



EXPRO National Manual for Projects Management

Volume 6, chapter 6

Graphical Blocks and Symbols Guide



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Graphical Blocks and Symbols Guide

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Graphical Blocks and Symbols Guide

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Graphical Blocks and Symbols Guide

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Graphical Blocks and Symbols Guide

1.0 PURPOSE

The purpose of this document is to provide a visual guide to the designer for placing standard symbols available as blocks to be inserted from files created from the EXPRO AutoCAD drawing templates.

2.0 SCOPE

The General symbols are available as AutoCAD blocks in all of the EXPRO AutoCAD templates shown below. Discipline specific symbols (or functional blocks) are shown in the respective discipline templates. The blocks following the National CAD Standards – United States (NCS) symbols have a numerical name while the balance of EXPRO symbols begin with an alphabetical letter.

Use of the NCS General Symbols is mandatory on all projects while

CAD TEMPLATE TYPE	TEMPLATE FILE NAME
General	EPM-KED-TP-000001
Architectural	EPM-KED-TP-000002
Civil	EPM-KED-TP-000003
Electrical	EPM-KED-TP-000004
Fire Protection	EPM-KED-TP-000005
Landscape	EPM-KED-TP-000006
Mechanical	EPM-KED-TP-000007
Piping/Plumbing	EPM-KED-TP-000008
Structural	EPM-KED-TP-000009
Geotechnical	EPM-KED-TP-000010
Telecommunications	EPM-KED-TP-000011
Safety & Security	EPM-KED-TP-000012
Utilities	EPM-KED-TP-000013
Process & Instrumentation	EPM-KED-TP-000014



3.0 ACRONYMS

Definitions	Description
CAD	Computer-Aided Design
NCS	National CAD Standards – United States.
A/E	Architect & Engineer

4.0 REFERENCES

- National CAD Standard – United States v6 - <https://www.nationalcadstandard.org/ncs6/index.php>
- EPM-KE0-PR-000008 - CAD Standards Procedure
- EPM-KE0-GL-000018 - Standard Drawing Template Guide

5.0 PROCEDURE

The Entity shall make the templates available to the A/E who will locate the CAD file templates at a network location accessible to their A/E Design Team. The A/E will select the appropriate elements from the CAD template for use on their projects. Double clicking the *.DWT file will open a new AutoCAD CAD file which contains the elements as set forth above.

Save the file to the desired working location and name in accordance with the CAD Standards Procedure referred to above.

The functional blocks embedded in the CAD template may not cover all the requirements of the project. Whenever the required symbols are not included in the CAD template, it is the A/E's responsibility to use standard symbols from IEC and/or ANSI libraries.

Notes to A/E Design Team:

- The attachments to this document, included for reference only, display all graphical/ functional blocks embedded in the various CAD templates.
- Drawing Units to be used and set in the templates is millimeters
- NCS blocks will default to factor = 25.4; other blocks will default to 1:1

6.0 ATTACHMENTS - GRAPHICAL BLOCKS AND SYMBOLS

1. General Symbols for all disciplines
2. Architectural Symbols
3. Electrical Symbols
4. Fire Protection Symbols
5. Landscape Symbols
6. Mechanical Symbols
7. Piping/Plumbing Symbols
8. Telecommunications Symbols
9. Safety and Security Symbols
10. Utilities Symbols



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Attachment 1 – General Symbols for all disciplines

SYMBOLS / BLOCKS	NAME	DESCRIPTION
	014200-072	NORTH INDICATOR
	014200-082	AZIMUTH INDICATOR
	014200-078	SECT INDICATORS FOR PARTIAL BUILDING
	014200-077	SECT INDICATORS FOR BUILDING WITH BREAK STD
	014200-020	DETAIL INDICATOR
	014200-029	EL INDICATOR INT
	014200-027	EL INDICATOR EXT
	014200-028	DWG BLOCK TITLE TYP
	014200-026	DWG BLOCK TITLE TYP



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	014200-078	SECTION INDICATORS FOR PARTIAL BLDG
	014200-071	MATCH LINE INDICATOR TYP
	014200-074	REV INDICATOR-SHOWN WITH REV CLOUD
	014200-074	REV INDICATOR
	014200-077	SECTION INDICATORS FOR BUILDING WITH BREAK STD
	014200-073	GRID INDICATOR
	014200-032	GRAPHIC SCALE 1 TO 5000
	014200-033	GRAPHIC SCALE 1 TO 2000
	014200-034	GRAPHIC SCALE 1 TO 1000
	014200-035	GRAPHIC SCALE 1 TO 500
	014200-036	GRAPHIC SCALE 1 TO 200
	014200-037	GRAPHIC SCALE 1 TO 100
	014200-038	GRAPHIC SCALE 1 TO 50
	014200-039	GRAPHIC SCALE 1 TO 30



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	014200-040	GRAPHIC SCALE 1 TO 20
	014200-041	GRAPHIC SCALE 1 TO 10
	014200-042	GRAPHIC SCALE 1 TO 5
	014200-043	GRAPHIC SCALE 1 TO 2
	014200-044	GRAPHIC SCALE 1 TO 1
	010000-001	COLUMN CIRCLE
	010000-002	COLUMN I BEAM
	0140000-001	EL LEVEL INDICATOR
	014200-079	WALL TYPE INDICATOR
	014200-075	IDENTIFIER WITH ROOM NAME & NO
	014200-020	DETAIL INDICATOR FOR DASHED CIR
	014200-021	DETAIL INDICATOR DASHED RECT
	014200-024	DIM LINE
	014200-079	WALL TYPE INDICATOR



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	014200-080	WDW TYPE IDENTIFIER
	014200-080	WDW TYPE IDENTIFIER
	014200-087	KEY NOTE INDICATOR FOR SEQUENTIALLY NUMBERED (NOT MASTERFORMAT LABELLED) KEYNOTES
	014200-083	KEY NOTE INDICATOR FOR MASTERFORMAT BASED KEYNOTES
	014200-075	ROOM IDENTIFIER WITH ROOM NAME & NO
	014200-076	ROOM IDENTIFIER WITH ROOM NAME & NO
	014200-025	DR MKR SYM
	014200-070	LVR TYPE IDENTIFIER
	014200-073	REF GRID INDICATOR - ALPHA
	014200-073	REF GRID INDICATOR - NUMBER
	014200-085	ID DEVICE INDICATOR
	014200-031	FURN FIXT & EQUIPMNT INDICATOR TYP
	014000-003	EL INDICAOR IN PLAN FIN GRADE OR FIN FLR LEVEL
	014000-005	ID PL CORNER INDICATOR EXST-TYP AT ALL PL CORNERS
	014000-008	ID PROP CORNER INDICATOR NEW-TYP AT ALL NEW PL CORNERS
	014200-031	FURN FIXT & EQUIP INDICATOR TYP

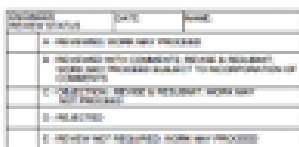


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	010000-003	COLUMN SQUARE
	014200-018	BREAK RND
	014200-022	DETAIL INDICATOR FOR SMALL COND
	014200-023	DIM LINE
	0140000-007	TEMP G POINT INDICATOR EXST
	0140000-008	TEMP G POINT INDICATOR NEW
	014200-019	BREAK STR
	014000-004	SURV MON INDICATOR IN PLAN
	014200-068	LDR CURVED
	014200-069	LDR STR
	010000-021	TEXT PLUS
	010000-022	TEXT PLUS OR MINUS
	010000-023	TEXT PROP LINE
	014000-002	BORING INDICATOR
	014200-066	INSERTION POINT
	010000-004	TEXT &
	010000-005	TEXT AT
	010000-006	TEXT CNT LINE
	010000-007	TEXT DEG



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/	010000-008	TEXT DIV BY PER
\$	010000-009	TEXT USD
=	010000-010	TEXT EQS EQ TO
X'	010000-011	TEXT FOOT FEET
>	010000-012	TEXT GREATER THAN
≥	010000-013	GREATER THAN OR EQ TO
X"	010000-014	TEXT INCH
<	010000-015	TEXT LESS THAN
≤	010000-016	TEXT LESS THAN OR EQ TO
-	010000-017	TEXT MINUS
X	010000-018	TEXT MULT BY
#	010000-019	TEXT NO LB
%	010000-020	TEXT PCT
	HOLD STAMP	HOLD STAMP
	ENGINEER STATUS	ENGINEER STATUS
	ALXX-WORK- PROG-STMP	WORK PROGRESS STAMP
	ALXX-CONS- STMP	CONSTRUCTION STAMP
	ALXX-LEVL- PLAN-0001	LEVEL PLAN
	ALXX-LEVL- SECT	SECTION LEVEL
	ALXX-LEVL- SECT-FFLX	SECTION FINISH LEVEL



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	ALXX-LVL- SECT-SSLX	SECTION STRUCTURE LEVEL
	ALXX-ELEV- LEFT	ELEVATION LEFT
	ALXX-ELEV- RIGHT	ELEVATION RIGHT



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Attachment 2 - Architectural Symbols

SYMBOLS / BLOCKS	NAME	DESCRIPTION
	072100-002	INSULATION LOOSE FILL OR BLANKET
	074000-001	SHIT MTL
	079200-001	SEALANT & BACKER ROD
	088000-001	GL
	088000-002	GL EL
	081000-009	SINGLE DOOR FULL SWING
	085000-001	WINDOW AWNING
	085000-002	WINDOW DOUBLE CASEMENT (INSWING)
	085000-003	WINDOW DOUBLE CASEMENT (OUTSWING)
	085000-004	WINDOW FIXED
	085000-005	WINDOW JALOUSIE
	085000-006	WINDOW PIVOT
	085000-007	PROJECTED BAY WITH CASEMENT WINDOWS
	085000-008	WINDOW PROJECTED BOW
	085000-009	WIINDOW PROJECTED BOX
	085000-010	WINDOW SINGLE, DOUBLE OR TRIPLE HUNG
	085000-011	WINDOW SINGLE CASEMENT LEFT JAMB HINGE
	085000-012	WINDOW SINGLE CASEMENT RIGHT JAMB HINGE



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	085000-013	WINDOW SLIDING RIGHT OPERATING SASH
	085000-014	WDW HOPPER
	087000-001	DOOR HARDWARE ELECTRIC OPENER
	087100-001	THRESHOLD
	081000-001	DOOR UNDERCUT
	081000-002	DOOR BIFOLDING
	081000-003	DOOR CENTER PIVOT
	081000-004	DOOR DOUBLE
	081000-005	DOOR DOUBLE EGRESS
	081000-006	DOOR DOUBLE SWING
	081000-007	DOOR DOUBLE UNEVEN
	081000-008	DOOR POCKET UNEVEN
	081000-010	DOOR SINGLE HINGED OR PIVOT
	081000-011	DOOR SLIDING
	081000-012	DOOR SLIDING SURFACE
	083300-001	DOOR COILING
	083400-001	DOOR REVOLVING DARK ROOM
	083600-001	DOOR OVERHEAD
	084200-001	DOOR REVOLVING



