AUS DIGITAL GOVERNANCE

Asset Management Standards

October 30, 2024
Version 1.1

Austin-Bergstrom International Airport | HNTB | ARORA

Disclaimer: The AUS Asset Management standards are based on an upgrade of the current asset tagging and hierarchy. AUS is actively upgrading the Maximo Asset Management platform and information including, but not limited to, tags, numbers, attributes, and systems are subject to change. Changes shall be provided to project teams following approval from the Asset Management department. Project teams shall coordinate with AUS Project Management, BIM, GIS, and Asset Management departments for incorporation of the latest standards.

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SUMMARY OF REVISIONS:

While this document is intended as a reference that can be cited in agreements such as contracts and BIM execution plans, it is recognized that the use of Asset Management in design and construction is evolving. To accommodate this evolution, this document will be updated periodically in clearly identifiable versions. A project can adopt a specific version and then has the option to remain with that version or update if an updated version is published. Initially the target update frequency is annually, but that may change in the future. In addition, interim updates may be issued if needed.

Table 0.01 summarizes changes made to the Asset Management Standards from the previous approved version. Information displayed is for reference only.

TABLE 0.01: REVISION HISTORY

Revision	Date	Author	Approver	Description
1.0	04MAR24			Version 1.0 Issued
1.1	30OCT24	AUS		Added Disclaimer and Section 2.08: Asset Retirement

INTRODUCTION

In response to the growing demand for optimized airport maintenance practices, this document introduces a strategic plan that leverages the synergy between Building Information Modeling (BIM) and Enterprise Asset Management (EAM) technologies. Focused on the specific context of Austin Airport, the initiative aims to elevate asset precision and operational efficiency by seamlessly integrating BIM data into the EAM. The following outlines the key strategies and benefits of this collaborative approach, emphasizing its potential to enhance safety, reliability, and overall performance at the airport.

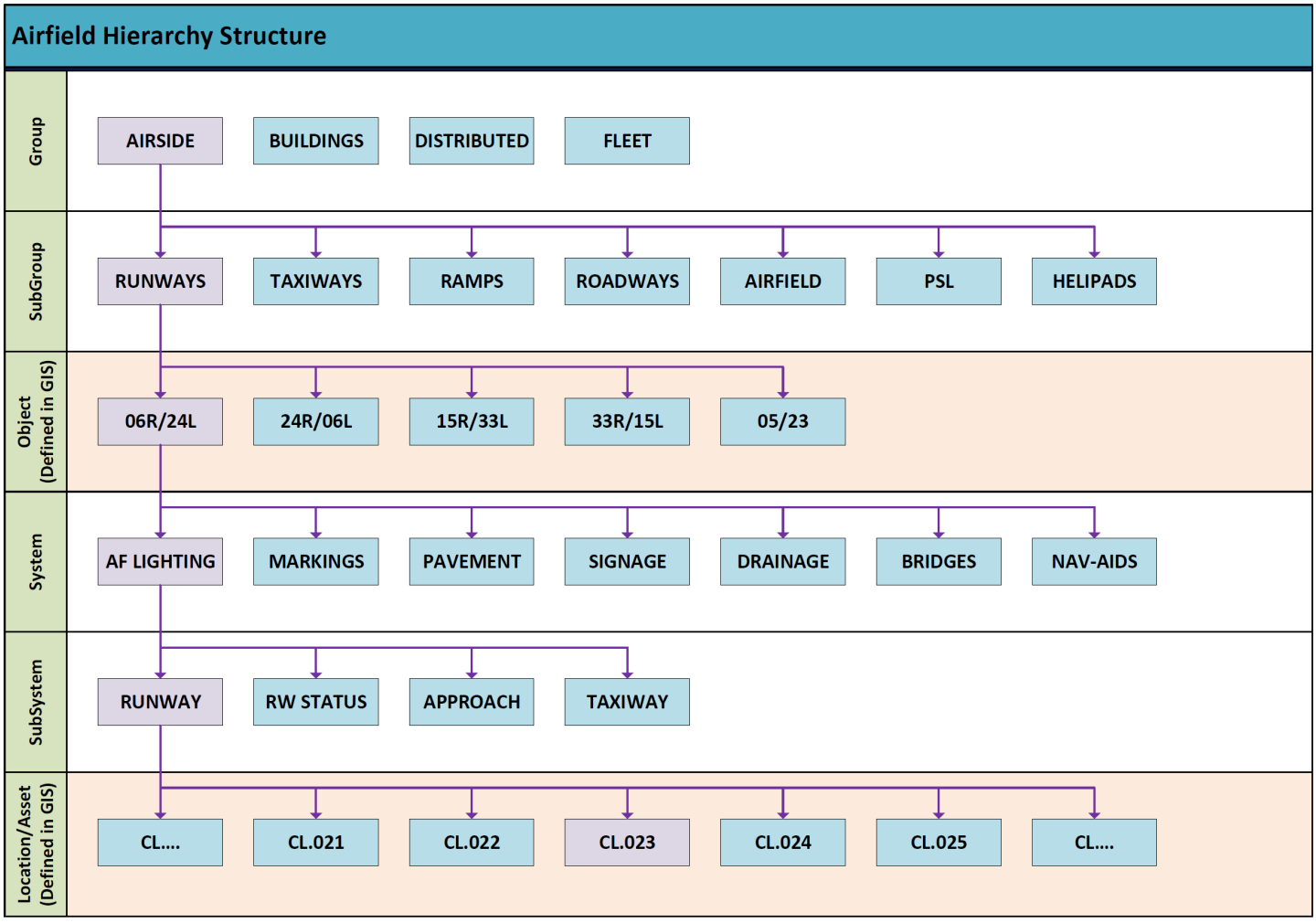
PURPOSE OF ASSET MANAGEMENT STANDARDS

This document presents a strategic initiative to integrate two advanced technologies, Building Information Modeling (BIM) and Enterprise Asset Management (EAM), aiming to enhance the maintenance practices and utilization of BIM data at Austin Airport. The goal is to ensure precise creation and maintenance of airport assets within the EAM. Through this collaborative approach, these systems will facilitate smoother airport operations, improve resource efficiency, and bolster the safety and reliability of the airport.

CHAPTER 1: ESTABLISHED HIERARCHY STRUCTURE FOR THE AIRPORT

Effective asset data relies heavily on a well-organized hierarchical structure. While Building Information Modeling (BIM) guarantees accurate asset data and attribution, it is the responsibility of the Enterprise Asset Management (EAM) system to ensure that this data is collected within a coherent hierarchical framework. The asset structure model below illustrates the approach for creating and labeling the location hierarchy. This structure not only defines the organization of assets and systems but also eliminates the necessity for a Geographical Location Structure, as this information is captured in the Functional Location Record.

Moreover, as illustrated in the model, the asset structure consistently resides at the sixth level of the hierarchy. Within the EAM, this asset structure comprises two primary records: the Asset Record and the Location Record. The construction of this asset structure is created by linking to the data collected in the BIM system, as detailed in this document.



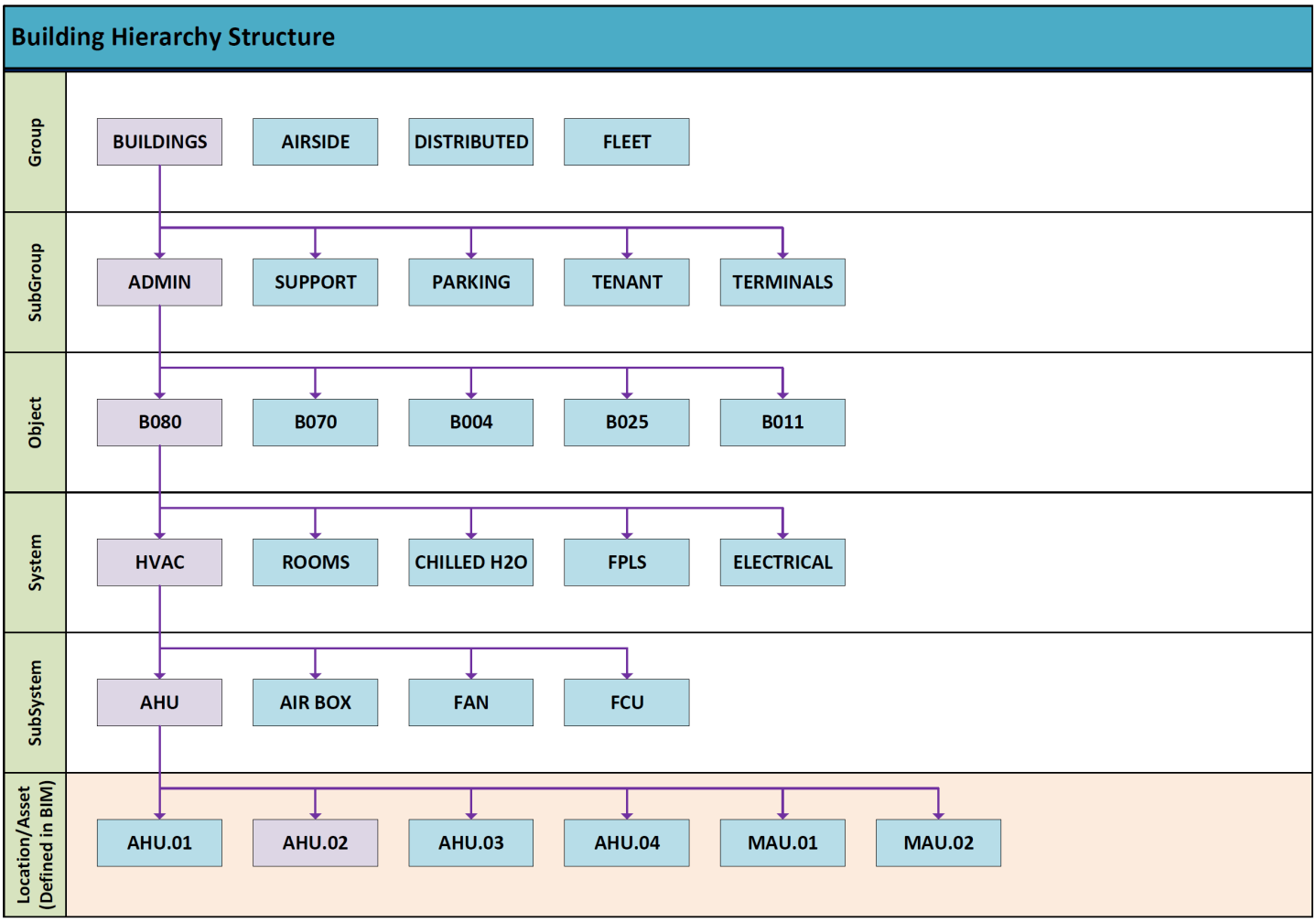


FIGURE 1.01: AIRPORT HIERARCHY EXAMPLES

1.01: Asset and Location Structure

Assets will maintain a 1:1 relationship with the functional location, with flexibility to deviate from this rule when practicality demands. The functional location serves as a comprehensive source, detailing both the purpose of the asset and its geographical location (accessible through the Service Address tab). This location definition can be established via GIS, physical address, or by utilizing room assets within the system. Configuration details encompass criticality, priority, and unique attributes specific to the function performed. Consequently, the Asset record is streamlined to focus solely on fundamental asset details such as manufacturer, model number, and serial number.

In instances where an asset is relocated due to repair or calibration and returned to a different location, the asset record seamlessly inherits the functional attribution and critical attributes of the associated functional location. The creation of the Location hierarchy is facilitated through the implementation of a smart number, delineating the functional path of the asset structure. This intelligent numbering system enables users to effortlessly conduct both vertical and horizontal analyses of assets, answering questions such as the frequency of failures in a specific asset (e.g., AHU.001) or the cumulative failures across all air handler units on the site.

