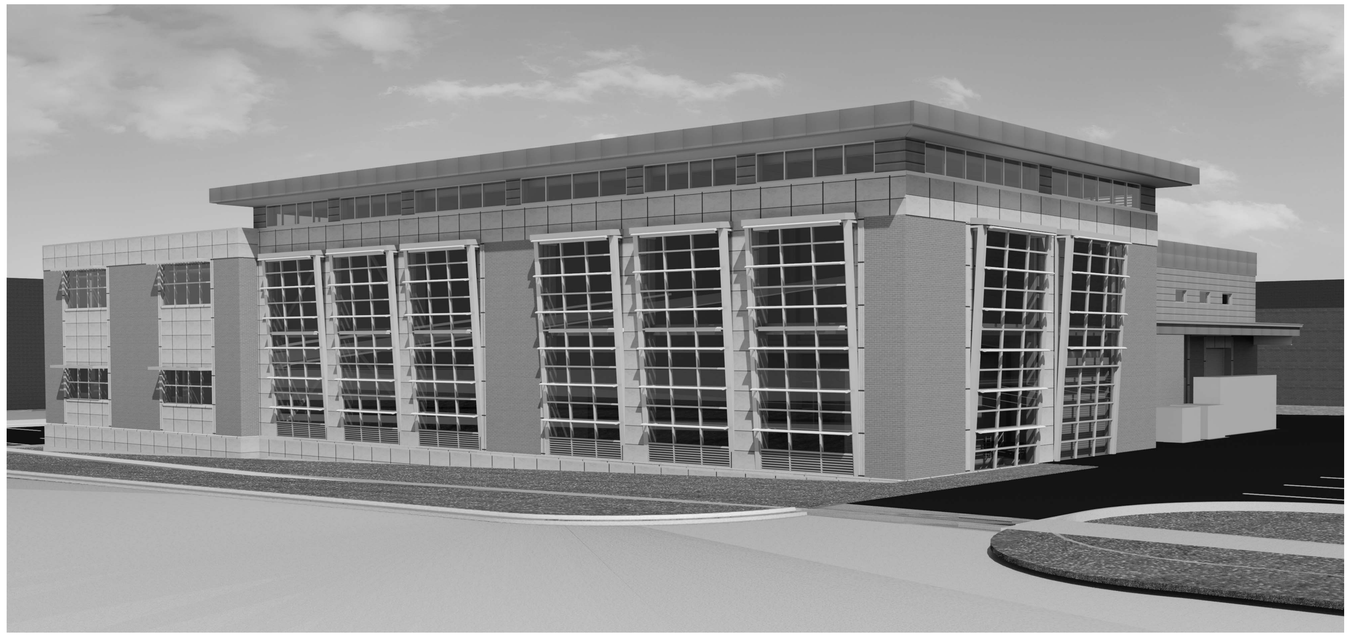
STATE OF KANSAS ENERGY & SERVICE CENTER

Kansas
Department of Administration



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ELECTRICAL
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EPT201 KSH NW MECHANICAL VAULT- ELECTRICAL

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DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 173000038

DRAWN BY: Author CHECKED BY: Checker REV:

DATE: 4-15-15

TITLE SHEET

A-012651

G101

CONSTRUCTION DOCUMENTS

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JCSBC
2-2-2016
Att.9C.--0001

GRAPHIC SYMBOLS

EXPANSION JOINT

CONTROL JOINT

FLOOR COVERING CHANGE

SAWCUT CONCRETE FLOOR JOINTS- REFERENCE STRUCTURAL DRAWINGS FOR COMPLETE LOCATIONS

100'-0" NEW FINISH SPOT ELEVATIONS IN FEET AND INCHES (OR ON SITE PLAN IN FEET AND DECIMALS)

100'-0" EXISTING SPOT ELEVATION

NEW DOOR

EXISTING DOOR

101 (180) 101 DOOR MARK - REFERENCE DOOR AND FRAME SCHEDULE

LOCATION OF SYMBOL ON PAIR OF DOORS INDICATES THE ACTIVE LEAF

1 PLAN NOTES

SECTION MARK-1 = DETAIL NUMBER, A1.1 = SHEET NUMBER

BUILDING SECTION

WALL SECTION

INTERIOR ELEVATION MARKER: A2.2 = SHEET NUMBER, 6 = DETAIL NUMBER

A2.2 6

BUILDING ELEVATION MARKER: A2.1 = SHEET NUMBER, 6 = DETAIL NUMBER

A2.1 6

SIM A1.1 DETAIL MARKS: 1 = DETAIL NUMBER, A1.1 = SHEET NUMBER, SIM = SIMILAR

LEVEL 1 0'-0" ELEVATION MARK IN FEET AND INCHES

WOOD FRAME MARK - REFERENCE FRAME ELEVATIONS.

B1 STEEL FRAME MARK - REFERENCE FRAME ELEVATIONS

A1 ALUMINUM FRAME MARK - REFERENCE FRAME ELEVATIONS

GLASS TYPE - REFERENCE GLASS SCHEDULE ON SHEET A501

M12A(3) PARTITION MARK - REFERENCE PARTITION SCHEDULE (N) INDICATES FIRE RATING OF WALL IN HOURS (S) INDICATES SMOKE PROTECTED PARITION

TB - 4' MB - 6' TB-4: TACKBOARD - 4' LENGTH.

MB-6: MARKER BOARD - 6' LENGTH. (NOTE: MOUNT BOTTOM @ 2'-6" A.F.F. U.N.O.)

MR - 4' TS - 6' TS: TACK STRIP - 6' LENGTH

MR - 4': MAP RAIL 4'-0" MOUNT @ 6'-0" A.F.F.

PS - 5' WB - 6' PS - 5': ELECTRIC PROJECTION SCREEN, 5'-0" IN LENGTH

WB - 6': INTERACTIVE WHITE BOARD, 6'-0" (OWNER PROVIDED U.N.O.

MASONRY CONTROL JOINT FROM BEARING TO TOP OF WALL. DRYWALL CONTROL JOINT FROM BEARING TO TOP OF WALL. PROVIDE ON BOTH SIDES OF WALL

MASONRY CONTROL JOINT FROM LINTEL BEARING TO TOP OF WALL OR BOND BEAM. DRYWALL CONTROL JOINT FROM TOP OF OPENING TO TOP OF WALL. MASONRY OR DRYWALL CONTROL JOINT FROM BOTTOM OF OPENING TO WALL BEARING. PROVIDE ON BOTH SIDES OF WALL

MASONRY DUMMY CONTROL JOINT. LOCATE SIMILAR TO CONTROL JOINT ABOVE

B3 B3 B3 CASEWORK DESIGNATION. NUMBER INDICATES UNIT NUMBER IDENTIFIED IN MANUFACTURED CASEWORK SCHEDULE. REFERENCE SPECIFICATIONS.

1.1 EQUIPMENT OR FURNISHINGS SHOWN ON FLOOR PLANS. INDICATES FURNISHINGS BY OWNER (N.I.C.) OR FIXED EQUIPMENT PLANS

FURNITURE TAG. WHEN FURNITURE IS INCLUDED IN CONTRACT

LOCKERS: X INDICATES FILLER UNITS

4W-10" FLOOR DRAIN (ELEVATION IN FEET AND INCHES WHERE INDICATED)

MOP/JANITOR SINK

WATERCLOSET, URINAL, LAVATORY (RESPECTIVELY)

D.F.(2) D.F. DRINKING FOUNTAIN - REFERENCE PLUMBING

F.E.C. F.E.C.: FIRE EXTINGUISHER CABINET F.H.C.P: FIRE HOSE CABINET

A1 B2 C3 COLUMN. A1= COLUMN NUMBER (IF NOT SHOWN, COLUMN NUMBER PER GRID)

COLUMN

COLUMN GRID NUMBERS AND/OR LETTERS

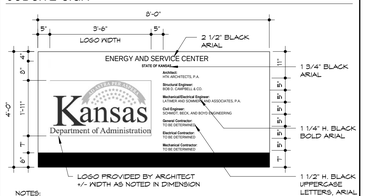
Note: REF. SITE PLAN LEGEND, ROOF PLAN LEGEND AND CEILING PLAN LEGEND FOR ADDITIONAL NOTES AND LEGENDS.

ABBREVIATIONS

NOTE: REFER TO SPECIFICATIONS FOR ADDITIONAL ABBREVIATIONS OF REFERENCED STANDARDS, REGULATORY AGENCIES, ASSOCIATIONS AND OTHERS