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	034100-001	BEAM PRCST DBL T SHAPE
	034800-001	PRCST CONC COMMS VAULT
	034800-002	PRCST CONC ELEC VAULT
	034800-003	PRCST CONC FUEL OIL VAULT
	034800-004	PRCST CONC MH XFMR VAULT
	034800-005	PRCST CONC TEL VAULT
	034800-006	PRCST CONC XFMR PAD
	034800-007	PRCST CONC VAULT NAT G VALVE
	050500-022	WELD SUP FIELD
	050500-023	WELD SUP FLUSH
	051000-001	BEAM STRUCT STL HP SHAPE
	051000-002	BEAM STRUCT STL M SHAPE
	051000-003	BEAM STRUCT STL S SHAPE
	051000-004	BEAM STRUCT STL W SHAPE
	051000-005	C CHANNEL MTL LT-GAGE
	051000-006	PIPE STD
	051000-007	STL L
	051000-008	STRUCT STL TEE ST SHAPE
	051000-009	STRUCT STL TEE WT SHAPE
	051000-010	STRUCT STL TEE Z SHAPE
	051000-011	STRUCT TUBING STL
	052000-001	BAR JOIST DBL STL
	052000-002	BAR JOIST SGL STL
	053000-001	MTL DECK CORRUGATED
	053000-002	MTL DECK FORM



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	053000-003	MTL DECK HI-FORM
	053000-004	MTL DECK RIBBED
	055000-001	SHT MTL & ALL
	050500-001	WELD BASIC BACK ARROW SIDE
	052000-001	WELD BASIC FIL ARROW SIDE
	050500-003	WELD BASIC FIL BOTH SIDES
	050500-004	WELD BASIC PLUG OR SLOT ARROW SIDE
	050500-005	WELD DBL BEV FIL BOTH SIDES
	050500-006	WELD DBL J GRV BOTH SIDES
	050500-007	WELD DBL U GRV BOTH SIDES
	050500-008	WELD DBL V GRV BOTH SIDES
	050500-009	WELD FLARE BEV ARROW SIDE
	050500-010	WELD FLARE BEV BOTH SIDE
	050500-011	WELD GRV FLARE V ARROW SIDE
	050500-012	WELD GRV FLARE V BOTH SIDES
	050500-013	WELD SGL BEV GRV ARROW SIDE
	050500-014	WELD SGL J GRV ARROW SIDE
	050500-015	WELD SGL U GRV ARROW SIDE
	050500-016	WELD SGL V GRV ARROW SIDE
	050500-017	WELD SQ GRV ARROW SIDE
	050500-018	WELD SQ GRV BOTH SIDES
	050500-019	WELD SUP ALL ARND
	050500-020	WELD SUP CONCAVE
	050500-021	WELD SUP CONVEX
	110000-001	CAN WASHER
	110000-002	RANGE
	110000-003	REFRIGERATOR

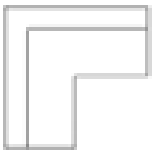
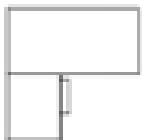
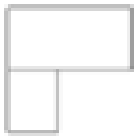
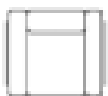
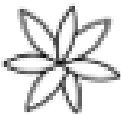


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	111200-001	PRKG CTRL EQUIP TRAFFIC ARM MECHANICAL SWING
	111200-002	PRKG CTRL EQUIP TRAFFIC ARM WITH CARD READER
	112400-001	VAC INLET
	112400-002	VAC PWR UNIT CENTRAL
	112400-003	VAC TOE-KICK INLET
	114800-001	DW
	115900-001	EASEL
	116200-001	INSTR EQUIP BELL
	117400-001	LAV DENTAL
	122200-001	CURT & DRAPES
	124000-001	TABLE LAMP
	125000-001	CHAIR CLRM
	125000-002	CHAIR WITH ARMS
	125000-003	CHAIR WITHOUT ARMS
	125000-004	CREDENZA
	125000-005	DESK CONSOLE



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	125000-006	DESK L UNIT LEFT RET
	125000-007	DESK LEFT RET
	125000-008	DESK SECRETARIAL LET RET
	125000-009	FILE LATL 4 DRAWER
	125000-010	SHV EQUIP
	125000-011	SOFA CHAIR
	125000-012	SOFA 3 CUSHION
	125000-013	SOFA 2 CUSHION
	125000-014	TABLE
	125000-015	TABLE SQ WITH ARMLESS CHAIRS
	126100-001	THEATER SEAT
	129200-001	PLANT INT OR ARTIFICIAL



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	101300-001	DIRECTORY WALL MOUNTED
	101700-001	TELEPHONE BOOTH
	104400-001	FIRE PROTECTION EXTINGUISHER CARBON DIOXIDE
	104400-002	FIRE PROTECTION EXTINGUISHER DRY CHEMICAL FOR FIRES OF ALL TYPES EXCEPT METALS
	104400-003	FIRE PROTECTION EXTINGUISHER DRY CHEMICAL FOR LIQUID GAS OR ELECTRICAL FIRES
	104400-004	FIRE PROTECTION EXTINGUISHER FORM
	104400-005	FIRE PROTECTION EXTINGUISHER FOR METAL FIRES
	104400-006	FIRE PROTECTION EXTINGUISHER HALON OR CLEAN AGENT
	104400-007	FIRE PROTECTION EXTINGUISHER PORTABLE
	104400-008	FIRE PROTECTION EXTINGUISHER WATER
	ARAA-ANNO-FIRE-SPOT	FIRE SPOT ANNOTATION
	ARAA-ANNO-OCCU-DOOR	DOOR ANNOTATION
	ARAA-ANNO-OCCU-STRS	STAIR ANNOTATION
	ARAA-ANNO-PLAN-LEVEL	ANNOTATION LEVEL
	ARAA-ANNO-RAMP-SLPE	RAMP SLOPE ANNOTATION
	ARAA-ANNO-RTAG-0001	ROOM TAG ANNOTATION
	ARAA-ANNO-RTAG-SMAL	ROOM TAG ANNOTATION-SMALL
	ARAA-ANNO-SECT-FFL1	ANNOTATION SECTION FFL
	ARAA-ANNO-SECT-SSLX	ANNOTATION SECTION SSL
	ARAA-ANNO-TAGS	ANNOTATION TAGS
	ARAA-ANNO-TAGS-CLNG	ANNOTATION TAGS-CEILING



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	ARAA-ANNO-TAGS-CURN	TAGS CURTAIN WALL
	ARAA-ANNO-TAGS-DETL2	ANNOTATION TAGS DETAIL-2
	ARAA-ANNO-TAGS-ESCR	ANNOTATION TAGS-ESCR
	ARAA-ANNO-TAGS-EXIT	ANNOTATION TAG EXIT
	ARAA-ANNO-TAGS-FLOR	ANNOTATION TAG FLOOR
	ARAA-ANNO-TAGS-LIFT	ANNOTATION TAG LIFT
	ARAA-ANNO-TAGS-PRTN	ANNOTATION TAG PARTITION
	ARAA-ANNO-TAGS-RAMP	ANNOTATION TAG RAMP
	ARAA-ANNO-TAGS-SGN1	ANNOTATION TAG-SIGN
	ARAA-ANNO-TAGS-LIFT	ANNOTATION TAG-LIFT
	ARAA-ANNO-TITL	ANNOTATION TITLE
	ARAA-ARCH-DRN1	DRAIN
	ARAA-BEAM-SMOK-DTCR	SMOKE DETECTOR
	ARAA-BEAM-SMOK-REFL	ARAA-BEAM-SMOK-REFL
	ARAA-BIOM-CARD-POST	BIOMETRIC CARD POST
	ARAA-BIOM-CARD-READ	BIOMETRIC CARD READER
	ARAA-BLRD-LVL4	BOLLARD
	ARAA-CARD-READ	CARD READER



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	ARAA-CBNT-LOUD-SPKR	LOUD SPEAKER
	ARAA-CCTV-CMRA	CCTV CAMERA
	ARAA-CCTV-FRNT-ELEV	CCTV FRONT ELEVATION
	ARAA-CCTV-SIDE	CCTV SIDE ELEVATION
	ARAA-CCTV-SIDE-ELEV	CCTV SIDE ELEVATION-1
	ARAA-CCTV-USTX	CCTV CAMERA-USTX
	ARAA-CMRA	CAMERA
	ARAA-COMB-SNDR-BCON	ARAA-COMB-SNDR-BCON
	ARAA-D5XX-TYPE-SIGN	SIGNAGE
	ARAA-D7TP-SIGN-ELEC	ELEC SIGN
	ARAA-DOOR-FRAM	DOOR FRAME
	ARAA-DOOR-TYPE-XX0B	ANNOTATION DOOR
	ARAA-DUBL-RJ45-OUTL	ARAA-DUBL-RJ45-OUTL
	ARAA-ELEC-SIGN-651C	ELEC SIGN-651C
	ARAA-ELEV-DOOR-B1XX	DOOR ELEVATION
	ARAA-ELEV-DOOR-B4XX	DOUBLE DOOR ELEVATION



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	ARAA-ELEV-DOOR-B5XX	DOOR ELEVATION
	ARAA-ELEV-EXTN-0001	DOOR ELEVATION
	ARAA-EMRG-EXIT-BTTN	EMERGENCY EXIT BUTTON
	ARAA-FIRE-0001	FIRE
	ARAA-FIRE-ALRM-LGHT	FIRE ALARM LIGHT
	ARAA-FIRE-BHQ1	FIRE SIGN
	ARAA-FIRE-CLNG-BQH1	FIRE SIGN
	ARAA-FIRE-CLNG-BQH2	FIRE SIGN
	ARAA-FIRE-EXIT-851C	FIRE SIGN
	ARAA-FIRE-EXIT-851D	FIRE SIGN
	ARAA-FIRE-EXIT-851W	FIRE SIGN
	ARAA-FIRE-EXIT-854X	FIRE SIGN
	ARAA-FIRE-EXT1-851C	FIRE SIGN
	ARAA-FIRE-EXT1-851F	FIRE SIGN
	ARAA-FIRE-FGHT-PHON	FIRE FIGHT PHONE



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	ARAA-LIGH	LIGHT
	ARAA-LOUD-SPKR	LOUD SPEAKER
	ARAA-MANL-CALL-PONT	MANUAL CALL POINT
	ARAA-POLE-MNTD-CCTV	POLE MOUNTED CCTV
	ARAA-POWR-1POL	ARAA-POWR-1POL
	ARAA-POWR-ISOL	ARAA-POWR-ISOL
	ARAA-POWR-SOKT	ARAA-POWR-SOKT
	ARAA-POWR-TYPH	ARAA-POWR-TYPH
	ARAA-ROD1-MNTD-CCTV	ROD MOUNTED CCTV
	ARAA-SIGN	SIGN
	ARAA-SLID-DOOR-DBLE	SLIDING DOOR DOUBLE
	ARAA-SNDR-BECN-ELEV	ARAA-SNDR-BECN-ELEV
	ARAA-SNDR-STRB-S4LT	ARAA-SNDR-STRB-S4LT
	ARAA-SNGL-SCKT-OUTL	ARAA-SNGL-SCKT-OUTL
	ARAA-SNGL-SWTC-SCKT	ARAA-SNGL-SWTC-SCKT
	ARAA-STRB-LGHT	ARAA-STRB-LGHT
	ARAA-TAGS-CLNG-LVL2	CEILING LEVEL TAG
	ARAA-TWIN-SCKT-OUTL	ARAA-TWIN-SCKT-OUTL
	ARAA-WALL-MNTD-CCTV	WALL MOUNTED CCTV
	ARAA-WALL-PUBS	WALL PUSH BUTTON