The nomenclature assigned to an asset will be regulated through the application of domains, guaranteeing uniformity in how assets are identified in project documentation. This chosen noun, coupled with critical attributes delineating both the essence of "what it is" and its intended function

of "what it does," will be clearly defined within the BIM system and seamlessly integrated into the EAM through a mapped process.

CHAPTER 2: HIERARCHY

2.01: Hierarchy Structure

Below the hierarchical structure, you'll find a delineation of systems, subsystems, and assets. A system encompasses a collection of subsystems and/or assets working in concert to fulfill a vital function for the business. For instance, HVAC encompasses air handlers, exhaust fans, unit heaters, and more to regulate environmental conditions. Each system is designated by a two-digit number.

Subsystems consist of individual assets or groups of assets that facilitate a system in meeting business objectives. For instance, air handlers function as a subsystem within the HVAC system. Subsystems are denoted by a single letter.

Assets comprise equipment or instruments essential for a subsystem to fulfill its designated function. While some subsystems may consist of only one asset, others may entail multiple assets. Each asset is identified by an assigned "noun," ensuring uniformity in naming conventions and spelling across all assets within the system.

2.02: Building Hierarchy

The initial tier in the system hierarchy encompasses systems directly linked to building objects. This segment represents a focal point for leveraging BIM data, where its utilization is most pronounced and impactful.

The systems and subsystems for the Building Hierarchy are shown in Table 2.01.

2.03: Distributed Hierarchy

The distributed hierarchy delineates systems spread across the airport property, relying predominantly on the Geographical Information System (GIS) data rather than BIM data. Nevertheless, certain elements within this hierarchy section may benefit from BIM attributions, offering additional value in specific cases.

The systems and subsystems for the Distributed Hierarchy are shown in Table 2.02.

2.04: Fleet Hierarchy

Although the Fleet hierarchy is not reliant on GIS or BIM, its role remains pivotal for the airport, as operational personnel rely on vehicles and fleet equipment for required airport maintenance. Fleet maintenance costs constitute a substantial portion of the airport's overall budget, necessitating its inclusion as part of the EAM responsibility.

The systems and subsystems for the Fleet Hierarchy are shown in Table 2.03.

2.05: Airfield Hierarchy

The airfield hierarchy encompasses all assets and spaces within the highly secure Airport Operations Area (AOA). As the most regulated section of the airport, the assets and objects within this hierarchy play a pivotal role in ensuring the airport's seamless operation. In compliance with stringent FAA (Federal Aviation Administration) and TSA (Transportation Security Administration) requirements, it is imperative to capture these critical assets in the EAM system. The intricate

mapping and spatial analysis provided by GIS functions are particularly essential for managing these assets effectively within the airfield hierarchy.

The systems and subsystems for the Airside Hierarchy are shown in Table 2.04.

2.06: Asset Nomenclature and Attribution

The Asset nomenclature and attribution play a crucial role in delineating various asset types and their corresponding specification attributes within the Enterprise Asset Management (EAM) system. The EAM Data Collection Tool (DCT) is responsible for defining the sequencing of these attributes, a structure reinforced by the data loading process. Within this framework, numerous assets adhere to a two-tier hierarchy, where the first tier imparts specific attributes to all assets in the second tier.

This hierarchical arrangement not only categorizes assets but also determines whether a given attribute is allocated to the Location record, Asset record, or both. The assignment of a prefix for these attributes is detailed in the DCT and does not necessitate inclusion in BIM. Similarly, the unit of measure follows the same principle, with its definition residing in the DCT and exemption from mandatory capture in BIM.

Additionally, it's important to note that all attributes of assets will be mandated for each project. However, specifics regarding the phase and team responsible for managing these attributes will be delineated on a per-project basis within the Building Information Modeling (BIM) Execution Plan (BEP). This distinction may vary depending on the project phase, such as design, construction, or validation. Given the variability in project requirements, the precise phase and team responsibilities will be determined through trial implementation on early projects utilizing the BEP framework.

The asset nomenclature and attribution are defined in Table 2.05. In addition to Table 2.05, the following attributes are required for all applicable assets:

- **System Type**
- **Subsystem Type**
- **Equipment ID**
- **Location**
- **Manufacturer**
- **Model Number**
- **Serial Number**
- **Area Served**
- **Purchase Date**
- **Purchase Cost**
- **Install Date**
- **Expected Useful Life (Years)**
- **Warranty Start Date**
- **Contractor Warranty End Date**
- **Manufacturer’s Warranty End Date**
- **Spare Parts (Y/N)**
- **Spare Part Parent Asset**

All asset attribution must be included by the Record Documentation and Operations and Maintenance (O&M) manual submissions. Data shall incorporated into record equipment schedules and the asset management onboard template, provided by the AUS Asset Management department.

2.07: Roles and Responsibilities

1. AUS BIM Department
   The AUS BIM Coordinator is responsible for:
   - Ensuring all asset structures and attributes are captured in BIM
   - Provides mapping from BIM data to the required attributes defined by the airport
   - Coordinates with the Data Coordinator and changes to the asset nomenclature

2. AUS Asset Management Department – Data Responsibilities
   The AUS Asset Management Department is also responsible for:

- Reviewing the data files provided by BIM
- Processing the BIM data in the EAM Data Collection Tool (DCT)
- Loading the data into the EAM BUILD environment using the DCT
- Reviewing the data in the EAM BUILD environment.
- Approving the data and pushing it into the EAM PROD environment

2.08: Asset Retirement

In the event an existing AUS asset will be disposed of, decommissioned, or the contract is terminated, related design and construction disciplines shall indicate each instance in the project's demolition drawings. Design and Construction disciplines will coordinate with the AUS Project Manager and Asset Management department to identify affected assets and generate required documentation for asset retirement.

2.09: Hierarchy Tables

TABLE 2.01: BUILDING HIERARCHY

BLDGS	BUILDING SYSTEMS
01	SYSTEM, GATES
A	SUBSYSTEM, PASSENGER BOARDING BRIDGES
B	SUBSYSTEM, POTABLE WATER CABINETS
C	SUBSYSTEM, PRECONDITIONED AIR UNITS
D	SUBSYSTEM, VISUAL DISPLAY GUIDANCE SYSTEMS
E	SUBSYSTEM, GROUND POWER UNITS
F	SUBSYSTEM, MOBILE BRIDGE ADAPTERS
G	SUBSYSTEM, MOBILE STAIRS
H	SUBSYSTEM, HOSE REELS
02	SYSTEM, PEOPLE MOVERS
A	SUBSYSTEM, ESCALATORS
B	SUBSYSTEM, MOVING WALKWAYS
C	SUBSYSTEM, ELEVATORS
03	SYSTEM, FIRE PROTECTION AND LIFE SAFETY
A	SUBSYSTEM, FIRE ALARM SYSTEM
B	SUBSYSTEM, WATER SUPPLY
C	SUBSYSTEM, HEADERS
D	SUBSYSTEM, SPRINKLER SYSTEMS
E	SUBSYSTEM, SPECIAL SUPPRESSION
F	SUBSYSTEM, FIRE EXTINGUISHERS
G	SUBSYSTEM, LIFE SAFETY/EGRESS
04	SYSTEM, HEALTH AND SAFETY
A	SUBSYSTEM, AEDS
B	SUBSYSTEM, EMERGENCY EYE WASH STATION
C	SUBSYSTEM, EMERGENCY SHOWER STATION
D	SUBSYSTEM, FIRST AID KITS
E	SUBSYSTEM, EMERGENCY CALL BOX
05	SYSTEM, BAGGAGE HANDLING SYSTEM
A	SUBSYSTEM, INDUCTION
B	SUBSYSTEM, RECALL
C	SUBSYSTEM, SORTATION
D	SUBSYSTEM, OUTBOUND
E	SUBSYSTEM, TRANSFER
F	SUBSYSTEM, INBOUND
06	SYSTEM, HVAC
A	SUBSYSTEM, AHU
B	SUBSYSTEM, AIR BOXES
C	SUBSYSTEM, FANS
D	SUBSYSTEM, FAN COIL UNITS
E	SUBSYSTEM, AC UNITS
F	SUBSYSTEM, HEAT EXCHANGERS
G	SUBSYSTEM, UNIT HEATERS

BLDGS	BUILDING SYSTEMS
07	SYSTEM, ROOMS
A	SUBSYSTEM, RESTROOM
B	SUBSYSTEM, FOOD SERVICE
C	SUBSYSTEM, STAIRWAYS
D	SUBSYSTEM, GENERAL
E	SUBSYSTEM, UTILITY
Y	SUBSYSTEM, ROOFS
08	SYSTEM, SANITARY WASTE
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, LIFT STATION
C	SUBSYSTEM, PUMPS
D	SUBSYSTEM, AGITATORS
E	SUBSYSTEM, GRINDER
F	SUBSYSTEM, GREASE TRAPS
G	SUBSYSTEM, OIL SEPARATORS
H	SUBSYSTEM, MANHOLES
09	SYSTEM, POTABLE WATER
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, WATER DISPENSERS
D	SUBSYSTEM, WATER HEATERS
E	SUBSYSTEM, BACKFLOW PREVENTORS
F	SUBSYSTEM, ICE MAKERS
G	SUBSYSTEM, METERS
H	SUBSYSTEM, PUMP
I	SUBSYSTEM, WATER TREATMENT
10	SYSTEM, RECLAIMED WATER
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, PUMPS
D	SUBSYSTEM, TANKS
11	SYSTEM, STORM WATER
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, HOLDING TANKS
D	SUBSYSTEM, PUMPS
E	SUBSYSTEM, OIL SEPARATORS
F	SUBSYSTEM, SNOW MELTER
G	SUBSYSTEM, MANHOLES
H	SUBSYSTEM, OUTFALLS
12	SYSTEM, CHILLED WATER
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, CHILLERS

BLDGS	BUILDING SYSTEMS
D	SUBSYSTEM, PUMPS
E	SUBSYSTEM, CHEMICAL FEEDERS
F	SUBSYSTEM, EXPANSION TANKS
13	SYSTEM, HOT WATER
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, BOILERS
D	SUBSYSTEM, PUMPS
E	SUBSYSTEM, CHEMICAL FEEDERS
F	SUBSYSTEM, EXPANSION TANKS
14	SYSTEM, STEAM
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, PUMPS
D	SUBSYSTEM, BOILERS
E	SUBSYSTEM, CHEMICAL FEEDERS
F	SUBSYSTEM, STEAM TRAPS
G	SUBSYSTEM, BLOW DOWN TANKS
H	SUBSYSTEM, DEAERATOR TANKS
15	SYSTEM, COOLING WATER
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, PUMPS
D	SUBSYSTEM, COOLING TOWERS
E	SUBSYSTEM, TREATMENT
16	SYSTEM, CONTROLS
A	SUBSYSTEM, SCADA STATIONS
B	SUBSYSTEM, HMI
C	SUBSYSTEM, FIELD CONTROLLERS
D	SUBSYSTEM, LOCAL NETWORK
E	SUBSYSTEM, DISPLAYS
F	SUBSYSTEM, PUBLIC ADDRESS
17	SYSTEM, SOLID WASTE
A	SUBSYSTEM, COMPACTION
B	SUBSYSTEM, DUMPSTERS
C	SUBSYSTEM, RECYCLE COLLECTION
D	SUBSYSTEM, TRASH COLLECTION
18	SYSTEM, FUEL
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, METERS
D	SUBSYSTEM, STORAGE
E	SUBSYSTEM, DISPENSING
F	SUBSYSTEM, TREATMENT