A.B.	ANCHOR BOLT	MAS	MASONRY
ABV	ABOVE	MAT. MATL	MATERIAL
AD	ACTUAL DIMENSION, ACCESS DOOR	MAX	MAXIMUM
		MCH	MACHINE
ADJ	ADJACENT	MC	MECHANICAL CONTRACTOR
APF	ABOVE FINISH FLOOR	MDO	MEDIUM DENSITY OVERLAY
AHU	AIR HANDLING UNIT	MEGH	MECHANICAL MEGHANISM
ALT	ALTERNATE	MFGR	MANUFACTURER
ALUM	ALUMINUM	MH	MANHOLE
ANCH	ANCHOR	MIN	MINIMUM
∠	ANGLE	MISC	MISCELLANEOUS
ARCH	ARCHITECTURAL	MO	MASONRY OPENING
@	AT	MS	MACHINE SCREW
AVG R	AVERAGE 'R' FACTOR FOR INSULATION	MTL	METAL
B/C	BACK OF CURB	N	NORTH
BD	BOARD	NA	NOT APPLICABLE
BLDG	BUILDING	NIC	NOT IN CONTRACT
BM	BEAM	NO.#	NUMBER
BMK	BENCH MARK	NOM	NOMINAL
BRG	BEARING	NTS	NOT TO SCALE
BTM	BOTTOM	NWCMU	NORMAL WEIGHT CONCRETE MASONRY UNIT
BUR	BUILT-UP ROOFING		
		OA	OVERALL
CABT	CABINET	OC(S)	ON CENTER (STAGGERED, IF 2 ROWS)
CB	CATCH BASIN		
CH	COAT HOOK	OD	OVERFLOW DRAIN
C	CAST IRON	OFF	OFFICE
C/F	CAST-IN-PLACE	OPER	OPERATOR, OPERABLE, OPERATING
	CONTROL JOINT	OPNG	OPENING
℄	CENTER LINE	OTO	OUT-TO OUT
CLG	CEILING	OZ	OUNCE
CMU	CONCRETE MASONRY UNIT		
CMT	CERAMIC MOSAIC TILE	PARTN	PARTITION
CMTP	CORRUGATED METAL PIPE	PBD	PARTICLE BOARD
CO	CLEAN OUT	PC	PORTLAND CEMENT, PIECE
COL	COLUMN	PERIM	PERIMETER
CONC	CONCRETE	PL	PLATE
COND	CONDITION	PLAM	PLASTIC LAMINATE
CONST	CONSTRUCTION	PNL	PANEL
CONT	CONTINUOUS, CONTINUE	PWD	PLYWOOD
CR'I	COMMUNICATIONS RISER	PR	PAIR
CTSK	COUNTERSUNK	PSF	POUNDS PER SQUARE FOOT
CUH	CABINET UNIT HEATER	PSI	POUNDS PER SQUARE INCH
		PVMT	PAVEMENT
DBL	DOUBLE		
DF	DRINKING FOUNTAIN	QTY	QUANTITY
DIA	DIAMETER	QT	QUARRY TILE
DIM	DIMENSION		
DR	DOOR	R/R	REMOVE & REPLACE
DWG	DRAWING	R	RADIUS
DWG(S)	DRAWING (S)	RA	RETURN AIR
DS(O)	DOWNSPOUT (OUTLET)	RCP	REINFORCED CONCRETE PIPE
DTL	DETAIL	RD	ROOF DRAIN
		REF	REFER TO, REFERENCE
E	EAST	REFL	REFLECTED
EA	EACH	REINF	REINFORING, REINFORCED
EC	ELECTRICAL CONTRACTOR	REQ'D	REQUIRED
EF	EACH FACE	REV	REVERSED
EJ	EXPANSION JOINT	RJ	RUSTICATION JOINT
ELEC	ELECTRICAL	RMS	ROOMS
EL. ELEV	ELEVATION	RO	ROUGH OPENING
ENCL	ENCLOSURE	RTU	ROOF TOP UNIT
EQ	EQUAL		
EQUIP	EQUIPMENT	S	SOUTH
EA	EACH WAY	SAN	SANITARY
EXP	EXPANSION	SC	SAWCUT
EXT	EXTERIOR, EXTERNAL	SD	SOAP DISPENSER
EXIST.EX	EXISTING	SECT	SANITARY
		SF	SQUARE FOOT
FA	FRESH AIR	SFCMU	SPLIT FACE CONCRETE MASONRY UNIT
FD	FLOOR DRAIN		
FE	FIRE EXTINGUISHER	SHT	SHEET
FEC	FIRE EXTINGUISHER CABINET	SIM	SIMILAR
FFGO	FLUSH FLOOR CLEANOUT	SLV	SHORT LEG VERTICAL
FH	FLAT HEAD	SMS	SHEET METAL SCREWS
FHC	FIRE HOSE CABINET	SND	SANITARY NAPKIN DISPENSER
FIN	FINISH	SNR	SANITARY NAPKIN RECEPTACLE
F	FLOWLINE	SPEC	SPECIFICATION
FL, FLR	FLOOR	SQ	SQUARE
FLRG	FLOORING	SS	STAINLESS STEEL
FND	FOUNDATION	STD	STANDARD
FOS	FACE OF STRUCTURE	STL	STEEL
FR	FIRE RATED, FIRE RESISTIVE	STRUCT	STRUCTURAL
FRIG	REFRIGERATOR	SUSP	SUSPENSION
FS	FLOOR SINK, FOOD SERVICE	SYM	SYMMETRICAL
FT	FEET OR FOOT		
FV	FIELD VERIFY	TB	TACKBOARD
		TD	TOWEL DISPENSER & DISPOSER (PAPER), OR TRENCH DRAIN
GA	GAUGE	T & G	TONGUE AND GROOVE
GALV	GALVANIZED	TEMP	TEMPERED, TEMPORARY
GC	GENERAL CONTRACTOR	TEXT	TEXTURED
GEN	GENERAL	THK	THICK
GI	GALVANIZED IRON	TLT	TOILET
GL	GLASS	TOC	TOP OF CURB OR CONCRETE
GYP	GYPSUM	TOS	TOP OF SLAB, STEEL OR STRUCTURE
HB	HOSE BIBB	TP	TOILET PAPER DISPENSER
HC	HANDICAPPED (ACCESSIBLE)	TPL	TWO PERSON LOCKER
HDWE	HARDWARE	TWS	TACTILE WARNING SURFACE
HD WD	HARD WOOD	TX/FR	TRANSFORMER
HM	HOLLOW METAL	TYP	TYPICAL
HT	HEIGHT		
HORIZ	HORIZONTAL, HORIZONTALLY	UNO	UNLESS NOTED OTHERWISE
HPL	HIGH PRESSURE LAMINATE	US	URINAL SCREEN
HR	HOUR		
HVAC	HEATING VENTILATING & AIR CONDITIONING	V.C.P.	VITEOUS CLAY PIPE
		V.C.T.	VINYL COMPOSITION TILE
		VERT.	VERTICAL, VERTICALLY
ID	INSIDE DIAMETER	V.W.C.	VINYL WALL COVERING
INSUL	INSULATION		
INT	INTERIOR	W	WEST
INTERM	INTERMEDIATE	W/	WITH
WB	INTERACTIVE WHITE BOARD	WC	WATER CLOSET
		WD	WOOD
JB	JUNCTION BOX	WDW	WINDOW
JT(S)	JOINT(S)	W/O	WITH OUT
		WO	WHERE OCCURS
LB	LOCKER BENCH	WT	WEIGHT
LLV	LONG LEG VERTICAL	WWF	WELDED WIRE FABRIC
LT WT	LIGHTWEIGHT	WPG	WATERPROOFING
LT	LIGHT		
LW(CMU	LIGHTWEIGHT CONCRETE MASONRY UNIT		

JOBSITE SIGN



NOTES:

1) COLORS TO BE DETERMINED BY ARCHITECT PRIOR TO PRINTING.

2) PROVIDE ARIAL FONT STYLE FOR ALL TEXT. VERIFY ANY DISCREPANCIES WITH ARCHITECT.

3) PROVIDE ON DOUBLE SIDED "MDO" BOARD OR ALUMINUM. PROVIED GRAPHICS ON ONE SIDE ONLY.

4) 1-COAT ALKYD PRIMER AND 2-COATS LATEX ENAMEL FINISH COLOR ON ALL SIDES AND EDGES.

5) ERECT AND BACK BRACE WITH 4" X 4" PRESSURE-TREATED POSTS. TOP OF SIGN ELEVATION 8'-0" ABOVE GROUND. POSTS SHALL BE SET IN GROUND MIN. OF 24" AND BACK BRACED TO WITH STAND WIND LOADS. ERECT SIGN PLUMB AND LEVEL.

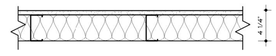
6) REPAIR/ REPLACE SIGN AS REQD FROM DAMAGES AND/ OR DETERIORATION AS REQD THROUGH OUT PROJECT.

7) LOCATION TO BE DETERMINED BY OWNER.

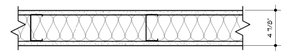
8) LOGO COLORS TO MATCH OFFICIAL DISTRICT COLORS

PARTITION TYPES

GYPSUM



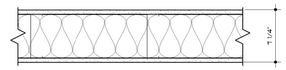
G-4a GYPSUM BOARD PARTITION: 3 5/8" METAL STUDS @ 16" OC - COVER ONE SIDE WITH 5/8" GYPSUM BOARD. EXTEND PARTITION TO UNDERSIDE OF DECK AND FILL VOIDS WITH SAFING INSULATION. FIRE RATED PARTITION - UL #U419



G-5a GYPSUM BOARD PARTITION: 3 5/8" METAL STUDS @ 16" OC - COVER EACH SIDE WITH 5/8" GYPSUM BOARDS. EXTEND PARTITION TO UNDERSIDE OF DECK AND FILL VOIDS WITH SAFING INSULATION. FIRE RATED PARTITION - UL #U419

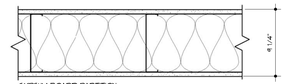
G-5b GYPSUM BOARD PARTITION: 3 5/8" METAL STUDS @ 16" OC - COVER EACH SIDE WITH 5/8" GYPSUM BOARDS. EXTEND PARTITION TO 4" ABOVE CEILING.

G-5c GYPSUM BOARD PARTITION: 3 5/8" METAL STUDS @ 16" OC - COVER EACH SIDE WITH 5/8" GYPSUM BOARDS. EXTEND PARTITION TO 10'-0" AFF. BRACE TOP OF WALL BACK TO STRUCTURE EVERY 48" O.C.



G-7a GYPSUM BOARD PARTITION: 6" METAL STUDS @ 16" OC - COVER EACH SIDE WITH 5/8" GYPSUM BOARDS. EXTEND PARTITION TO UNDERSIDE OF DECK AND FILL VOIDS WITH SAFING INSULATION. FIRE RATED PARTITION - UL #U419

G-7a (s) GYPSUM BOARD SMOKE PROTECTED PARTITION: 6" METAL STUDS @ 16" OC - COVER EACH SIDE WITH 5/8" GYPSUM BOARDS. EXTEND PARTITION TO UNDERSIDE OF DECK AND FILL VOIDS WITH SAFING INSULATION. SEAL AROUND ALL PENETRATIONS TO PREVENT SMOKE FROM PASSING THROUGH.