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	ARAA-WAPX	WAPX
	ARAA-WHEEL- CAIR	SIGN WHEEL CHAIR
	ARAA- WNDW- NMBR	WINDOW NUMBER



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Attachment 3 – Electrical Symbols

265100-003	265100-003	ELEC LT FIXT REC FLOUR C 300 MM x 2400 MM (1x8)
	265100-006	ELEC LT FIXT SURF MTD FLOUR C 300 MM x 2400 MM (1x8)
	265100-005	ELEC LT FIXT SURF MTD FLOUR B 300 MM x 1200 MM (1x4)
	265100-002	ELEC LT FIXT REC FLOUR B 300 MM x 1200 MM (1x4)
	265100-004	ELEC LT FIXT SURF MTD FLOUR A 600 MM x 1200 MM (2x4)
	265100-001	ELEC LT FIXT REC FLOUR A 600 MM x 1200 MM (2x4)
	263500-004	SURGE VOLT PROTECTOR
	263500-005	UPS
	263500-006	VEH CHG POINT
	262900-003	ELEC TIME CLOCK
	264200-001	RECTIFIER CATHODIC PROTECTION SAN
	265000-001	LTING INCAND CLG MTD
	265200-001	ELEC EXIT SIGN WALL MTD LT
	265200-002	ELEC LT FIXT FLOUR EMER
	265200-003	LTING ONE EMER BAT PWR
	265200-004	LTING 3 EMER BAT PWR
	265600-001	ELEC ST LT WITH BRKT
	265600-002	LT POST ONE ARM ONE HEAD
	265600-003	LT POST 2 ARMS 2 HEADS
	265000-004	LT POST WITHOUT ARM



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	265600-005	LTING AIRFIELD RWY
	265600-006	LTING AIRFIELD TAXIWAY
	265600-007	LTING EXT BLDG
	265600-008	LTING RWY
	262400-004	ELEC PNLBD CAB SURF MTD
	262400-005	ELEC PWR PNL
	262700-001	ELEC RECPT CLOCK HGR
	262700-002	ELEC RECPT DX
	262700-003	ELEC RECPT DX ON EMER PWR
	262700-004	ELEC RECPT GFCI
	262700-005	ELEC RECPT QUADRAPLEX
	262700-006	ELEC RECPT SGL
	262700-007	ELEC RECPT SGL WITH SW
	262700-008	ELEC RECPT SPCL PURPOSE
	262700-009	ELEC RECPT SWED DX
	262700-010	ELEC SW CLG MTD PULL
	262700-011	ELEC SW DBL POLE
	262700-012	ELEC SW 4WAY
	262700-013	ELEC SW KEY OPERATED
	262700-014	ELEC SW LAMP HOLDER POLE
	262700-015	ELEC SW LV MASTER
	262700-016	ELEC SW SGL POLE



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	262700-017	ELEC SW 3WAY
	262700-018	ELEC SW TIMER OPERATED
	262700-019	ELEC SW WITH PILOT LT
	262700-020	ELEC RECPT ARC FAULT
	262700-021	ELEC SW DR SW
	262700-022	ELEC SW OCCUPANCY SNSR
	262700-023	ELEC SW VACANCY SNSR
	262800-001	ELEC CKT BRKR
	262800-002	ELEC DISC SW FUSED
	262800-003	ELEC DISC SW UNFUSED
	262800-004	ELEC FU SW
	262800-005	ELEC FUS LINK
	262900-001	ELEC STARTER COMB WITH DISC SW
	262900-002	ELEC STARTER OR MOT CONT
	262900-003	ELEC TIME CLOCK
	263100-001	PV ARRAY
	263200-001	ELEC G PWR
	263200-002	ELEC WIND G PWR
	263300-001	ELEC BAT
	263500-001	ELEC CAP
	263500-002	CHG CONT
	263500-003	INV



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	260000-001	ELEC DELTA CONNECTION
	260000-002	ELEC MOT 1PH
	260000-003	ELEC MOT 3PH
	260000-004	ELEC XFMR ONE-LINE DIAG
	260000-005	ELEC PRESS SW-OPEN ON INCREASE
	260000-006	ELEC WYE CONNECTION
	260500-001	ELECDUCT CELL FL HDR
	260500-002	ELEC DUCT TROLLEY
	260500-003	ELEC DUCT UNDERFL J-BOX
	260500-004	ELEC EARTH G
	260500-005	ELEC J-BOX
	260500-006	ELEC LAD CABLE TRAY
	260500-007	260500-007-ID ELEC PNLBD HOME RUN TO (ARROWHEADS INDICATE THE NO OF CKTS)
	260500-008	ELEC PRESS SW-CLOSE ON INCREASE
	260500-009	ELEC PRESS SW-OPEN ON INCREASE
	260500-010	ELEC PB
	260500-011	ELEC SW MULTIPOS
	260500-012	ELEC SW NC FLOAT
	260500-013	ELEC SW NC FOOT OPERATED
	260500-014	ELEC SW NC LIMIT
	260500-015	ELEC SW NC TEMP ACTIVATED



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	260500-016	ELEC SW NC TIME DELAY
	260500-017	ELEC SW NO FLOAT
	260500-018	ELEC SW NO LIMIT
	260500-019	ELEC SW NO TEMP ACTIVATED
	260500-020	ELEC SW NO TIME DELAY
	260500-021	ELEC SW SGL BREAK
	260500-022	ELEC WW
	260900-001	ELEC M
	261000-001	ELEC SUBSTA
	261100-001	ELEC INTERCONNECTION WITH SUBSTA ABOVEG
	261100-002	ELEC INTERCONNECTION WITH SUBSTA UNDERG
	262000-001	ELEC BUSWAY
	262000-003	ELEC FUSE WITH RATING
	262000-004	ELEC NC RELAY CONTACT
	262000-005	ELEC NO RELAY CONTACT
	262000-007	ELEC PB
	262400-001	ELEC DISTR PNL
	262400-002	ELEC LTING PNL
	262400-003	ELEC PNLBD CAB FLUSH MTD
	ELEG-LPFE-BBEW	ELEG-LPFE-BBEW



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	ELEG-LPFE-CECB	ELEG-LPFE-CECB
	ELEG-LPFE-IPFE	ELEG-LPFE-IPFE
	ELEG-LPFE-K207-10XX	ELEG-LPFE-K207-10XX
	ELEG-LPFE-K207-12XX	ELEG-LPFE-K207-12XX
	ELEG-LPFE-K207-14XX	ELEG-LPFE-K207-14XX
	ELEG-LPFE-K207-16XX	ELEG-LPFE-K207-16XX
	ELEG-LPFE-K207-6XXX	ELEG-LPFE-K207-6XXX
	ELEG-LPFE-K207-8XXX	ELEG-LPFE-K207-8XXX
	ELEG-LPFE-K243-10XX	ELEG-LPFE-K243-10XX
	ELEG-LPFE-K243-12XX	ELEG-LPFE-K243-12XX
	ELEG-LPFE-K243-14XX	ELEG-LPFE-K243-14XX
	ELEG-LPFE-K243-16XX	ELEG-LPFE-K243-16XX
	ELEG-LPFE-K207-6XXX	ELEG-LPFE-K207-6XXX
	ELEG-LPFE-K243-8XXX	ELEG-LPFE-K243-8XXX
	ELEG-LPFE-K245-10XX	ELEG-LPFE-K245-10XX
	ELEG-LPFE-K245-12XX	ELEG-LPFE-K245-12XX
	ELEG-LPFE-K245-14XX	ELEG-LPFE-K245-14XX
	ELEG-LPFE-K245-16XX	ELEG-LPFE-K245-16XX
	ELEG-LPFE-K245-6XXX	ELEG-LPFE-K245-6XXX
	ELEG-LPFE-K245-8XXX	ELEG-LPFE-K245-8XXX
	ELEG-LPFE-SPXX	ELEG-LPFE-SPXX
	ELEG-POWR-13AF	ELEG-POWR-13AF
	ELSP-POWR-1POL	ELSP-POWR-1POL
	CSEU-PASY-CS8W	CSEU-PASY-CS8W
	CSEU-PASY-HS10	CSEU-PASY-HS10



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	CSEU-PASY-LA30	CSEU-PASY-LA30
	CSEU-PASY-LA60	CSEU-PASY-LA60
	CSEU-PASY-S12W	CSEU-PASY-S12W
	CSEU-PASY-S60W	CSEU-PASY-S60W
	CSEU-PASY-ALAS	CSEU-PASY-ALAS



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Attachment 4 – Fire Protection Symbols

	212100-002	FIRE SUPN EXT CO2 AUTO ACTUATED
	212100-003	FIRE SUPN EXT CO2 SYS
	212100-004	FIRE SUPN REEL CO2 STA
	212200-001	FIRE SUPN AUTO ACTUATED HALON
	212200-002	FIRE SUPN HALON CTRL PNL
	212200-003	FIRE SUPN HALON MAN ACTUATED EXT
	212200-004	FIRE SUPN HALON SYS
	212200-005	FIRE SUPN MAN HALON STA
	212300-001	FIRE SUPN MAN WET CHEM STA
	212300-002	FIRE SUPN WET CHEM SYS
	212400-001	FIRE SUPN DRY CHEM SYS
	212400-002	FIRE SUPN EXT DRY CHEM STA REEL
	212400-003	FIRE SUPN EXT MAN ACTUATED DRY CHEM
	213000-001	FIRE SUPN FIRE PUMP TEST HDR FREESTANDING
	213000-002	FIRE SUPN FIRE PUMP TEST HDR WALL MTD
	213000-003	FIRE SUPN FIRE PUMP WITH DRS
	214100-001	STOR TANK FIRE SUPN WTR
	211200-005	FIRE SUPN HC OR HC CONN
	211200-006	SP DRY HOSE STA
	211300-001	FIRE SUPN AUTO ACTUATED WET EXT SYS



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	211300-002	FIRE SUPN DRY AUTO ACTUATED
	211300-003	FIRE SUPN EXT MAN ACTUATED DRY CHEM
	211300-006	FIRE SUPN FOAM AUTO ACTUATED
	211300-007	FIRE SUPN FOAM MAN ACTUATED
	211300-008	FIRE SUPN FOAM STA REEL
	211300-009	FIRE SUPN FOAM SYS
	211300-010	FIRE SUPN MAN FOAM STA
	211300-011	FIRE SUPN MAN ACTUATED WET EXT SYS
	211300-012	FIRE SUPN NOZZLE DRY MON
	211300-014	FIRE SUPN SPKLR HEADS SIDEWALL UPRT
	211300-015	FIRE SUPN SPKLR RISER
	211300-016	FIRE SUPN SW PRESS DETECTOR
	211300-017	FIRE SUPN TEST HDR
	212100-001	FP MAN CO2 STA
	211000-001	FIRE SUPN FIRE DEPT KEY BOX
	211000-002	FIRE SUPN SPKLR BRANCH HEADS
	211000-003	FIRE SUPN SPKLR WITH GUARD
	211100-002	FIRE SUPN BFV INDICATING
	211100-004	FIRE SUPN DELUGE VALVE
	211100-005	FIRE SUPN DW SHUTOFF
	211100-007	FIRE SUPN PIV
	211100-008	FIRE SUPN KEY OPERATED VALVE
	211100-009	FIRE SUPN M (CFM)
	211100-011	FIRE SUPN NIPPED UPRT SPKLR