BLDGS	BUILDING SYSTEMS
G	SUBSYSTEM, PUMP STATIONS
19	SYSTEM, DEICING
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, PUMPS
D	SUBSYSTEM, STORAGE
E	SUBSYSTEM, RECOVERY
20	SYSTEM, SIGNAGE
A	SUBSYSTEM, WAY FINDING
B	SUBSYSTEM, REGULATORY
C	SUBSYSTEM, INFORMATIONAL
21	SYSTEM, PARKING
A	SUBSYSTEM, PAVEMENT
B	SUBSYSTEM, MARKINGS
C	SUBSYSTEM, BARRIERS
D	SUBSYSTEM, LIGHTING
E	SUBSYSTEM, GATES
F	SUBSYSTEM, SIGNAGE
G	SUBSYSTEM, FENCING
22	SYSTEM, COMPRESSED AIR
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, COMPRESSOR
D	SUBSYSTEM, FILTRATION
E	SUBSYSTEM, AIR DRYER
F	SUBSYSTEM, HOSE REEL
23	SYSTEM, VACUUM
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, VACUUM PUMP
D	SUBSYSTEM, COLLECTION
24	SYSTEM, STRUCTURAL
A	SUBSYSTEM, FOUNDATIONS
B	SUBSYSTEM, STRUCTURAL MEMBERS
C	SUBSYSTEM, EXPANSION JOINT
D	SUBSYSTEM, WALLS
E	SUBSYSTEM, WINDOW
F	SUBSYSTEM, LANDSCAPING
G	SUBSYSTEM, DOORS
H	SUBSYSTEM, DOCK LEVELERS
I	SUBSYSTEM, XRAY MACHINES
K	SUBSYSTEM, CATHODIC PROTECTION
L	SUBSYSTEM, LIGHTING
25	SYSTEM, ELECTRICAL

BLDGS	BUILDING SYSTEMS
A	SUBSYSTEM, SWITCHBOARD/GEAR
B	SUBSYSTEM, PANEL/BOARD
C	SUBSYSTEM, BREAKER
D	SUBSYSTEM, TRANSFORMER
E	SUBSYSTEM, TRANSFER SWITCH
F	SUBSYSTEM, CAPACITOR BANK
G	SUBSYSTEM, BUSS DUCT
H	SUBSYSTEM, METER
I	SUBSYSTEM, CHARGING STATION
J	SUBSYSTEM, DISCONNECT
K	SUBSYSTEM, UPS
L	SUBSYSTEM, CONSTANT CURRENT REGULATOR
M	SUBSYSTEM, MOTOR CONTROL PANEL
N	SUBSYSTEM, CIRCUIT RELAY
O	SUBSYSTEM, CIRCUIT
P	SUBSYSTEM, CIRCUIT CONTROL SWITCHING STATION
Q	SUBSYSTEM, CIRCUIT SWITCHING STATION
R	SUBSYSTEM, MANHOLES
S	SUBSYSTEM, POWER POLE
T	SUBSYSTEM, SUBSTATION
U	SUBSYSTEM, DISTRIBUTION LINES
30	SYSTEM, SMALL STRUCTURES
A	SUBSYSTEM, SECURITY BOOTHS
B	SUBSYSTEM, EQUIPMENT STRUCTURES
C	SUBSYSTEM, EQUIPMENT STORAGE
D	SUBSYSTEM, CASHIER BOOTHS

TABLE 2.02: DISTRIBUTED HIERARCHY

DSTRB	DISTRIBUTED SYSTEMS
40	SYSTEM, LIGHTING
A	SUBSYSTEM, STREET LIGHTS
B	SUBSYSTEM, TRAFFIC LIGHTS
C	SUBSYSTEM, LIGHT CONTROL
41	SYSTEM, MARKINGS
A	SUBSYSTEM, CENTERLINES
B	SUBSYSTEM, EDGE LINES
C	SUBSYSTEM, LANE DIVIDERS
D	SUBSYSTEM, PEDESTRIAN MARKINGS
E	SUBSYSTEM, PARKING LINES
42	SYSTEM, PAVEMENT
A	SUBSYSTEM, MAIN OBJECT
B	SUBSYSTEM, INTERSECTION
C	SUBSYSTEM, SHOULDER
D	SUBSYSTEM, SURFACE SENSORS
43	SYSTEM, SIGNAGE
A	SUBSYSTEM, WAY FINDING
B	SUBSYSTEM, REGULATORY
C	SUBSYSTEM, INFORMATIONAL
D	SUBSYSTEM, WARNING
44	SYSTEM, DRAINAGE
A	SUBSYSTEM, CATCH BASINS
B	SUBSYSTEM, CULVERTS
C	SUBSYSTEM, DITCHES
E	SUBSYSTEM, HEADWALLS
F	SUBSYSTEM, PONDS
G	SUBSYSTEM, SUB DRAINS
H	SUBSYSTEM, RIP RAP
45	SYSTEM, BRIDGES
A	SUBSYSTEM, EXPANSION JOINTS
B	SUBSYSTEM, BRIDGE DECKS
C	SUBSYSTEM, PIERS
E	SUBSYSTEM, APPROACH SLABS
F	SUBSYSTEM, ABUTMENTS
46	SYSTEM, BARRIERS
A	SUBSYSTEM, JERSEY
B	SUBSYSTEM, GUARD RAILS
C	SUBSYSTEM, FLEX POSTS
D	SUBSYSTEM, FENCING
E	SUBSYSTEM, CRASH ATTENUATORS
F	SUBSYSTEM, GATES
47	SYSTEM, SUPPORT
A	SUBSYSTEM, CURBS

DSTRB	DISTRIBUTED SYSTEMS
B	SUBSYSTEM, SIDEWALKS
C	SUBSYSTEM, RETAINING WALLS
D	SUBSYSTEM, LEVEES
48	SYSTEM, TUNNELS
A	SUBSYSTEM, VENTILATION
B	SUBSYSTEM, FIRE SUPPRESSION
C	SUBSYSTEM, STRUCTURAL
51	SYSTEM, SIGNAGE
A	SUBSYSTEM, WAY FINDING
B	SUBSYSTEM, REGULATORY
C	SUBSYSTEM, INFORMATIONAL
D	SUBSYSTEM, WARNING
52	SYSTEM, TRAIN TRACK
A	SUBSYSTEM, TRACK
B	SUBSYSTEM, CABLE
C	SUBSYSTEM, PILLARS
D	SUBSYSTEM, BEARINGS
53	SYSTEM, CARS
A	SUBSYSTEM, WHEELS
B	SUBSYSTEM, DOORS
C	SUBSYSTEM, SEATING
D	SUBSYSTEM, SIGNAGE
54	SYSTEM, FENCING
A	SUBSYSTEM, POSTS
B	SUBSYSTEM, FENCING
C	SUBSYSTEM, GATES
D	SUBSYSTEM, CRASH BARRIERS
55	SYSTEM, FEATURES
A	SUBSYSTEM, FOUNTAINS
B	SUBSYSTEM, STATUES
C	SUBSYSTEM, ARTWORK
D	SUBSYSTEM, DECORATIVE WALLS
56	SYSTEM, IRRIGATION
A	SUBSYSTEM, SPRINKLERS
B	SUBSYSTEM, PIPING
C	SUBSYSTEM, PUMPS
D	SUBSYSTEM, RETENTION PONDS
57	SYSTEM, PLANTS
A	SUBSYSTEM, TREES/SHRUBS
B	SUBSYSTEM, TURF/GRASS
C	SUBSYSTEM, FLOWER BEDS
D	SUBSYSTEM, HEDGES
58	SYSTEM, ACS
A	SUBSYSTEM, PANELS

DSTRB	DISTRIBUTED SYSTEMS
B	SUBSYSTEM, CONTROL MODULES
C	SUBSYSTEM, CABLING
D	SUBSYSTEM, LOCAL NETWORK
E	SUBSYSTEM, SCADA STATIONS
F	SUBSYSTEM, HMI
59	SYSTEM, CCTV
A	SUBSYSTEM, CAMERAS
B	SUBSYSTEM, MOUNTS
C	SUBSYSTEM, CABLING
D	SUBSYSTEM, NETWORK DEVICES
E	SUBSYSTEM, RECORDING DEVICES
60	SYSTEM, CITY WATER
A	SUBSYSTEM, PIPING
B	SUBSYSTEM, VALVES
C	SUBSYSTEM, METERS
D	SUBSYSTEM, HYDRANTS
E	SUBSYSTEM, BACKFLOW PREVENTORS

TABLE 2.03: FLEET HIERARCHY

FLEET	FLEET SYSTEMS
70	SYSTEM, LIGHT VEHICLES
A	SUBSYSTEM, SEDAN
B	SUBSYSTEM, VAN
C	SUBSYSTEM, SUV
D	SUBSYSTEM, PICKUP
E	SUBSYSTEM, MOTORCYCLE
71	SYSTEM, MEDIUM VEHICLES
A	SUBSYSTEM, MEDIUM TRUCK
B	SUBSYSTEM, SINGLE PURPOSE
72	SYSTEM, HEAVY VEHICLES
A	SUBSYSTEM, HEAVY TRUCK
B	SUBSYSTEM, SINGLE PURPOSE
C	SUBSYSTEM, BUS
73	SYSTEM, PORTABLE EQUIP
A	SUBSYSTEM, SMALL ENGINE - LANDSCAPING
B	SUBSYSTEM, SMALL ENGINE - CONSTRUCTION
C	SUBSYSTEM, SMALL ENGINE - CLEANING
74	SYSTEM, TRAILERS
A	SUBSYSTEM, TOWED SIGNAGE
B	SUBSYSTEM, TRAILERS
C	SUBSYSTEM, TOWED EQUIP
75	SYSTEM, LIGHT SPECIALTY EQUIP
A	SUBSYSTEM, ATVS
B	SUBSYSTEM, UTVS
C	SUBSYSTEM, GOLF CART
D	SUBSYSTEM, SNOW MOBILES
76	SYSTEM, HEAVY SPECIALTY EQUIP
A	SUBSYSTEM, EARTH MOVING EQUIP
B	SUBSYSTEM, TRACTOR
C	SUBSYSTEM, CRANE
D	SUBSYSTEM, FORKLIFT
E	SUBSYSTEM, LIFT-HOIST
F	SUBSYSTEM, PERSONNEL LIFT
G	SUBSYSTEM, PEOPLE MOVERS
77	SYSTEM, STATIONARY EQUIP
A	SUBSYSTEM, GENERATOR
B	SUBSYSTEM, SNOW MELTER
78	SYSTEM, ATTACHMENTS
A	SUBSYSTEM, ATTACHMENTS

TABLE 2.04: AIRSIDE HIERARCHY

AIRSD	AIRSIDE SYSTEMS
90	SYSTEM, AF LIGHTING
A	SUBSYSTEM, BEACON
B	SUBSYSTEM, OBSTRUCTION
C	SUBSYSTEM, APPROACH
D	SUBSYSTEM, RUNWAY STATUS
E	SUBSYSTEM, RUNWAY
F	SUBSYSTEM, TAXIWAY
G	SUBSYSTEM, WIND CONES
H	SUBSYSTEM, RETROREFLECTORS
J	SUBSYSTEM, MISCELLANEOUS LIGHTING
91	SYSTEM, AF MARKINGS
A	SUBSYSTEM, CENTERLINES
B	SUBSYSTEM, AIMING POINTS
C	SUBSYSTEM, BLAST PADS
D	SUBSYSTEM, DESIGNATIONS
E	SUBSYSTEM, DRAINAGE
F	SUBSYSTEM, DISPLACED RUNWAY THRESHOLDS
G	SUBSYSTEM, HOLD POSITIONS
H	SUBSYSTEM, LIGHTS
I	SUBSYSTEM, SLIDE SLOPES
J	SUBSYSTEM, TOUCHDOWN ZONES
K	SUBSYSTEM, THRESHOLDS
L	SUBSYSTEM, TRANVERSE STRIPES
S	SUBSYSTEM, EDGE
T	SUBSYSTEM, TOUCHDOWN
92	SYSTEM, AF SIGNAGE
A	SUBSYSTEM, DIRECTIONAL
B	SUBSYSTEM, HOLD
C	SUBSYSTEM, INFORMATIONAL
E	SUBSYSTEM, ELECTRONIC SIGN BOARDS
F	SUBSYSTEM, WARNING
G	SUBSYSTEM, REGULATORY
93	SYSTEM, AF NAV-AIDS
A	SUBSYSTEM, GLIDE PATHS
B	SUBSYSTEM, LOCALIZERS
C	SUBSYSTEM, TRANSMISSOMETERS
94	SYSTEM, RAMP MARKINGS
A	SUBSYSTEM, RAMP SAFETY LINE
B	SUBSYSTEM, BRIDGE HOME POSITION
C	SUBSYSTEM, BRIDGE PARKING BOX
D	SUBSYSTEM, BRIDGE PARKING CIRCLE
E	SUBSYSTEM, EQUIPMENT RESTRAINT
F	SUBSYSTEM, HARDSTAND