G-9a GYPSUM BOARD PARTITION: 8" METAL STUDS @ 16" OC - COVER EACH SIDE WITH 5/8" GYPSUM BOARDS. EXTEND PARTITION TO UNDERSIDE OF DECK AND FILL VOIDS WITH SAFING INSULATION. FIRE RATED PARTITION - UL #U419

G-9a (s) GYPSUM BOARD SMOKE PROTECTED PARTITION: 8" METAL STUDS @ 16" OC - COVER EACH SIDE WITH 5/8" GYPSUM BOARDS. EXTEND PARTITION TO UNDERSIDE OF DECK AND FILL VOIDS WITH SAFING INSULATION. SEAL AROUND ALL PENETRATIONS TO PREVENT SMOKE FROM PASSING THROUGH.

GYPSUM BOARD GENERAL NOTES

A) UNLESS NOTED OTHERWISE, EXTEND GYPSUM BOARD 4" ABOVE FINISHED CEILING ELEVATION.

B) REFER TO SPECIFICATIONS SECTIONS 054000 AND 092216 FOR ADDITIONAL REQUIREMENTS.

C) UNLESS NOTED OTHERWISE, PROVIDE 4" ACOUSTICAL INSULATION IN ALL PARTITIONS.

D) FRAME AROUND DUCTWORK, BACK BRACE AS REQUIRED FOR STABILITY.

E) REFER TO HOLLOW METAL FRAME DETAILS FOR ADDITIONAL DETAIL REQUIREMENTS.

F) EXTEND STUDS TO TOP RUNNER ATTACHED TO STRUCTURE ABOVE, OR BACK BRACE TO STRUCTURE AS NECESSARY TO FULLY STABILIZE THE PARTITIONS.

G) REFER TO COLUMN DETAILS FOR ADDITIONAL DETAIL REQUIREMENTS.

H) REFER TO FINISH SCHEDULE FOR WALL FINISH.

I) ALL PENETRATIONS THROUGH GYPSUM BOARD PARTITIONS EXPOSED TO VIEW WILL BE TRIMMED NEAT AND TRUE AND SEALED.

J) WHEN PARTITION EXTENDS TO STEEL BEAM ABOVE, FILL VOIDS BETWEEN DECK AND TOP OF STEEL BEAM WITH ACOUSTICAL INSULATION.

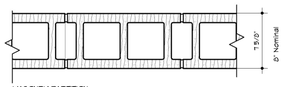
K) WHERE JOISTS PENETRATE PARTITIONS EXTENDING TO STRUCTURE ABOVE, HOLD PARTITIONS 2" CLEAR OF JOIST TO ALLOW FOR DEFLECTION AND FILL VOID WITH ACOUSTICAL INSULATION.

L) COORDINATE FRAMING WITH ALL STRUCTURAL BRACING.

M) PROVIDE GYPSUM AND FRAMING AROUND ALL COLUMNS, U.N.O.

N) ALL LOCATIONS WHERE GYPSUM WALLS AND STRUCTURE DO NOT ALIGN FRAME AROUND STRUCTURE.

MASONRY:



M-8a MASONRY PARTITION: 8" LACMU, UNO - EXTEND PARTITION TO UNDERSIDE OF DECK AND FILL VOIDS WITH SAFING INSULATION. FIRE RATED PARTITION - UL #U801, ALL C.M.U. MUST BEAR UL SYMBOL 4 HR - B-4 C.M.U. 3 HR - C-3 C.M.U. 2 HR - D-2 C.M.U.

M-8b MASONRY PARTITION: 8" LACMU, UNO - EXTEND PARTITION TO ONE (1) COURSE ABOVE CEILING. BACKBRACE AS REQUIRED FOR STABILITY.

MASONRY GENERAL NOTES

1 ALL WALLS TO HAVE STANDARD JOINT REINFORCING 1-4 O.C. MAX.

2 REFER TO FRAME DETAILS ON ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAIL REQUIREMENTS.

3 REFER TO DIVISION 4 SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.

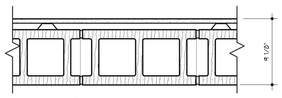
4 REFER TO DETAILS ON ARCHITECTURAL DETAIL DRAWINGS FOR ADDITIONAL DETAIL REQUIREMENTS.

5 REFER TO FINISH SCHEDULE FOR WALL FINISH.

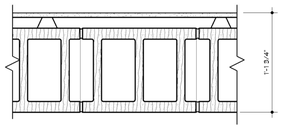
6 ALL MASONRY PARTITIONS ARE 8" UNLESS NOTED OTHERWISE

7 REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT AND GROUT REQUIREMENTS.

COMPOSITE:



C-9a COMPOSITE PARTITION: 8" LACMU, UNO FURRED OUT WITH 7/8" METAL STRIPS @24" OC. WITH 5/8" GYPSUM BOARD ON ONE SIDE. EXTEND LACM, FURRING, AND GYPSUM TO DECK AND FILL VOIDS BETWEEN DECK AND BLOCK WITH SAFING INSULATION. FIRE RATED PARTITION - UL #U414 (3 HR)



C-12a COMPOSITE PARTITION: 8" LACMU, U.N.O. FURRED OUT WITH 1½" METAL STRIPS @24" OC. WITH 5/8" GYPSUM BOARD ON ONE SIDE. EXTEND LACM, FURRING, AND GYPSUM TO DECK AND FILL VOIDS BETWEEN DECK AND BLOCK WITH SAFING INSULATION. FIRE RATED PARTITION - UL #U814 (3 HR)

GENERAL NOTES

1) GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN SPECIFICATIONS AND DRAWINGS, BETWEEN MULTIPLE SPECIFICATION SECTIONS AND OR BETWEEN MULTIPLE DRAWINGS. THE ARCHITECT WILL DETERMINE WHICH SHALL GOVERN.

2) GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE JOB SITE INCLUDING UTILITIES AND EXISTING STRUCTURES PRIOR TO BEGINNING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

3) GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION INCLUDING ALL SHORING AND BRACING REQUIRED TO RESIST REQUIRED VERTICAL AND LATERAL FORCES.

4) ALL ARCHITECTURAL FLOOR PLAN DIMENSIONS ARE FROM FACE OF CONCRETE, MASONRY AND FINISHED DRYWALL.

5) MASONRY DIMENSIONS ARE NOMINAL UNLESS INDICATED OTHERWISE.

6) MASONRY PARTITIONS ARE TYPE M8a UNLESS INDICATED OTHERWISE.

7) ALL INTERIOR CONCRETE MASONRY PARTITIONS AND ALL MASONRY BACK-UP FOR EXTERIOR WALLS ARE LACMU UNLESS NOTED OTHERWISE.

8) HORIZONTAL MASONRY DIMENSIONS FROM OUTSIDE TO OUTSIDE CORNERS ARE ACTUAL. WHEN DIMENSIONS ARE 2'-0" OR LESS, CONSTRUCT ONE JOINT LESS THAN DIMENSION SHOWN.

9) GYPSUM BOARD PARTITIONS ARE TYPE G5a UNLESS INDICATED OTHERWISE.

10) GENERAL CONTRACTOR SHALL PROVIDE 3½" HIGH CONCRETE CURBS AT ALL ELECTRICAL PANELS AND WHERE 2 OR MORE CONDUITS ARE EXPOSED AT THE FLOOR LINE.

11) MECHANICAL /ELECTRICAL CONTRACTOR SHALL SIZE AND GENERAL CONTRACTOR SHALL FORM, SUPPORT, AND POUR INTERIOR AND EXTERIOR BASES FOR MECHANICAL AND ELECTRICAL EQUIPMENT (3½" AT INTERIOR LOCATIONS AND 5½" AT EXTERIOR LOCATIONS UNLESS INDICATED OTHERWISE). REFER TO GENERAL PROVISIONS OF MECHANICAL SPECIFICATIONS FOR MINIMUM SIZES. UNLESS INDICATED OTHERWISE, REINFORCE WITH 4"x4" - #4 OVER 4.0 PSF.

12) NO WALL FINISH OTHER THAN PAINT IS REQUIRED BEHIND CABINETS, CHALKBOARDS, TACKBOARDS, ETC UNLESS WALL BEHIND IS EXPOSED TO VIEW AND/OR WHERE NOTED OTHERWISE.

13) PROVIDE WALL BASE AT ALL CABINETS, SHELVING AND COLUMNS; AND AS SCHEDULED.

14) PROVIDE LINTELS (REF. STRUCTURAL AND MEC. LINTEL SCHEDULE) FOR ALL OPENINGS IN MASONRY WALLS FOR FIRE EXTINGUISHER CABINETS, LOUVERS, GRILLES, DOORS, ETC.

15) GROUT SMOOTH ALL CONCRETE COLUMNS AND WALLS PRIOR TO PAINTING. GROUT CONCRETE TO BE PAINTED WITH DRYWALL COMPOUND. CONCRETE COLUMNS AND WALLS SCHEDULED NOT TO BE PAINTED, GROUT WITH CEMENTITIOUS MATERIAL TO MATCH CONCRETE.

16) CONTINUE CONTROL JOINTS, INCLUDING SEALANTS, ABOVE CEILING ELEVATIONS FOR FULL HEIGHT OF WALL OR PARTITION.

17) CONSTRUCT ALL MASONRY PARTITIONS THAT EXTEND TO THE UNDERSIDE OF STRUCTURE WITH A ¾" CLEARANCE AROUND ALL STRUCTURE AND FILL VOIDS WITH SAFING INSULATION, UNLESS NOTED OTHERWISE.

18) PROVIDE 2x6 FIRE-RETARDANT TREATED BLOCKING IN GYPSUM BOARD PARTITIONS BEHIND CASEWORK. BLOCK AT TOP OF CABINET UNITS, TOP & BOTTOM OF WALL UNITS, TOP AND MID-HEIGHT OF TALL UNITS. PROVIDE 2x6 FIRE-RETARDANT TREATED BLOCKING IN GYPSUM BOARD PARTITIONS BEHIND GRAB BARS, DOOR STOPS, WALL-MOUNTED SHELVING, WALL-MOUNTED TV'S AND OTHER LOCATIONS AS SPECIFIED OR NOTED. CUT TO FIT SNUGLY BETWEEN STUDS & KERF AT STUD FLANGES TO FIT FIRMLY TO BACK OF DRYWALL.

19) REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR REINFORCING STEEL IN MASONRY WALLS AND POURED CONCRETE.

20) REFER TO CODE COMPLIANCE PLANS FOR FIRE RATINGS OF PARTITIONS AND SMOKE BARRIER LOCATIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF PARTITIONS AND BARRIERS TO COMPLY WITH RATINGS INDICATED.

MATERIALS

EARTH

GRANULAR FILL / DRAINAGE MATERIAL

CONCRETE (ELEVATION/SECTION)

GROUT

LIGHT WEIGHT OR NORMAL WEIGHT CONCRETE MASONRY UNIT AS NOTED

INSULATION - FOUNDAITON

INSULATION - WALL

STEEL

WOOD FRAMING OR BLOCKING

FINISH WOOD

PLYWOOD

INSULATION - ROOF

INSULATION - BATT

GLASS (ELEVATION/SECTION)

GYPSUM BOARD (ELEVATION/SECTION)

DRAINAGE MATERIAL

ACOUSTICAL CEILING PANEL OR TILE

STONE (ELEVATION/SECTION)

KEYNOTES

Note: Keynotes are drawn from a master list, it may not be sequentially numbered. Sizes (ex. 2x4) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

033000	-1	Concrete Structure	081113	-2	Steel Door
	-2	Concrete Floor Slab		-3	Steel Frame
	-3	Vapor Barrier		-4	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Rustication Joint		-6	FRK Door
	-7	Dovetail Anchor	081416	-1	Flush Wood Door
	-8	Dowel	083113	-1	Access Door
	-9	Sidewalk		-2	Access Door Frame
	-10	Premolded Joint Filler		-3	Floor Access Door
035000	-1	Concrete Topping	083323	-1	Overhead Coiling Door
042000	-1	Face Brick		-2	Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Sectional Overhead Door
				-2	Sectional Overhead Door Track
	-3	Concrete Masonry Unit - Lightweight (")		-3	Weatherstripping
	-4	Wire Reinforcing	084113	-1	Aluminum Entrance Door
	-5	Metal Tie/Anchor		-2	Aluminum Entrance Frame
	-6	Through Flashing		-3	Sunshade
	-7	Control Joint Strip		-4	Aluminum Bubsill
	-8	Bond Beam (")	084413	-1	Glazed Aluminum Curtain Wall
	-9	Compressible Filler		-2	Entry
	-10	Reinforcing		-3	Throughwall
	-11	Cavity Drainage Material		-4	Sunshade Louver
	-12	Termination Bar		-5	Aluminum Bubsill
044300	-1	Stone Masonry	087100	-1	Track Hardware
	-2	Anchor	088000	-1	Glazing (as scheduled)
	-3	Stone Jamb	088085	-1	Security Glazing (as scheduled)
	-4	Stone Sill			
	-5	Belt Course	091116	-1	Louvers and Vents
041200	-1	Cast Stone	092216	-1	Steel Stud (")
051200	-1	Steel Beams		-2	Steel Stud Runner (")
	-2	Steel Column		-3	Furring Channel (")
	-3	Steel Tube	092400	-1	Portland Cement Plastering
	-4	Steel Channel		-2	Metal Lath
052100	-1	Steel Joist		-3	Casing Bead
	-2	Joist - Extended End	092900	-1	Gypsum Board (")
	-3	Joist - Ceiling Extension		-2	Fire Rated Gypsum Board
053100	-1	Steel Decking			Assembly
	-2	Steel Composite Decking		-3	Cementitious Tile Backer Panel
	-3	Flexible Closure Strips			
054000	-1	Structural Steel Studs		-4	Metal Suspension System
	-2	Structural Steel Joists		-5	Acoustical Sealant
	-3	'Z' Girt		-6	Acoustical Insulation (")
055000	-1	Steel Angle		-1	Metal Edge Trim
	-4	Steel Channel		-3	Auxiliary Supports Framing
	-5	Steel Lintel		-4	Metal Control Joint
	-6	Steel Pipe		-10	High Impact Gypsum Board
	-7	Steel Tube		-11	Concrete Interior Finishing Compound
	-8	Steel Plate			
	-9	Steel Ladder		-12	Softener
	-10	Steel Bollard	093000	-1	Porcelain Wall Tile
055100	-1	Steel Stairs			
	-2	Steel Pan Stringer		-2	Shower Pan
	-3	Steel Pan		-3	Shower Pan Flashing
055213	-1	Steel Pipe Handrail		-4	Porcelain Floor Tile (" x ")
	-2	Steel Railing			
	-3	Steel Handrail Wall Bracket		-5	Tile Base
	-4	Steel Rail		-6	Tile Cap
055300	-1	Steel Grating		-7	Setting Bed
	-2	Steel Frame		-9	Uncoupling water-proof membrane
057300	-1	Decorative Metal Railings			
057500	-1	Ornamental Metal Stamped Grille		-4	Shower Splashguard
				-10	Shower Niche
061053	-1	2x Wood Nailer (")	095113	-1	Acoustical Panel (x) (If + Fire Rated)
	-2	2x Wood Blocking (")			
	-3	¾ Wood Continuous (")		-2	Ceiling Suspension System
	-4	Plywood (")		-3	Edge Mold Trim
	-5	4x6 Post		-4	Auxiliary Support Framing
	-6	Framing	096513	-1	Resilient Base Flooring
	-11	Sheathing (")		-2	Resilient Wall Base
064116	-1	Interior Architectural Woodwork Laminate		-3	Edge Strip
	-2	Cabinet Liner Laminate		-4	Tackable Marking Surface
	-3	Cabinet Liner Laminate		-5	Resilient Stair Tread
	-4	Particle Board		-6	Resilient Stair Riser
	-5	Plywood		-7	Resilient Stringer Skirt
	-6	Trim Edge Molding		-8	Resilient Stair Nose
	-7	Solid Wood Blocking	096813	-1	Carpet Tile
	-8	Hardwood	096900	-1	Access Flooring
	-9	Steel Tube/Leg Frame	098123	-1	Exterior Painting
	-10	Door Header	098433	-1	Interior Painting
	-11	Door/Drawer Pull	099635	-1	Sound Deadening Containment
	-12	Magnetic Catch	101400	-1	Coating System
	-13	Drawer	102113	-1	Signage
	-14	Shelf Supports		-2	Toilet Partition
	-15	Countertop	102213	-1	Wire Mesh Partitions
	-16	Solid-surfacing Material	102800	-1	Impact-Resistant Corner-guard
071113	-1	Bituminous Dampproofing	102900	-1	Tissue Dispenser
071326	-1	Self-Adhering Sheet Waterproofing		-2	Framed Mirror
				-3	Sanitary Napkin Disposer
072100	-1	Foundation Wall or under Slab Insulation (R-)		-4	Grab Bar
				-5	Shower Seat
	-2	Cavity Wall Insulation (R-)		-6	Shower Curtain Rod
	-3	Building Insulation - Unfaced (R-)		-7	Coat/Robe Hook
				-8	Shower Curtain
	-4	Building Insulation - Faced (R-)	104413	-1	Fire Extinguisher Cabinet
			104416	-1	Fire Extinguisher
	-5	Sill Sealer	105113	-1	Personnel Locker
	-6	Duct Insulation		-2	Bench
072126	-1	Fluid Applied Membrane Air Barrier	105300	-1	Pre- Manufactured Canopies
	-2	Flashing Tape			
074213	-1	Metal Wall Panel (Type 1)	107500	-1	Flagpole
	-2	Trim	108113	-1	Deterrent Spikes
	-3	J-Furring (")	122413	-1	Roller Window Shades
	-4	Metal Wall Panel (Type 2)	133400	-1	Spray Painting Booth
	-5	Metal Soffit Panel	142400	-1	Hydraulic Elevator
075420	-1	Thermoplastic Polyolefin (TPO) Roofing	312000	-1	Site Clearing
	-2	Roof Insulation Flat	312000	-1	Earth Moving
	-3	Roof Insulation Tapered		-2	Interior Fill
	-4	Roof Expansion Joint		-3	Exterior Fill
	-5	Coverboard		-4	Granular Drainage Course

GENERAL INFORMATION:

LOCATION: State of Kansas
Energy & Service Center
7th & Van Buren St.
Topeka, KS 66603
PHONE: 785.269.4693

OWNER INFORMATION: State of Kansas
800 SW Jackson St. Suite 600
Topeka, KS 66612
REASON FOR SUBMITTAL: New Construction

RESPONDING FIRE DEPARTMENT: Topeka Fire Department
AUTHORITIES HAVING JURISDICTION: Kansas State Fire Marshal

PROJECT DESCRIPTION:
New energy & service center building housing capital complex boilers, chillers, Kansas highway patrol offices, carpentry, HVAC, boiler & electrical shops and offices, and central warehouse facilities.
DATE DEVELOPED: 01/02/15

REGISTERED DESIGN PROFESSIONALS:
HTK Architects, PA
900 S Kansas Ave, Suite 200
Topkea, KS 66612
785-266-5373
FAX: 785.266.5270

APPLICABLE CODES
State Law establishes a minimum Life Safety and has a uniform effect throughout the State. KSA 31-133 and KSA 2003 Sup. 31-134 require that all occupied structures conform to the basic life safety requirements. Most buildings, new or existing, have one or more deviations from one of the recognized building codes. State Law can be summarized as:
A) Existing occupied buildings cannot have hazardous conditions which slow speedy exits.
B) Alteration of existing buildings cannot make existing conditions worse or block exits.
C) New construction and changes in use are subject to greater life safety requirements.
Local Building Inspector: State of Kansas

2012- International Building Code
2012- Uniform Mechanical Code
2012- Uniform Plumbing Code
2012- International Fuel Gas Code
2012- International Energy Code
NFPA 10- 2007
NFPA 13- 2007
NFPA 14- 2007
NFPA 25- 2008

2012- International Fire Code
Kansas Fire Prevention Code
2010- ADA/ABA
Kansas State Boiler Code KSA 44-913
NFPA 72- 2007
NFPA 101- 2006
NFPA 110- 2005
NFPA 70- 2008 (NEC)

