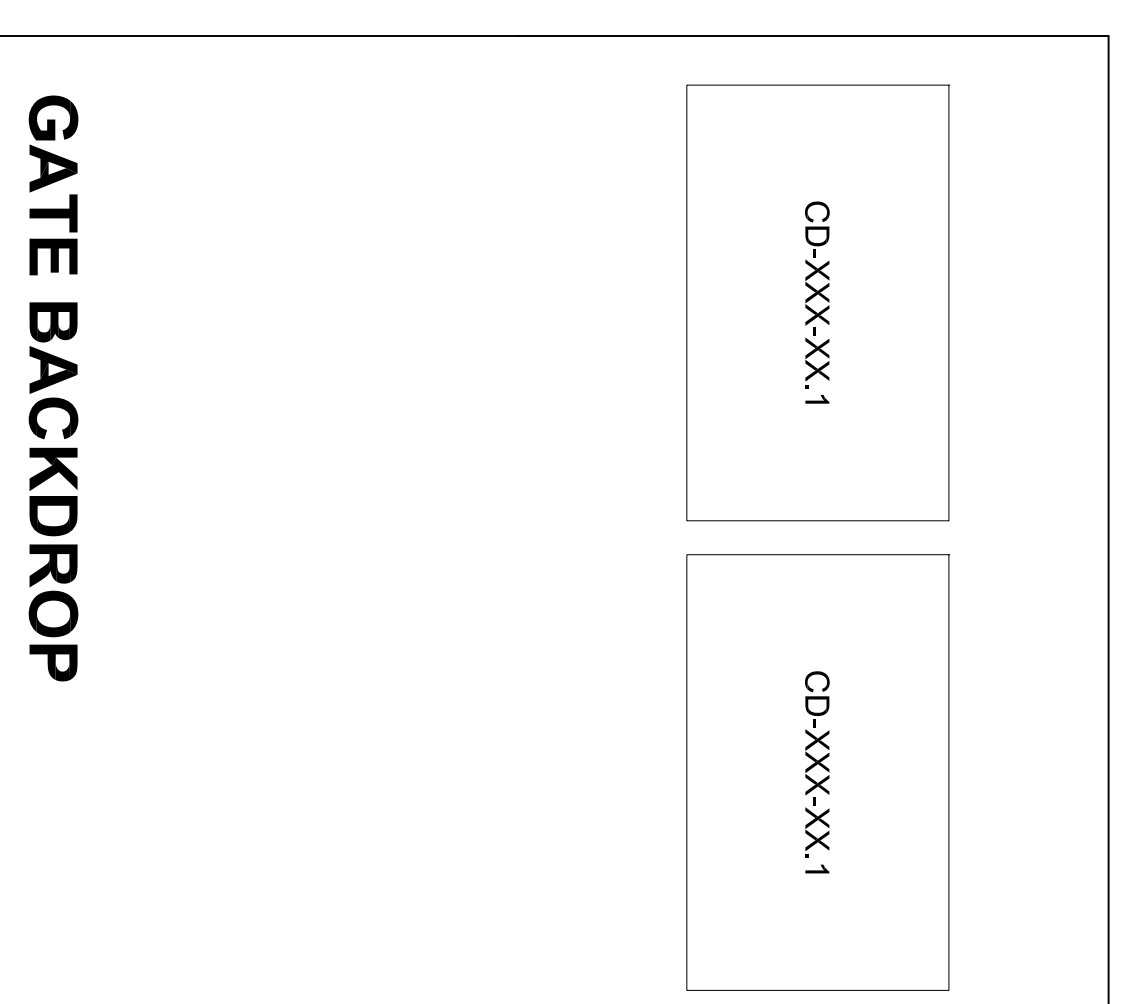
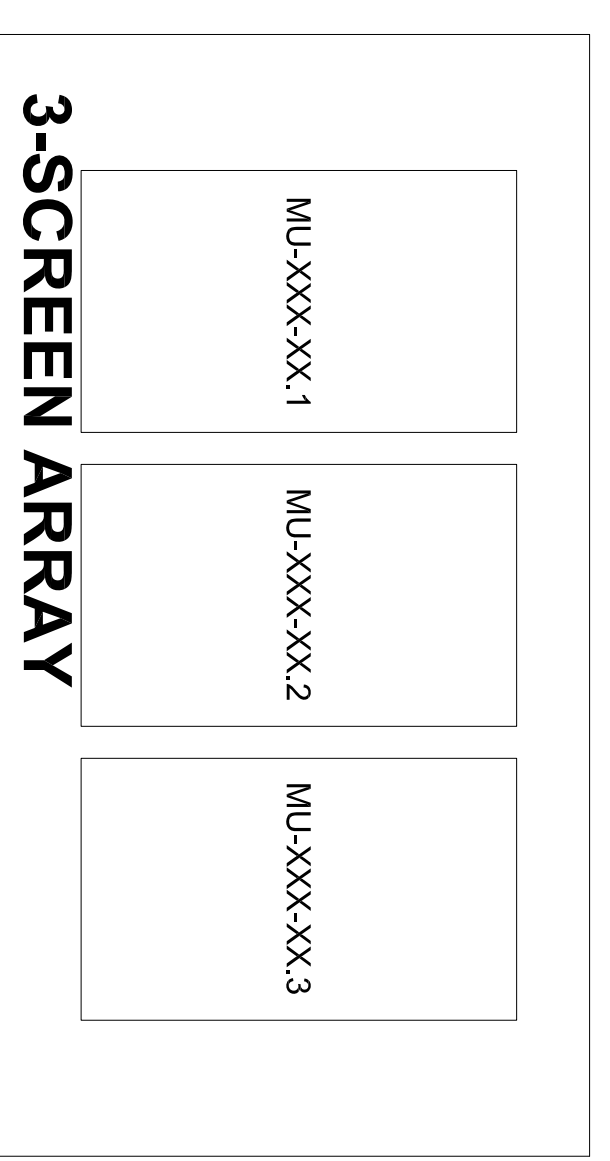
## KEY TO DEVICE IDENTIFICATION:



## ABBREVIATIONS:

A AMPERES	PT POTENTIAL TRANSFORMER
AC ALTERNATING CURRENT OR ARMORED CABLE	RMS RIGID METAL CONDUIT
ACT ACCUSTICAL CEILING TILE	RES RESOURCE MANAGEMENT SYSTEM
AF AMPERES FRAME	RNC RIGID NON-METALLIC CONDUIT
AFCI AFCI FAULT CIRCUIT INTERRUPTER	RKX RECEIVER
AFF ABOVE FINISHED FLOOR	SCOR SHORT CIRCUIT CURRENT RATING
AFG ABOVE FINISHED GRADE	SIC SIGNALING LINE CIRCUIT
AFC AMPERES INTERRUPTING CAPACITY	SMR SURFACE METAL RACEWAY
AIMS AIRPORT INFORMATION MANAGEMENT SYSTEM	SISP SUPERSEDED
AIR AMPERES INTERRUPTING RATING	SYM SYMBOLICAL
AODB AIRPORT OPERATIONAL DATABASE	TBD TO BE DETERMINED
APP AMPERES RATING PLUG	TDE TIME DELAY DUAL ELEMENT (FUSES)
AS AMPERES SENSOR	TDOE TOP OF
AT AMPERES, TRIP	TSA TELEVISION
ATC AUTOMATIC TEMPERATURE CONTROL	TX TRANSMITTER
ATS AUTOMATIC TRANSFER SWITCH	TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
AVG AMERICAN WIRE GAUGE	UN UNLESS OTHERWISE NOTED
BC BAGGAGE CLAIM	V VOLTS
BID BAGGAGE INFORMATION DISPLAY	VERT VERTICAL(LY)
BO BOTTOM OF	VERIF IN FIELD
BKR BREAKER	VIF VOICE OVER IP
BRK BREAKER	VOP VOICE OVER PACKET
C CIRCUIT	VP VISUAL PAGING
CLG CEILING MOUNTED	VT VOLTAGE TRANSFORMER
CLR CLEAR	VW VIDEO WALL
CM CONSTRUCTION MANAGER	WI WITH
COL COLUMN	WG WIRE GUARD
CONC CONCRETE	WF WEATHERROOF
CT CURRENT TRANSFORMER	WP TRANSFORMER
CLASS COMMON USE SELF SERVICE	XFER IMPEDANCE
CLUTE COMMON USE TERMINAL EQUIPMENT	Z EXISTING WORK TO REMAIN
DC DIRECT CURRENT	(E) EXISTING WORK TO BE REMOVED AND
DVC DIGITAL VIDEO CONTROLLER	(ER) RELOCATED/REPLACED UNDER THIS CONTRACT
DVI DIGITAL VIDEO INTERFACE	(N) NEW WORK
EC ELECTRICAL CONTRACTOR	(R) DEMOLITION/REMOVAL WORK TO BE PROVIDED
EM EMERGENCY	UNDER THIS CONTRACT
EMT ELECTRICAL METALLIC TUBING	(RE) RELOCATED/REPLACED EXISTING WORK (UNDER THIS CONTRACT), SHOWN AT FINAL POST-CONSTRUCTION LOCATION
EPO EMERGENCY POWER OFF	
FIDS FLIGHT INFORMATION DISPLAY SYSTEM	
FM FLEXIBLE METAL FIBER	
FMC FLEXIBLE METAL CONDUIT	
FO FIBER OPTIC	
FOPP FIBER OPTIC PATCH PANEL	
FS SINGLE-MODE FIBER	
GC GENERAL CONTRACTOR	
GFCI OR GF GROUND FAULT CIRCUIT INTERRUPTER	
GMI GATE MANAGEMENT	
GND GROUND	
GRS GALVANIZED RIGID STEEL	
GT GROUND TRANSPORTATION	
GWB GYPSUM WALL BOARD	
HORIZ HORIZONTAL(LY)	
HZ HERTZ	
JB JUNCTION BOX	
KA KILO AMPERES	
KO KILOHM	
KVA KILO VOLT AMPERES	
KW KILO WATTS	
L LANDSCAPE	
LCP LIGHTING CONTROL PANEL	
LDOS LOCAL DEPARTURE CONTROL SYSTEM	
LED LIGHT EMITTING DIODE	
LFMC LIQUIDLIGHT FLEXIBLE METAL CONDUIT	
LS LIGHTING STANDARD	
MCA MINIMUM CIRCUIT AMPACITY	
MCB MAIN CIRCUIT BREAKER	
MIN MINIMUM	
MLO MAXIMUM OVERCURRENT PROTECTION	
MOPP MAXIMUM OVERCURRENT PROTECTIVE DEVICE	
MTR MOTOR	
MUFU MULTI-USER FLIGHT INFORMATION DISPLAY	
NEC NATIONAL ELECTRIC CODE	
NIC NOT IN CONTRACT	
NTS NOT TO SCALE	
OVHD OVERHEAD	
P POLE(S)	
PH, Ø PHASE	
POE POWER OVER ETHERNET	
PORT PORTRAIT	

## KEY PLAN

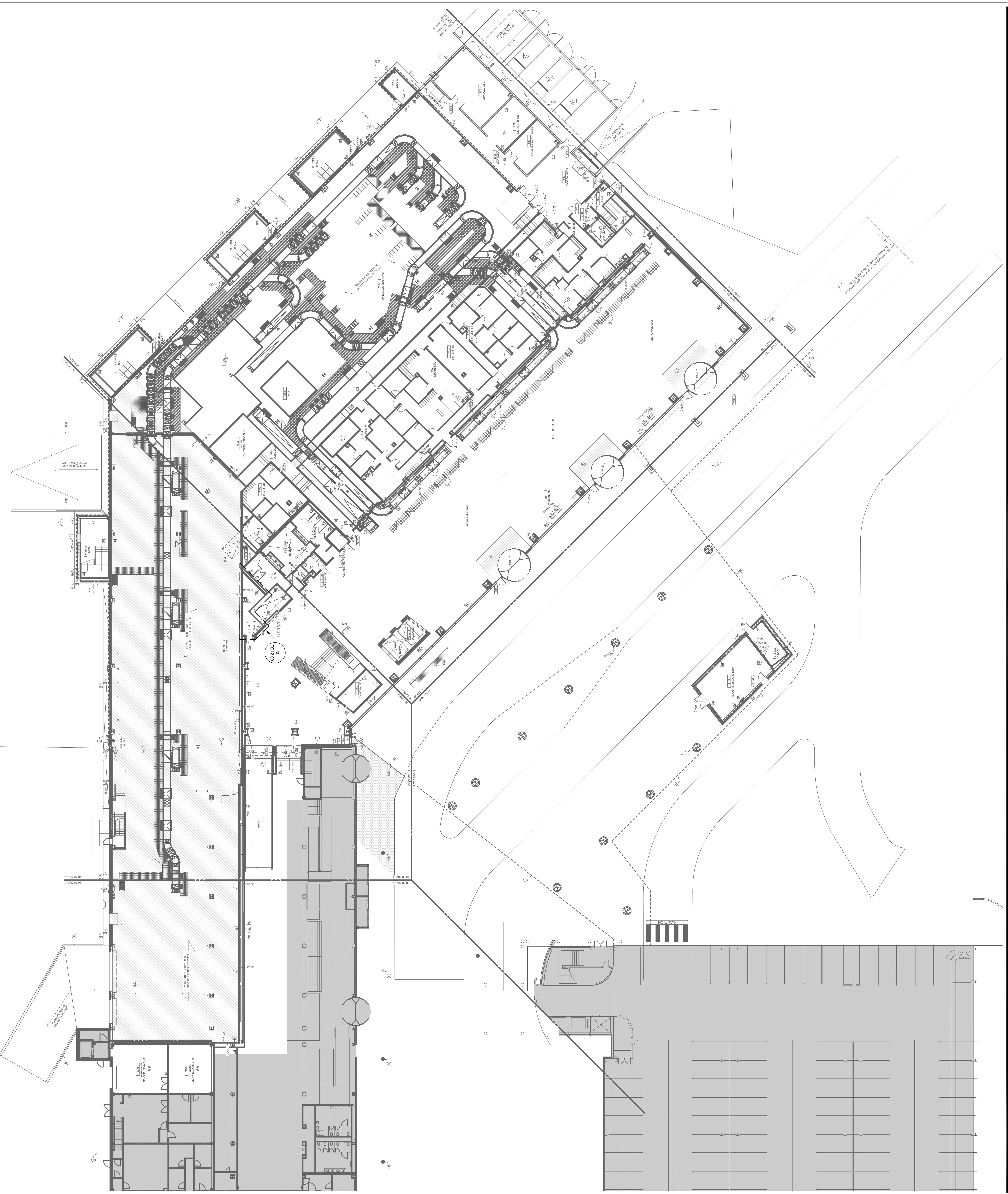




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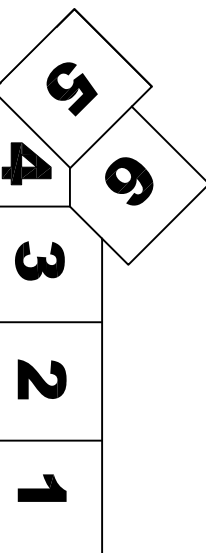
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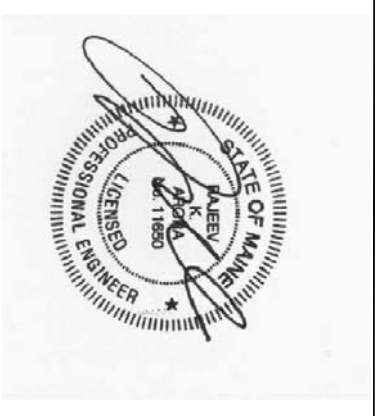
LEVEL 2 TELECOM AND ELECTRICAL ROOM LOCATIONS