AIRSD	AIRSIDE SYSTEMS
G	SUBSYSTEM, LEAD-IN LINE
H	SUBSYSTEM, LOWER DECK ULD BOX
I	SUBSYSTEM, PASSENGER PATH
J	SUBSYSTEM, RED HATCHED
K	SUBSYSTEM, AIRCRAFT STAND TAXI
L	SUBSYSTEM, RAMP SAFETY LINE
M	SUBSYSTEM, DESIGNATED PARKING BOX
N	SUBSYSTEM, GSE PARKING BOX
O	SUBSYSTEM, VEHICLE CORRIDOR
95	SYSTEM, AF AREA TYPE
A	SUBSYSTEM, GRASS/TURF
B	SUBSYSTEM, GRAVEL
C	SUBSYSTEM, CONCRETE/ASPHALT
D	SUBSYSTEM, UNMANAGED
96	SYSTEM, AF FENCING
A	SUBSYSTEM, POSTS
B	SUBSYSTEM, FENCING
C	SUBSYSTEM, GATES
D	SUBSYSTEM, CRASH BARRIERS
97	SYSTEM, AIRFIELD MISCELLANEOUS
A	SUBSYSTEM, BLAST FENCES
B	SUBSYSTEM, PEST ABATEMENT

TABLE 2.05: ASSET NOMENCLATURE AND ATTRIBUTION

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
01	A:GATE	A:GPU	GPU HOIST TYPE	0	1	0		ALN	YES	
01	A:GATE	A:GPU	GPU KVA OUTPUT	0	1	1	OUTPUT:	NUMERIC	NO	KVA
01	A:GATE	A:GPU	GPU NUMBER OF CABLES	0	1	0		ALN	YES	
01	A:GATE	A:GPU	GPU VAC INPUT	0	1	0		ALN	YES	VAC
01	A:GATE	A:GPU	GPU VOLT OUTPUT TYPE	0	1	1	VOLT TYPE:	ALN	YES	
01	A:GATE	A:HSR	HSR HOSE LENGTH	1	0	1	HOSE LENGTH:	NUMERIC	NO	FT
01	A:GATE	A:HSR	HSR MOUNT TYPE	1	0	1	MOUNT:	ALN	YES	
01	A:GATE	A:MBA	MBA TYPE	0	1	1	TYPE:	ALN	YES	
01	A:GATE	A:MOBILE STAIR	MSW TYPE	0	1	1	TYPE:	ALN	YES	
01	A:GATE	A:PBB	PBB DRIVE TYPE	0	1	0		ALN	YES	
01	A:GATE	A:PBB	PBB LIFT COLUMN TYPE	0	1	0		ALN	YES	
01	A:GATE	A:PBB	PBB NUMBER TUNNEL SECTIONS	0	1	0	SECTIONS:	ALN	YES	
01	A:GATE	A:PBB	PBB OUTRIGGER	0	1	0		ALN	YES	
01	A:GATE	A:PBB	PBB TIRE TYPE	0	1	0		ALN	YES	
01	A:GATE	A:PCA	PCA COOLING TYPE	0	1	0		ALN	YES	
01	A:GATE	A:PCA	PCA HEATING CAPACITY	0	1	0		NUMERIC	NO	KW
01	A:GATE	A:PCA	PCA NUMBER OF HOSES	0	1	0	HOSES:	ALN	YES	
01	A:GATE	A:PCA	PCA TONS	0	1	1		NUMERIC	NO	TONS
01	A:GATE	A:PCA	PCA VOLTAGE	0	1	1		ALN	YES	VAC
01	A:GATE	A:PWC	PWC ALSO SERVES GATE	1	0	1	ALSO SERVES GATE:	ALN	YES	
01	A:GATE	A:PWC	PWC HOSE DIAMETER	0	1	0		ALN	YES	IN
01	A:GATE	A:PWC	PWC SERIAL NUMBER	0	1	1	S/N:	ALN	NO	
01	A:GATE	A:VDGS	VDGS MOUNT TYPE	1	0	1	MOUNT:	ALN	YES	
01	A:GATE	A:VDGS	VDGS TYPE	1	0	1	TYPE:	ALN	YES	
01	A:GATE		GATE NUMBER	1	0	1	ON GATE:	ALN	YES	
02	A:PEOPLE MOVER	A:ELEVATOR	ELEVATOR CAPACITY	0	1	0		NUMERIC	NO	LBS
02	A:PEOPLE MOVER	A:ELEVATOR	ELEVATOR FLOORS SERVED	1	0	0		ALN	YES	
02	A:PEOPLE MOVER	A:ELEVATOR	ELEVATOR HIGH LEVEL	1	0	0		ALN	YES	
02	A:PEOPLE MOVER	A:ELEVATOR	ELEVATOR LENGTH	0	1	0		NUMERIC	NO	IN
02	A:PEOPLE MOVER	A:ELEVATOR	ELEVATOR LOW LEVEL	1	0	0		ALN	YES	
02	A:PEOPLE MOVER	A:ELEVATOR	ELEVATOR NUMBER OF DOORS	0	1	0		ALN	YES	
02	A:PEOPLE MOVER	A:ELEVATOR	ELEVATOR PASSENGER FACING?	1	0	0		ALN	YES	
02	A:PEOPLE MOVER	A:ELEVATOR	ELEVATOR PRIMARY USE	1	0	1	PRIM USE:	ALN	YES	
02	A:PEOPLE MOVER	A:ELEVATOR	ELEVATOR TYPE	0	1	1	TYPE:	ALN	YES	
02	A:PEOPLE MOVER	A:ELEVATOR	ELEVATOR WIDTH	0	1	0		NUMERIC	NO	IN
02	A:PEOPLE MOVER	A:ESCALATOR	ESCALATOR HIGH LEVEL	1	0	0		ALN	YES	
02	A:PEOPLE MOVER	A:ESCALATOR	ESCALATOR LOW LEVEL	1	0	0		ALN	YES	
02	A:PEOPLE MOVER	A:ESCALATOR	ESCALATOR WIDTH	0	1	1	WIDTH:	ALN	YES	
02	A:PEOPLE MOVER	A:MOVING WALKWAY	MOVING WALKWAY DIRECTION	1	0	1	DIRECTION:	ALN	YES	
02	A:PEOPLE MOVER	A:MOVING WALKWAY	MOVING WALKWAY LENGTH	0	1	0	LENGTH:	NUMERIC	NO	FT

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
02	A:PEOPLE MOVER	A:MOVING WALKWAY	MOVING WALKWAY WIDTH	0	1	0	WIDTH:	ALN	YES	
02	A:PEOPLE MOVER		PMD CRITICAL UNIT	1	0	1	CRIT?:	ALN	YES	
02	A:PEOPLE MOVER		PMD INSTALL CODE	0	1	0		ALN	NO	
02	A:PEOPLE MOVER		PMD JOB NUMBER	0	1	0		ALN	NO	
02	A:PEOPLE MOVER		PMD SERIAL NUMBER	0	1	0	S/N:	ALN	NO	
03	A:FPLS	A:ACCESSORY	ACCESSORY TYPE	1	1	1	TYPE:	ALN	YES	
03	A:FPLS	A:EMERGENCY LIGHT	EMERGENCY LIGHTING TYPE	1	0	1	TYPE:	ALN	YES	
03	A:FPLS	A:EXIT SIGN	EXIT SIGN TYPE	1	0	1	TYPE:	ALN	YES	
03	A:FPLS	A:FIRE EXTINGUISHER	FIRE EXTINGUISHER AGENT	0	1	1	AGENT:	ALN	YES	
03	A:FPLS	A:FIRE EXTINGUISHER	FIRE EXTINGUISHER SIZE	1	1	1	SIZE:	NUMERIC	NO	LBS
03	A:FPLS	A:FIRE EXTINGUISHER	FIRE EXTINGUISHER TYPE	0	1	1	TYPE:	ALN	YES	
03	A:FPLS	A:FIRE HOSE CABINET	FIRE HOSE AUXILLARY CONNECTION	1	0	1	AUX:	ALN	YES	
03	A:FPLS	A:FIRE HOSE CABINET	FIRE HOSE PRIMARY CONNECTION	1	0	1	PRI:	ALN	YES	
03	A:FPLS	A:FIRE PANEL	FIRE PANEL TYPE	1	0	1	TYPE:	ALN	YES	
03	A:FPLS	A:FIRE PUMP	PUMP CAPACITY	1	0	1		NUMERIC	NO	GPM
03	A:FPLS	A:FIRE PUMP	PUMP FUNCTION	0	1	1		ALN	YES	
03	A:FPLS	A:FIRE PUMP	PUMP HORSEPOWER	0	1	1		NUMERIC	NO	HP
03	A:FPLS	A:FIRE PUMP	PUMP TYPE	0	1	1		ALN	YES	
03	A:FPLS	A:FPLS STORAGE	CHEMICAL TYPE	1	0	1	TYPE:	ALN	YES	
03	A:FPLS	A:INITIATING	INITIATING TYPE	1	0	1	TYPE:	ALN	YES	
03	A:FPLS	A:MISC DEVICE	MISC DEVICE TYPE	1	0	1	TYPE:	ALN	YES	
03	A:FPLS	A:PIPING	SPRINKLER TYPE	1	0	1	TYPE:	ALN	YES	
03	A:FPLS	A:SIGNALING	SIGNALING DEVICE TYPE	1	0	1	TYPE:	ALN	YES	
03	A:FPLS	A:TANK	FPLS TANK TYPE	0	1	1	TYPE:	ALN	YES	
03	A:FPLS	A:VALVE	VALVE ACTUATOR TYPE	0	1	1	ACTUATOR TYPE:	ALN	YES	
03	A:FPLS	A:VALVE	VALVE FUNCTION	1	0	1	FUNC:	ALN	YES	
03	A:FPLS	A:VALVE	VALVE NOMINAL SIZE	1	0	1	SIZE:	ALN	YES	IN
03	A:FPLS	A:VALVE	VALVE PROCESS	0	1	1	PROCESS:	ALN	YES	
03	A:FPLS	A:VALVE	VALVE TYPE	0	1	0	TYPE:	ALN	YES	
03	A:FPLS		FPLS COMPONENT ADDRESS	1	0	0	ADDR:	ALN	NO	
03	A:FPLS		FPLS SYSTEM CIRCUIT	0	1	1	CIRCUIT:	ALN	NO	
03	A:FPLS		FPLS SYSTEM LOOP	1	0	1	LOOP:	ALN	YES	
03	A:FPLS		FPLS SYSTEM NODE	1	0	1	NODE:	ALN	NO	
04	A:EMERGENCY SHOWER		EMERGENCY SHOWER TEMP CONTROL	1	0	1		ALN	YES	
04	A:EMERGENCY SHOWER		EMERGENCY SHOWER TYPE	1	0	1	TYPE:	ALN	YES	
04	A:EMERGENCYCALLBOX		FUNCTION	1	0	1	FUNC:	ALN	YES	
04	A:EMERGENCYCALLBOX		TYPE	1	0	1	TYPE:	ALN	YES	
04	A:EYE WASH		EYEWASH TEMP CONTROL	1	0	0		ALN	YES	
04	A:EYE WASH		EYEWASH TYPE	1	1	1	TYPE:	ALN	YES	
04	A:FIRST AID KIT		FIRST AID TYPE	1	0	1	TYPE:	ALN	YES	
05	A:BHS	A:AUTOMATIC TAG READER	ATR NUMBER OF HEADS	0	1	0		NUMERIC	NO	
05	A:BHS	A:AUTOMATIC TAG READER	ATR SCAN TYPE	0	1	1		ALN	YES	