OCCUPANCY (Section 303), CLASSIFICATION AND AREA

OVERALL BUILDING: New Construction

OCCUPANCY: B, S-1, A-2 (crew room), F-1 (shops), Non-Separated Occ. Per 508.3.2
CONSTRUCTION TYPE: II - B
BUILDING AREA: ALLOWABLE - 9,500 SF PER FLOOR
FRONTAGE if = 92.4%
SPRINKLER SYSTEM Is = 200%
ALLOWABLE AREA WITH INCREASES

*Allowable Area Calculation
A-2 Occ. Most Restrictiven 9,500 SF
Aa= 9,500 SF + [(9,500 x 92.4%) + (9,500 x 200%)]
Aa= 9,500 SF + [(8,778 + 19,000)]
Aa= 9,500 SF + 9,500 + 27,778
Aa= 37,278 SF Allowable Area Per Floor

ACTUAL - 1st Floor: 20,379 SF
B : 14,792 SF
S-1: 1,944 SF
A-2: 0 SF
F-1: 3,643 SF

ACTUAL - 2nd Floor: 10,948 SF
B : 6,367 SF
S-1: 1,977 SF
A-2: 1,116 SF

BUILDING HEIGHT: ALLOWABLE HEIGHT (STORIES/FT.) = 2/55 FT
ACTUAL HEIGHT = 2/36 FT
ALLOWABLE: 2 STORIES ... ACTUAL 2 STORY

GENERAL BUILDING LIMITATIONS:

Construction Type II-B Structural Fire Ratings	Table 601
Structural frame including columns, girders & trusses:	0 HR
Bearing exterior walls:	0 HR
Bearing interior walls:	0 HR
Nonbearing exterior walls & partitions (Separation > 30 feet):	0 HR
Nonbearing interior walls & partitions:	0 HR
Floor construction including supporting beams & joists:	0 HR
Roof construction including supporting beams & joists:	0 HR

Storage Over 100 SF: AUTOMATIC FIRE SUPRESSION SYSTEM. RESIST PASSAGE OF SMOKE, SELF CLOSING DOORS
Fireproofing: NOT REQUIRED
Protected Exit Path: REQUIRED, PROVIDED @ 1 LEVEL, VEST 101

PLUMBING FIXTURE COUNT:

PLUMBING FIXTURES FOR ASSEMBLY: BASED ON IBC METHOD. PROVIDED PER TABLE 2902.1 OF THE 2006 IPC. ASSUMING 50% MALE AND 50% FEMALE.

A2 (Crew Room) ASSEMBLY OCCUPANTS: **99** OCCUPANTS
Men's Water Closets 1:75 — Women's Water Closets 1:75
Men's and Women's Lavatories: 1:200 — Drinking Fountains 1:500

Men's WCs	Women's WCs	Men's Lavatories	Women's Lavatories	Urinals No more than 67%	Drinking Fountain	Service Sink
50/75	50/75	50/200	50/200	99/500	0.2	1
1	1	1	1	0		

B BUSINESS: **111** OCCUPANTS
Men's Water Closets: 1:25 for first 50 and 1:50 for remaining
Women's Water Closets: 1:25 for first 50 and 1:50 for remaining
Men's Lavatories: 1:40 — Women's Lavatories: 1:40 for first 80 1:80 for remaining
Drinking Fountains 1:100

Men's WCs	Women's WCs	Men's Lavatories	Women's Lavatories	Urinals No more than 67%	Drinking Fountain	Service Sink
50/25+6/50	45/40	50/40	50/40	6/80	111/100	1
3	3	2	2	2	1.11	1

F-1 INDUSTRIAL: **21** OCCUPANTS
Men's Water Closets 1:50 — Women's Water Closets 1:50
Men's and Women's Lavatories 1:50 — Drinking Fountains 1:100

Men's WCs	Women's WCs	Men's Lavatories	Women's Lavatories	Urinals No more than 67%	Drinking Fountain	Service Sink
11/100	11/100	11/100	11/100	1/400	21/400	1
1	1	1	1	0	0.05	1

S-1 STORAGE: **9** OCCUPANTS

Men's WCs	Women's WCs	Men's Lavatories	Women's Lavatories	Urinals	Drinking Fountain	Service Sink
5/100	5/100	5/100	5/100	1/100	0.009	1
1	1	1	1	0		1

Unisex WCs: 1 — Unisex Lavatories: 1 — Unisex Showers: 1

PLUMBING FIXTURES PROVIDED:

Men's WCs	Women's WCs	Men's Lavatories	Women's Lavatories	Urinals No more than 67%	Drinking Fountain	Service Sink
4	6	6	6	4	2	2

CODE SYMBOL LEGEND

SYMBOL	DESCRIPTION	PROTECTIVE ELEMENTS
EXIT	EXIT- EXTERIOR	
EXIT / FEC	EXIT - INTERIOR (Assembly occ. over 50 and exits from floors.)	
FEC	FIRE EXTINGUISHER	SHOW 75' RADIUS
	EXIT PATH	
FDSC	FIRE DEPARTMENT CONNECTION	
	STANDPIPE	
P P	FIRE EXTINGUISHER SPACING (Show 75' Radius)	Show Radius
	LIMITED PROTECTION EXIT PATH	Sprinkled and Automatic Smoke Detection Throughout Exit Path. Non-rated smoke partitions. self or automatic closing doors to limit passage of smoke.
	PROTECTED EXIT PATH	1 HR Fire Rated Partion wall Construction. 1 hr rated door and fire shutter assembly. Fire & Smoke Dampers.
	1 HOUR FIRE WALL (Occupancy and Incidental Use Areas)	1 hour Fire wall construction. 45 min. rated door / 60 min. @ shafts
	2 HOUR FIRE WALL (Building Seperation)	2 hour Fire Wall construction. 1 1/2 hour rated door assembly . Fire Dampers.
198/39.6" 66"	ACCUMULATED EXIT WIDTH AT REQUIRED EXIT (clear width)	Occupants/Required width. Provided Width.
	PUBLIC FIRE HYDRANT (show distance from building)	
	FIRE HYDRANT HOSE LINE (400' Line)	
CLASSROOM 800 SF E: 40 OCC	ROOM DESIGNATION	Room Type Square Footage of Usable Space Occupancy Type (If Unless Noted Otherwise): Maximum Allowable Occupants
40 40 80	SHOW ACCUMULATED OCCUPANT LOADS FOR COMPLEX EXIT PATHS	
FACP	FIRE ACCESS CONTROL PANEL	
	1 HOUR SHAFT	1-HR Fire Barrier Wall Construction. 1-HR Door Assembly. Fire/Smoke Dampers.
	SPRINKLED INCIDENTAL USE AREA	Wall construction to resist the passage of smoke from floor to floor. F.R. Floor/Ceiling assembly, self- or automatic closing doors with no air transfer grilles.

NOTES -
1. The entire building will be sprinklered.
2. Future additions are not possible.
3. Water Supply Requirements: 225 gallons per minute, 50 psf pressure

ACTIVE LIFE SAFETY SYSTEMS:

Fire Sprinklers:	Provided
Fire Alarm:	Manual & Smoke Detection - Audible/Visual Devices
Exit Signs:	At All Exits and Exits Paths as Needed
Emergency Lights:	Throughout Exit Paths/Generator

PASSIVE LIFE SAFETY SYSTEMS:

Corridor Ratings:	NOT REQUIRED
Limited Protection Egress Path:	REQUIRED, PROVIDED
Stairwells:	REQUIRED, PROVIDED
Shafts:	REQUIRED, PROVIDED
Occupancy Separations:	NOT REQUIRED
Area Separation Walls:	NOT REQUIRED

HTK ARCHITECTS P.A.
900 S. KANSAS AVE., SUITE 200 — TOPEKA KANSAS 66612 — P 785.266.5373
9300 W 110TH ST. STE. 150 — OVERLAND PARK, KANSAS 66210 — P 913.663.9320
www.HKarchitects.com

DATE: 4.15.15
HTK Project Number: 1410.03

Department of Administration
Office of Facilities & Property Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone: 785-296-0669
Fax: 785-296-6868

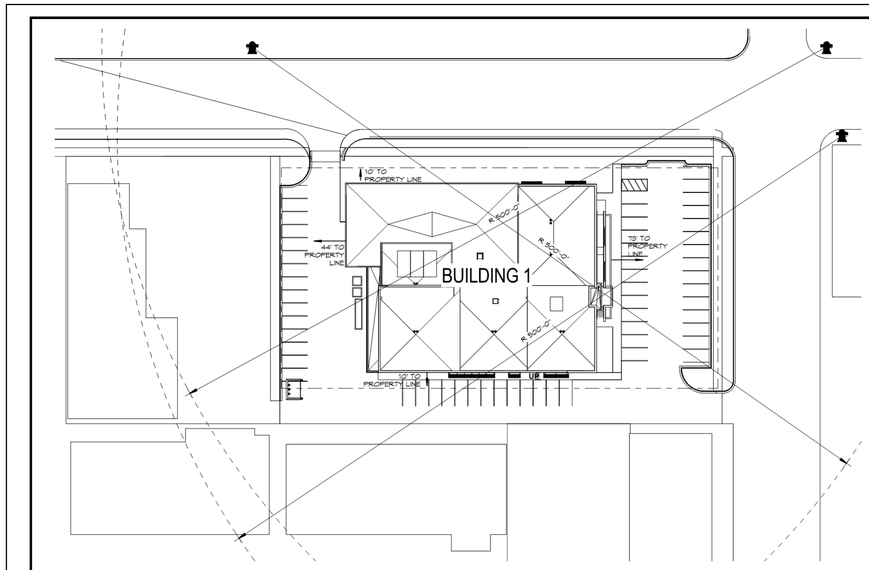
STATE OF KANSAS ENERGY & SERVICE CENTER

HTK Architects
Corner of 7th and Van Buren Street, Topeka, Kansas

SHEET CONTENTS:
- CFO1 INFO SHEET

HTK Project Number:
- A-012651

SHEET NUMBER:
CFO1



1 CODE SITE PLAN
1" = 40'-0"
NORTH
0' 25'-0" 50'-0" 100'-0"

HTK ARCHITECTS P.A.
900 S. KANSAS AVE., SUITE 200 — TOPEKA KANSAS 66612 — P 785.266.5373
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www.HKarchitects.com