SCALE: 1/16"=1'-0"

KEY PLAN



Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RKA



Project Name: PAVILION TERMINAL EXPANSION

Project Number: \_\_\_\_\_

Client Name: \_\_\_\_\_

Project Location: \_\_\_\_\_

MF00.02.00

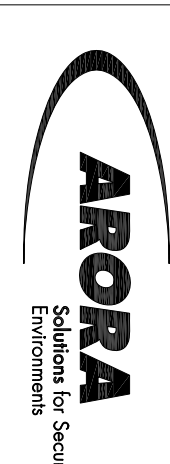
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Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RKA

Project Name: **PWM TERMINAL EXPANSION**

Contract Number: \_\_\_\_\_

CDM RA Name: \_\_\_\_\_

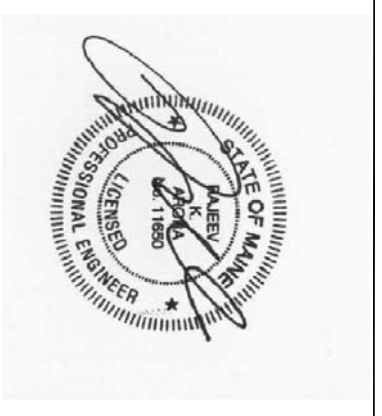
Job No: **MFO0.03.00**

Discipline: **MURS AND COMMON USE**

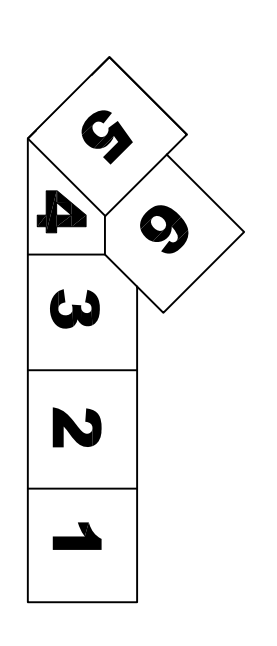
Overall Team - (BIB.3) - **TELECOM AND ELECTRICAL ROOM LOCATIONS**

Scale: \_\_\_\_\_

As Indicated

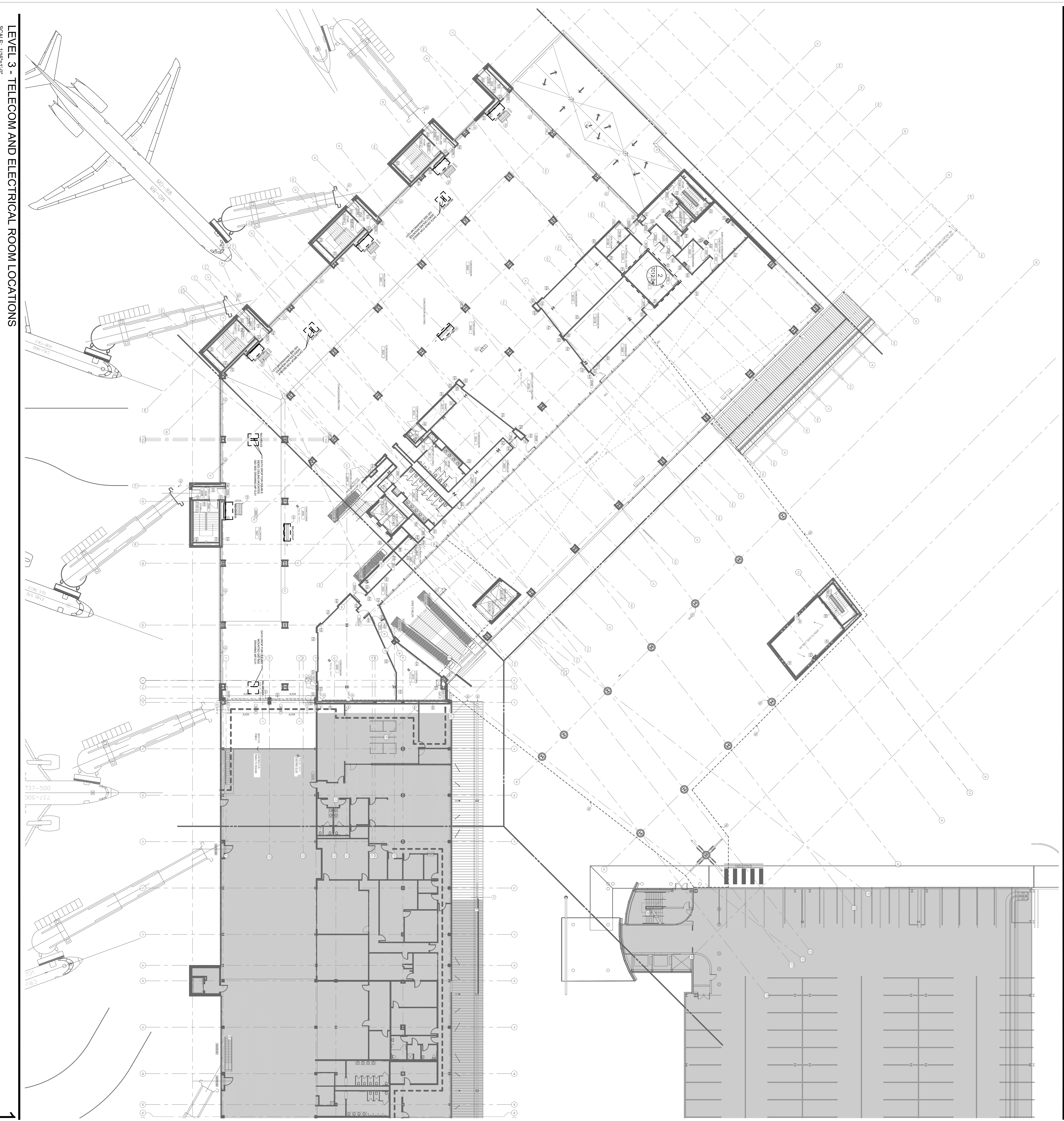


**KEY PLAN**



**MFO0.03.00**

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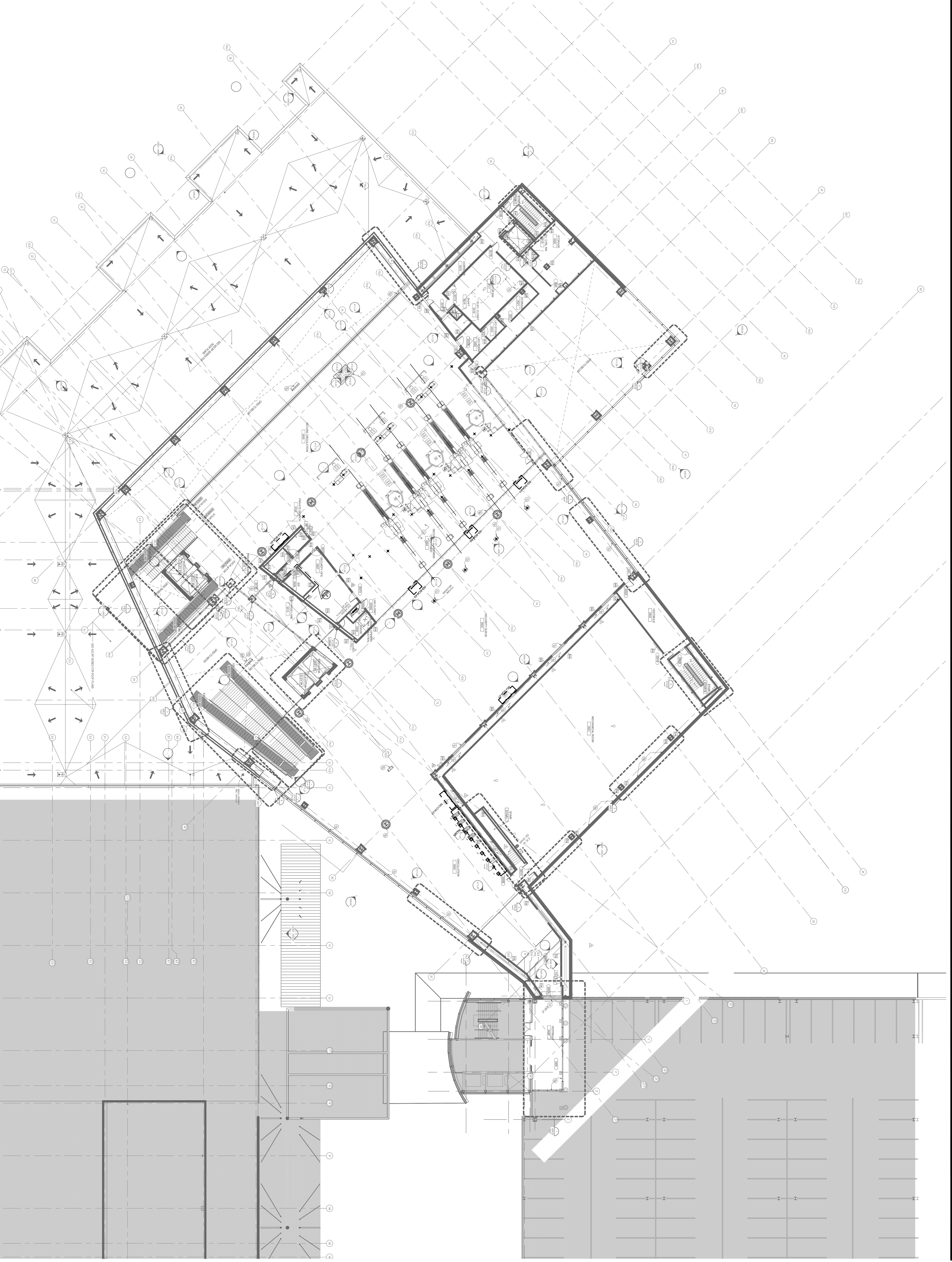
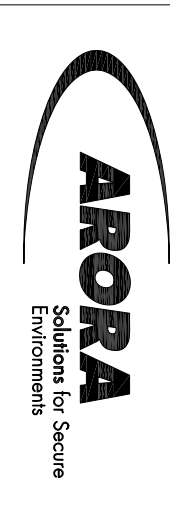


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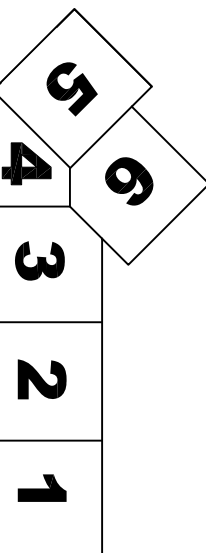
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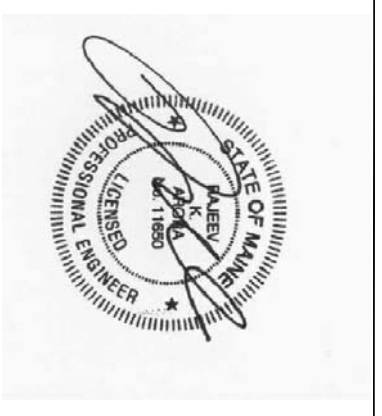
Arona Engineers, Inc.  
61 Wilmington - West Chester  
Suite #100  
Charles Ford PA 19317  
Telephone: 610.459-7950  
Facsimile: 610.459-7959