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
05	A:BHS	A:BAGGAGE CHUTE	CHUTE TYPE	0	1	1		ALN	YES	
05	A:BHS	A:CAROUSEL	BHS BELT MOTOR GEAR RATIO	0	1	0		NUMERIC	NO	
05	A:BHS	A:CAROUSEL	BHS CAR PONY MOTOR?	0	1	0		ALN	YES	
05	A:BHS	A:CAROUSEL	BHS CAR VFD	0	1	0		ALN	YES	
05	A:BHS	A:CAROUSEL	BHS CAROUSEL STYLE	0	1	0	STYLE:	ALN	YES	
05	A:BHS	A:CAROUSEL	BHS DRIVE TYPE	0	1	0	DRV TYPE:	ALN	YES	
05	A:BHS	A:CAROUSEL	BHS NUMBER OF DRIVE MOTORS	0	1	0		ALN	YES	
05	A:BHS	A:CONVEYOR	BHS BELT MOTOR GEAR RATIO	0	1	0		NUMERIC	NO	
05	A:BHS	A:CONVEYOR	BHS BELT MOTOR KW	0	1	0		NUMERIC	NO	KW
05	A:BHS	A:CONVEYOR	BHS BELT MOTOR VFD	0	1	0		ALN	YES	
05	A:BHS	A:CONVEYOR	BHS BELT TYPE	0	1	0		ALN	YES	
05	A:BHS	A:CONVEYOR	BHS CNV AMT OF DEGREES OR PITCH	0	1	0	PITCH:	NUMERIC	NO	
05	A:BHS	A:CONVEYOR	BHS CNV DEGREES ANGLE	0	1	1	ANGLE:	NUMERIC	NO	DEG
05	A:BHS	A:CONVEYOR	BHS CNV PITCH	0	1	1	PITCH DIR:	ALN	YES	
05	A:BHS	A:CONVEYOR	BHS CNV TYPE	0	1	1	TYPE:	ALN	YES	
05	A:BHS	A:CONVEYOR	BHS CNV UNIT OF MEASURE	0	1	0		ALN	YES	
05	A:BHS	A:CONVEYOR	BHS DRIVE TYPE	0	1	0	DRV TYPE:	ALN	YES	
05	A:BHS	A:DIVERTER	DIV 1ST PLOW MOTOR GEAR RATIO	0	1	0		NUMERIC	NO	
05	A:BHS	A:DIVERTER	DIV 1ST PLOW MOTOR KW	0	1	0		NUMERIC	NO	KW
05	A:BHS	A:DIVERTER	DIV FACE MOTOR GEAR RATIO	0	1	0		NUMERIC	NO	
05	A:BHS	A:DIVERTER	DIV FACE MOTOR KW	0	1	0		NUMERIC	NO	KW
05	A:BHS	A:DIVERTER	DIV NUMBER OF MOTORS	0	1	0		ALN	YES	
05	A:BHS	A:DIVERTER	DIV TYPE	0	1	0	TYPE:	ALN	YES	
05	A:BHS	A:FIRE SECURITY DOOR	BHS DOOR FUNCTION	0	1	1	FUNC:	ALN	YES	
05	A:BHS	A:FIRE SECURITY DOOR	BHS DOOR HEIGHT	0	1	0	H:	NUMERIC	NO	MM
05	A:BHS	A:FIRE SECURITY DOOR	BHS DOOR SECURITY TYPE	0	1	0		ALN	YES	
05	A:BHS	A:FIRE SECURITY DOOR	BHS DOOR SPEED	0	1	1	SPEED:	ALN	YES	
05	A:BHS	A:FIRE SECURITY DOOR	BHS DOOR WIDTH	0	1	0	W:	NUMERIC	NO	MM
05	A:BHS	A:SCALE	SCALE TYPE	0	1	1	TYPE:	ALN	YES	
05	A:BHS	A:SELF SERVE BAG DROP	ATR NUMBER OF HEADS	0	1	0		NUMERIC	NO	
05	A:BHS	A:SELF SERVE BAG DROP	ATR SCAN TYPE	0	1	1		ALN	YES	
05	A:BHS	A:SELF SERVE BAG DROP	SSBD TABLET TYPE	0	1	0		ALN	YES	
05	A:BHS	A:SELF SERVE BAG DROP	SSBD TYPE	0	1	0	TYPE:	ALN	YES	
05	A:BHS	A:TILT TRAY SYSTEM	BHS BELT MOTOR KW	0	1	0		NUMERIC	NO	KW
05	A:BHS	A:TILT TRAY SYSTEM	BHS NUMBER OF TRAYS	0	1	0	TRAYS:	NUMERIC	NO	
05	A:BHS	A:TILT TRAY SYSTEM	BHS TILT NUMBER OF LINEAR MOTORS	0	1	0		ALN	YES	
05	A:BHS	A:VERTICAL BAG LIFT	BHS BELT MOTOR GEAR RATIO	0	1	0		NUMERIC	NO	
05	A:BHS	A:VERTICAL BAG LIFT	BHS BELT MOTOR KW	0	1	0		NUMERIC	NO	KW
05	A:BHS	A:VERTICAL BAG LIFT	BHS BELT MOTOR VFD	0	1	0		ALN	YES	
05	A:BHS	A:VERTICAL BAG LIFT	BHS BELT TYPE	0	1	0		ALN	YES	
05	A:BHS	A:VERTICAL BAG LIFT	BHS VDZ LIFT MOTOR GEAR RATIO	0	1	0		NUMERIC	NO	
05	A:BHS	A:VERTICAL BAG LIFT	BHS VDZ LIFT MOTOR KW	0	1	0		NUMERIC	NO	KW

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
05	A:BHS	A:VERTICAL BAG LIFT	BHS VDZ RISE	0	1	0		NUMERIC	NO	MM
05	A:BHS	A:VERTICAL BAG LIFT	BHS VDZ TYPE	0	1	1	TYPE:	ALN	YES	
05	A:BHS	A:VERTICAL SORTATION UNIT	BHS BELT MOTOR GEAR RATIO	0	1	0		NUMERIC	NO	
05	A:BHS	A:VERTICAL SORTATION UNIT	BHS BELT MOTOR KW	0	1	0		NUMERIC	NO	KW
05	A:BHS	A:VERTICAL SORTATION UNIT	BHS BELT MOTOR VFD	0	1	0		ALN	YES	
05	A:BHS	A:VERTICAL SORTATION UNIT	BHS BELT TYPE	0	1	0		ALN	YES	
05	A:BHS	A:VERTICAL SORTATION UNIT	BHS DRIVE TYPE	0	1	0		ALN	YES	
05	A:BHS	A:VERTICAL SORTATION UNIT	BHS VSU LIFT MOTOR GEAR RATIO	0	1	0		NUMERIC	NO	
05	A:BHS	A:VERTICAL SORTATION UNIT	BHS VSU LIFT MOTOR KW	0	1	0		NUMERIC	NO	KW
05	A:BHS	A:VERTICAL SORTATION UNIT	BHS VSU TYPE	0	1	1	TYPE:	ALN	YES	
05	A:BHS	A:XRAY UNIT	BHS XRAY OWNER	0	1	0		ALN	YES	
05	A:BHS	A:XRAY UNIT	BHS XRAY THROUGHPUT	0	1	0		ALN	YES	
05	A:BHS		BHS LINE	1	0	1	LINE:	ALN	YES	
05	A:BHS		BHS MCP	1	0	1	MCP:	ALN	NO	
05	A:BHS		BHS SECTOR	1	0	1	ON:	ALN	YES	
05	A:BHS		BHS SIZE	0	1	1	SIZE:	ALN	YES	
06	A:HVAC	A:AC UNIT	ACU COOLING TYPE	0	1	1		ALN	YES	
06	A:HVAC	A:AC UNIT	ACU FCU LOCATION	1	0	0	FCU LOC:	ALN	NO	
06	A:HVAC	A:AC UNIT	ACU HEAT PUMP?	0	1	0	HEAT PUMP?:	ALN	YES	
06	A:HVAC	A:AC UNIT	ACU REFRIGERANT TYPE	0	1	0	REFRG:	ALN	YES	
06	A:HVAC	A:AC UNIT	ACU TONS	0	1	1		NUMERIC	NO	TONS
06	A:HVAC	A:AC UNIT	ACU TYPE	0	1	1	TYPE:	ALN	YES	
06	A:HVAC	A:AC UNIT	ACU VOLTAGE	0	1	0		ALN	YES	VAC
06	A:HVAC	A:AHU	AHU CONTROL CARD ADDRESS	0	1	0		ALN	NO	
06	A:HVAC	A:AHU	AHU COOLING TYPE	0	1	0		ALN	YES	
06	A:HVAC	A:AHU	AHU FAN DRIVE TYPE	0	1	0		ALN	YES	
06	A:HVAC	A:AHU	AHU MAX CFM	0	1	0		NUMERIC	NO	CFM
06	A:HVAC	A:AHU	AHU NUMBER OF COILS	0	1	1	# OF COILS:	ALN	YES	
06	A:HVAC	A:AHU	AHU REFRIGERANT TYPE	0	1	1	REFRG:	ALN	YES	
06	A:HVAC	A:AHU	AHU RETURN FAN	0	1	0		ALN	YES	
06	A:HVAC	A:AHU	AHU TONS	0	1	1		NUMERIC	NO	TONS
06	A:HVAC	A:AHU	AHU TYPE	0	1	1		ALN	YES	
06	A:HVAC	A:AHU	AHU VAC	0	1	1		ALN	YES	VAC
06	A:HVAC	A:AIR BOX	AIR BOX CONTROL CARD ADDRESS	1	0	0		ALN	NO	
06	A:HVAC	A:AIR BOX	AIR BOX MAX CFM	0	1	1	MAX:	NUMERIC	NO	CFM
06	A:HVAC	A:AIR BOX	AIR BOX MIN CFM	0	1	1	MIN:	NUMERIC	NO	CFM
06	A:HVAC	A:AIR BOX	AIR BOX REHEAT	0	1	1	REHEAT:	ALN	YES	
06	A:HVAC	A:AIR BOX	AIR BOX TYPE	0	1	1	TYPE:	ALN	YES	
06	A:HVAC	A:FAN	FAN DRIVE TYPE	0	1	1		ALN	YES	
06	A:HVAC	A:FAN	FAN MAX CFM	0	1	0		NUMERIC	NO	CFM
06	A:HVAC	A:FAN	FAN TYPE	1	0	1		ALN	YES	
06	A:HVAC	A:FAN	FAN VOLTAGE	0	1	1		ALN	YES	VAC