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	211100-012	FIRE SUPN NON-INDICATING NON RISING STEM VALVE
	211100-013	FIRE SUPN NOZZLE CHGD MON
	211100-014	FIRE SUPN NOZZLE SPCL SPRAY
	211100-015	FIRE SUPN OUTSIDE SPKLR
	211100-016	FIRE SUPN PEND HEAD SPKLRs
	211100-017	FIR SUPN PIV
	211100-018	FIRE SUPN PRE-ACTION VALVE
	211100-019	FIRE SUPN PULL STA FA BOX
	211100-021	HYD PRIVATE HOUSED 2-HOSE OUT
	211200-001	FDC 1WAY
	211200-002	FDC SIAMESE FREE STANDING
	211200-003	FDC 2WAY SIAMESE
	211200-004	FIRE SUPN FH CONNECTION INSPECTORS TEST
	101300-001	DIRECTORY WALL MOUNTED
	101700-001	TELEPHONE BOOTH
	104400-001	FIRE PROTECTION EXTINGUISHER CARBON DIOXIDE
	104400-002	FIRE PROTECTION EXTINGUISHER DRY CHEMICAL FOR FIRES OF ALL TYPES EXCEPT METALS
	104400-003	FIRE PROTECTION EXTINGUISHER DRY CHEMICAL FOR LIQUID GAS OR ELECTRICAL FIRES
	104400-004	FIRE PROTECTION EXTINGUISHER FORM
	104400-005	FIRE PROTECTION EXTINGUISHER FOR METAL FIRES
	104400-006	FIRE PROTECTION EXTINGUISHER HALON OR CLEAN AGENT
	104400-007	FIRE PROTECTION EXTINGUISHER PORTABLE



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	104400-008	FIRE PROTECTION EXTINGUISHER WATER
	FPFA-FDAS-24PS	FPFA-FDAS-24PS
	FPFA-FDAS-ACMX	FPFA-FDAS-ACMX
	FPFA-FDAS-AMMM	FPFA-FDAS-AMMM
	FPFA-FDAS-AMMX	FPFA-FDAS-AMMX
	FPFA-FDAS-ARMX	FPFA-FDAS-ARMX
	FPFA-FDAS-ASDX	FPFA-FDAS-ASDX
	FPFA-FDAS-DHXX	FPFA-FDAS-DHXX
	FPFA-FDAS-DMSV	FPFA-FDAS-DMSV
	FPFA-FDAS-DMSX	FPFA-FDAS-DMSX
	FPFA-FDAS-DSBR	FPFA-FDAS-DSBR
	FPFA-FDAS-DSBT	FPFA-FDAS-DSBT
	FPFA-FDAS-DSDX	FPFA-FDAS-DSDX
	FPFA-FDAS-EOLR	FPFA-FDAS-EOLR
	FPFA-FDAS-FARP	FPFA-FDAS-FARP
	FPFA-FDAS-FASL	FPFA-FDAS-FASL
	FPFA-FDAS-FASR	FPFA-FDAS-FASR
	FPFA-FDAS-FASW	FPFA-FDAS-FASW
	FPFA-FDAS-FETJ	FPFA-FDAS-FETJ
	FPFA-FDAS-FSSL	FPFA-FDAS-FSSL
	FPFA-FDAS-FTMX	FPFA-FDAS-FTMX
	FPFA-FDAS-IPDD	FPFA-FDAS-IPDD
	FPFA-FDAS-IRMX	FPFA-FDAS-IRMX
	FPFA-FDAS-JBXX	FPFA-FDAS-JBXX
	FPFA-FDAS-MCPW	FPFA-FDAS-MCPW



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	FPFA-FDAS-MCPX	FPFA-FDAS-MCPX
	FPFA-FDAS-MFCP	FPFA-FDAS-MFCP
	FPFA-FDAS-NCSN	FPFA-FDAS-NCSN
	FPFA-FDAS-NCSN	FPFA-FDAS-NCSN
	FPFA-FDAS-RIXX	FPFA-FDAS-RIXX
	FPFA-FDAS-SFCP	FPFA-FDAS-SFCP
	FPFA-FDAS-TRPR	FPFA-FDAS-TRPR
	FPFP-SPRK-PEND	FPFP-SPRK-PEND
	FPFP-SPRK-PERE	FPFP-SPRK-PERE
	FPFP-FEXT-ABCP	FPFP-FEXT-ABCP
	FPFP-FEXT-CO2P	FPFP-FEXT-CO2P



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Attachment 5 – Landscape Symbols

	321000-001	ASPHALT SECT
	320300-001	TREE DECIDUOUS EXST
	329300-002	TREE DECIDUOUS NEW
	329300-003	TREE GENERIC EXT
	329300-004	TREE GENERIC NEW



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Attachment 6 – Mechanical Symbols

	236400-003	CH TANK CLOSED LIQ
	236400-004	CH TANK OPEN LIQ
	236400-005	REFR EQUIP CH ABSORB UNIT
	236500-001	REFR EQUIP COOLING TOWER
	237000-001	HVAC EQUIP DR FLUID
	237200-001	HVAC CTRL ROTARY HEAT WHEEL
	237600-001	REFR EQUIP BARE TUBE GRAVITY AIR EVAPORATOR
	237600-002	REFR EQUIP COIL LOOP
	237600-003	REFR EQUIP COND EVAPORATOR CASCADE SYS
	237600-004	REFR EQUIP EVAPORATOR FINNED CIRC CLG
	237600-005	REFR EQUIP EVAPORATOR FINNED COIL NAT CONVECTION
	237600-006	REFR EQUIP EVAPORATOR FINNED GRAVITY AIR
	237600-007	REFR EQUIP EVAPORATOR FORCED CONVECTION
	237600-008	REFR EQUIP EVAPORATOR FORCED CONVECTION COOL UNIT
	237600-009	REFR EQUIP EVAPORATOR PIPE COIL
	237600-010	REFR EQUIP EVAPORATOR PLATE COIL
	237600-011	REFR EQUIP IMMERSION COOL UNIT



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	237600-012	REFR EQUIP PLATE COIL HEAD OR MANIFOLD EVAPORATOR
	237600-013	REFR EQUIP WCLD CONC TUBE COND
	238000-001	ELEC HEATER ELEC RESISTANCE
	238100-001	HVAC EQUIP RM AIR COND EQUIP
	238200-001	HEATING MIXING TERM UNIT
	238200-002	HEATING REHEAT TERM UNIT
	238200-003	HEATING UNIT (INDICATE TYPE)
	238200-004	HEATING VARIABLE VOL TERM UNIT REHEAT
	238400-001	DEHUMIDIFIER
	233700-022	REG GRILLE SIDE WALL SPLY
	233700-023	RET AIR GRILLE WITH SOUND BOOT
	234000-001	AIR DISTR AUTO FLTR PNL
	234000-002	AIR DISTR FLTR & DEHUMIDIFIER
	234000-003	AIR DISTR FLTR LINE
	235000-001	HEATER FLUE G REHEATER
	235000-002	PIPING FLAT PLATE HEX
	235000-003	PIPING PLATE FIN CROSS FLOW
	235200-001	EQUIP BLR

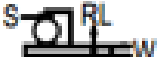
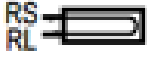
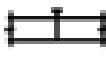


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	235200-002	G STEAM
	235200-003	HEAT-GEN EQUIP CHKV
	235500-001	HEATER DESUPERHEATER
	235700-001	HVAC EQUIP HEX
	235700-002	HVAC EQUIP INTERCOOLER DESUPERHEATER
	235700-003	PIPING PIPE HEAT
	236100-001	REFR EQUIP CENTRIFUGAL COMPR
	236100-002	REFR EQUIP CH CENTRIFUGAL UNIT
	236100-003	REFR EQUIP CH RECIPROCATING UNIT
	236100-004	REFR EQUIP CH ROTARY SCREW UNIT
	236100-005	REFR EQUIP COMPR MOT ENCLOSED RECIPROCATING
	236100-006	REFR EQUIP COMPR MOT SEALED RECIPROCATING
	236100-007	REFR EQUIP COMPR OPEN CRANKCASE RECIPROCATING
	236100-008	REFR EQUIP COMPR RECIPROCATING
	236100-009	REFR EQUIP COMPR ROTORY MOT ENCASED
	236100-010	REFR EQUIP COMPR ROTORY MOT ENCLOSED WITH CRANK BELT
	236100-011	REFR EQUIP COMPR ROTORY MOT SEALED
	236100-012	REFR EQUIP OEN CRANKCASE RECIPROCATING
	236100-013	REFR EQUIP ROTORY COMPR



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	233300-001	REFR EQUIP AIR-COOLED CONDESING UNIT
	236300-002	REFR EQUIP AIR-COOLED FIN COND FORCED AIR
	236300-003	REFR EQUIP AIR-COOLED FIN COND STATIC
	236300-004	REFR EQUIP COND SURF
	236300-005	REFR EQUIP DBL BUNDLE COND
	236300-006	REFR EQUIP EVAP COND
	236300-007	REFR EQUIP WCLD COND
	236300-008	REFR EQUIP WCLD CONDESING UNIT
	236300-009	REFR EQUIP WCLD SHELL-COIL COND
	236300-010	REFR EQUIP WCLD SHELL-TUBE COND
	236400-001	CH LIQ DIRECT EXP
	236400-002	CH LIQ FLOODED
	233300-014	DMPR BACK DRAFT
	233300-015	DMPR FIRE
	233300-016	DUCTWORK DIRECTION OF FLOW
	233300-017	DUCTWORK FLEXIBLE CONNECTOR
	233300-018	FIRE DMPR (HORIZ ORIENTATION IN RECT DUCT)
	233300-019	FIRE DMPR (VERT ORIENTATION IN RECT DUCT)
	233300-020	HEAT STOP FIRE-RATED CLG



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	233300-021	LT TROFFER INLET RET AIR
	233300-022	LT TROFFER OUT SUPPLY AIR
	233300-023	SMK & FIRE DMPR (HORIZ ORIENTATION IN RECT DUCT)
	233300-024	SMK & FIRE DMPR (VERT ORIENTATION IN RECT DUCT)
	233300-025	SMK DMPR (HORIZ ORIENTATION IN RECT DUCT)
	233300-026	SMK DMPR (VERT ORIENTATION IN RECT DUCT)
	233300-027	SPIN-IN WITH VD
	233300-028	SPIN-IN WITHOUT VD
	233400-001	AIR DISTR CENTRIFUGAL FAN PUMP
	233400-002	AIR DISTR DUCT FAN
	233400-003	AIR DISTR FAN
	233400-004	FAN AXIAL FLOW
	233700-001	SIR DISTR VENT OPNGS
	233700-002	DMPR STD BRANCH RET
	233700-003	DMPR STD BRANCH SPLY
	233700-005	DIF CLG 4WAY RECT OR SQ
	233700-006	DIF CLG RND
	233700-007	DIF CLG 3WAY RECT OR SQ