KEY PLAN



Date & Issue Description	By	Check
145 09/01/11 ISSUED FOR CONSTRUCTION	SJB	RKA



Project Name  
PJM TERMINAL EXPANSION

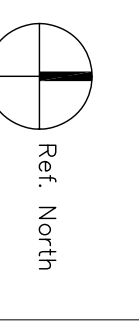
Project Number  
10000.04.00

Client Name  
MURS AND COMMON USE

Overall Plan - LEVEL 4 - TELECOM & ELECTRICAL ROOM LOCATIONS

Scale  
As Indicated

MF00.04.00





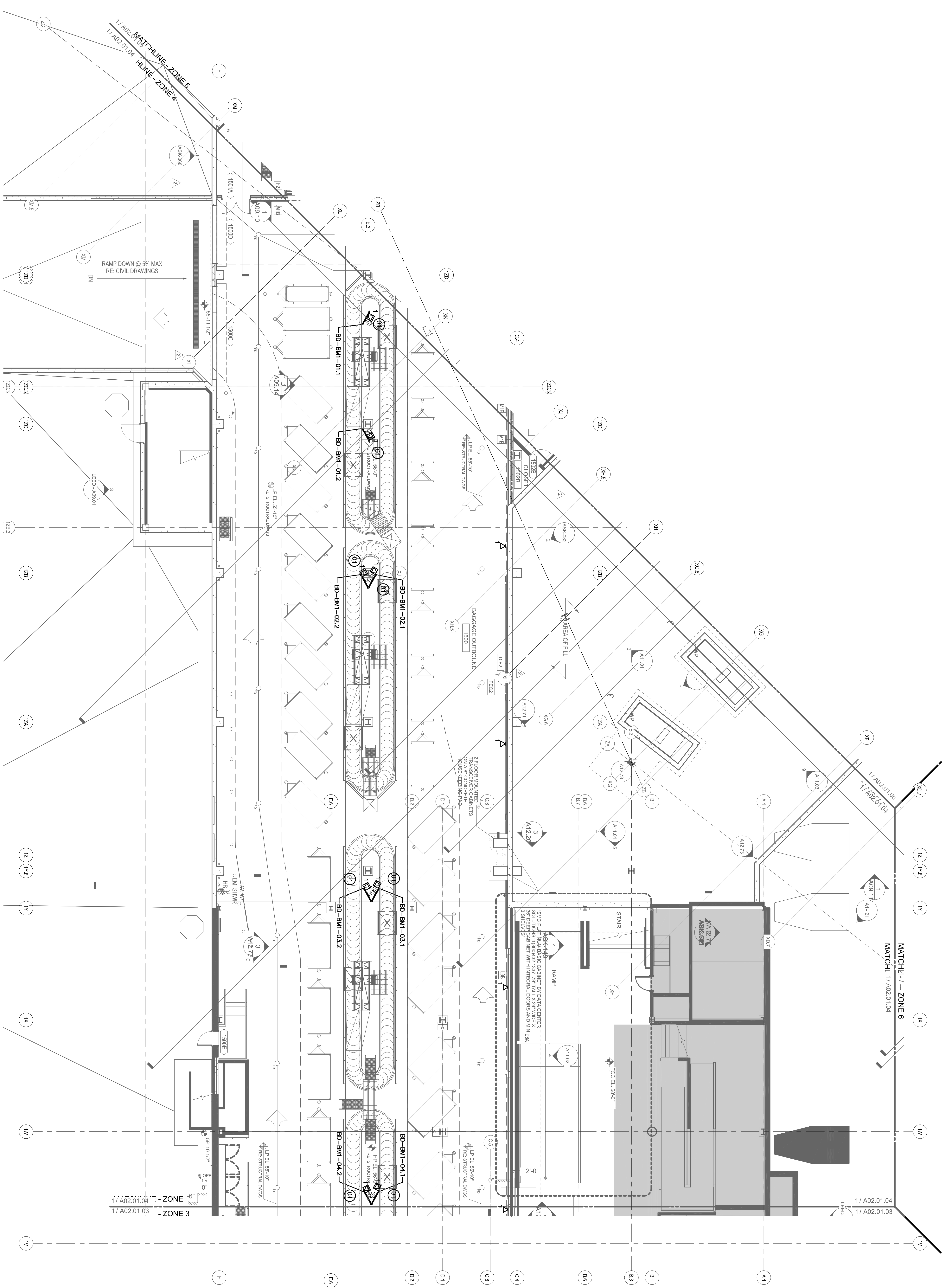
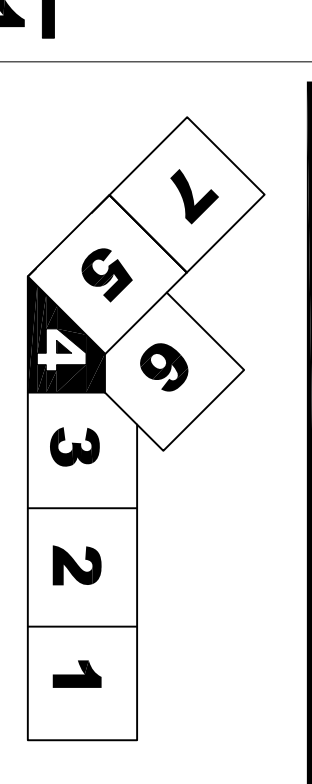
**SHEET NOTES**

- (10) CONTRACTOR TO PROVIDE ASSEMBLY TO HOUSE FOR EACH ENVIRONMENT ENCLOSURE. 40" LOC SCREEN, A NEMA 3 TYPE ENCLOSURE WITH 1/2" THICK WALLS, 1/2" THICK TOP AND BOTTOM FLANGES, 1/2" THICK CURTS, AND A 20 AMP QUAD BOX AND CIRCUIT. PRIOR TO CUSTOMIZING ASSEMBLY, SHOP DRAWINGS MUST BE ENGINEER/ARCHITECT FOR STRUCTURAL, ELECTRICAL, AND ARCHITECTURAL ACCEPTANCE AND MEANS AND METHODS. CONSULTATION MANAGER AND CONTRACTOR TO VERIFY LOCATION AND MOUNTING PRIOR TO INSTALLATION. REFER TO MF12.20 FOR FURTHER INFORMATION. POWER AND DATA ROUTING TO BE INSTALLED BY OTHERS.

**GENERAL NOTES**

- A REFER TO DRAWING T000.00 FOR DEMOLITION NOTES.
- B ALL CONDUITS FOR DATA SHALL BE RUN IN CONDUIT RACEWAYS. THESE SHALL BE RUN EXPOSED UNLESS OTHERWISE NOTED AND PERPENDICULAR TO BUILDING LINES AND PAINTED TO MATCH. LOCATION OF NEW DATA OUTLETS SHALL BE INSTALLED AT THE DRAWINGS AND SCHEDULES. ALL NEW PENETRATIONS OF CONDUITS THROUGH WALLS AND FLOOR SLABS SHALL BE SIZED AND PROPERLY FINISHED. CONTRACTOR SHALL VERIFY AND FIRE STOPPING MATERIAL. CONTRACTOR SHALL REPLACE ANY CEILING TILES DAMAGED BY WORK OF THIS CONTRACT.
- C CONTRACTOR SHALL CORE DRILL, 1/4" PILOT HOLE PRIOR TO CORE DRILLING. CONTRACTOR SHALL TAKE PRECAUTIONS AS TO PROTECT AREA BENEATH CORE AS TO PREVENT DAMAGE TO FINISHES. THIS AREA IN ORDER TO CATCH CORE AND WATER THAT MAY ENTER AREA BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- D LOCATION OF DATA OUTLETS ARE FOR REPRESENTATION PURPOSES ONLY AND DO NOT DENOTE EXACT LOCATION. CONTRACTOR SHALL VERIFY DATA OUTLETS ADJACENT TO NEW MONITORS/SCREENS/DVCS AS REQUIRED AND MUST BE APPROVED BY THE ENGINEER.
- E E.C. SHALL PROVIDE DETAILED SHOP DRAWINGS (SIGNED AND SEALED BY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE) FOR SUPPLEMENTAL STUDY (SUPPORT) MOUNTING BRACKET ASSEMBLY/SUPPORTS REQUIRED TO MOUNT MONITORS/SCREENS AT ALL OTHER LOCATIONS. REFER TO SPECIFICATION MANUAL FOR MORE INFORMATION.
- F PRIOR TO INSTALLATION OF NEW SCREENS/DVCS/LV/MONITORS AND FDS BANKS, THE E.C. SHALL VERIFY EXACT LOCATION OF ALL DATA OUTLETS AND THE ENGINEER. CONTRACTOR SHALL SCHEDULE COORDINATION WALK-THRU WITH PVM/ENGINEER AS REQUIRED.
- G CONDUIT PATHWAY ROUTES ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR TO FIELD VERIFY THE EXACT ROUTE.
- H ALL COMMUNICATIONS CABLES SHALL BE CONCEALED IN CONDUIT AND SIZED ACCORDINGLY. NOT TO EXCEED THE 40% MAXIMUM FILL. SEE CONDUIT CAPACITY CHART ON DRAWING T000.01.
- I ALL VOICE AND DATA CABLEING SHALL TERMINATE IN THE MPE OR IDF ROOM AS INDICATED ON DRAWINGS T12.18 AND T012.06.
- J ADD AND SIZE JUNCTION BOXES AT CONDUIT INTERSECTIONS PER NEC 314 AND TALKER STANDARDS FOR BED PADDIS.

**KEY PLAN**



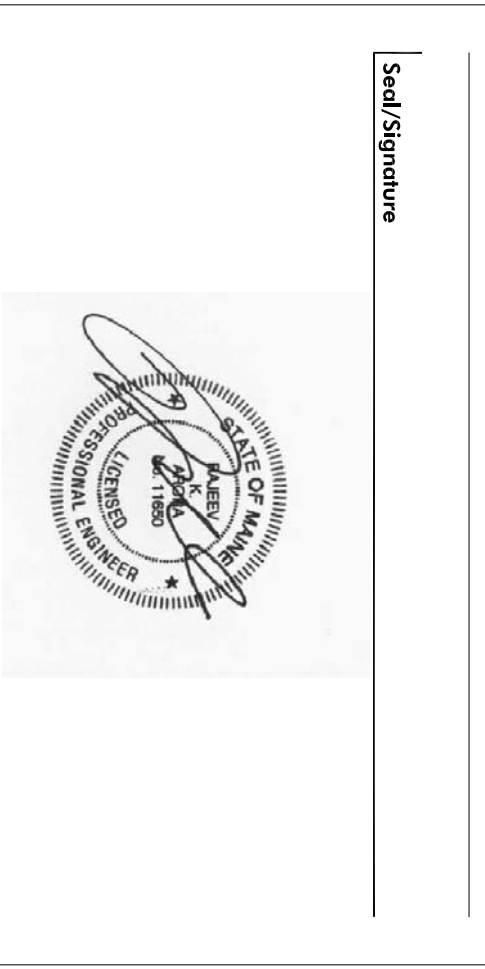
LEVEL 1 - ZONE 4  
SCALE: 1/8"=1'-0"

**Portland International Jetport**  
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Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RAK



Project Name: **PVM TERMINAL EXPANSION**  
 Contract Number: **14502.01.04**  
 CAD File Name: **CONSTRUCTION PLAN - LEVEL 1 - ZONE 4**  
 Date: **As Indicated**

**MF02.01.04**  
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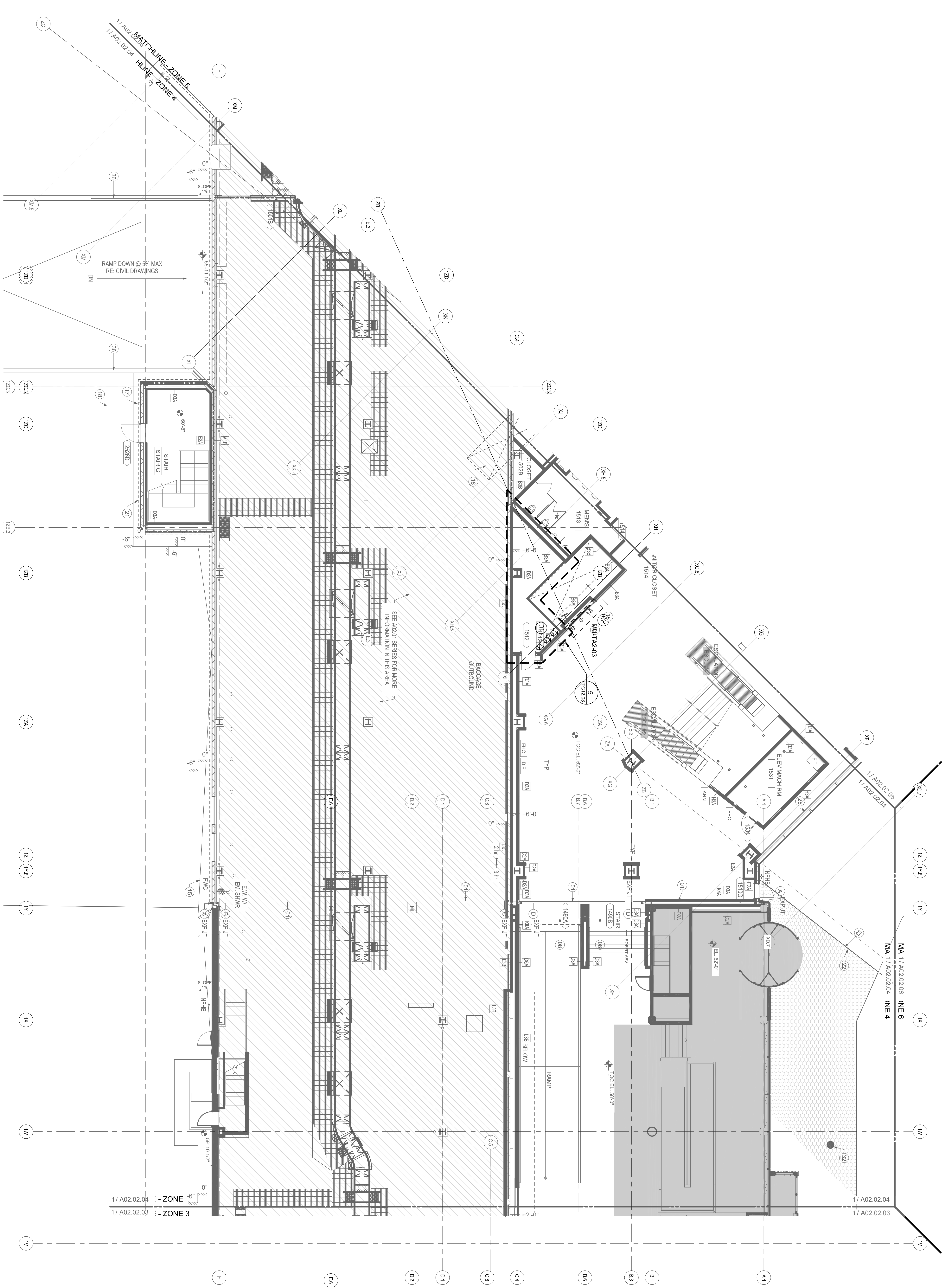
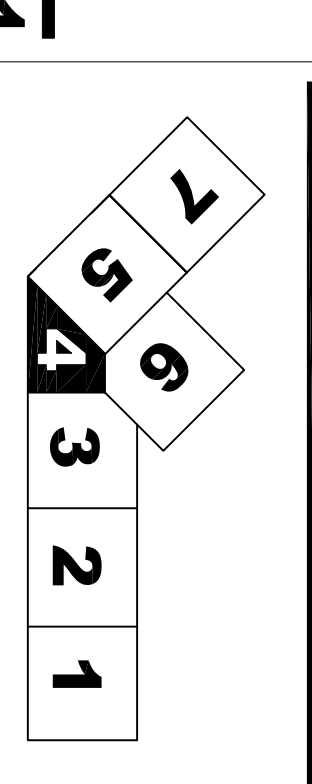
**SHEET NOTES**

- 10 CONTRACTOR TO PROVIDE NEMA 3R LOCKABLE HOFFMAN BOX. BOX SHOULD CONTAIN 3 DVC COMPUTERS, 20 AMP 400V BREAKER, 20 AMP 120V BREAKER, AND 40 AMP BREAKER. THE HOFFMAN BOX WILL BE FED FROM LOCATION SPECIFIED FOR THE HOFFMAN ENCLOSURE TO THE INPUTS OF THREE SCREENS LOCATED AT THE LOCATION SPECIFIED. THE CIRCUIT FOR THE DESCRIBED BANK WILL BE SHARED BY THIS QUAD CIRCUIT. REFER TO MF-220 FOR FURTHER INFORMATION.
- 12 EACH SCREEN WILL HOUSE A DUPLEX RECEPTACLE BEHIND EACH SCREEN LOCATION. CIRCUIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR.