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
06	A:HVAC	A:FAN COIL UNIT	FCU BTU	0	1	1		NUMERIC	NO	BTU
06	A:HVAC	A:FAN COIL UNIT	FCU FAN DRIVE TYPE	0	1	1		ALN	YES	
06	A:HVAC	A:FAN COIL UNIT	FCU MOTOR HP	0	1	0		ALN	NO	HP
06	A:HVAC	A:FAN COIL UNIT	FCU REHEAT TYPE	0	1	1	REHEAT TYPE:	ALN	YES	
06	A:HVAC	A:FAN COIL UNIT	FCU VOLTAGE	0	1	1		ALN	YES	VAC
06	A:HVAC	A:HEAT EXCHANGER	HX BTU	0	1	1		NUMERIC	NO	BTU
06	A:HVAC	A:HEAT EXCHANGER	HX INPUT TYPE	0	1	1		ALN	YES	
06	A:HVAC	A:HEAT EXCHANGER	HX PUMP PRESENT?	0	1	0		ALN	YES	
06	A:HVAC	A:HEAT EXCHANGER	HX PUMP VOLTAGE	0	1	0		ALN	YES	VAC
06	A:HVAC	A:HEAT EXCHANGER	HX TYPE	0	1	1		ALN	YES	BTU
06	A:HVAC	A:UNIT HEATER	UH HEAT TYPE	0	1	1		ALN	YES	
06	A:HVAC	A:UNIT HEATER	UH HEATING CAPACITY	0	1	0		NUMERIC	NO	
06	A:HVAC	A:UNIT HEATER	UH TYPE	0	1	1	TYPE:	ALN	YES	
06	A:HVAC	A:UNIT HEATER	UH UNIT OF MEASURE	0	1	0		ALN	YES	
06	A:HVAC		AHS NUMBER	1	0	1	ON SYSTEM:	ALN	NO	
06	A:HVAC		CONTROL TYPE	1	0	1	CTRL:	ALN	YES	
07	A:ROOMS	A:FOOD SERVICE	FOOD SERVICE TYPE	1	1	1		ALN	YES	
07	A:ROOMS	A:GENERAL	GENERAL SPACE TYPE	1	1	1		ALN	YES	
07	A:ROOMS	A:RESTROOM	NUMBER OF SINKS	0	1	0		NUMERIC	NO	
07	A:ROOMS	A:RESTROOM	NUMBER OF TOILETS	0	1	0		NUMERIC	NO	
07	A:ROOMS	A:RESTROOM	NUMBER OF URINALS	0	1	0		NUMERIC	NO	
07	A:ROOMS	A:RESTROOM	RESTROOM TYPE	1	1	1		ALN	YES	
07	A:ROOMS	A:ROOF	ROOF AREA	1	0	1		ALN	NO	
07	A:ROOMS	A:ROOF	ROOF MATERIAL OF CONSTRUCTION	0	1	1	MOC:	ALN	YES	
07	A:ROOMS	A:ROOF	ROOF TYPE	0	1	1	TYPE:	ALN	YES	
07	A:ROOMS	A:STAIRWAY	ENCLOSED	1	1	1	ENCLOSED?:	ALN	YES	
07	A:ROOMS	A:STAIRWAY	HIGHEST LEVEL	1	1	1	HIGHEST LEVEL:	ALN	YES	
07	A:ROOMS	A:STAIRWAY	LEVELS SERVED	1	1	1	LEVELS SERVED:	ALN	YES	
07	A:ROOMS	A:STAIRWAY	LOWEST LEVEL	1	1	1	LOWEST LEVEL:	ALN	YES	
07	A:ROOMS	A:UTILITY	UTILITY TYPE	1	1	1		ALN	YES	
07	A:ROOMS		AREA	1	1	1		ALN	YES	
07	A:ROOMS		LEVEL	1	1	1		ALN	YES	
07	A:ROOMS		OCCUPANCY	1	1	1		ALN	YES	
08	A:AGITATOR		AGITATOR HORSEPOWER	0	1	1		NUMERIC	NO	HP
08	A:AGITATOR		AGITATOR PROP DIAMETER	0	1	1	PROP DIAM:	NUMERIC	NO	IN
08	A:AGITATOR		AGITATOR VOLTS	0	1	1		ALN	YES	VAC
08	A:GREASE STORAGE		COLLECTION TANK CAPACITY	1	0	1		NUMERIC	NO	GAL
08	A:GREASE TRAP		GREASE TRAP CAPACITY	0	1	1		NUMERIC	NO	GAL
08	A:GREASE TRAP		GREASE TRAP TYPE	0	1	1	TYPE:	ALN	YES	
08	A:GREASE TRAP		GREASE TRAP USE	1	0	1	USE:	ALN	YES	
08	A:GRINDER		GRINDER HORSE POWER	0	1	1		NUMERIC	NO	HP
08	A:GRINDER		GRINDER TYPE	0	1	1	TYPE:	ALN	YES	

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
08	A:GRINDER		GRINDER VOLTS	0	1	1		ALN	YES	VAC
08	A:MANHOLE		MANHOLE CAPACITY	1	0	1		ALN	NO	GAL
08	A:MANHOLE		MANHOLE DIAMETER	1	0	1		NUMERIC	NO	IN
08	A:OIL SEPARATOR		OIL SEPARATOR CAPACITY	0	1	1		NUMERIC	NO	GAL
08	A:OIL SEPARATOR		OIL SEPARATOR OIL CAPACITY	0	1	1	OIL CAP:	NUMERIC	NO	GAL
08	A:OIL SEPARATOR		OIL SEPARATOR TYPE	0	1	1	TYPE:	ALN	YES	
08	A:PUMP		PUMP CAPACITY	1	0	1		NUMERIC	NO	GPM
08	A:PUMP		PUMP HORSEPOWER	0	1	1		NUMERIC	NO	HP
08	A:PUMP		PUMP POSITION	1	0	1	POS:	ALN	YES	
08	A:PUMP		PUMP TYPE	0	1	1	TYPE:	ALN	YES	
08	A:PUMP		PUMP VOLTS	0	1	1		ALN	YES	VAC
08	A:SUMP		ON LIFT STATION	1	0	1	ON LIFT STATION:	ALN	NO	
08	A:SUMP		SUMP CAPACITY	1	0	1		NUMERIC	NO	GAL
08	A:SUMP		SUMP DEPTH	1	0	1		NUMERIC	NO	FT
08	A:SUMP		SUMP DIAMETER	1	0	1		NUMERIC	NO	FT
09	A:BACKFLOW PREVENTOR		BACKFLOW PREVENTOR CAPACITY	0	1	0		NUMERIC	NO	GPM
09	A:BACKFLOW PREVENTOR		BACKFLOW PREVENTOR SERIAL NUMBER	0	1	1	S/N:	ALN	NO	
09	A:BACKFLOW PREVENTOR		BACKFLOW PREVENTOR SERVICE	1	0	1	SERVES:	ALN	NO	
09	A:BACKFLOW PREVENTOR		BACKFLOW PREVENTOR TYPE	0	1	1	TYPE:	ALN	YES	
09	A:ICE MAKER		ICE MAKER FILTERED?	0	1	0		ALN	YES	
09	A:ICE MAKER		ICE MAKER STORAGE CAPACITY	0	1	1		ALN	NO	GAL
09	A:METER		FLUID TYPE	1	0	1	FLUID TYPE:	ALN	YES	
09	A:METER		METER SIZE	0	1	1		ALN	YES	IN
09	A:METER		METER TYPE	0	1	1	TYPE:	ALN	YES	
09	A:TREATMENT		WATER TREATMENT CAPACITY						NO	
09	A:TREATMENT		WATER TREATMENT TYPE	1	1	1	TYPE:	ALN	YES	
09	A:VALVE		FLUID TYPE	1	0	1	FLUID TYPE:	ALN	YES	
09	A:VALVE		VALVE ACTUATOR TYPE	0	1	1		ALN	YES	
09	A:VALVE		VALVE FUNCTION	1	0	1	FUNC:	ALN	YES	
09	A:VALVE		VALVE NOMINAL SIZE	1	0	1		ALN	YES	IN
09	A:VALVE		VALVE TYPE	0	1	0	TYPE:	ALN	YES	
09	A:WATER DISPENSER		WATER DISPENSER COOLED?	0	1	0		ALN	YES	
09	A:WATER DISPENSER		WATER DISPENSER FILTERED?	0	1	0		ALN	YES	
09	A:WATER DISPENSER		WATER DISPENSER TYPE	0	1	1	TYPE:	ALN	YES	
09	A:WATER HEATER		WATER HEATER HEATING CAPACITY	0	1	0		NUMERIC	NO	
09	A:WATER HEATER		WATER HEATER HEATING CAPACITY UOM	0	1	0		ALN	YES	
09	A:WATER HEATER		WATER HEATER SIZE	0	1	0		NUMERIC	NO	
09	A:WATER HEATER		WATER HEATER SIZE UOM	0	1	0		ALN	YES	
09	A:WATER HEATER		WATER HEATER TYPE	0	1	1	TYPE:	ALN	YES	

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
11	A:HOLDING TANK		HOLDING TANK CAPACITY	0	1	1		NUMERIC	NO	GAL
11	A:HOLDING TANK		HOLDING TANK MATERIAL OF CONSTRUCTION	0	1	1		ALN	YES	
12	A:CHEMICAL FEEDER		CHEMICAL TREATMENT INJECTION TYPE	0	1	1		ALN	YES	
12	A:CHILLER		CHILLER CONDENSER TYPE	0	1	0		ALN	YES	
12	A:CHILLER		CHILLER EVAPORATOR TYPE	0	1	1		ALN	YES	
12	A:CHILLER		CHILLER POSITION	0	1	1		ALN	YES	
12	A:CHILLER		CHILLER REFRIGERANT TYPE	0	1	0	REFRG:	ALN	YES	
12	A:CHILLER		CHILLER TONS	0	1	1		NUMERIC	NO	TONS
12	A:CHILLER		CHILLER TYPE	0	1	0	TYPE:	ALN	YES	
13	A:BOILER		BOILER FUEL TYPE	0	1	1	FUEL:	ALN	YES	
13	A:BOILER		BOILER HP	0	1	1		NUMERIC	NO	HP
13	A:BOILER		BOILER POSITION	1	0	1		ALN	YES	
13	A:BOILER		BOILER TYPE	0	1	1	TYPE:	ALN	YES	
13	A:BOILER		BOILER VOLTAGE	0	1	1		ALN	YES	
13	A:EXPANSION TANK		EXPANSION TANK CAPACITY	0	1	1		NUMERIC	NO	GAL
13	A:PIPING		PIPE FLUID TYPE	1	0	1		ALN	YES	
13	A:PIPING		PIPE RETURN ENDING SIZE	0	1	1		ALN	YES	IN
13	A:PIPING		PIPE SUPPLY STARTING SIZE	0	1	1		ALN	YES	IN
13	A:PIPING		PIPE TEMPERATURE SET POINT	0	1	0		NUMERIC	NO	DEG F
14	A:DEAERATOR TANK		DA TANK CAPACITY	0	1	1		NUMERIC	NO	GAL
15	A:COOLING TOWER		COOLING TOWER POSITION	1	0	1		ALN	YES	
15	A:COOLING TOWER		COOLING TOWER TONS	0	1	1		NUMERIC	NO	TONS
15	A:COOLING TOWER		COOLING TOWER TYPE	0	1	1	TYPE:	ALN	YES	
15	A:COOLING TOWER		COOLING TOWER VOLTAGE	0	1	1		ALN	YES	
15	A:TREATMENT		CHEMICAL TREATMENT INJECTION TYPE	0	1	1		ALN	YES	
16	A:CONTROLS	A:DISPLAY	DISPLAY POSITION	0	1	1		ALN	YES	
16	A:CONTROLS	A:DISPLAY	DISPLAY SIZE	0	1	1		NUMERIC	NO	IN
16	A:CONTROLS	A:FIELD CONTROLLER	CONTROLLER ADDRESS	0	1	1	ADDR:	ALN	NO	
16	A:CONTROLS	A:HMI	HMI OPERATING SYSTEM	0	1	1	OPER SYS:	ALN	NO	
16	A:CONTROLS	A:HMI	HMI TYPE	0	1	1	TYPE:	ALN	YES	
16	A:CONTROLS	A:SERVER	SERVER OPERATING SYSTEM	0	1	0	OPER SYS:	ALN	NO	
16	A:CONTROLS	A:SERVER	SERVER SOFTWARE NAME	0	1	1		ALN	NO	
16	A:CONTROLS	A:SERVER	SERVER SOFTWARE VERSION	0	1	1	VER:	ALN	NO	
16	A:CONTROLS	A:SERVER	SERVER TYPE	0	1	0	TYPE:	ALN	YES	
16	A:CONTROLS		CONTROLS INSTALLER NAME	1	0	0		ALN	NO	
16	A:CONTROLS		CONTROLS SYSTEM NAME	1	0	1		ALN	NO	
16	A:CONTROLS		INSTALL PROJECT ID	1	0	0		ALN	NO	
16	A:CONTROLS		NETWORK TYPE	1	0	0		ALN	YES	
17	A:COLLECTION		TRASH CONTAINER SIZE	1	0	1		NUMERIC	NO	GAL
17	A:COLLECTION		TRASH CONTAINER TYPE	1	0	1		ALN	YES	
17	A:COMPACTION		COMPACTOR MATERIAL	1	0	1	MATL:	ALN	YES	
17	A:COMPACTION		COMPACTOR VOLTAGE	0	1	1		ALN	YES	VAC