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	233700-008	DIF CLG 2WAY RCT OR SQ
	233700-009	DIF CLG WITH COMB LT
	233700-010	DIF LIN
	233700-011	DIF LIN SLOT SPLY
	233700-012	DIF SIDE WALL SPLY
	233700-013	DR GRILLE
	233700-014	DUCTWORK CLG
	233700-015	DUCTWORK EXH INLET WALL
	233700-016	DUCTWORK RET AIR CLG
	233700-017	DUCTWORK SPLY AIR CLG
	233700-018	GRILLE XFER
	233700-019	LVR DR OR WALL OPNG
	233700-020	LVR INTAKE & SCRNM
	233700-021	REG GRILLE CLG SPLY
	232100-004	PIPING PUMP (SCHEMATIC) (INDICATIVE USE)
	232100-005	PIPING STEAM TURBINE
	233000-001	AIR DISTR CLG SPOUT OUT
	233000-002	AIR DISTR SPLY OUT WALL



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	233000-003	DMPR MAN VOL
	233000-004	DMPR HEATER DUCT ELEC
	233000-005	DUCT SECT CHANGE IN STATIC PRESS RATING TAG
	233000-006	DUCT SECT STATIC PRESS RATING TAG
	233000-007	FAN BLOWER
	233000-008	FAN EXH RV
	233000-009	FAN INTAKE RV
	233000-010	FAN LVD RV
	233000-011	FAN PROPELLER
	233000-012	HEATER FEED WITHOUT AIR OUT
	233100-001	ACS DR (AD) OR ACS PNL (AP)
	233100-002	AIR DISTR FLEXIBLE CONNECTOR
	233100-003	AIR DISTR TRANSITION
	233100-004	DUCT FLEXIBLE
	233100-005	DUCT SECT EXT A DOWN
	233100-006	DUCT SECT EXH A UP
	233100-007	DUCT SECT RET AIR
	233100-008	DUCT SECT RET AIR DOWN



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	233100-009	DUCT SECT STD BRANCH FOR SUPPLY & RET
	233100-010	DUCT SECT SPLY AIR
	233100-011	DUCT SECT SPLY AIR DOWN
	233100-012	DUCT SECT WYE JUNCTION
	233100-013	DUCTWORK CHANGE IN EL
	233300-001	AIR DISTR ADJ BLANK OFF DMPR
	233300-002	AIR DISTR ADJ DMPR PLAQUE
	233300-003	AIR DISTR BAROMETRIC DMPR
	233300-004	AIR DISTR DUCTWORK COWL (GOOSENECK)
	233300-005	AIR DISTR DUCTWORK SOUND ATTENUATOR
	233300-006	AIR DISTR FIRE & SMK DMPR
	233300-007	AIR DISTR FIRE DMPR
	233300-008	AIR DISTR FLOW SW
	233300-009	AIR DISTR ORIFICE F METER
	233300-010	AIR DISTR SMK DMPR
	233300-011	AIR DISTR TURNING VANE IN DUCTWORK
	233300-012	AIR DISTR VENTURI F METER
	233300-013	AIR DISTR WH DIRECT CONTACT FEED



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	232000-234	PIPING TURNED DOWN 45 DEG ELBOW
	232000-235	PIPING UNCLIFIED VALVE
	232000-236	PIPING VALVE CONSTANT PRESS SUCT
	232000-237	PIPING VALVE EVAP PRESS REGULAR SNAP ACTION
	232000-238	PIPING VALVE EVAP PRESS REGULAR THROTTLING
	232000-239	PIPING VALVE EVAP PRESS REGULAR THROTTLING EVAPORATOR
	232000-240	PIPING VALVE REFR REVERSING
	232000-241	PIPING VALVE SNAP ACTION
	232000-242	PIPING VALVE THERMO SUCT
	232000-243	PIPING VALVE ACTUATOR MAN GEAR
	232000-244	PIPING VALVE ACTUATOR MAN LEVER
	232000-245	PIPING VALVE ACTUATOR MAN NON-RISE STEM
	232000-246	PIPING VALVE ACTUATOR MAN OUT STEM-YOKE
	232000-247	PIPING VALVE COMPR SUCT PRESS
	232000-248	PIPING WTR VALVE
	232000-249	PIPING WLD GTV (PLAN)
	232000-250	PIPING WLD 90 DEG ELBOW
	232000-251	PIPING WLD BUSHING
	232000-252	PIPING WILD COCK



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	232000-253	PIPING WLD CONC RDC
	232000-254	PIPING WLD CONNECTING PIPE JOINT
	232000-265	PIPING WLD SLV
	232000-266	PIPING WLD STOP VALVE
	232000-267	PIPING WLD STR SIZE TEE
	232000-268	PIPING WLD TURNED DOWN ELBOW
	232000-269	PIPING WLD TURNED UP ELBOW
	232000-270	PIPING WLD UNION
	232000-283	PIPING WLD QUICK OPNG VALVE
	232100-001	PIPING CONDENSING STEM TURBINE
	232100-002	PIPING DYNAMIC PUMP
	232100-003	PIPING PUMP (PLAN) ENDICATE USE)
	232000-284	PIPING WLD SV
	232000-282	PIPING WLD OUT UP TEE
	232000-194	PIPING SOLDERED ECC RDC
	232000-195	PIPING SOLDERED EJ
	232000-196	PIPING SOLDERED GTV
	232000-197	PIPING SOLDERED GLV (EL)
	232000-198	PIPING SOLDERED GLV (EL)



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	232000-199	PIPING SOLDERED LOCK SHIELD VALVE
	232000-200	PIPING SOLDERED OUT DOWN TEE
	232000-201	PIPING SOLDERED OUT UP TEE
	232000-202	PIPING SOLDERED QUICK OPNG VALVE
	232000-203	PIPING SOLDERED REDUCING ELBOW
	232000-204	PIPING SOLDERED SV
	232000-205	PIPING SOLDERED SLV
	232000-206	PIPING SOLDERED STOP VALVE
	232000-207	PIPING SOLDERED STR SIZE TEE
	232000-208	PIPING SOLDERED TURNED DOWN ELBOW
	232000-209	PIPING SOLDERED TURNED UP ELBOW
	232000-210	PIPING SOLDERED UNION
	232000-211	PIPING SQ HEAD COCK
	232000-212	PIPING STEAM TRAP (INDICATIVE TYPE)
	232000-213	PIPING STR CROWN ECC RDC
	232000-214	PIPING STR SIZE B&S CROSS
	232000-215	PIPING STR SIZE FLG CROSS
	232000-216	PIPING STR SIZE SCREWED CROSS
	232000-217	PIPING STR SIZE SOLDERED CROSS

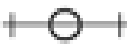


Graphical Blocks and Symbols Guide

	232000-218	PIPING STR SIZE WLD CROSS
	232000-219	PIPING STR WAY B&S CHKV
	232000-220	PIPING STR WAY FLG CHKV
	232000-221	PIPING STR WAY SCREWED CHKV
	232000-222	PIPING STR WAY SOLDERED CHKV
	232000-223	PIPING STR WAY WLD CHKV
	232000-224	PIPING STN
	232000-225	PIPING STN (PLAN)
	232000-226	PIPING SWING GATE CHKV
	232000-227	PIPING TEMP GATE
	232000-228	PIPING TEMP PRESS RV
	232000-229	PIPING TSTAT BLAST TRAP
	232000-230	PIPING TSTAT EXP VALVE
	232000-231	PIPING TSTAT TRAP
	232000-232	PIPING 3WAY MAN VALVE
	232000-233	PIPING TRAP SCALE
	232000-154	PIPING SCREWED EJ
	232000-155	PIPING SCREWED FLOAT VALVE
	232000-156	PIPING SCREWED GTV (EL)



Graphical Blocks and Symbols Guide

	232000-157	PIPING SCREWED GTV (PLAN)
	232000-158	PIPING SCREWED GLV (EL)
	232000-159	PIPING SCREWED GLV (PLAN)
	232000-160	PIPING SCREWED HOSE L VALVE
	232000-161	PIPING SCREWED HOSE GTV
	232000-162	PIPING SCREWED HOSE GLV
	232000-163	PIPING SCREWED LATL
	232000-164	PIPING SCREWED LOCK SHIELD VALVE
	232000-165	PIPING SCREWED SGL SWEEP TEE
	232000-166	PIPING SCREWED OUT DOWN TEE
	232000-167	PIPING SCREWED OUT UP TEE
	232000-168	PIPING SCREWED PIPE PLUG
	232000-169	PIPING SCREWED QUICK OPNG VALVE
	232000-170	PIPING SCREWED REDUCING ELBOW
	232000-171	PIPING SCREWED SV
	232000-172	PIPING SCREWED SIDE OUT ELBOW DOWN
	232000-173	PIPING SCREWED SIDE OUT ELBOW UP
	232000-174	PIPING SCREWED SIDE OUT TEE
	232000-175	PIPING SCREWED SIDE OUT UP TEE



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	232000-176	PIPING SCREWED SGL SWEEP TEE
	232000-177	PIPING SCREWED SLV
	232000-178	PIPING SCREWED STOP VALVE
	232000-179	PIPING SCREWED STR SIZE TEE
	232000-180	PIPING SCREWED ST ELBOW
	232000-181	PIPING SOLDERED 90 DEG ELBOW
	232000-182	PIPING SCREWED TURNING UP ELBOW
	232000-183	PIPING SCREWED UNION
	232000-184	PIPING SIDE OUT ELBOW B&S OUT DOWN
	232000-185	PIPING SIDE OUT ELBOW B&S OUT UP
	232000-186	PIPING SIGHT GL
	232000-187	PIPING SLV
	232000-188	PIPING SOLDERED 45 DEG ELBOW
	232000-189	PIPING SOLDERED 90 DEG ELBOW
	232000-190	PIPING SOLDERED BUSHING
	232000-191	PIPING SOLDERED COCK
	232000-192	PIPING SOLDERED CONC RDC
	232000-193	PIPING SOLDERED CONNECTING PIPE JOINT



Graphical Blocks and Symbols Guide

	232000-114	PIPING FLG TURNED UP ELBOW
	232000-115	PIPING FLG UNION
	232000-116	PIPING FLOAT & TSTAT TRAP
	232000-117	PIPING FLOAT TRAP
	232000-118	PIPING HEAT LIQ EXCHANGER
	232000-119	PIPING HEAT XFER SURF
	232000-120	PIPING H PRESS HORIZ RCVR
	232000-121	PIPING H PRESS VERT RCVR
	232000-122	PIPING H SIDE FLOAT VALVE
	232000-123	PIPING HOSE GLV
	232000-124	PIPING LATL B&S
	232000-125	PIPING LOW PRESS RCVR
	232000-126	PIPING LOW SIDE FLOAT VALVE
	232000-127	PIPING MAGNETIC STOP VALVE
	232000-128	PIPING MAN AIR VENT
	232000-129	PIPING NEEDLE VALVE
	232000-130	PIPING NOZZLE FLOW
	232000-131	PIPING PIPE PLUG
	232000-132	PIPING PITCH OR PIPE DROP
	232000-133	PIPING PITCH OR PIPE RISE
	232000-134	PIPING PLUG VALVE