DATE: 4.15.15
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800 SW Jackson, Suite 700
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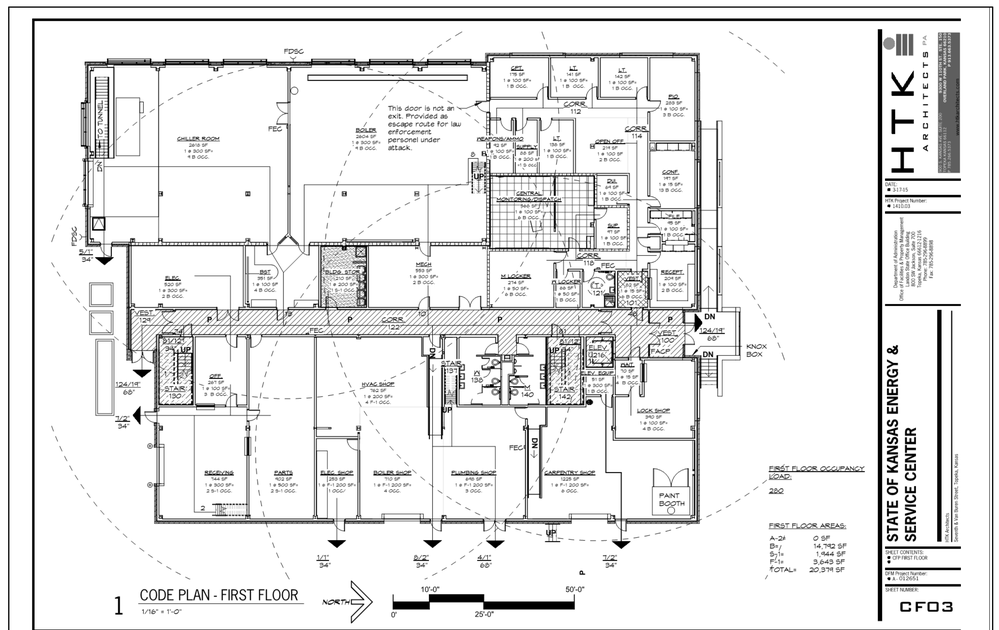
STATE OF KANSAS ENERGY & SERVICE CENTER

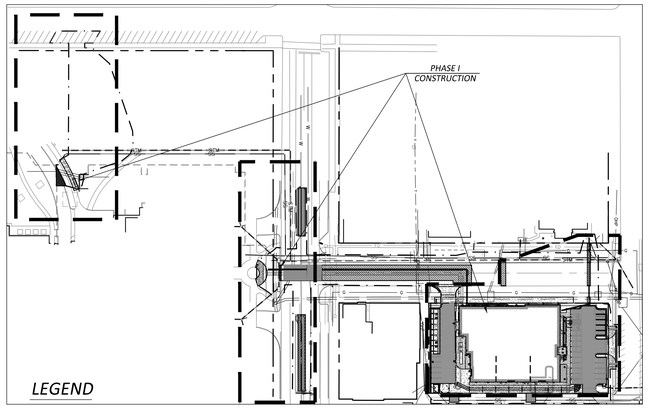
HTK Architects
Corner of 7th and Van Buren Street, Topeka, Kansas

SHEET CONTENTS:
- CFO2 SITE PLAN

HTK Project Number:
- A-012651

SHEET NUMBER:
CFO2


FDSC
CHILLER ROOM 2616 SF 1 @ 300 SF= 9 OCC.
FEC
BOILER 2624 SF 1 @ 300 SF= 9 OCC.
This door is not an exit. Provided as escape route for law enforcement personnel under attack.
MONITORING/IMC 1515 SF 1 @ 100 SF= 16 OCC.
CENTRAL MONITORING DISPLACE 944 SF 1 @ 100 SF= 9 OCC.
OPEN OFF. 274 SF 1 @ 100 SF= 2 OCC.
CONF. 190 SF 1 @ 100 SF= 2 OCC.
CONF. 190 SF 1 @ 100 SF= 2 OCC.
CONF. 190 SF 1 @ 100 SF= 2 OCC.
CONF. 190 SF 1 @ 100 SF= 2 OCC.
ELEC. 520 SF 1 @ 300 SF= 2 OCC.
M LOCKER 274 SF 1 @ 50 SF= 6 OCC.
F LOCKER 88 SF 1 @ 50 SF= 2 OCC.
RECEPT. 204 SF 1 @ 100 SF= 2 OCC.
MEET. 1000 SF 1 @ 100 SF= 10 OCC.
MAINT. 1000 SF 1 @ 100 SF= 10 OCC.
MEET. 1000 SF 1 @ 100 SF= 10 OCC.
CORR. 112'
CORR. 114'
CORR. 115'
CORR. 122'
CORR. 100'
CORR. 100'
124/18" 68'
124/18" 68'
KNOX BOX
UP
DN
STAIR 130'
STAIR 140'
STAIR 142'
ELEV. 100' FACP
RAMP 1:12
RAMP 1:12
1/1" 34'
8/2" 34'
4/1" 68'
7/2" 34'
RECEIVING 144 SF 1 @ 300 SF= 2 S-1 OCC.
PARTS 402 SF 1 @ 300 SF= 2 S-1 OCC.
ELEC. SHOP 280 SF 1 F-1 @ 200 SF= 1 OCC.
BOILER SHOP 710 SF 1 F-1 @ 200 SF= 4 OCC.
PLUMBING SHOP 445 SF 1 F-1 @ 200 SF= 3 OCC.
CARPENTRY SHOP 1228 SF 1 F-1 @ 200 SF= 6 OCC.
PAINT BOOTH
WELD SHOP 1162 SF 1 F-1 @ 200 SF= 4 F-1 OCC.
LOCK SHOP 340 SF 1 @ 100 SF= 4 B OCC.
STOR. 136
STOR. 138
ELEV. 100' FACP
ELEV. 100' FACP
ELEV. 216'
ELEV. 216'
UP
DN
FEC
FEC
FEC



PHASING NOTES:

PHASE IA: *PHASE IA - CLOSE THE MIDDLE LANES OF SW 8TH AVE. DEMOLISH THE EXISTING MEDIAN ISLANDS AND CONSTRUCT TEMPORARY 6" ASPHALTIC CONCRETE PAVEMENT FLUSH WITH THE EXISTING PAVEMENT. CROWN IN MIDDLE TO DRAIN TO NORTH AND SOUTH.*

PHASE IB: *CLOSE THE NORTH INTERNAL ACCESS ROAD TO TRAFFIC AT THE EAST AND WEST ENTRANCES. COMPLETE DEMOLITION AS NOTED AND/OR AS NECESSARY AND CONSTRUCT 7'XS' CONCRETE TUNNEL FROM STA. 19+99.00 TO STA. 20+37.84 BETWEEN THE EXISTING PARKING GARAGE AND NORTHWEST VAULT OF CAPITOL BUILDING.*

CLOSE SOUTH THREE LANE WIDTHS OF SW 8TH AVE. TO THROUGH TRAFFIC. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION ON SW 8TH AVE. ALONG NORTH SIDE. CLOSE CUT-BACK PARKING STALLS ALONG NORTH SIDE OF SW 8TH AVE. BETWEEN SW JACKSON ST. AND SW HARRISON ST. COMPLETE DEMOLITION AS NOTED AND/OR AS NECESSARY AND CONSTRUCT 7'X7' CONCRETE TUNNEL FROM STATION 1+00.00 TO STA. 1+65.00.

COMPLETE DEMOLITION AS NOTED AND/OR AS NECESSARY OF EXISTING RAISED MEDIAN ISLANDS WITHIN SW 8TH AVE. TO EAST AND WEST OF TUNNEL (APPROX. STA. 1+55.34, LT AND RT) AND CONSTRUCT 10" ASPHALTIC CONCRETE PAVEMENT. MATCH CROSS SLOPE OF EXISTING PAVEMENT TO EAST AND WEST OF THE ISLANDS.

COMPLETE DEMOLITION AS NOTED AND/OR AS NECESSARY OF PROPOSED BUILDING SITE AND CONSTRUCT PROPOSED BUILDING AND SITE IMPROVEMENTS.

CLOSE SW VAN BUREN ST. TO THE NORTH OF THE COMMERCIAL ENTRANCE TO THE SOUTH OF THE EISENHOWER BUILDING AT 7TH & VAN BUREN FOR WATER AND FIBER OPTIC UTILITY INSTALLATIONS. COMPLETE DEMOLITION AND CONSTRUCT WATER FIRE LINE, DOMESTIC WATER SERVICE LINE AND FIBER OPTIC CONDUITS UNDER SW VAN BUREN AVE. FROM WEST TO EAST. BACKFILL TRENCH AND PROVIDE TEMPORARY CRUSHED ROCK SURFACING TO MATCH EXISTING GRADE.