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
17	A:COMPACTION		COMPACTOR VOLUME	0	1	1		ALN	NO	CUFT
17	A:RECYCLING		RECYCLE CONTAINER MATERIAL	1	0	1	MATL:	ALN	YES	
17	A:RECYCLING		RECYCLE CONTAINER SIZE	1	0	1		NUMERIC	NO	GAL
17	A:RECYCLING		RECYCLE CONTAINER TYPE	1	0	1		ALN	YES	
18	A:DISPENSING		FUEL TYPE	1	0	1	TYPE:	ALN	YES	
18	A:STORAGE		FUEL TYPE	1	0	1	TYPE:	ALN	YES	
18	A:TREATMENT		FUEL TYPE	1	0	1	TYPE:	ALN	YES	
22	A:AIR DRYER		AIR DRYER TYPE	0	1	1	TYPE:	ALN	YES	
22	A:COMPRESSOR		COMPRESSOR DRIVE TYPE	0	1	0		ALN	YES	
22	A:COMPRESSOR		COMPRESSOR OILLESS?	0	1	0		ALN	YES	
22	A:COMPRESSOR		COMPRESSOR TYPE	0	1	1	TYPE:	ALN	YES	
22	A:COMPRESSOR		COMPRESSOR VOLTAGE	0	1	1		ALN	YES	VAC
22	A:FILTRATION		FILTER CARTRIDGE PART NUMBER	0	1	1	CART:	ALN	YES	
22	A:HOSE REEL		HOSE DIAMETER	0	1	1	DIA:	ALN	YES	IN
22	A:HOSE REEL		HOSE LENGTH	0	1	1		NUMERIC	NO	FT
24	A:DOCKLEVELER		LOAD CAPACITY	1	1	0		ALN	NO	
24	A:DOORS	A:OVERHEAD DOOR	DOOR GROUND LOOP	1	0	0		ALN	YES	
24	A:DOORS	A:OVERHEAD DOOR	DOOR PHOTO EYE	1	0	0		ALN	YES	
24	A:DOORS	A:OVERHEAD DOOR	DOOR TYPE	0	1	0		ALN	YES	
24	A:DOORS	A:OVERHEAD DOOR	SAFETY EDGE	1	0	0		ALN	YES	
24	A:DOORS	A:SWINGING DOOR	DOOR HOLD OPEN TYPE	1	0	0		ALN	YES	
24	A:DOORS	A:SWINGING DOOR	DOOR LOCK TYPE	1	0	0		ALN	YES	
24	A:DOORS	A:SWINGING DOOR	DOOR POWER TRANSFER HINGE	1	0	0		ALN	YES	
24	A:DOORS		DOOR AUTOMATIC	1	0	1	AUTO:	ALN	YES	
24	A:DOORS		DOOR EGRESS	1	0	1	EGRESS:	ALN	YES	
24	A:DOORS		DOOR EMERGENCY EXIT	1	0	1	EM EXIT:	ALN	YES	
24	A:DOORS		DOOR FIRE RATING	1	0	0		ALN	YES	
24	A:DOORS		DOOR FROM ROOM	1	0	1	FROM:	ALN	NO	
24	A:DOORS		DOOR MATERIAL OF CONSTRUCTION	0	1	1	MOC:	ALN	YES	
24	A:DOORS		DOOR ON PSL?	1	0	1	PSL:	ALN	YES	
24	A:DOORS		DOOR SECTORIZATION	1	0	0		ALN	YES	
24	A:DOORS		DOOR SECURITY TYPE	1	0	0		ALN	YES	
24	A:DOORS		DOOR TO ROOM NUMBER	1	0	1	TO:	ALN	NO	
24	A:SKYLIGHT		WINDOW GLAZING TYPE	0	1	1	GLAZING:	ALN	YES	
24	A:SKYLIGHT		WINDOW THERMAL RATING	0	1	1	THERMAL:	ALN	YES	
24	A:SKYLIGHT		WINDOW TYPE	0	1	1	TYPE:	ALN	YES	
24	A:WALL		WALL CLADDING TYPE	0	1	1	CLADDING:	ALN	YES	
24	A:WALL		WALL STRUCTURE TYPE	0	1	1	TYPE:	ALN	YES	
25	A:ELECTRICAL	A:BREAKER	BREAKER FRAME SIZE	0	1	1	FRAME:	NUMERIC	NO	A
25	A:ELECTRICAL	A:BREAKER	BREAKER INTERRUPTING CAPACITY	0	1	0		NUMERIC	NO	KA
25	A:ELECTRICAL	A:BREAKER	BREAKER PANEL ID	1	0	1	IN PANEL:	ALN	NO	
25	A:ELECTRICAL	A:BREAKER	BREAKER PROTECTION RELAY	0	1	0		ALN	YES	

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY INST AMPS	0	1	0		NUMERIC	NO	A
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY INST SETTING	0	1	0		ALN	NO	
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY LT TRIP AMPS	0	1	0		NUMERIC	NO	A
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY LTD	0	1	0		NUMERIC	NO	
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY LTPU SETTING	0	1	0		NUMERIC	NO	
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY PLUG	0	1	0		NUMERIC	NO	A
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY SENSOR/FRAME AMPS	0	1	0		NUMERIC	NO	A
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY STPU AMPS	0	1	0		NUMERIC	NO	A
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY STPU BAND	0	1	0		NUMERIC	NO	
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY STPU I2T	0	1	0		ALN	YES	
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY STPU SETTING	0	1	0		NUMERIC	NO	
25	A:ELECTRICAL	A:BREAKER	BREAKER TRIP RELAY TYPE	0	1	0		ALN	NO	
25	A:ELECTRICAL	A:BREAKER	BREAKER TYPE	0	1	1	TYPE:	ALN	YES	
25	A:ELECTRICAL	A:CAPACITOR BANK	CAPACITOR BANK RATING	0	1	1	RATING:	NUMERIC	NO	KVAR
25	A:ELECTRICAL	A:CHARGING STATION	CHARGING STATION LEVEL	0	1	1		ALN	YES	
25	A:ELECTRICAL	A:CHARGING STATION	CHARGING STATION PLUG TYPE	0	1	1	PLUG:	ALN	YES	
25	A:ELECTRICAL	A:CHARGING STATION	CHARGING STATION TYPE	0	1	1	TYPE:	ALN	YES	
25	A:ELECTRICAL	A:DISCONNECT	DISCONNECT FUSE AMPS	1	0	1		NUMERIC	NO	A
25	A:ELECTRICAL	A:DISCONNECT	DISCONNECT FUSE TYPE	1	0	1		ALN	NO	
25	A:ELECTRICAL	A:MCP	BHS MCP FIELD BUS	0	1	0		ALN	YES	
25	A:ELECTRICAL	A:MCP	BHS MCP FUSED DISCONNECT AMPS	0	1	0		NUMERIC	NO	AMPS
25	A:ELECTRICAL	A:MCP	MCP I/O TYPE	0	1	0		ALN	YES	
25	A:ELECTRICAL	A:METER	METER TYPE	0	1	1	TYPE:	ALN	YES	
25	A:ELECTRICAL	A:PANEL BOARD	PANEL/BOARD ENVIRONMENT	1	0	1	ENV:	ALN	YES	
25	A:ELECTRICAL	A:PANEL BOARD	PANEL/BOARD INTERRUPTING CAPACITY	0	1	0		NUMERIC	NO	KA
25	A:ELECTRICAL	A:PANEL BOARD	PANEL/BOARD TYPE	1	0	1	TYPE:	ALN	YES	
25	A:ELECTRICAL	A:SWITCHBOARD GEAR	SWITCHBOARD INTERRUPTING CAPACITY	0	1	0		NUMERIC	NO	KA
25	A:ELECTRICAL	A:TRANSFER SWITCH	TRANSFER SWITCH TYPE	1	1	1	TYPE:	ALN	YES	
25	A:ELECTRICAL	A:TRANSFORMER	TRANSFORMER COOLING TYPE	0	1	0		ALN	YES	
25	A:ELECTRICAL	A:TRANSFORMER	TRANSFORMER K FACTOR	0	1	0		ALN	YES	
25	A:ELECTRICAL	A:TRANSFORMER	TRANSFORMER OUTPUT VOLTAGE	0	1	1	OUTPUT:	ALN	YES	
25	A:ELECTRICAL	A:TRANSFORMER	TRANSFORMER SIZE	0	1	1	SIZE:	ALN	NO	KVA
25	A:ELECTRICAL	A:TRANSFORMER	TRANSFORMER TYPE	0	1	1	TYPE:	ALN	YES	
25	A:ELECTRICAL	A:UPS	UPS BATTERY CABINET VOLTAGE	0	1	0		NUMERIC	NO	VDC
25	A:ELECTRICAL	A:UPS	UPS BATTERY VOLTAGE	0	1	0		ALN	YES	VDC
25	A:ELECTRICAL	A:UPS	UPS NUMBER OF BATTERIES IN CABINET	0	1	0		NUMERIC	NO	CNT
25	A:ELECTRICAL	A:UPS	UPS TYPE	0	1	1		ALN	YES	
25	A:ELECTRICAL		ELECTRICAL CURRENT RATING	0	1	1		NUMERIC	NO	A
25	A:ELECTRICAL		ELECTRICAL DISTRIBUTION SYSTEM	1	0	1	SYSTEM:	ALN	YES	
25	A:ELECTRICAL		ELECTRICAL PHASE	0	1	1		ALN	YES	PH
25	A:ELECTRICAL		ELECTRICAL UPSTREAM DEVICE	1	0	1	UPSTREAM DEVICE:	ALN	YES	