Graphical Blocks and Symbols Guide

	232000-135	PIPING PRECIPITATOR
	232000-136	PIPING PG
	232000-137	PIPING PG & COCK
	232000-138	PIPING PRV
	232000-139	PIPING REDUCING B&S CROSS
	232000-140	PIPING RELIEF OR SV
	232000-141	PIPING RUPTURE DISC
	232000-142	PIPING SCREWED 45 DEG ELBOW
	232000-143	PIPING SCREWED 90 DEG ELBOW
	232000-144	PIPING SCREWED BUSHING
	232000-145	PIPING SCREWED CAP
	232000-146	PIPING SCREWED COCK
	232000-147	PIPING SCREWED CONC RDC
	232000-148	PIPING SCREWED CONNECTING PIPE JOINT
	232000-149	PIPING SCREWED CROSSOVER
	232000-150	PIPING SCREWED DIAPHRAGM VALVE
	232000-151	PIPING SCREWED DBL BRANCH ELBOW
	232000-152	PIPING SCREWED DBL SWEEP TEE
	232000-153	PIPING SCREWED ECC RDC
	232000-074	PIPING FLG 45 DEG ELBOW



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	232000-075	PIPING FLG 90 DEG ELBOW
	232000-076	PIPING FLG BASE ELBOW
	232000-077	PIPING FLG BULL PLUG
	232000-078	PIPING FLG COCK
	232000-079	PIPING FLG CONC RDC
	232000-080	PIPING FLG CONNECTING PIPE JOINT
	232000-081	PIPING FLG DIAPHRAGM VALVE
	232000-082	PIPING FLG DBL BRANCH ELBOW
	232000-083	PIPING FLG DBL SWEEP TEE
	232000-084	PIPING FLG ECC RDC
	232000-085	PIPING FLG ELBOW SIDE OUT DOWN
	232000-086	PIPING FLG ELBOW SIDE OUT UP
	232000-087	PIPING FLG EJ
	232000-088	PIPING FLG FLOAT VALVE
	232000-089	PIPING FLG GTV (EL)
	232000-090	PIPING FLG GTV (PLAN)
	232000-091	PIPING FLG GLV (EL)
	232000-092	PIPING FLG GLV (PLAN)
	232000-093	PIPING FLG HOSE VALVE
	232000-094	PIPING FLG HOSE GTV
	232000-095	PIPING FLG HOSE GLV



Graphical Blocks and Symbols Guide

	232000-096	PIPING FLG LATL
	232000-097	PIPING FLG LOCK SHIELD VALVE
	232000-098	PIPING FLG LONG RADIUS ELBOW
	232000-099	PIPING FLG ORIFICE FLG
	232000-100	PIPING FLG OUT DOWN TEE
	232000-101	PIPING FLG OUT UP TEE
	232000-102	PIPING FLG QUICK OPNG VALVE
	232000-103	PIPING FLG REDUCING CROSS
	232000-104	PIPING FLG REDUCING FLG
	232000-105	PIPING FLG SV
	232000-106	PIPING FLG SIDE OUT TEE
	232000-107	PIPING FLG LATL
	232000-108	PIPING FLG SGL SWEEP TEE
	232000-109	PIPING FLG SLV
	232000-110	PIPING FLG SPOOL PIECE
	232000-111	PIPING FLG STOP VALVE
	232000-112	PIPING FLG STR SIZE TEE
	232000-113	PIPING FLG TURNED DOWN ELBOW
	232000-034	PIPING BASE ELBOW SCREWED
	232000-035	PIPING B&S 45 DEG ELBOW
	232000-036	PIPING B&S 90 DEG ELBOW



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	232000-037	PIPING B&S BULL PLUG
	232000-038	PIPING B&S CAP
	232000-039	PIPING B&S CONC RDC
	232000-040	PIPING B&S CONNECTING PIPE JOINT
	232000-041	PIPING B&S CROSSOVER
	232000-042	PIPING B&S ECC RDCR
	232000-043	PIPING B&S EXP BELL JOINT
	232000-044	PIPING B&S GTV (EL)
	232000-045	PIPING B&S GLV
	232000-046	PIPING B&S OUT DOWN TEE
	232000-047	PIPING B&S OUT UP TEE
	232000-048	PIPING B&S PIPE PLUG
	232000-049	PIPING B&S REDUCING TEE
	232000-050	PIPING B&S SV
	232000-051	PIPING B&S SIDE OUT DOWN TEE
	232000-053	PIPING B&S SLV
	232000-054	PIPING B&S STOP VALVE
	232000-055	PIPING B&S STR SIZE TEE
	232000-056	PIPING B&S TURNED DOWN ELBOW
	232000-057	PIPING B&S TURNED UP ELBOW
	232000-058	PIPING BLIND FLG
	232000-059	PIPING BLOW OFF STN
	232000-060	PIPING BLR RET TRAP



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	232000-061	PIPING BUSHING B&S
	232000-062	PIPING BFV
	232000-063	PIPING CAPILLARY TUBE
	232000-064	PIPING COCK B&S
	232000-065	PIPING COND JET
	232000-066	PIPING COND WTR REGULATING VALVE
	232000-067	PIPING DIELEC UNION
	232000-068	PIPING DR HOSE END
	232000-069	PIPING DX STN
	232000-070	PIPING EXP HAND VALVE
	232000-071	PIPING EJ
	232000-072	PIPING EXP LOOP
	232000-073	PIPING FL TR STN LINE
	230900-041	HVAC CTRL WLD MO GTV
	231000-001	PIPING ENGINE (INDICATE FUEL)
	231000-002	PIPING G TURBINE
	231100-001	FIRE SUPN LPG SHUTOFF
	231100-002	FIRE SUPN NAT G SHUTOFF
	231300-001	STOR TANK FOTK



Graphical Blocks and Symbols Guide

	232000-001	HEATER LIVE STEAM SUPERHEATER
	232000-002	PIPING AHR INTERMEDIATE
	232000-003	PIPING AHR MAIN
	232000-004	PIPING CHKV B&S
	232000-005	PIPING L CHKV FLG
	232000-006	PIPING L CHKV SCREWED
	232000-007	PIPING L CHKV SOLDERED
	232000-008	PIPING L CHKV WLD
	232000-009	PIPING L GTV FLG (PLAN)
	232000-010	PIPING L GTV FLG (PLAN)
	232000-011	PIPING L GTV SCREWED (EL)
	232000-012	PIPING L GTV SCREWED
	232000-013	PIPING L GTV WLD (EL)
	232000-014	PIPING L GTV WLD (PLAN)
	232000-015	PIPING L GLV (EL)
	232000-016	PIPING L GLV FLG (EL)
	232000-017	PIPING L GLV FLG (PLAN)



Graphical Blocks and Symbols Guide

	232000-018	PIPING L GLV SCREWED (EL)
	232000-019	PIPING L GLV SCREWED (PLAN)
	232000-020	PIPING L GLV SOLDERED (PLAN)
	232000-021	PIPING L GLV WLD (EL)
	232000-022	PIPING L GLV WLD (PLAN)
	232000-023	PIPING L HV
	232000-024	PIPING AAV
	232000-025	PIPING AUTO BYPASS VALVE
	232000-026	PIPING AUTO BYPASS VALVE FLG
	232000-027	PIPING AUTO EXP VALVE
	232000-028	PIPING AUTO GOVERNOR OPERATED VALVE FLG
	232000-029	PIPING AUTO REDUCING VALVE
	232000-030	PIPING AUTO REDUCING VALVE FLG
	232000-031	PIPING BALL JOINT
	232000-032	PIPING BV
	232000-033	PIPING BAROMETRIC COND



Graphical Blocks and Symbols Guide

	230900-001	AIR DISTR CONT LIQ LEVEL
	230900-002	AIR DISTR DMPR CTRL ELEC OPERATED
	230900-003	AIR DISTR DUCT DETECTOR
	230900-004	AIR DISTR PNEU OPERATED DMPR CTRL
	230900-005	CTRL PNL FOR HVAC
	230900-006	HVAC CTRL AIR MOT CTRLLED GTV
	230900-007	HVAC CTRL AIR MOT CTRLLED GLV
	230900-008	HVAC CTRL AUTO GOVERNOR OPERATED VALVE
	230900-009	HVAC CTRL DIFFERENTIAL OIL PRESS SW
	230900-010	HVAC CTRL DUAL PRESS SW
	230900-011	HVAC CTRL ELEC PNEU CTRL
	230900-012	HVAC CTRL FLG MO GTV
	230900-013	HVAC CTRL FLG MO GLV
	230900-014	HVAC CTRL FUS LINK QUICK VALVE
	230900-015	HVAC CTRL PNEU ELEC CTRL
	230900-016	HVAC CTRL PRESS STAT
	230900-017	HVAC CTRL PRESS SW TYPE 1
	230900-018	HVAC CTRL PRESS SW TYPE 2

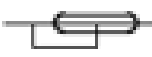
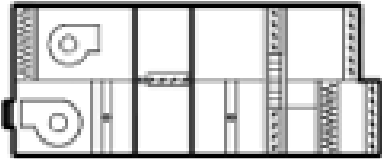


Graphical Blocks and Symbols Guide

	230900-019	HVAC CTRL PRESS SW WITH H PRESS CO
	230900-020	HVAC CTRL REMOTE BULB TSTAT
	230900-021	HVAC CRL SCREWED MO GTV
	230900-022	HVAC CTRL SCREWED MO GLV
	230900-023	HVAC CTRL SELF-CONTAINMENT TSTAT
	230900-024	HVAC CTRL SOLV
	230900-025	HVAC CTRL SPRING CHKV
	230900-026	HVAC CTRL SW NC FLOW
	230900-027	HVAC CTRL SW NO FLOW
	230900-028	HVAC CTRL THERM BULB
	230900-029	HVAC CTRL THERMOMETER
	230900-030	HVAC CTRL THERMOMETER WELL
	230900-031	HVAC CTRL TSTAT ELEC
	230900-032	HVAC CTRL TSTAT PNEU
	230900-033	HVAC CTRL TSTAT SELF-CONTAINED
	230900-034	HVAC CTRL 3WAY AIR MOT CTRLLED VALVE
	230900-035	HVAC CTRL 3WAY ELEC MOT CTRLLED VALVE
	230900-035	HVAC CTRL VALVE ACTUATOR ELEC MOT



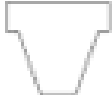
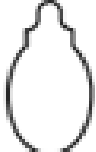
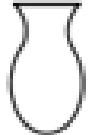
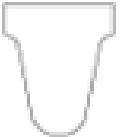
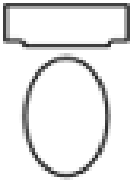
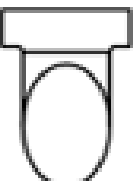
Graphical Blocks and Symbols Guide