**GENERAL NOTES**

- A REFER TO DRAWING T000.00 FOR DEMOLITION NOTES.
- B ALL CONDUITS FOR DATA SHALL BE RUN IN CEILING. THESE SHALL BE RIM EXPOSED SHALL BE RIM CUT OFF AND PERPENDICULAR TO BUILDING LINES AND PAINTED TO MATCH. LOCATION OF NEW DATA OUTLETS SHALL BE INSTALLED AT THE DRAWINGS AND SCHEDULES ON ALL NEW PENETRATIONS OF CONDUITS THROUGH WALLS AND FLOOR SLABS SHALL BE SIZED AND PROPERLY FINISHED. CONTRACTOR SHALL VERIFY FIRE STOPPING MATERIAL. CONTRACTOR SHALL REPLACE ANY CEILING TILES DAMAGED BY WORK OF THIS CONTRACT.
- C CONTRACTOR SHALL CORE DRILL, 1/4" PILOT HOLE PRIOR TO CORE DRILLING. CONTRACTOR SHALL TAKE PRECAUTIONS AS TO PROTECT AREA BENEATH CORE AS TO PROTECT CORE. CONTRACTOR SHALL TAKE PRECAUTIONS TO CATCH CORE AND WATER THAT MAY ENTER AREA BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- D LOCATION OF DATA OUTLETS ARE FOR REPRESENTATION PURPOSES ONLY AND DO NOT DENOTE EXACT LOCATION. CONTRACTOR SHALL VERIFY DATA OUTLETS ADJACENT TO NEW MONITORS/SCREENS/DVC'S AS REQUIRED AND MUST BE APPROVED BY THE ENGINEER.
- E E.C. SHALL PROVIDE DETAILED SHOP DRAWINGS (SIGNED AND SEALED BY PROFESSIONAL ENGINEER LICENSED IN MAINE) FOR SUPPLEMENTAL STUDY CURIAL, MOUNTING BRACKET ASSEMBLY/SUPPORTS REQUIRED TO MOUNT MONITORS/SCREENS AT THE LOCATION SPECIFIED. ALL OTHER CEILING/OVERHEAD STRUCTURE MOUNTING LOCATIONS, REFER TO SPECIFICATION MANUAL FOR MORE INFORMATION.
- F PRIOR TO INSTALLATION OF NEW SCREENS/DVC'S/MONITORS AND FDS BANKS, THE E.C. SHALL VERIFY EXACT LOCATION OF ALL SCREENS/DVC'S AND THE ENGINEER. CONTRACTOR SHALL SCHEDULE COORDINATION WALK-THRU WITH P/ME/ENGINEER AS REQUIRED.
- G CONDUIT PATHWAY ROUTES ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR TO FIELD VERIFY THE EXACT ROUTE.
- H ALL COMMUNICATIONS CABLES SHALL BE CONCENTRICALLY CONDUIT AND SIZED ACCORDINGLY. NOT TO EXCEED THE 40% MAXIMUM FILL. SEE CONDUIT CAPACITY CHART ON DRAWING T000.01.
- I ALL VOICE AND DATA CABLES SHALL TERMINATE IN THE MPE OR IDF ROOM AS INDICATED ON DRAWINGS T12.05 AND T12.06.
- J ADD AND SIZE JUNCTION BOXES AT CONDUIT INTERSECTIONS PER NEC 314 AND TIA/EIA STANDARDS FOR RED RADIUS.

**KEY PLAN**



**LEVEL 2 - ZONE 4**

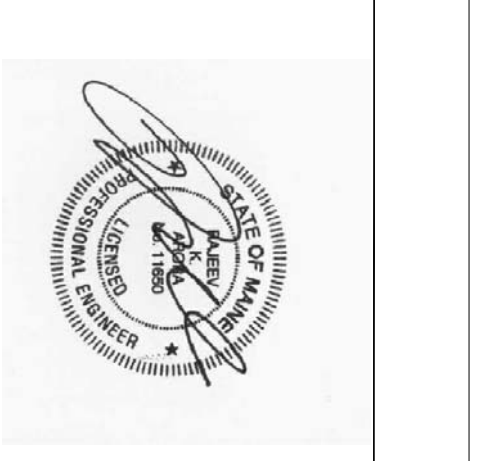
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**Project Name:** P/ME TERMINAL EXPANSION  
**Project Number:** 145  
**Contract Number:** 155809 FOR CONSTRUCTION  
**Revision:** 145 09/01/11  
**Drawn By:** SJB RJA  
**Checked By:** SJB RJA  
**Date:** 09/01/11  
**Scale:** AS INDICATED



**MF02.02.04**

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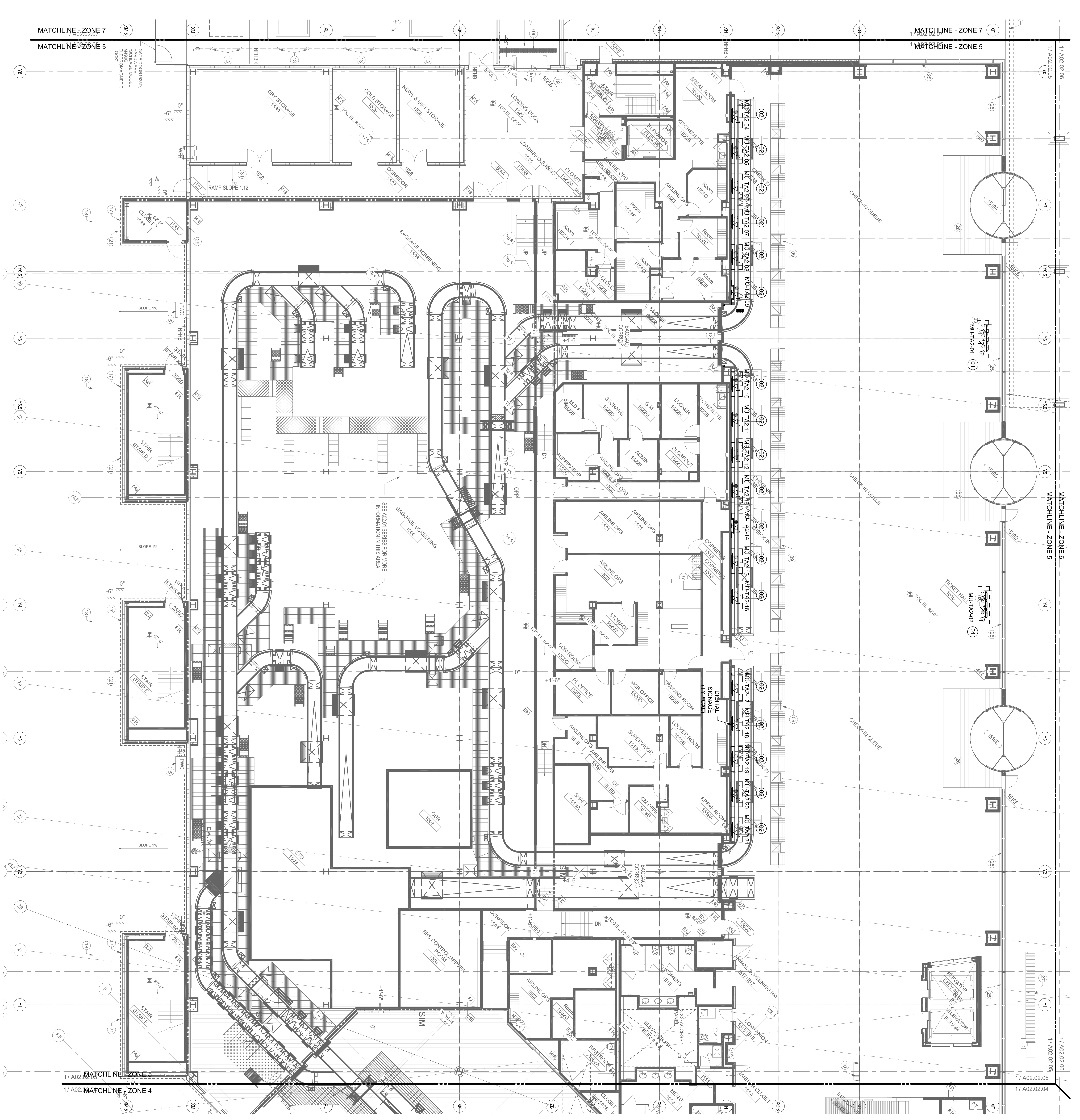
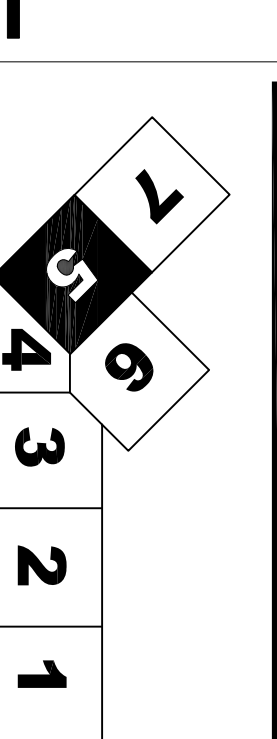
**SHEET NOTES**

- 01 DVC COMPUTER, 20 AMP QUAD RECEPTACLE FOR POWER, AND ONE 4 PORT DATA DUPLEX WILL BE CONTAINED IN GROUND MOUNTED WITH HORIZONTAL FROM THIS LOCATION TO THE INPUTS OF THREE MURFAZ01 AND MURFAZ02 BANK MURFAZ01 AND MURFAZ02 BANK MURFAZ01 AND MURFAZ02 RECEPTACLE BEHIND EACH SCREEN LOCATION CONTRACTOR DATA CIRCUIT TO BE INSTALLED UNDER THIS BID ITEM.
- 02 CONTRACTOR TO MOUNT 48" SOSSOR MOUNT APPLICATION TO THE LOCATION SPECIFIED. ALL DVC COMPUTERS, QUAD BE CONGEALED AND BEHIND THE REZEL OF THE LCD SCREEN WITH A MAXIMUM CLEARANCE OF TEN INCHES FROM THE WALL. THE ELECTRICAL CONTRACTOR ASSOCIATED EQUIPMENT PER 20 AMP CIRCUIT MAXIMUM. CONTRACTOR TO PROVIDE SHOP DRAWINGS ON TYPICAL CONDUIT RUN FROM THE STATION OF MOUNTING TO THE LOCATION OF MOUNTING FOR CONDUIT PATH TO SCREENS FROM MOUNTING. REFER TO MF-220 FOR FURTHER INFORMATION.

**GENERAL NOTES**

- 01 REFER TO DRAWING T000.00 FOR DEMOLITION NOTES.
- 02 ALL CONDUITS FOR DATA SHALL BE RUN IN CONDUIT. THESE SHALL BE RUN EXPOSED IN THE PLUMBING AND PERPENDICULAR TO BUILDING LINES AND PAINTED TO MATCH. LOCATION OF NEW DATA OUTLETS SHALL BE INSTALLED AT ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND FLOOR SLABS SHALL BE STEEVED AND PROPERLY SUPPORTED. CONTRACTOR TO VERIFY ALL FIRE STOPPING MATERIAL, CONTRACTOR SHALL REPLACE ANY CEILING TILES DAMAGED BY WORK OF THIS CONTRACT.
- 03 CONTRACTOR SHALL CORE DRILL, 14" PILOT HOLE PRIOR TO CORE DRILLING. CONTRACTOR SHALL TAKE PRECAUTIONS AS TO PROTECT AREA BENEATH CORE AND SHALL BE RESPONSIBLE FOR PROTECTING THIS AREA IN ORDER TO CATCH CORE AND WATER THAT MAY ENTER AREA BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- 04 LOCATION OF DATA OUTLETS ARE FOR REPRESENTATION PURPOSES ONLY AND DO NOT DENOTE EXACT LOCATION. CONTRACTOR SHALL VERIFY DATA OUTLETS ADJACENT TO NEW MONITORS/SCREENS/DVC'S AS REQUIRED AND MUST BE APPROVED BY THE ENGINEER.
- 05 E.C. SHALL PROVIDE DETAILED SHOP DRAWINGS (SIGNED AND SEALED BY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE) FOR SUPPLEMENTAL STUDY (SUPPORT) MOUNTING BRACKET ASSEMBLY/SUPPORTS REQUIRED TO MOUNT MONITORS/SCREENS AT ALL OTHER CEILING/OVERHEAD STRUCTURE MOUNTING LOCATIONS. REFER TO SPECIFICATION MANUAL FOR MORE INFORMATION.
- 06 PRIOR TO INSTALLATION OF NEW SCREENS/DVC'S/MONITORS AND FDS BANKS, THE E.C. SHALL VERIFY EXACT LOCATION OF ALL SCREENS/DVC'S AND THE ENGINEER. CONTRACTOR SHALL SCHEDULE COORDINATION WALK-THRU WITH PWS/ENGINEER AS REQUIRED.
- 07 CONDUIT PATHWAY ROUTES ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR TO FIELD VERIFY THE EXACT ROUTE.
- 08 ALL COMMUNICATIONS CABLES SHALL BE CONCEALED IN CONDUIT AND SIZED ACCORDINGLY. NOT TO EXCEED THE 40% MAXIMUM FILL. SEE CONDUIT CAPACITY CHART ON DRAWING T000.01.
- 09 ALL VOICE AND DATA CABLEING SHALL TERMINATE IN THE MPE OR IDF ROOM AS INDICATED IN DRAWINGS T12.05 AND T012.06.
- 10 ADD AND SIZE JUNCTION BOXES AT CONDUIT INTERSECTIONS PER NEC 314 AND TALEN STANDARDS FOR BED RADIUS.