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
25	A:ELECTRICAL		ELECTRICAL VOLTAGE RATING	0	1	1		ALN	YES	VAC
42	A:PAVEMENT		PAVEMENT TYPE	1	0	1	TYPE:	ALN	YES	
42	A:SURFACE SENSOR		MAXIMUM OPERATING TEMPERATURE	1	0	1	MAX:	ALN	NO	
42	A:SURFACE SENSOR		MINIMUM OPERATING TEMPERATURE	1	0	1	MIN:	ALN	NO	
58	A:CONTROL MODULE		ACS CONTROL MODULE TYPE	1	0	0		ALN	YES	
58	A:CONTROL MODULE		ACS CONTROLLED DOOR NUMBER	1	0	0		ALN	NO	
58	A:HMI		HMI OPERATING SYSTEM	0	1	1		ALN	YES	
58	A:HMI		HMI TYPE	0	1	1		ALN	YES	
58	A:PANEL		ACS INSTALLER NAME	1	0	0		ALN	YES	
58	A:SCADA STATION		SCADA OPERATING SYSTEM	0	1	0		ALN	YES	
58	A:SCADA STATION		SCADA SOFTWARE NAME	0	1	1		ALN	YES	
58	A:SCADA STATION		SCADA SOFTWARE VERSION	0	1	1		ALN	YES	
60	A:BACKFLOW PREVENTOR		BACKFLOW PREVENTOR CAPACITY	0	1	0		NUMERIC	NO	GPM
60	A:BACKFLOW PREVENTOR		BACKFLOW PREVENTOR SERIAL NUMBER	0	1	1	S/N:	ALN	NO	
60	A:BACKFLOW PREVENTOR		BACKFLOW PREVENTOR SERVICE	1	0	1	SERVES:	ALN	NO	
60	A:BACKFLOW PREVENTOR		BACKFLOW PREVENTOR TYPE	0	1	1	TYPE:	ALN	YES	
60	A:HYDRANT		HYDRANT NOZZLE BURIED DEPTH	0	1	0		ALN	NO	FT
60	A:HYDRANT		HYDRANT NOZZLE SIZE	0	1	0		ALN	YES	
60	A:HYDRANT		HYDRANT OWNER	0	1	0		ALN	YES	
60	A:HYDRANT		HYDRANT SERIAL NUMBER	0	1	0	S/N:	ALN	NO	
60	A:HYDRANT		HYDRANT TEST ID	0	1	0		ALN	NO	
60	A:HYDRANT		HYDRANT TYPE	0	1	0		ALN	YES	
70	A:FLEET	A:PICKUP	PICKUP TYPE	1	1	1		ALN	YES	
70	A:FLEET	A:SEDAN	SEDAN TYPE	1	1	1		ALN	YES	
70	A:FLEET	A:SUV	SUV TYPE	1	1	1		ALN	YES	
70	A:FLEET	A:VAN	VAN TYPE	1	1	1		ALN	YES	
70	A:FLEET		ASSIGNED DEPARTMENT	1	0	1	DEPT:	ALN	YES	
70	A:FLEET		CLASS CODE DESCRIPTION	0	1	0		ALN	NO	
70	A:FLEET		EMERGENCY TYPE	1	0	1	EMERG:	ALN	YES	
70	A:FLEET		ENGINE DISPLACEMENT	0	1	0		ALN	NO	
70	A:FLEET		ENGINE FAMILY	0	1	0		ALN	NO	
70	A:FLEET		ENGINE HORSEPOWER	0	1	0		ALN	NO	
70	A:FLEET		ENGINE S/N	0	1	0		ALN	NO	
70	A:FLEET		ENGINE TIER	0	1	0		ALN	NO	
70	A:FLEET		ENGINE YEAR	0	1	0		ALN	NO	
70	A:FLEET		FLEET FUEL TYPE	0	1	1	FUEL:	ALN	YES	
70	A:FLEET		GROSS VEHICLE WEIGHT	0	1	1	GVW:	ALN	NO	
71	A:FLEET	A:MED SINGLE PURPOSE TRK	MED SINGLE PURPOSE TYPE	1	1	1		ALN	YES	
71	A:FLEET	A:MEDIUM TRUCK	MEDIUM TRUCK TYPE	1	1	1		ALN	YES	

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
71	A:FLEET		AGGREGATE ENGINE DISPLACEMENT	0	1	0		ALN	NO	
71	A:FLEET		AGGREGATE ENGINE FAMILY	0	1	0		ALN	NO	
71	A:FLEET		AGGREGATE ENGINE HORSEPOWER	0	1	0		ALN	NO	
71	A:FLEET		AGGREGATE ENGINE S/N	0	1	0		ALN	NO	
71	A:FLEET		AGGREGATE ENGINE TIER	0	1	0		ALN	NO	
71	A:FLEET		AGGREGATE ENGINE YEAR	0	1	0		ALN	NO	
72	A:FLEET	A:BUS	BUS TYPE	1	1	1		ALN	YES	
72	A:FLEET	A:HEAVY TRUCK	HEAVY VEHICLE TYPE	1	1	1		ALN	YES	
72	A:FLEET	A:HVY SINGLE PURPOSE TRK	HVY SINGLE PURPOSE TYPE	1	1	1		ALN	YES	
73	A:FLEET	A:CLEANING EQUIP	CLEANING EQUIP TYPE	1	1	1		ALN	YES	
73	A:FLEET	A:CONSTRUCTION EQUIP	CONSTRUCTION EQUIP TYPE	1	1	1		ALN	YES	
73	A:FLEET	A:LANDSCAPING EQUIP	LANDSCAPING EQUIP TYPE	1	1	1		ALN	YES	
74	A:FLEET	A:TOWED EQUIP	TOWED EQUIP TYPE	1	1	1		ALN	YES	
74	A:FLEET	A:TOWED SIGNAGE	TOWED SIGNAGE TYPE	1	1	1		ALN	YES	
74	A:FLEET	A:TRAILER	TRAILER TYPE	1	1	1		ALN	YES	
76	A:FLEET	A:EARTH MOVING EQUIP	EARTH MOVING TYPE	1	1	1		ALN	YES	
76	A:FLEET	A:FORKLIFT	FORKLIFT TYPE	1	1	1		ALN	YES	
76	A:FLEET	A:LIFT HOIST	HOIST TYPE	1	1	1		ALN	YES	
76	A:FLEET	A:PEOPLE MOVER	PEOPLE MOVER TYPE	1	1	1		ALN	YES	
76	A:FLEET	A:PERSONNEL LIFT	PERSONNEL LIFT TYPE	1	1	1		ALN	YES	
76	A:FLEET	A:TRACTOR	TRACTOR TYPE	1	1	1		ALN	YES	
78	A:FLEET	A:ATTACHMENT	ATTACHMENT TYPE	1	1	1		ALN	YES	
79	A:FLEET	A:RESCUE BOAT	RESCUE BOAT TYPE	1	1	1		ALN	YES	
79	A:FLEET	A:UTILITY BOAT	UTILITY BOAT TYPE	1	1	1		ALN	YES	
90	A:AF LIGHT	A:APPROACH LIGHT	APPROACH LIGHT COLOR	1	1	1	COLOR:	ALN	YES	
90	A:AF LIGHT	A:APPROACH LIGHT	APPROACH LIGHT FAA DESIGNATION	1	1	1	FAA DESIG:	ALN	YES	
90	A:AF LIGHT	A:APPROACH LIGHT	APPROACH LIGHT TYPE	1	0	1	TYPE:	ALN	YES	
90	A:AF LIGHT	A:BEACON	BEACON LIGHT COLOR	1	1	1	COLOR:	ALN	YES	
90	A:AF LIGHT	A:BEACON	BEACON LIGHT FAA DESIGNATION	1	1	1	FAA DESIG:	ALN	YES	
90	A:AF LIGHT	A:BEACON	BEACON LIGHT TYPE	1	1	1	TYPE:	ALN	YES	
90	A:AF LIGHT	A:LIGHTED WINDCONE	LIGHTED WINDCONE FAA DESIGNATION	1	1	1	FAA DESIG:	ALN	YES	
90	A:AF LIGHT	A:LIGHTED WINDCONE	LIGHTED WINDCONE SIZE	1	1	1	SIZE:	ALN	YES	
90	A:AF LIGHT	A:LIGHTED WINDCONE	LIGHTED WINDCONE STYLE	1	1	1	STYLE:	ALN	YES	
90	A:AF LIGHT	A:LIGHTED WINDCONE	WINDCONE OBSTRUCTION LIGHT PRESENT?	1	0	0		ALN	YES	
90	A:AF LIGHT	A:MISCELLANEOUS LIGHT	MISC LIGHT TYPE	1	1	1	TYPE:	ALN	YES	
90	A:AF LIGHT	A:OBSTRUCTION LIGHT	OBSTRUCTION LIGHT FAA DESIGNATION	1	1	1	FAA DESIG:	ALN	YES	
90	A:AF LIGHT	A:OBSTRUCTION LIGHT	OBSTRUCTION LIGHT TYPE	1	1	1	TYPE:	ALN	YES	
90	A:AF LIGHT	A:RUNWAY LIGHT	RUNWAY LIGHT COLOR	1	1	1	COLOR:	ALN	YES	
90	A:AF LIGHT	A:RUNWAY LIGHT	RUNWAY LIGHT FAA DESIGNATION	1	1	1	FAA DESIG:	ALN	YES	
90	A:AF LIGHT	A:RUNWAY LIGHT	RUNWAY LIGHT TYPE	1	0	1	TYPE:	ALN	YES	
90	A:AF LIGHT	A:RUNWAY STATUS LIGHT	RUNWAY STATUS LIGHT COLOR	1	1	1	COLOR:	ALN	YES	
90	A:AF LIGHT	A:RUNWAY STATUS LIGHT	RUNWAY STATUS LIGHT FAA DESIGNATION	1	1	1	FAA DESIG:	ALN	YES	

System	Asset Level 1	Asset Level 2	Description	use with loc	use with asset	use in desc	Prefix	Type Desc	Domain	Measure Unit
90	A:AF LIGHT	A:RUNWAY STATUS LIGHT	RUNWAY STATUS LIGHT TYPE	1	0	1	TYPE:	ALN	YES	
90	A:AF LIGHT	A:TAXIWAY LIGHT	TAXIWAY LIGHT COLOR	1	1	1	COLOR:	ALN	YES	
90	A:AF LIGHT	A:TAXIWAY LIGHT	TAXIWAY LIGHT FAA DESIGNATION	1	1	1	FAA DESIG:	ALN	YES	
90	A:AF LIGHT	A:TAXIWAY LIGHT	TAXIWAY LIGHT TYPE	1	0	1	TYPE:	ALN	YES	
90	A:AF LIGHT		AF LAMP TYPE	0	1	1	LAMP TYPE:	ALN	YES	
90	A:AF LIGHT		AF LIGHT BEAM CHARACTERISTIC	0	1	1	BEAM:	ALN	YES	
90	A:AF LIGHT		AF LIGHT DIAMETER	0	1	1	DIA:	ALN	YES	IN
90	A:AF LIGHT		AF LIGHT DIRECTION	1	1	1	DIRECTION:	ALN	YES	
90	A:AF LIGHT		AF LIGHT ELEVATION	1	0	0		ALN	NO	
90	A:AF LIGHT		AF LIGHT ORIENTATION	1	0	1	ORIENT:	ALN	YES	
90	A:AF LIGHT		AF LIGHT PLUG TYPE	0	1	0		ALN	YES	
90	A:AF LIGHT		AF LIGHT POWER	0	1	1	POWER:	ALN	YES	
90	A:AF LIGHT		CIRCUIT NUMBER	1	0	1	CIRCUIT #:	ALN	NO	
90	A:RETROREFLECTOR		RETROREFLECTOR COLOR	1	1	1	COLOR:	ALN	YES	
90	A:RETROREFLECTOR		RETROREFLECTOR STYLE	1	1	1	STYLE:	ALN	YES	
90	A:RETROREFLECTOR		RETROREFLECTOR TYPE	1	1	1	TYPE:	ALN	YES	
92	A:AF SIGN	A:DIRECTIONAL SIGN	AF SIGN ROTATION DEGS OFF NORTH	1	0	0		NUMERIC	NO	DEG
92	A:AF SIGN	A:DIRECTIONAL SIGN	AF SIGN SIZE	0	1	1	SIZE:	ALN	YES	
92	A:AF SIGN	A:DIRECTIONAL SIGN	AF SIGN TYPE	0	1	1	TYPE:	ALN	YES	
92	A:AF SIGN		AF MISC SIGN VOLTAGE	1	0	1	POWER:	ALN	YES	
92	A:AF SIGN		AF SIGN CLASS	1	1	0		ALN	YES	
92	A:AF SIGN		AF SIGN MESSAGE	1	0	1		ALN	NO	
92	A:AF SIGN		AF SIGN MODE	1	0	1		ALN	YES	
92	A:AF SIGN		AF SIGN STYLE	0	1	1	STYLE:	ALN	YES	
92	A:AF SIGN		CIRCUIT NUMBER	1	0	1		ALN	NO	
92	A:AF SIGN		FAA SIGN DESGNATION	1	0	1		ALN	YES	

APPENDICES:

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CREDITS

This manual was developed for and coordinated with the Aviation Department of the City of Austin and the AUS Asset Management Department. It is a tool that is provided to assist in the implementation of Asset Management as required per AUS standards and contracts.

Please direct any questions about this manual to the AUS Project Manager. Please do not contact any of the other contributors pertaining to this manual.

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