	230900-037	HVAC CTRL VALVE ACTUATOR LEC SOLV
	230900-038	HVAC CTRL VALVE ACTUATOR PNEU MOT
	230900-039	HVAC CTRL VALVE ACTUATOR PNEU MOT DIAPHRAGM
	230900-040	HVAC CTRL VAP REGULATED SUCT VALVE
	MCMP-AHUX-SYMB	MCMP-AHUX-SYMB
	MCMP-MVXX-SYMB	MCMP-MVXX-SYMB
	MCMP-PUMP-SYMB	MCMP-PUMP-SYMB
	MCMP-PUMP-SYMB	MCMP-PUMP-SYMB
	MCMP-HEXX-SYMB	MCMP-HEXX-SYMB
	MCMP-HEXX-SYMB	MCMP-HEXX-SYMB



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Attachment 7 – Piping/Plumbing Symbols

	224000-031	SINK WITH LEFT & RT DR BD
	224000-032	URINAL CNR TYPE
	224000-033	URINAL FL MTD
	224000-034	URINAL TROUGH TYPE
	224000-035	URINAL WL MTD
	224000-036	WCL FREESTANDING ELEC
	224000-037	WCL WL MTD ELEC
	224000-038	WC FV EL OUT
	224000-039	WC FV WL MTD
	224000-040	WC INTEGRAL TANK
	224000-041	WC TANK TYPE
	224000-042	WC WL MTD TANK

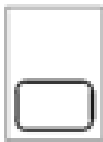
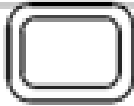
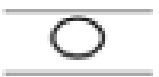
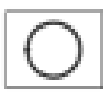
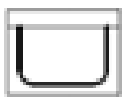
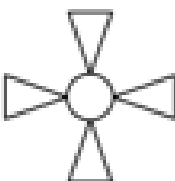
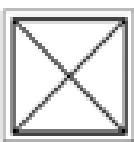
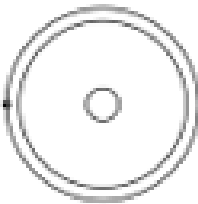
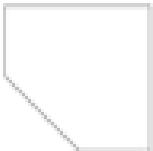
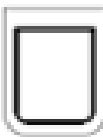


Graphical Blocks and Symbols Guide

	224300-001	SINK SURGEON SCURB
	224700-001	DF PROJING TYPE
	224700-002	DF REC TYPE
	224700-003	DF SEMI-REC TYPE
	224000-002	BATH EMER
	224000-003	BATH FOOT
	224000-004	BATH INFANT
	224000-005	BATH REC
	224000-006	BATH RIMMED
	224000-007	BATH SITZ
	224000-008	BIDET
	224000-009	LAU SGL TRAY



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	224000-010	LAV ACSIBLE
	224000-011	LAV CNR
	224000-012	LAV COUNTERTOP
	224000-013	LAV COUNTERTOP INTEGRAL
	224000-014	LAV MEDICAL MANICURE
	224000-015	LAV WL MTD
	224000-016	SHR PEDESTAL GANG
	224000-017	SHR HD
	224000-018	SHR STALL
	224000-019	SINK CIRC WASH TYPE
	224000-020	SINK FL
	224000-021	SINK FLUSHING RIMMED CLINICAL



Graphical Blocks and Symbols Guide

	224000-022	SINK GENERAL
	224000-023	SINK LAU
	224000-024	SINK SEMI-CIRC WASH
	224000-025	SINK SERVICE CI ENAMELED
	224000-026	SINK SERVICE MTL
	224000-027	SINK 2 COMPARTMENT TYPE
	224000-028	SINK 2 COMPARTMENT WITH LEFT & RT DRBDs
	224000-029	SINK WITH DRBD
	224000-030	SINK WITH GARBAGE DISPOSAL
	220500-001	PIPING AIR HEATER- PLATE OR TUBULAR
	220500-002	PIPING AIR HEATER- ROTATING TYPE
	221100-001	PIPING AIR ELIMINATOR
	221100-002	PIPING AS
	221100-003	UTIL WTR REGULATOR VALVE
	221100-004	UTIL WTR MAIN PRIVATE 221100-003-ID UTIL WATR REGULATOR VALVE



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	221200-001	STOR TANK POTWTR
	221300-001	DR FL
	220523-006	HB
	221400-001	PIPING DR OPEN FUNNEL
	223100-001	UTIL WTR SOFTENER
	224000-001	PLBG FIXTS SHR OH GANG
	220523-001	BFV
	220523-002	BV
	220523-003	CHKV
	220523-004	GLV
	221300-002	PIPING GT
	220523-006	GTV
	PLCD-PIPE-CDDS-125X	PLCD-PIPE-CDDS-125X
	PLCD-PIPE-CDDS-180X	PLCD-PIPE-CDDS-180X
	PLCD-PIPE-CDDS-32XX	PLCD-PIPE-CDDS-32XX
	PLCD-PIPE-CDDS-40XX	PLCD-PIPE-CDDS-40XX
	PLCD-PIPE-CDDS-50XX	PLCD-PIPE-CDDS-50XX
	PLCD-PIPE-CDDS-75XX	PLCD-PIPE-CDDS-75XX
	PLCD-PIPE-CDDS-90XX	PLCD-PIPE-CDDS-90XX
	PLCD-SYMB-FCOX	PLCD-SYMB-FCOX
	PLCD-SYMB-TDXX	PLCD-SYMB-TDXX
	PLCD-SYMB-VALV-IVXX	PLCD-SYMB-VALV-IVXX
	PLCD-SYMB-VALV-NRVX	PLCD-SYMB-VALV-NRVX
	PLPL-SYMB-VALV-BVXX	PLPL-SYMB-VALV-BVXX
	PLPL-SYMB-REDU	PLPL-SYMB-REDU



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	PLPL-SYMB-FLXP	PLPL-SYMB-FLXP
	PLPL-SYMB-CAPX	PLPL-SYMB-CAPX
	PLCD-STRU-CHAM	PLCD-STRU-CHAM
	PLPL-EQPM-EWHX	PLPL-EQPM-EWHX
	PLCD-STRU-CDSP	PLCD-STRU-CDSP
	PLCD-FM87-E125-B110	PLCD-FM87-E125-B110
	PLCD-FM87-E125-B125	PLCD-FM87-E125-B125
	PLCD-FM87-E125-B50X	PLCD-FM87-E125-B50X
	PLCD-FM87-E160	PLCD-FM87-E160
	PLCD-FM87-E160-B110	PLCD-FM87-E160-B110
	PLCD-FM87-E160-B125	PLCD-FM87-E160-B125
	PLCD-FM87-E160-B180	PLCD-FM87-E160-B180
	PLCD-FM87-E50X	PLCD-FM87-E50X
	PLCD-FM87-E50X-B40X	PLCD-FM87-E50X-B40X
	PLCD-FM87-E50X-B50X	PLCD-FM87-E50X-B50X
	PLCD-FM87-E75X	PLCD-FM87-E75X
	PLCD-FM87-E75X-B40X	PLCD-FM87-E75X-B40X



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	PLCD-FI87-E75X-B50X	PLCD-FI87-E75X-B50X
	PLCD-FI87-E75X-B75X	PLCD-FI87-E75X-B75X
	PLCD-FI87-E90X	PLCD-FI87-E90X
	PLCD-FI80-E110	PLCD-FI80-E110
	PLCD-FI80-E125	PLCD-FI80-E125
	PLCD-FI80-E50X	PLCD-FI80-E50X
	PLCD-FI80-E75X	PLCD-FI80-E75X
	PLCD-FI87-E110	PLCD-FI87-E110
	PLCD-FI87-E110-B110	PLCD-FI87-E110-B110
	PLCD-FI87-E110-B40X	PLCD-FI87-E110-B40X
	PLCD-FI87-E110-B50X	PLCD-FI87-E110-B50X
	PLCD-FI87-E110-B75X	PLCD-FI87-E110-B75X
	PLCD-FI87-E125	PLCD-FI87-E125
	PLCD-FI87-E125-B110	PLCD-FI87-E125-B110
	PLCD-FI87-E125-B125	PLCD-FI87-E125-B125
	PLCD-FI87-E125-B50X	PLCD-FI87-E125-B50X
	PLCD-FI87-E160	PLCD-FI87-E160
	PLCD-FI87-E160-B110	PLCD-FI87-E160-B110



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	PLCD-FI87-E160-B125	PLCD-FI87-E160-B125
	PLCD-FI87-E160-B160	PLCD-FI87-E160-B160
	PLCD-FI87-E50X	PLCD-FI87-E50X
	PLCD-FI87-E50X-B40X	PLCD-FI87-E50X-B40X
	PLCD-FI87-E50X-B50X	PLCD-FI87-E50X-B50X
	PLCD-FI87-E75X	PLCD-FI87-E75X
	PLCD-FI87-E75X-B40X	PLCD-FI87-E75X-B40X
	PLCD-FI87-E75X-B50X	PLCD-FI87-E75X-B50X
	PLCD-FI87-E75X-B75X	PLCD-FI87-E75X-B75X
	PLCD-FI87-E90X	PLCD-FI87-E90X
	PLCD-FI87-E90X-B40X	PLCD-FI87-E90X-B40X
	PLCD-FI87-E90X-B50X	PLCD-FI87-E90X-B50X
	PLCD-FI87-E90X-B90X	PLCD-FI87-E90X-B90X
	PLCD-FI87-E110-R50X	PLCD-FI87-E110-R50X
	PLCD-FI87-E110-R75X	PLCD-FI87-E110-R75X
	PLCD-FI87-E110-R90X	PLCD-FI87-E110-R90X
	PLCD-FI87-E125-R110	PLCD-FI87-E125-R110
	PLCD-FI87-E125-R75X	PLCD-FI87-E125-R75X
	PLCD-FI87-E160-R110	PLCD-FI87-E160-R110
	PLCD-FI87-E160-R125	PLCD-FI87-E160-R125



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	PLCD-FIXX-E50X-R32X	PLCD-FIXX-E50X-R32X
	PLCD-FIXX-E50X-R40X	PLCD-FIXX-E50X-R40X
	PLCD-FIXX-E75X-R40X	PLCD-FIXX-E75X-R40X
	PLCD-FIXX-E75X-R50X	PLCD-FIXX-E75X-R50X
	PLCD-FIXX-E90X-R40X	PLCD-FIXX-E90X-R40X
	PLCD-FIXX-E90X-R50X	PLCD-FIXX-E90X-R50X
	PLCD-PIPE-110X	PLCD-PIPE-110X
	PLCD-PIPE-125X	PLCD-PIPE-125X
	PLCD-PIPE-160X	PLCD-PIPE-160X
	PLCD-PIPE-50XX	PLCD-PIPE-50XX
	PLCD-PIPE-75XX	PLCD-PIPE-75XX
	PLCD-PIPE-90XX	PLCD-PIPE-90XX
	PLCD-PIPE-CDDS-110X	PLCD-PIPE-CDDS-110X
	PLCD-ACCE-THRU	PLCD-ACCE-THRU
	PLCD-ANNO-ARRW	PLCD-ANNO-ARRW
	PLCD-ANNO-EQPT	PLCD-ANNO-EQPT
	PLCD-ANNO-SLOP	PLCD-ANNO-SLOP
	PLCD-EQPT-SUMP	PLCD-EQPT-SUMP
	PLCD-FI15-E110	PLCD-FI15-E110
	PLCD-FI15-E125	PLCD-FI15-E125
	PLCD-FI15-E160	PLCD-FI15-E160
	PLCD-FI15-E50X	PLCD-FI15-E50X
	PLCD-FI15-E75X	PLCD-FI15-E75X
	PLCD-FI30-E110	PLCD-FI30-E110
	PLCD-FI30-E125	PLCD-FI30-E125