**KEY PLAN**



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Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RAK

Project Name: **PWM TERMINAL EXPANSION**  
 Contract Number: **1402.02.05**  
 Revision: **CONSTRUCTION PLAN - LEVEL - ZONE 5**

Scale: **As Indicated**

Legend:  
 [Symbol] North

**MF02.02.05**  
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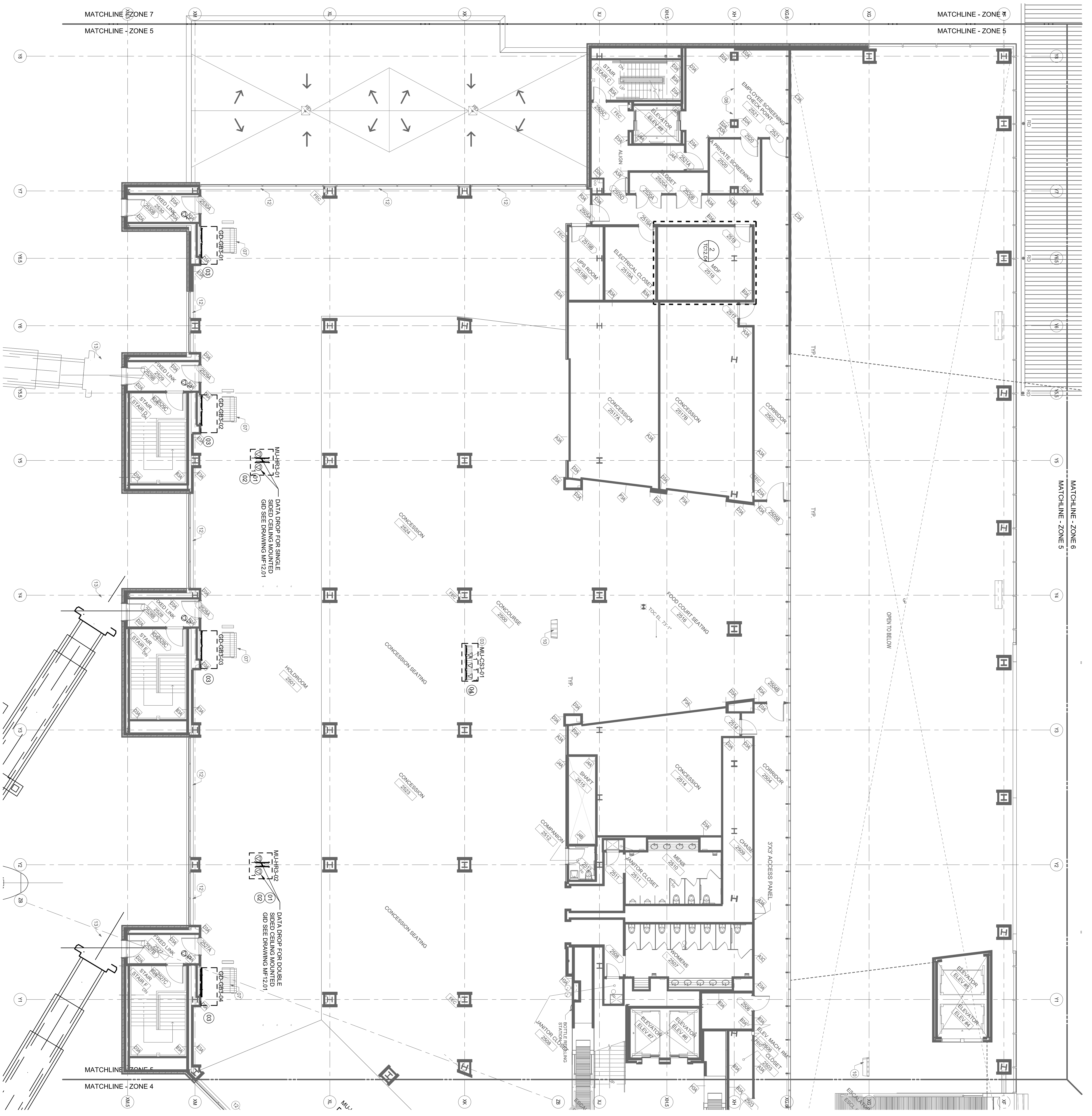
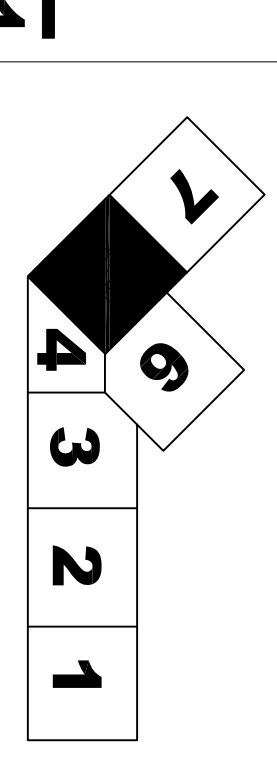
**SHEET NOTES**

- (1) 1 DVC COMPUTER, 20 AMP QUAD RECEPTACLE FOR POWER, AND ONE 2 PORT DATA DUPLEX WILL BE HOUSED IN EACH SCREEN FOR NETWORKING. ALL DVC CABLES WILL BE FED FROM THIS LOCATION THROUGH THE MOUNTING BRACKET TO THE INPUTS OF TWO 20 AMP CIRCUIT BREAKERS FOR THIS BOX TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
- (2) CONTRACTOR TO MOUNT 4" CEILING MOUNT BACK TO BACK APPLICATION AT THE LOCATION SPECIFIED. ONE DVC WILL FEED ONE OF THESE SCREENS. THE OTHER DVC WILL FEED THE OTHER SCREEN. A LOOP IN LOOP OVERLAP CABLE FROM ONE SCREEN TO ANOTHER CONTRACTOR TO PROVIDE SHOP DRAWINGS ON TYPICAL CONSTRUCTION PRIOR TO THE START OF WORK. REFER TO DRAWING T1220 FOR FURTHER INFORMATION.
- (3) REFER TO DRAWINGS T02102.02.04 FOR CONDUIT PATH TO GIVE COUNTERTOP FEEDS FROM INR.
- (14) 3 DVC COMPUTERS, 20 AMP QUAD RECEPTACLE FOR POWER, AND ONE 4 PORT DATA DUPLEX WILL BE HOUSED IN TOP OF MILLWORK WITH REMOVABLE GRILL. ALL DVC CABLES WILL BE FED FROM THIS LOCATION TO THE INPUTS OF THREE SCREENS LOCATED AT IMPUS BANK. A LOOP IN LOOP OVERLAP CABLE FROM ONE SCREEN TO ANOTHER CONTRACTOR TO PROVIDE SHOP DRAWINGS ON TYPICAL CONSTRUCTION PRIOR TO THE START OF WORK. REFER TO DRAWING T1220 FOR FURTHER INFORMATION.

**GENERAL NOTES**

- A REFER TO DRAWING T000.00 FOR DEMOLITION NOTES.
- B ALL CONDUITS FOR DATA SHALL BE RUN THROUGH THE RISER CORE AND EXPOSED IN THE RISER CORE AND PERPENDICULAR TO BUILDING LINES AND PAINTED TO MATCH. LOCATION OF NEW DATA OUTLETS SHALL BE INSTALLED AT THE DRAWINGS AND SCHEDULES ON THE RISER WALLS AND FLOOR SLABS THROUGH WALLS AND FLOOR SLABS SHALL BE STEVED AND PROPERLY SUPPORTED. CONTRACTOR SHALL REPAIR AND FINISH ALL DAMAGED BY WORK OF THIS CONTRACT.
- C PILOT HOLE PRIOR TO CORE DRILLING. CONTRACTOR SHALL TAKE PRECAUTIONS AS TO PROTECT AREA BEHIND CORE AS TO PREVENT DAMAGE TO RISER CORE AND WATER THAT MAY ENTER AREA BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- D LOCATION OF DATA OUTLETS ARE FOR REPRESENTATION PURPOSES ONLY AND DO NOT DENOTE EXACT LOCATION. DATA OUTLETS ADAPTED TO NEW MONITORS/SCREENS/DVCS AS REQUIRED AND MUST BE APPROVED BY THE ENGINEER.
- E E.C. SHALL PROVIDE DETAILED SHOP DRAWINGS (SIGNED AND SEALED BY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE SHALL COMMENCE) MOUNTING BRACKET ASSEMBLIES/SUPPORTS REQUIRED TO MOUNT MONITORS/SCREENS AT ALL OTHER LOCATIONS. REFER TO SPECIFICATION MANUAL FOR MORE INFORMATION.
- F PRIOR TO INSTALLATION OF NEW SCREENS/DISPLAY/MONITORS AND FDS BANKS, THE E.C. SHALL VERIFY EXACT LOCATION OF ALL SCREENS AND THE ENGINEER CONTRACTOR SHALL AND SCHEDULE COORDINATION WALK-THRU WITH P/M/ENGINEER AS REQUIRED.
- G CONDUIT PATHWAY ROUTES ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR TO FIELD VERIFY THE EXACT ROUTE.
- H ALL COMMUNICATIONS CABLES SHALL BE CONCEALED IN CONDUIT AND SIZED ACCORDINGLY. NOT TO EXCEED THE 40% MAXIMUM FILL. SEE CONDUIT CAPACITY CHART ON DRAWING T000.01.
- I ALL VOICE AND DATA CABLEING SHALL TERMINATE IN THE MPF OR IDF ROOM AS INDICATED ON DRAWINGS T1212.05 AND T012.06.
- J ADD AND SIZE JUNCTION BOXES AT CONDUIT INTERSECTIONS PER NEC 314 AND TAKEN STANDARDS FOR BED RADIUS.

**KEY PLAN**



LEVEL 3 - ZONE 5

SCALE: 1/8"=1'-0"

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Project Name	PMW TERMINAL EXPANSION
Label Number	145
CD No. Name	09/01/11
Revision	ISSUED FOR CONSTRUCTION
Author	SMB
Check	RAK
Date & Time Description	09/01/11

**MF02.03.05**

AS INDICATED

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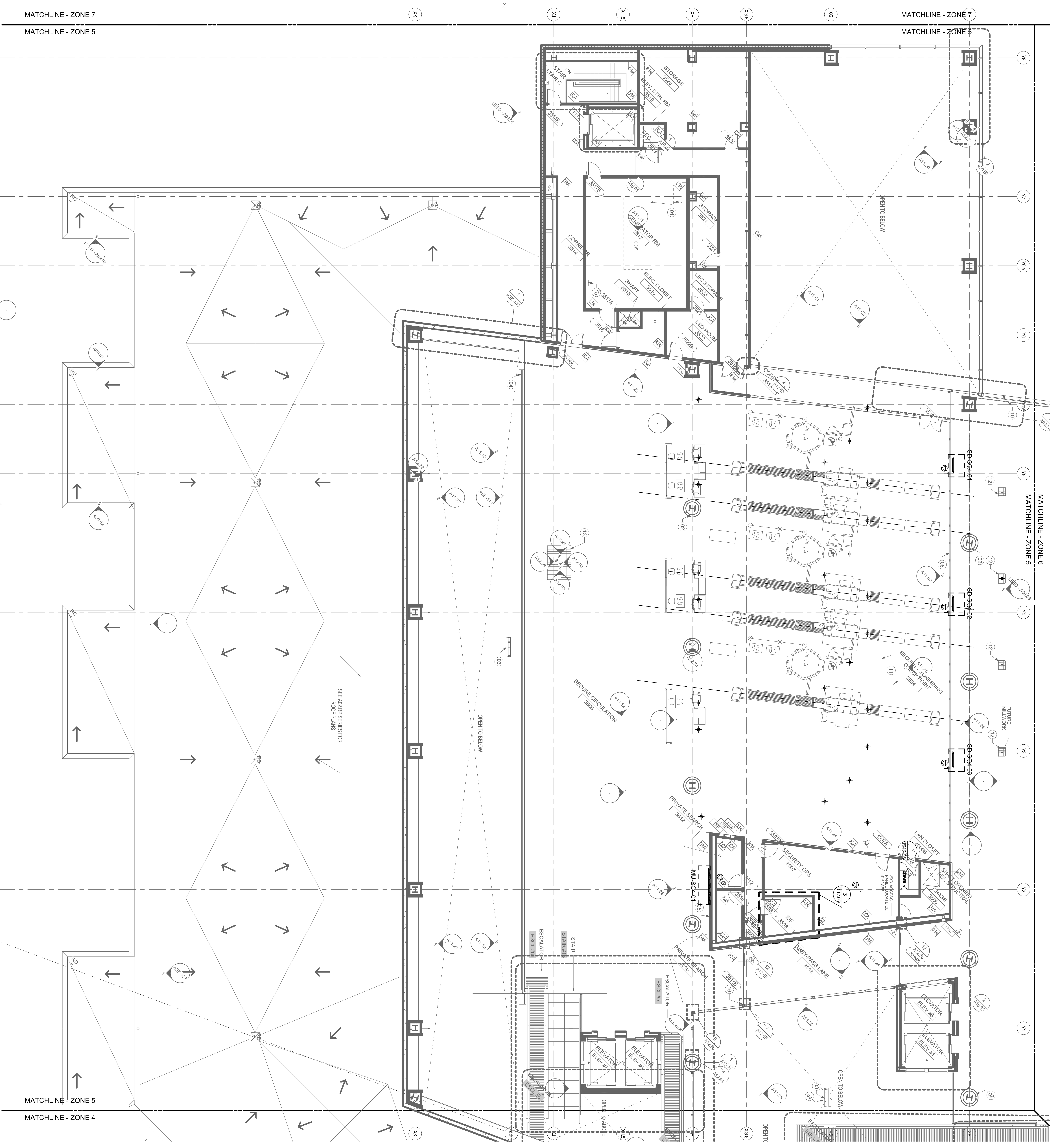
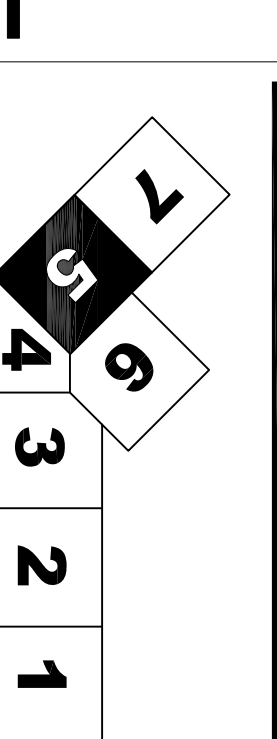
**SHEET NOTES**

- (1) 3 DVC COMPUTERS, 20 AMP QUAD RECEPTACLE FOR POWER, AND ONE 4 PORT DATA DUTEX WILL BE CONTAINED IN TOP DVC RACKS. ALL DVC RACKS WILL BE LOCATED TO THE INPUTS OF THREE SCREENS LOCATED AT MUFDS BANK. MUFDS-01. EACH SCREEN WILL HOUSE A SCREEN LOCATION, POWER AND DATA CIRCUIT TO BE INSTALLED BY OTHERS.
- (2) CONTRACTOR TO MOUNT 48 INCH SCISSOR MOUNT TYPE RACK TO THE WALL. ALL DVC COMPUTERS QUAD RECEPTACLES AND DATA OUTLETS WILL BE CONCEALED AND BEHIND THE BEZEL OF THE WALL. THE ELECTRICAL CONTRACTOR WILL HAVE TWO 48" SCREENS AND ASSOCIATED EQUIPMENT PER 20 AMP CIRCUIT MAXIMUM. DRAWINGS ON TYPICAL CONFIGURATION PRIOR TO THE START OF ANY WORK. REFER TO MF1220 FOR FURTHER INFORMATION.

**GENERAL NOTES**

- A REFER TO DRAWING T000.00 FOR GENERAL NOTES, REQUIREMENTS, AND DIMENSIONAL NOTES.
- B ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED, SHALL BE RUN PARALLEL AND PAINTED TO MATCH. LOCATION OF NEW DATA OUTLETS SHALL BE INSTALLED AT NEW MOUNTING LOCATIONS AS INDICATED. ALL NEW PENETRATIONS OF CONDUITS THROUGH WALLS AND FLOOR SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED PRODUCT. ANY CEILING TILES DAMAGED BY WORK OF THIS CONTRACTOR SHALL BE REPLACED.
- C CONTRACTOR SHALL CORE DRILL, 1/4" PILOT HOLE PRIOR TO CORE DRILLING. CONTRACTOR SHALL TAKE PRECAUTIONS AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT ALL TIMES TO PROTECT AREA BELOW AND WATER THAT MAY ENTER AREA BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- D LOCATION OF DATA OUTLETS ARE FOR REPRESENTATION PURPOSES ONLY AND DO NOT DERECT EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA MONITORS/SCREENS/DEVICES AS REQUIRED AND MUST BE APPROVED BY THE ENGINEER.
- E E.C. SHALL PROVIDE DETAILED SHOP DRAWINGS, SIGNED AND SEALED BY PROFESSIONAL ENGINEER LICENSED IN THE STATE THE WORK WILL COMMENCE IN. CONTRACTOR SHALL COMMENCE WORK ON THE DATE SHOWN ON THE DRAWING. CONTRACTOR SHALL PREPARE THE LOCATIONS AND ALL MOUNTING LOCATIONS, REFER TO SPECIFICATION MANUAL FOR MORE INFORMATION.
- F PRIOR TO INSTALLATION OF NEW SCREENS/DEVICES/MONITORS AND FIBS BANKS, THE E.C. SHALL VERIFY EXACT LOCATIONS OF SAME WITH THE P.M. AND SCHEDULE CONSTRUCTION WITH THE P.M. WITH P.M. ENGINEER AS REQUIRED.
- G CONDUIT PATHWAY ROUTES ARE SHOWN IN FIELD. VERIFY THE EXACT ROUTE.
- H ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT EXCEPT FOR MAXIMUM FILL. SEE CONDUIT CAPACITY CHART ON DRAWING T000.01.
- I ALL VOICE AND DATA CABLING SHALL BE TERMINATED IN THE MDF OR IDF ROOM AS INDICATED ON DRAWINGS TC1216 AND TC12106.
- J ADD AND SIZE JUNCTION BOXES AT CONDUIT INTERSECTIONS PER NEC 314 AND TIA/EIA STANDARDS FOR BED RADII.

**KEY PLAN**



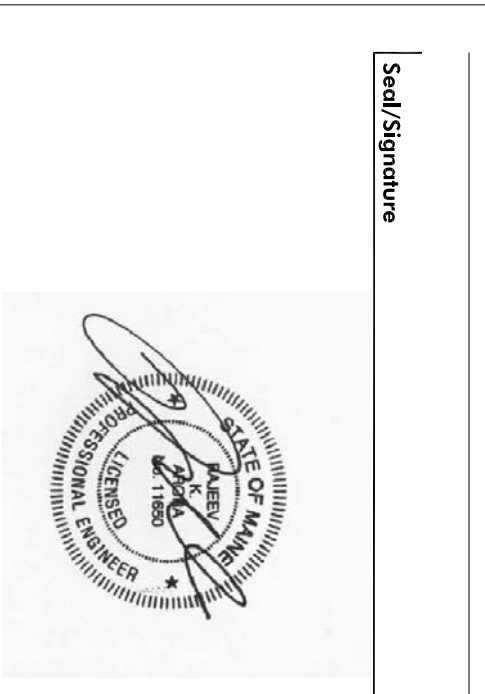
LEVEL 4 - ZONES 5  
SCALE: 1/8"=1'-0"

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Issue	Date & Issue Description	By	Check
145	09/01/11	SJB	RKA
155	09/09/11	SJB	RKA



Project Name: **P.M. TERMINAL EXPANSION**  
 Contract Number: **14021-6135**  
 Construction Plan - BEFA - ZONE 5  
 As Indicated

**MF02.04.05**  
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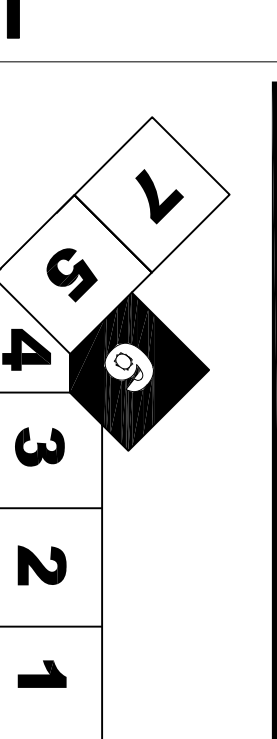
**SHEET NOTES**

- (10) 3 DVC COMPUTERS, 20 AMP QUAD RECEPTACLE FOR POWER AND ONE 4 PORT DATA DUREX WILL BE CONTAINED IN TOP DVC CABINETS. ALL DVC CABINETS SHALL BE LOCATED IN THE MECHANICAL ROOM. ALL DVC CABINETS WILL BE FED FROM THE LOCATION TO THE INPUTS OF THREE SCREENS LOCATED AT MUFDO BANK MU-S4-02 AND MUFDO BANK MU-S4-03. RECEPTACLE BEHIND EACH SCREEN. LOCATION, POWER AND DATA CIRCUIT TO BE INSTALLED BY OTHERS. REFER TO M-12.20 FOR FURTHER INFORMATION.

**GENERAL NOTES**

- A REFER TO DRAWING T000.00 FOR GENERAL NOTES, REQUIREMENTS, AND DEMOLITION NOTES.
- B ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED, SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES. ALL NEW PANE RATIONS OF CONDUITS SHALL BE INSTALLED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR DAMAGED BY WORK OF THIS CONTRACT.
- C CONTRACTOR SHALL CORE DRILL, 1/4" PILOT HOLE PRIOR TO CORE DRILLING. AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BEHIND WATER TRAPTOR SINKER AREA AFTER INSTALLATION.
- D LOCATION OF DATA OUTLETS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL NOT DEPICT EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW MONITOR SCREENS AS REQUIRED BY THE ENGINEER.
- E E.C. SHALL PROVIDE DETAILED SHOP DRAWINGS FOR ALL NEW ELECTRICAL WORK IN THE STATE THE WORK WILL COMMENCE FOR SUPPLEMENTAL STRUCTURAL MOUNTING BRACKET REQUIRED TO MOUNT MONITOR SCREENS AT PRECAST TEE LOCATIONS AND ALL OTHER CEILING/OVERHEAD STRUCTURE SPECIFIC TO EACH MONITOR FOR MORE INFORMATION.
- F PRIOR TO INSTALLATION OF NEW BANKS, THE E.C. SHALL VERIFY EXACT LOCATIONS OF SAME WITH THE PMW AND THE ENGINEER. CONTRACTOR SHALL SCHEDULE COORDINATION WALKTHRU WITH PMW/ENGINEER AS REQUIRED.
- G CONDUIT PATHWAY ROUTES ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR TO FIELD VERIFY THE EXACT ROUTE.
- H ALL COMMUNICATIONS CABLING, SHALL BE CONCEALED IN CONDUIT AND SIZED ACCORDINGLY, NOT TO EXCEED THE 40% CHART ON DRAWING T000.01.
- I ALL VOICE AND DATA CABLING SHALL BE INSTALLED IN THE MOP OF ROOMS INDICATED ON DRAWINGS T012.06 AND T012.08.
- J ADD AND SIZE JUNCTION BOXES AT 1/2" MINIMUM CLEARANCE FROM WALLS AND TIE-IN STANDARDS FOR BFD RADIUS.

**KEY PLAN**



**Portland International Jetport**  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**  
2020 K Street, Northwest  
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Washington, DC 20242  
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**ARORA**  
Architectural Record  
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Suite #100  
Charles Ford PA 19317  
Telephone: 610.459-7999  
Facsimile: 610.459-7999

Project Name: **PMW TERMINAL EXPANSION**

Client Name: **MURS AND COMMON USE CONSTRUCTION PLAN - IBE4 - ZONE 6**

Issue: **MF02.04.06**

Scale: **As Indicated**

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Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SB	RA

Project Signature: \_\_\_\_\_

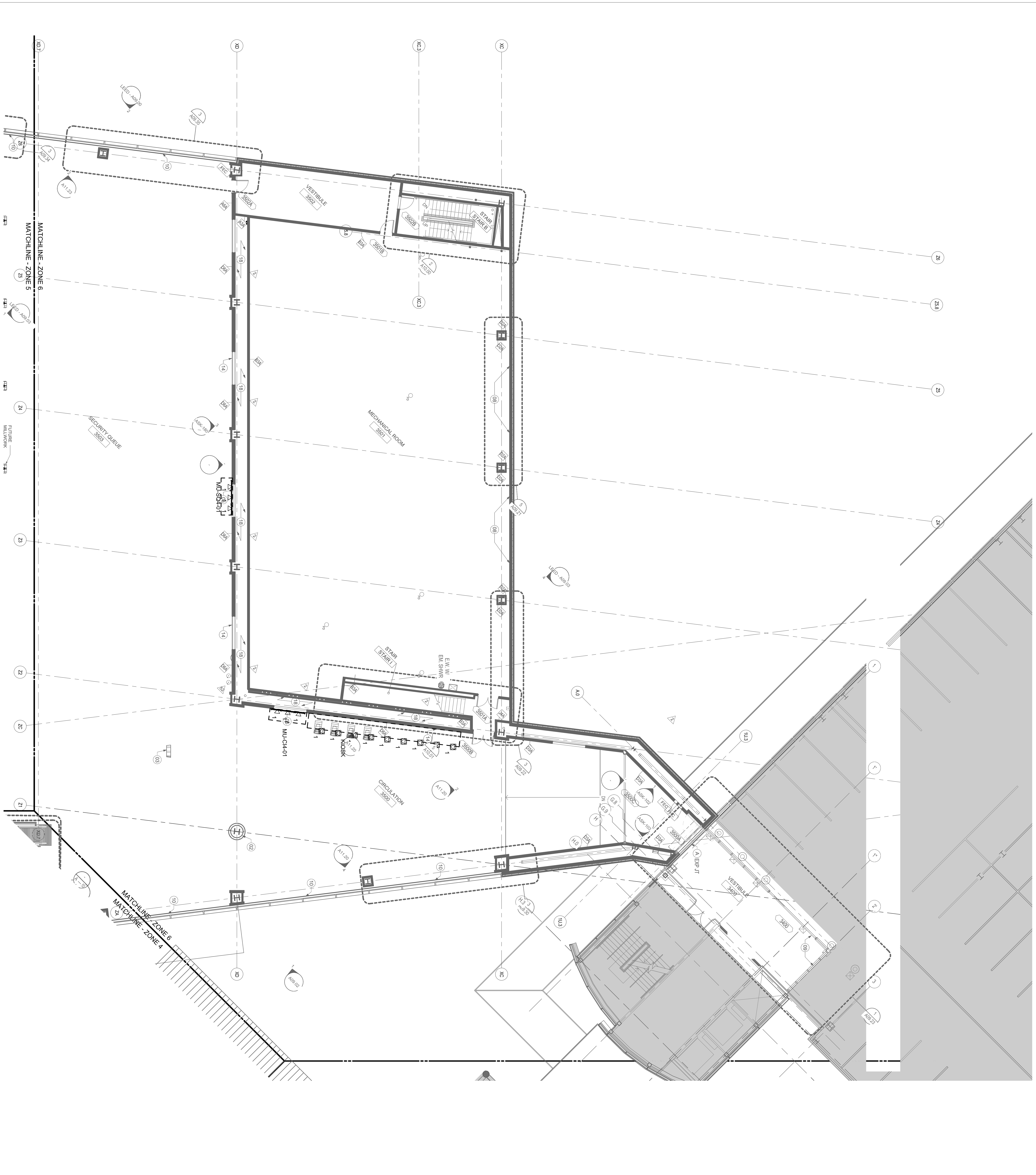
Project Name: **PMW TERMINAL EXPANSION**