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	PLCD-FI30-E160	PLCD-FI30-E160
	PLCD-FI30-E50X	PLCD-FI30-E50X
	PLCD-FI30-E75X	PLCD-FI30-E75X
	PLCD-FI30-E90X	PLCD-FI30-E90X
	PLCD-FI45-D110-B40X	PLCD-FI45-D110-B40X
	PLCD-FI45-D110-B50X	PLCD-FI45-D110-B50X
	PLCD-FI45-D90X-B40X	PLCD-FI45-D90X-B40X
	PLCD-FI45-D90X-B50X	PLCD-FI45-D90X-B50X
	PLCD-FI45-E110	PLCD-FI45-E110
	PLCD-FI45-E110-B110	PLCD-FI45-E110-B110
	PLCD-FI45-E110-B40X	PLCD-FI45-E110-B40X
	PLCD-FI45-E110-B50X	PLCD-FI45-E110-B50X
	PLCD-FI45-E110-B75X	PLCD-FI45-E110-B75X
	PLCD-FI45-E125	PLCD-FI45-E125
	PLCD-FI45-E125-B110	PLCD-FI45-E125-B110
	PLCD-FI45-E125-B125	PLCD-FI45-E125-B125
	PLCD-FI45-E125-B50X	PLCD-FI45-E125-B50X
	PLCD-FI45-E160	PLCD-FI45-E160



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	PLCD-FI45-E160-B110	PLCD-FI45-E160-B110
	PLCD-FI45-E160-B125	PLCD-FI45-E160-B125
	PLCD-FI45-E160-B160	PLCD-FI45-E160-B160
	PLCD-FI45-E50X	PLCD-FI45-E50X
	PLCD-FI45-E50X-B40X	PLCD-FI45-E50X-B40X
	PLCD-FI45-E50X-B50X	PLCD-FI45-E50X-B50X
	PLCD-FI45-E75X	PLCD-FI45-E75X
	PLCD-FI45-E75X-B40X	PLCD-FI45-E75X-B40X
	PLCD-FI45-E75X-B50X	PLCD-FI45-E75X-B50X
	PLCD-FI45-E75X-B75X	PLCD-FI45-E75X-B75X
	PLCD-FI45-E90X	PLCD-FI45-E90X
	PLCD-FI45-E90X-B40X	PLCD-FI45-E90X-B40X
	PLCD-FI45-E90X-B50X	PLCD-FI45-E90X-B50X
	PLCD-FI45-E90X-B90X	PLCD-FI45-E90X-B90X
	PLCD-FI87-C110-B110	PLCD-FI87-C110-B110
	PLCD-FI87-D110-B110	PLCD-FI87-D110-B110
	PLCD-FI87-D110-B50A	PLCD-FI87-D110-B50A
	PLCD-FI87-D110-B50B	PLCD-FI87-D110-B50B



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	PLCD-FI87-D50X-B50X	PLCD-FI87-D50X-B50X
	PLCD-FI45-E75X-B75X	PLCD-FI45-E75X-B75X
	PLCD-FI87-E110	PLCD-FI87-E110
	PLCD-FI87-E110-B110	PLCD-FI87-E110-B110
	PLCD-FI87-E110-B40X	PLCD-FI87-E110-B40X
	PLCD-FI87-E110-B50X	PLCD-FI87-E110-B50X
	PLCD-FI87-E110-B75X	PLCD-FI87-E110-B75X
	PLCD-FI87-E125	PLCD-FI87-E125



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Attachment 8 – Telecommunications Symbols

	270500-001	BASE BLOCK COMM
	270500-002	BASE CIR COMM
	270500-003	DMARC
	270500-004	PORT BASE
	270500-005	PORT DATA
	270500-006	PORT MISC
	270500-007	PORT TEL
	270500-008	PORT TEL & DATA
	271100-001	RACK OR HEAD END
	271100-002	TOUCHPANEL
	271100-003	WIRED PROC
	272200-002	TOUCHPAD
	274100-001	ANT
	274100-002	ANT DISH
	274100-003	LIFT MT
	274100-004	MASKING SCR N
	274100-005	PROJ SCR N



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	274100-006	REMOTE AV SOURCE
	274100-007	SEAT ACTUATOR
	274100-008	SPEAKER
	275100-001	JOYSTICK CONT
	275100-002	MIC
	275100-003	VOL CTRL
	275300-001	FAX PRINTER COPIER
	275300-002	PORT MISC CONT
	275300-003	RF REPEATER OR WAP
	274200-002	WHITE BD
	274200-001	POS
	272200-001	CPU SVR



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Attachment 9 – Safety and Security Symbols

	283000-006	ALARM HORN-LT ONE ASSY
	283000-007	ALARM HORN-LT ONE ASSY WITH CHIME
	283000-008	ALARM HORN-LT SEPARATE ASSY
	283000-009	ALARM LAMP LT SIGNAL LT STRB
	283000-010	PURGE CTRL MAN CTRL
	283000-011	ALARM MASTER CTRL PNL
	283000-012	ALARM MINI HORN
	283000-013	ALARM SPKLR SYS WTR FLOW BELL
	283000-014	ALARM TAMPER SW
	283000-015	ALARM TRANSPONDER-TRANSMITTER
	283000-016	ALARM VOICE COMM PNL
	283000-017	DETECTION G
	283000-018	DETECTIN SMK CTRL & PRESS PNL
	283000-019	DETECTION SW ABORT
	283000-020	DETENTION SW VALVE TAMPER
	283000-021	DETECTOR FLAME FLICKER
	283000-022	DETECTOR FLOW SW
	283000-023	DETECTOR HEAT



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	283000-024	DETECTOR HEAT COMB
	283000-025	DETECTOR HEAT FIXED TEMP
	283000-026	DETECTOR HEAT RATE COMPENSATION
	283000-027	DETECTOR HEAT RATE OF RISE
	283000-028	DETECTOR HEAT SMK
	283000-032	DETECTOR IONIZATION SMK
	283000-034	DETECTOR PE SMK
	283000-035	DETECTOR SMK
	283000-036	DETECTOR SMK FOR DUCT
	283000-037	DETECTOR SW LEVEL
	283000-038	FAAP
	283000-039	FIRE ALARM STA MAN PULL
	283000-040	DETECTOR SMK AIR SAMP
	281000-001	AUDIO DEVICE
	281000-002	BI-STATIC BEAM SNsr
	281000-003	BIOMETRICS ACS CTRL DEVICE
	281000-004	CARD ACS READER

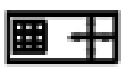


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	281000-005	CARD READER WITH KEYPAD
	281000-006	CARD READER WITH TIME & ATTENDANCE
	281000-007	CENTRAL PROCESSING UNIT
	281000-008	CTRL PNL
	281000-009	ELECTRONIC LOCK
	281000-010	EXIT DEVICE
	281000-011	FIBER OPTIC MODULE
	281000-012	FIELD PNL
	281000-013	GL BREAKAGE SNSR
	281000-014	INTERCOM
	281000-015	KEYBD
	281000-016	KEYPAD DEVICE
	281000-017	MON
	281000-018	MOTION DETECTOR
	281000-019	PB
	281000-020	RECORDER
	281000-021	SECURITY ANNUNCIATOR PNL ACS
	281000-022	SECURITY ACS BUZZER



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	281000-023	SECURITY ACS CTRL UNIT WITH CCTV CAM
	281000-024	SECURITY ACS GENERIC
	281000-025	SECURITY ACS HORN OR SIREN
	281000-026	SECURITY ACS OUTDR MW TRANSMISSION UNIT
	281000-027	SECURITY ACS PANIC ALARM
	281000-029	SECURITY ACS VOLUMETRIC SNSR
	281000-030	SECURITY SCRN WITH ALARM
	281000-031	SECURITY WDW SCRN
	281000-032	VID CTRL KEYBD
	281000-033	VID MOTION DETECTOR
	281000-034	VID CAM
	281300-002	SECURITY ACS SNSR BURIED VEHICULAR
	281300-003	SECURITY ACS SW BALANCED MAGNETIC CTRL
	281300-004	SECURITY ACS TEL HANDSET
	283000-001	ALARM CHKV
	283000-002	ALARM COMMUNICATOR FIRE
	283000-003	ALARM FIRE CTRL PNL
	283000-005	ALARM GONG



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Attachment 10 – Utilities Symbols

	337100-001	ELEC AERIAL SERVICE WEATHER HEAD
	337100-002	LT POST ONE ARM IN PWR POLE
	337100-003	UTIL DISTR SW OR SWING STA
	337100-004	UTIL ELEC MH
	337100-005	UTIL PRI ELEC HANDHOLE
	338100-001	UTIL COMMS MH
	338100-002	UTIL TEL MH
	330500-001	UTIL SERVICES MH
	331100-001	PIPING THRUST BLOCK
	331100-002	UTIL WTR HANDHOLE
	331100-003	UTIL WTR MH
	331100-004	UTIL WTR M
	331100-005	UTIL WTR M STA
	331100-006	UTIL WTR PLANT
	331100-007	UTIL WTR STA PUMP
	331100-008	UTIL WTR TANK
	331100-009	UTIL WTR VALVE VAULT



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	331200-001	HYD FIRE
	331200-002	HYD ONE HOSE OUT
	331200-003	HYD 2 HOSE OUT
	331200-004	HYD WALL
	331200-005	HYD WALL 2 HOSE OUT
	331200-006	HYD PAN FIRE
	331200-007	UTIL POLE
	331600-001	STOR TANK WTR UTIL
	333000-001	UTIL SAN MH
	333000-002	UTIL SAN M
	333000-003	UTIL SAN PRESS VESSEL
	333000-004	UTIL SAN SWR LIFT STA
	333600-001	UTIL SEPTIC TANK
	333900-001	UTIL SAN CO
	333900-002	UTIL SAN VALVE VAULT
	334400-001	DRAGE CATCH BASIN
	334400-002	DRAGE CATCH BASIN RND
	334600-001	DRAGE OPEN TILE DR



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	334700-001	DRAKE SPRAY POND
	334900-001	UTIL STORM DRAINAGE MH
	335000-001	UTIL G PLANT
	335100-001	PIPING G SHUTOFF
	335100-002	PIPING NAT G RCVR
	335100-003	UTIL MH NAT G
	335100-004	UTIL M NAT G
	335100-005	UTIL NAT G TRAP
	335600-001	STOR TANK FUEL STOR
	337000-001	ELEC GUY WIRE
	337000-002	ELEC HANDHOLE
	337000-003	ELEC XFMR CURRENT