Client Name: **MURS AND COMMON USE CONSTRUCTION PLAN - IBE4 - ZONE 6**

Issue: **MF02.04.06**

Scale: **As Indicated**

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**LEVEL 4 - ZONE 6**

SCALE: 1/8"=1'-0"



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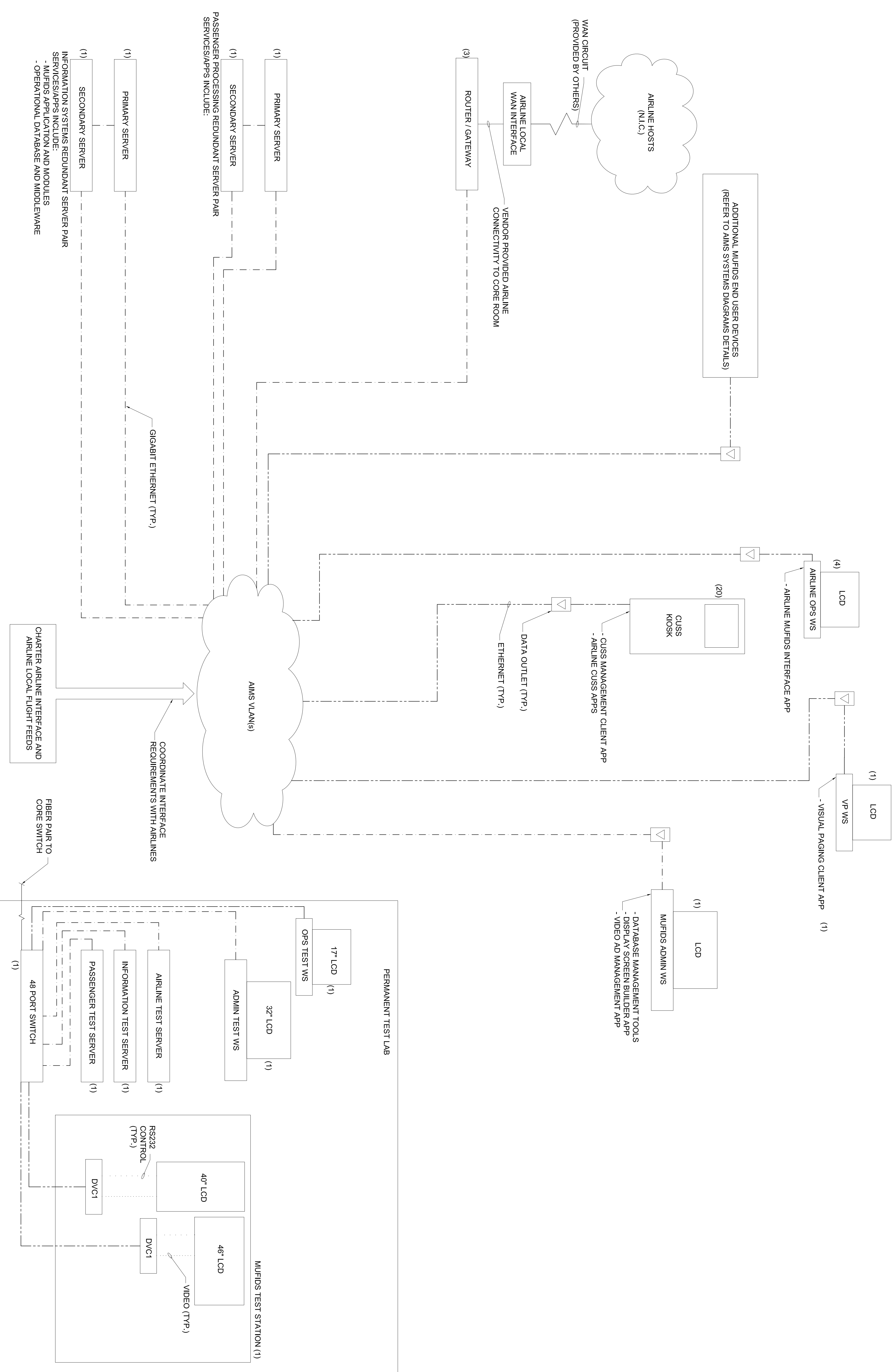
- GENERAL NOTES**
- REFER TO ARCHITECTURAL DRAWINGS FOR MUFIDS ELEVATIONS, EXACT LOCATION AND CONFIGURATION.
  - REFER TO ELECTRICAL DRAWINGS FOR POWER DISTRIBUTION.
  - REFER TO SCHEDULES ON DRAWING MF1220 FOR MORE INFORMATION ON INSTALLATION OF SCREENS.
  - DETAILS INDICATE CONSTRUCTION AND ELECTRICAL REQUIREMENTS. PHYSICAL POSITION AND CABLE ROUTING IS NOT INTENDED.
  - PROVIDE ALL INTERCONNECTING DEVICES AND CABLING REQUIRED FOR A FULLY OPERATIONAL SYSTEM THAT MEETS THE FUNCTIONAL, OPERATIONAL, AND PERFORMANCE REQUIREMENTS OF THE SYSTEM AS INDICATED IN THE SPECIFICATIONS.
  - SOFTWARE SERVICES/APPLICATIONS PROVIDED BY THE VENDOR SHALL BE MINIMUM SERVICES/APPLICATIONS AND SERVERS SHALL BE PROVIDED BASED ON VENDOR SPECIFIC SOLUTION TO ENSURE ALL PERFORMANCE REQUIREMENTS ARE MET.
  - PRIMARY AND SECONDARY SERVERS AND HOSTS SHALL BE PROVIDED IN SEPARATE ROOMS (NDR AND DFI).
  - CONTRACTOR SHALL COORDINATE WITH HOST INTERFACE REQUIREMENTS AND AIRLINE FLIGHT FEED REQUIREMENTS.

**KEY PLAN**

Project Name: **PMW TERMINAL EXPANSION**  
 Project Number: \_\_\_\_\_  
 CAD File Name: \_\_\_\_\_  
 Date: **10/17/20**  
 Description: **MUFIDS AND COMMON USE MUFIDS SYSTEM FLOW DIAGRAM**  
 Scale: \_\_\_\_\_  
 As Indicated



Issue Date & Issue Description By Check  
 145 09/01/11 ISSUED FOR CONSTRUCTION SJB RAK



- LEGEND:**
- GIGABIT ETHERNET
  - ..... VIDEO
  - ETHERNET
  - SERIAL
  - USB
  - RS232 CONTROL



SHEET NOTES

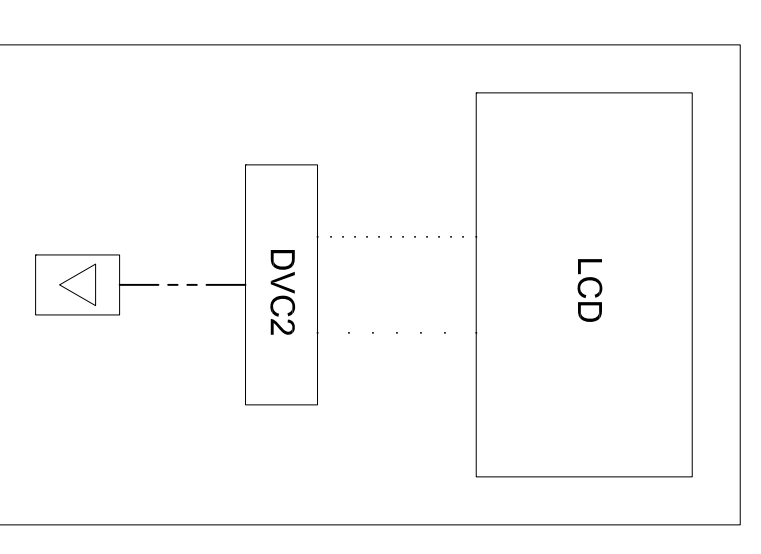
Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

2020 K Street, Northwest  
Suite 200 DC 20006  
Washington, DC 20004  
Telephone 202.872.8587  
Facsimile 202.872.8587

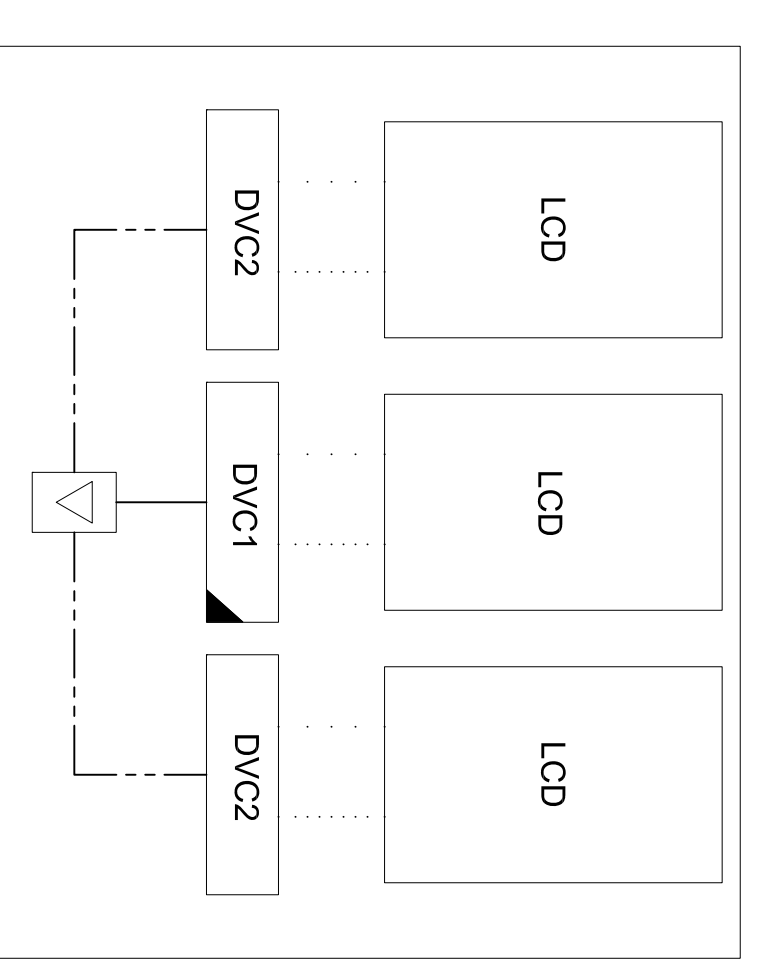
**ARO**  
ARORA  
ARCHITECTURAL  
RENDERING  
ORGANIZATION

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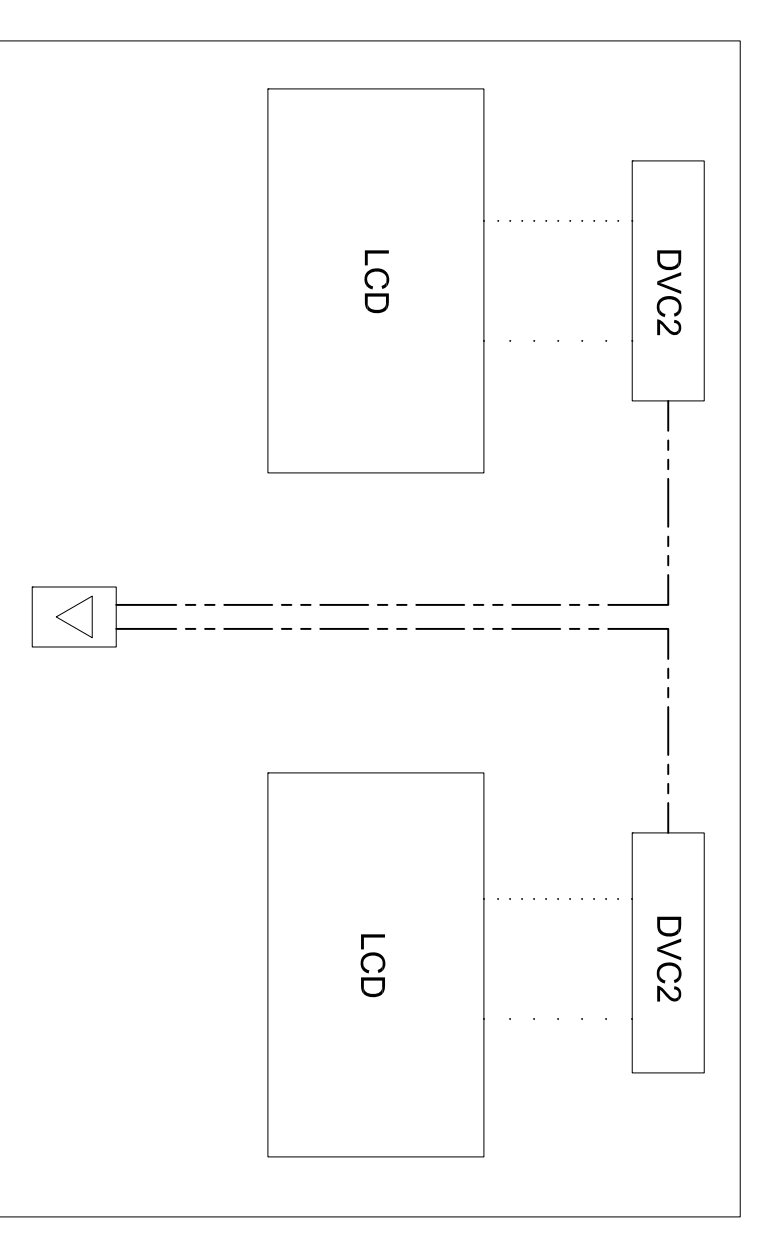
- GENERAL NOTES**
- A REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING CONDITIONS, EXACT LOCATION AND ORIENTATION.
  - B REFER TO ELECTRICAL DRAWINGS FOR POWER DISTRIBUTION.
  - C REFER TO SCHEDULES ON DRAWINGS ES00 THROUGH ES03 FOR MORE INFORMATION ON INSTALLATION OF SCREENS.
  - D DETAILS INDICATE CONNECTIVITY REQUIREMENTS, PHYSICAL POSITION AND CABLE ROUTING IS NOT INTENDED.
  - E PROVIDE ALL INTERCONNECTING DEVICES AND CABLING REQUIRED FOR A FULLY OPERATIONAL SYSTEM THAT MEETS THE FUNCTIONAL, OPERATIONAL, AND PERFORMANCE REQUIREMENTS OF THE SYSTEM PLANS AND SPECIFICATIONS.
  - F SERVICES/APPLICATIONS INDICATED ARE MINIMUM REQUIRED. ADDITIONAL SERVICES/APPLICATIONS SHALL BE PROVIDED BASED ON VENDOR SPECIFIC SOLUTION TO ENSURE ALL FUNCTIONAL REQUIREMENTS ARE MET.
  - G TYPICAL HARDWARE CONFIGURATIONS SHOWN REFER TO SCHEDULES AND EQUIPMENT COUNT.



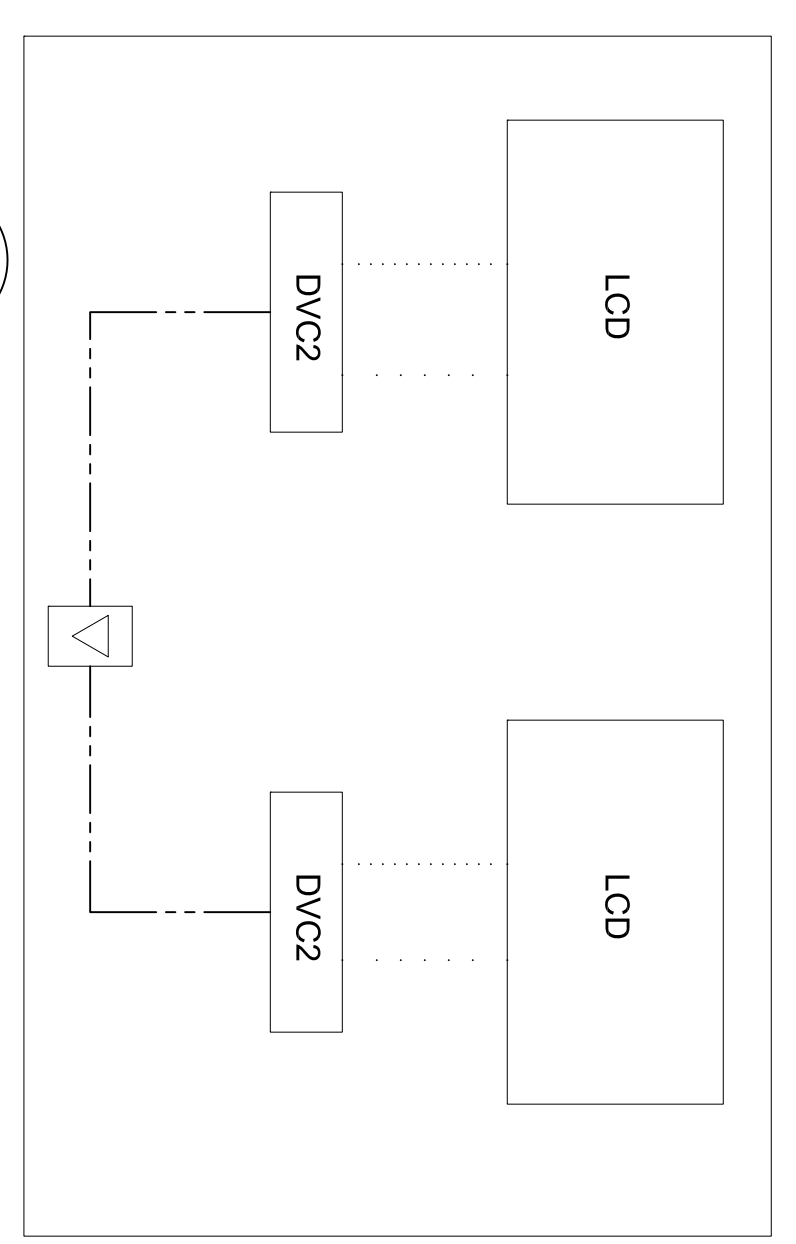
1 MUFIDS TICKET AREA BACKWALL (TYP.)  
SCALE: NTS



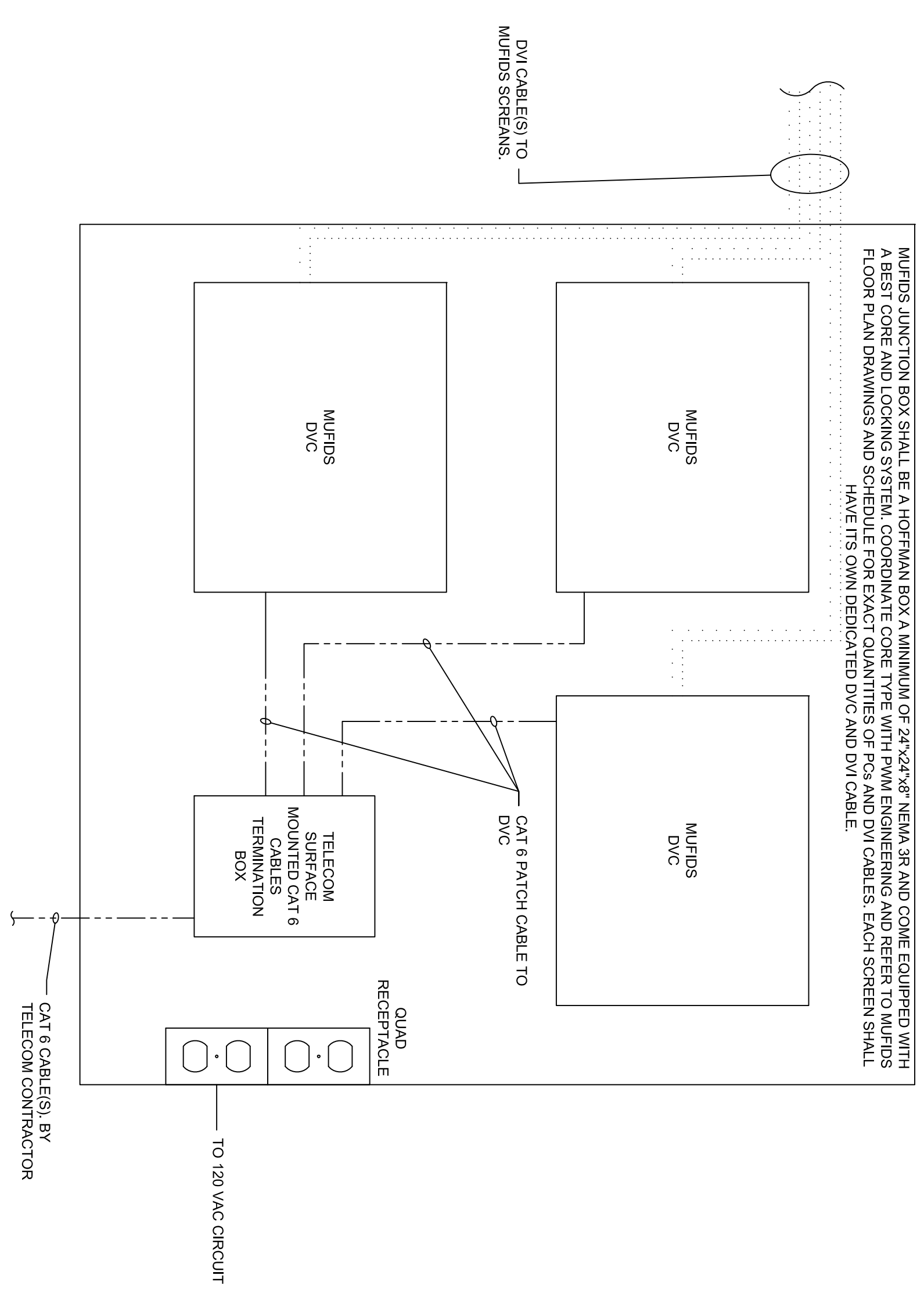
2 MUFIDS - THREE SCREEN MONITOR BANK (TYP.)  
SCALE: NTS



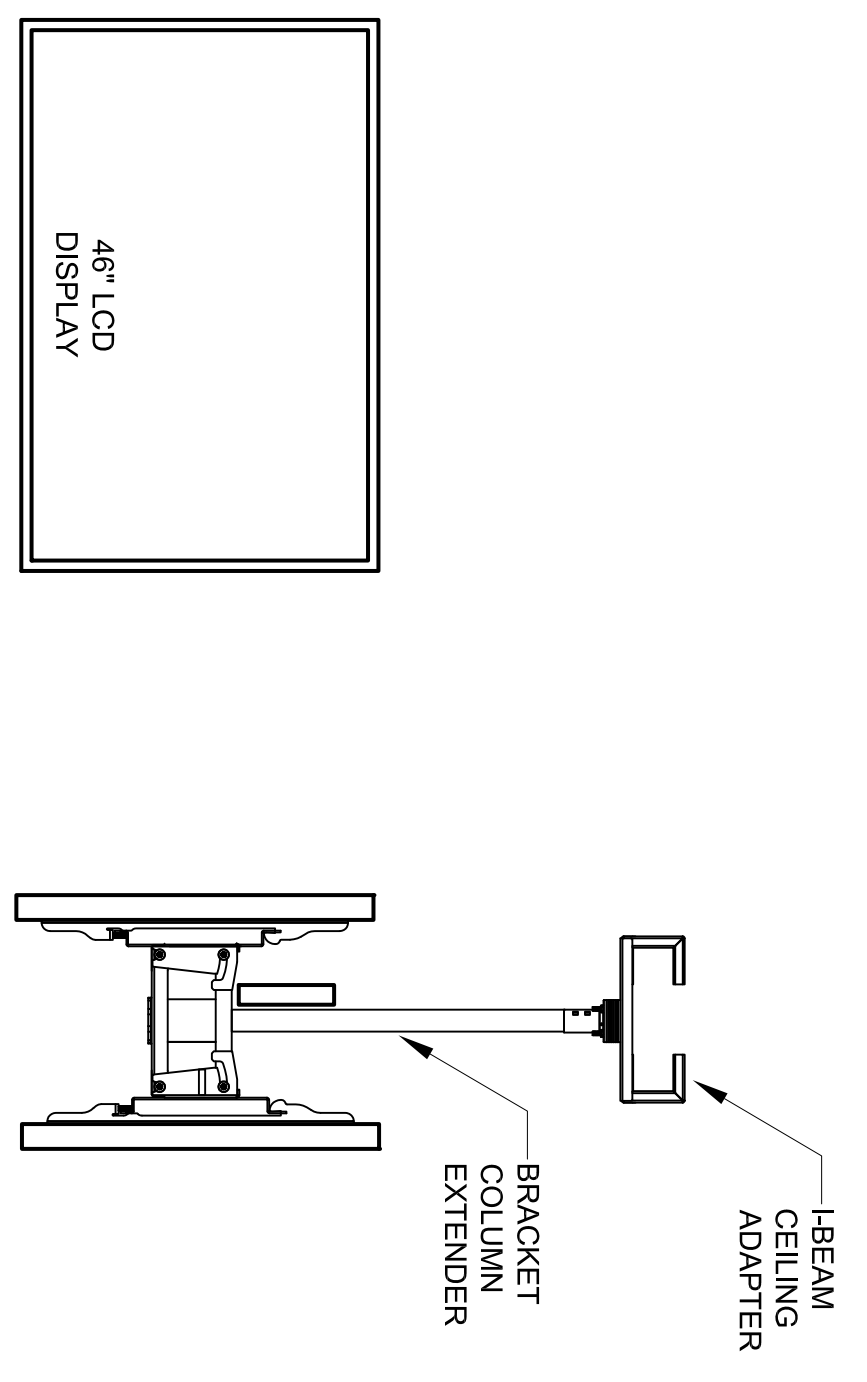
3 MUFIDS - TWO POSITION GATE COUNTER (TYP.)  
SCALE: NTS



4 MUFIDS - BAG CLAIM (TYP.)  
SCALE: NTS



5 MUFIDS - CEILINGWALL JUNCTION BOX  
SCALE: NTS



6 GATE INFORMATION DISPLAY - GID  
SCALE: NTS

- LEGEND:**
- GIGABIT ETHERNET
  - VIDEO
  - ETHERNET
  - SERIAL
  - USB
  - RS232 CONTROL

KEY PLAN

Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RKA
Project Name: PMW TERMINAL EXPANSION			
Project Number: _____			
CAD File Name: _____			
Issue Date: _____			
Description: MUFIDS AND COMMON USE MUFIDS SYSTEM DIAGRAM DETAILS			
Scale: As Indicated			