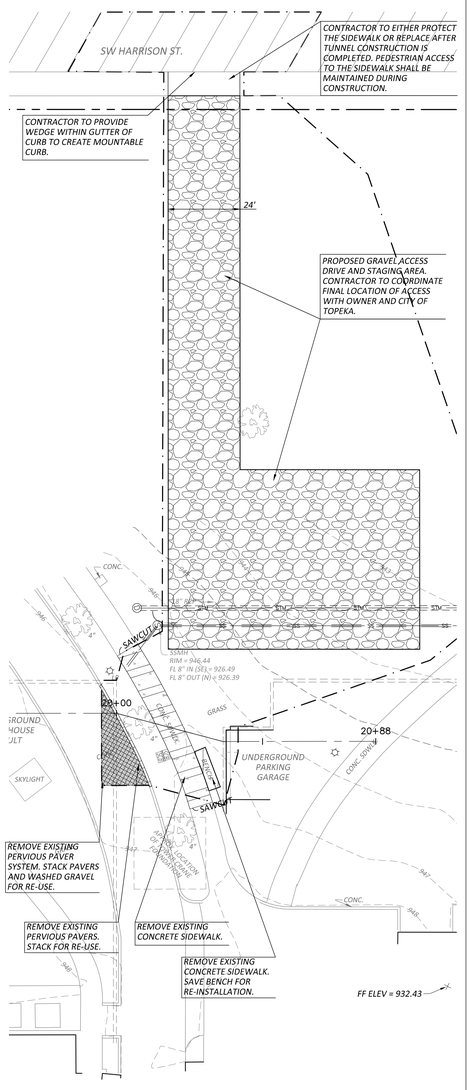
MAINTAIN ACCESS TO EXISTING BUSINESS ON WEST SIDE OF VAN BUREN FROM 8TH AVE. CLOSURE OF VAN BUREN FROM NORTH SHALL BE FOR NO MORE THAN 1 WEEK AND SHALL NOT COINCIDE WITH PHASE II CONSTRUCTION.

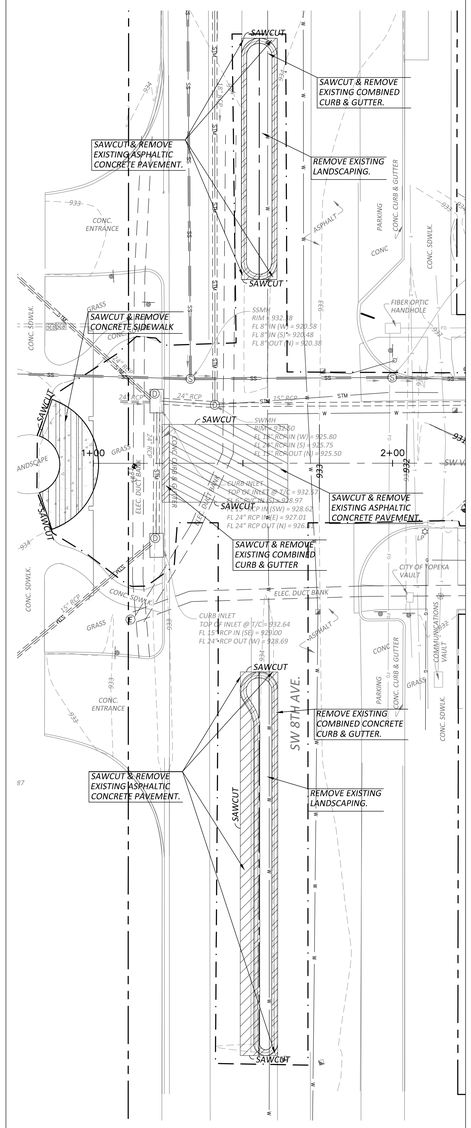
GENERAL NOTES:

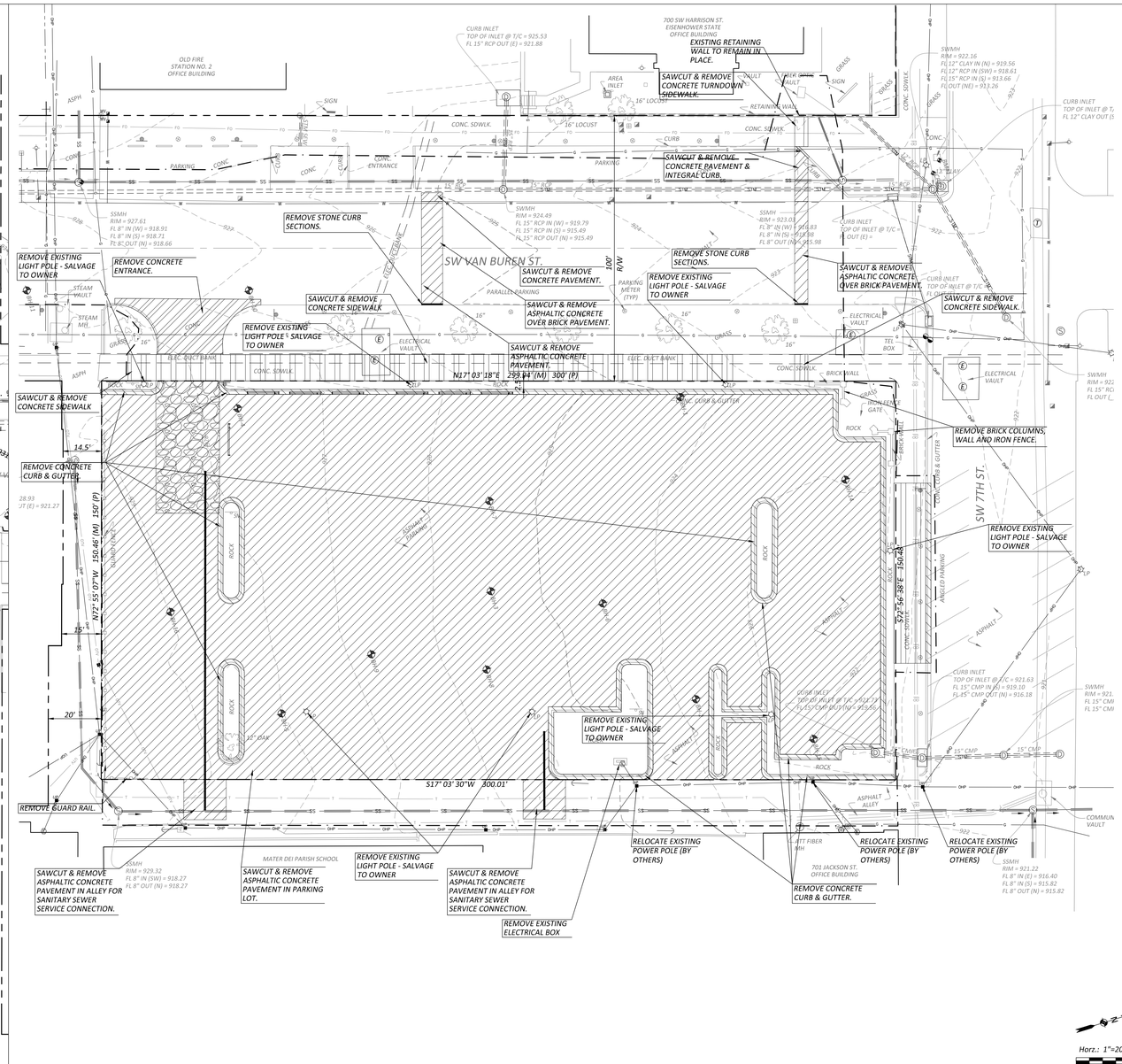
1. *ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH THE KANSAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION", LATEST EDITION AND SPECIAL PROVISIONS, SUPPLEMENTED WITH THE SPECIFICATIONS NOTED ON THIS SHEET AND ALL APPLICABLE CITY CODES, ORDINANCES AND STANDARD TECHNICAL DESIGN AND DRAWING DETAILS ON FILE AT THE CITY OF TOPEKA, KANSAS.*
2. *THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.*
3. *THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL PERMITTING AND FEES THROUGH THE CITY OF TOPEKA DEVELOPMENT SERVICES DEPARTMENT.*
4. *REMOVAL LIMITS FOR CONCRETE CURB & GUTTER, STONE CURB AND SIDEWALK ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE THESE ITEMS TO THE NEAREST JOINT AND TO THE MINIMAL EXTENTS NECESSARY FOR SAFE AND SATISFACTORY CONSTRUCTION OF THE CONCRETE TUNNEL.*
5. *THE STONE CURB SHALL BE SALVAGED AND STORED FOR RE-INSTALLATION. ANY STONE CURB THAT IS DAMAGED DURING REMOVAL SHALL BE REPLACED WITH LIKE MATERIALS AND DIMENSIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE CONDITION OF EXISTING CURB PRIOR TO THE BID AND INCLUDE ALL COSTS ASSOCIATED WITH THE REMOVAL, STORAGE, REPLACEMENT AND RE-INSTALLATION OF THE CURB IN THE BID.*
6. *ALL BRICKS REMOVED FROM SW VAN BUREN ST. SHALL BE SALVAGE TO THE CITY OF TOPEKA STREET MAINTENANCE DIVISION. THE CONTRACTOR SHALL COORDINATE WITH THE STREET MAINTENANCE DIVISION FOR REMOVAL FROM THE SITE.*
7. *THE CONTRACTOR SHALL PROTECT THE EXISTING UTILITY DUCTBANKS, CONDUITS AND PIPES FROM BEING DAMAGED DURING CONSTRUCTION. ANY DIRECT AND/OR INCIDENTAL DAMAGES CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE PAID FOR BY THE CONTRACTOR.*
8. *THE CONTRACTOR SHALL ADEQUATELY AND FULLY SUPPORT ALL EXISTING UTILITIES CROSSING THE CONSTRUCTION AREA. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE UTILITY OWNERS AND SHALL GAIN APPROVAL OF PROPOSED SUPPORT SYSTEM PRIOR TO BEGINNING CONSTRUCTION.*
9. *THE PROPOSED LOCATION OF ACCESS OFF OF SW HARRISON ST. FOR CONSTRUCTION OF THE TUNNEL SECTION BETWEEN THE NW VAULT AND PARKING GARAGE IS APPROXIMATE. THE CONTRACTOR SHALL ADJUST TO MISS TREES AND SPRINKLER HEADS WITHIN THE GRASSED AREA. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR SPRINKLER HEAD LOCATIONS AND OTHER ITEMS TO BE PROTECTED WITHIN THIS AREA.*

GENERAL NOTES:

10. *THE CONTRACTOR SHALL COORDINATE THE TEMPORARY CLOSURE OF EXISTING PARKING METERS ALONG SW HARRISON FOR THE CONSTRUCTION ENTRANCE.*
11. *THE CONTRACTOR SHALL REMOVE THE GRAVEL FROM THE STATEHOUSE LAWN IMMEDIATELY UPON COMPLETION OF THE 7'XS' TUNNEL SECTION. THE DISTURBED AREA SHALL BE RE-GRADED, A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED AND NEW SOD INSTALLED.*
12. *ANY SIDEWALK, CURB, GUTTER, LANDSCAPING, TREES, SPRINKLER HEADS OR PAVEMENT THAT IS DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.*
13. *THE CONTRACTOR SHALL PROVIDE ADEQUATE CONSTRUCTION FENCING AND PROTECTION OF THE PROJECT SITE TO PROMOTE THE SAFETY AND SECURITY OF THE CONSTRUCTION FORCES AS WELL AS THE PUBLIC. THIS INCLUDES PROTECTION FOR VEHICULAR, PEDESTRIAN AND OTHER MODES OF TRANSIT.*







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DATE:
- 4-15-15

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HTK PROJECT NUMBER:
- 1410.03

Department of Administration
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Procurement Management
800 SW Jackson, Suite 700
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FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER
17300.000038
DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

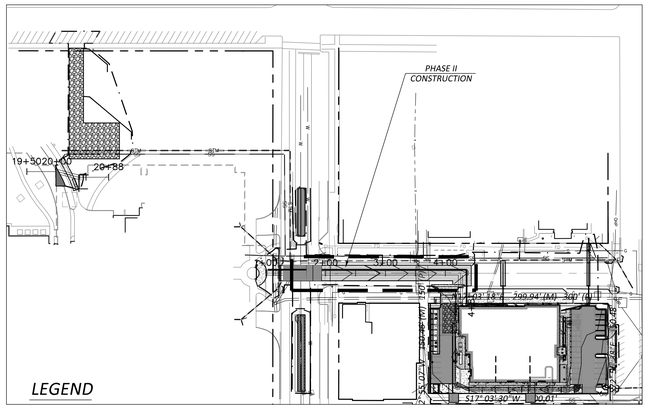
DEMOLITION & CONSTRUCTION PHASING PLAN - PHASE IA & IB

A-012651

C050

CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
Att.9C--0004



PHASING NOTES:

PHASE II: OPEN THE SOUTH TWO LANES OF SW 8TH AVE. AND PROVIDE ONE LANE TRAFFIC IN EACH DIRECTION OF SW 8TH AVE. CLOSE NORTH THREE LANES OF SW 8TH AVE. AND SW VAN BUREN ST. TO NORTH OF 8TH AVE. CONSTRUCT 7'X7' CONCRETE TUNNEL FROM STA. 1+65.00 TO STA. 4+81.33. CONNECT TO BUILDING FOUNDATION.

MAINTAIN ACCESS TO EXISTING BUSINESS ON WEST SIDE OF VAN BUREN FROM 7TH ST.

PAINT OVER PARKING STRIPES WITHIN SW 7TH ST. THAT WILL BE REMOVED FOR NEW ENTRANCE FOR SITE DEVELOPMENT. COORDINATE PARKING METER REMOVAL WITH THE CITY OF TOPEKA.

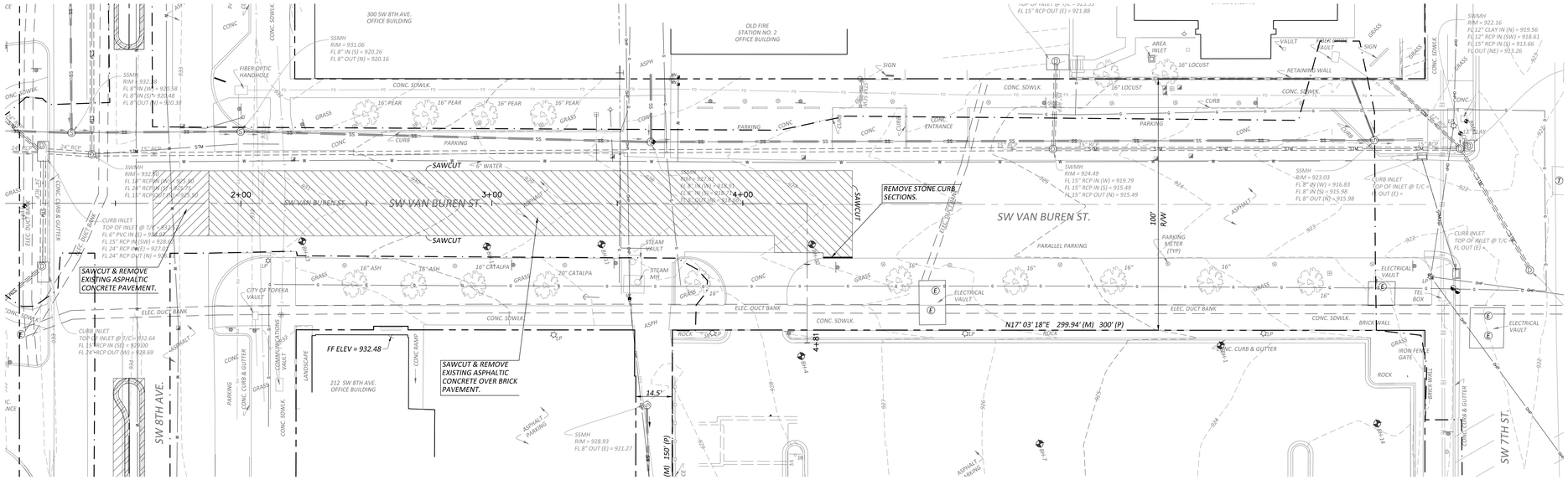
SEE TRAFFIC CONTROL FOR PHASE II ON SHEET C401.

GENERAL NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH THE KANSAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION", LATEST EDITION AND SPECIAL PROVISIONS, SUPPLEMENTED WITH THE SPECIFICATIONS NOTED ON THIS SHEET AND ALL APPLICABLE CITY CODES, ORDINANCES AND STANDARD TECHNICAL DESIGN AND DRAWING DETAILS ON FILE AT THE CITY OF TOPEKA, KANSAS.
2. THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.
3. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL PERMITTING AND FEES THROUGH THE CITY OF TOPEKA DEVELOPMENT SERVICES DEPARTMENT.
4. REMOVAL LIMITS FOR CONCRETE CURB & GUTTER, STONE CURB AND SIDEWALK ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE THESE ITEMS TO THE NEAREST JOINT AND TO THE MINIMAL EXTENTS NECESSARY FOR SAFE AND SATISFACTORY CONSTRUCTION OF THE CONCRETE TUNNEL.
5. THE STONE CURB SHALL BE SALVAGED AND STORED FOR RE-INSTALLATION. ANY STONE CURB THAT IS DAMAGED DURING REMOVAL SHALL BE REPLACED WITH LIKE MATERIALS AND DIMENSIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE CONDITION OF EXISTING CURB PRIOR TO THE BID AND INCLUDE ALL COSTS ASSOCIATED WITH THE REMOVAL, STORAGE, REPLACEMENT AND RE-INSTALLATION OF THE CURB IN THE BID.
6. ALL BRICKS REMOVED FROM SW VAN BUREN ST. SHALL BE SALVAGE TO THE CITY OF TOPEKA STREET MAINTENANCE DIVISION. THE CONTRACTOR SHALL COORDINATE WITH THE STREET MAINTENANCE DIVISION FOR REMOVAL FROM THE SITE.
7. THE CONTRACTOR SHALL PROTECT THE EXISTNG UTILITY DUCTBANKS, CONDUITS AND PIPES FROM BEING DAMAGED DURING CONSTRUCTION. ANY DIRECT AND/OR INCIDENTAL DAMAGES CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE PAID FOR BY THE CONTRACTOR.
8. THE CONTRACTOR SHALL ADEQUATELY AND FULLY SUPPORT ALL EXISTING UTILITIES CROSSING THE CONSTRUCTION AREA. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE UTILITY OWNERS AND SHALL GAIN APPROVAL OF PROPOSED SUPPORT SYSTEM PRIOR TO BEGINNING CONSTRUCTION.
9. THE PROPOSED LOCATION OF ACCESS OFF OF SW HARRISON ST. FOR CONSTRUCTION OF THE TUNNEL SECTION BETWEEN THE NW VAULT AND PARKING GARAGE IS APPROXIMATE. THE CONTRACTOR SHALL ADJUST TO MISS TREES AND SPRINKLER HEADS WITHIN THE GRASSED AREA. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR SPRINKLER HEAD LOCATIONS AND OTHER ITEMS TO BE PROTECTED WITHIN THIS AREA.

GENERAL NOTES:

10. THE CONTRACTOR SHALL COORDINATE THE BAGGING OF EXISTING PARKING METERS ALONG SW HARRISON FOR THE CONSTRUCTION ENTRANCE.
11. THE CONTRACTOR SHALL REMOVE THE GRAVEL FROM THE STATEHOUSE LAWN IMMEDIATELY UPON COMPLETION OF THE 7'X5' TUNNEL SECTION. THE DISTURBED AREA SHALL BE RE-GRADED, A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED AND NEW SOD INSTALLED.
12. ANY SIDEWALK, CURB, GUTTER, LANDSCAPING, TREES, SPRINKLER HEADS OR PAVEMENT THAT IS DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
13. REMOVAL LIMITS FOR CURB, CURB & GUTTER AND SIDEWALK ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE THESE ITEMS TO THE NEAREST JOINT AND TO THE MINIMAL EXTENTS NECESSARY FOR SAFE AND SATISFACTORY CONSTRUCTION OF THE CONCRETE TUNNEL.
14. THE CONTRACTOR SHALL PROVIDE ADEQUATE CONSTRUCTION FENCING AND PROTECTION OF THE PROJECT SITE TO PROMOTE THE SAFETY AND SECURITY OF THE CONSTRUCTION FORCES AS WELL AS THE PUBLIC. THIS INCLUDES PROTECTION FOR VEHICULAR, PEDESTRIAN AND OTHER MODES OF TRANSIT.



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DATE:
- 4-15-15

REVISED DATE:
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HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER
17300.000038
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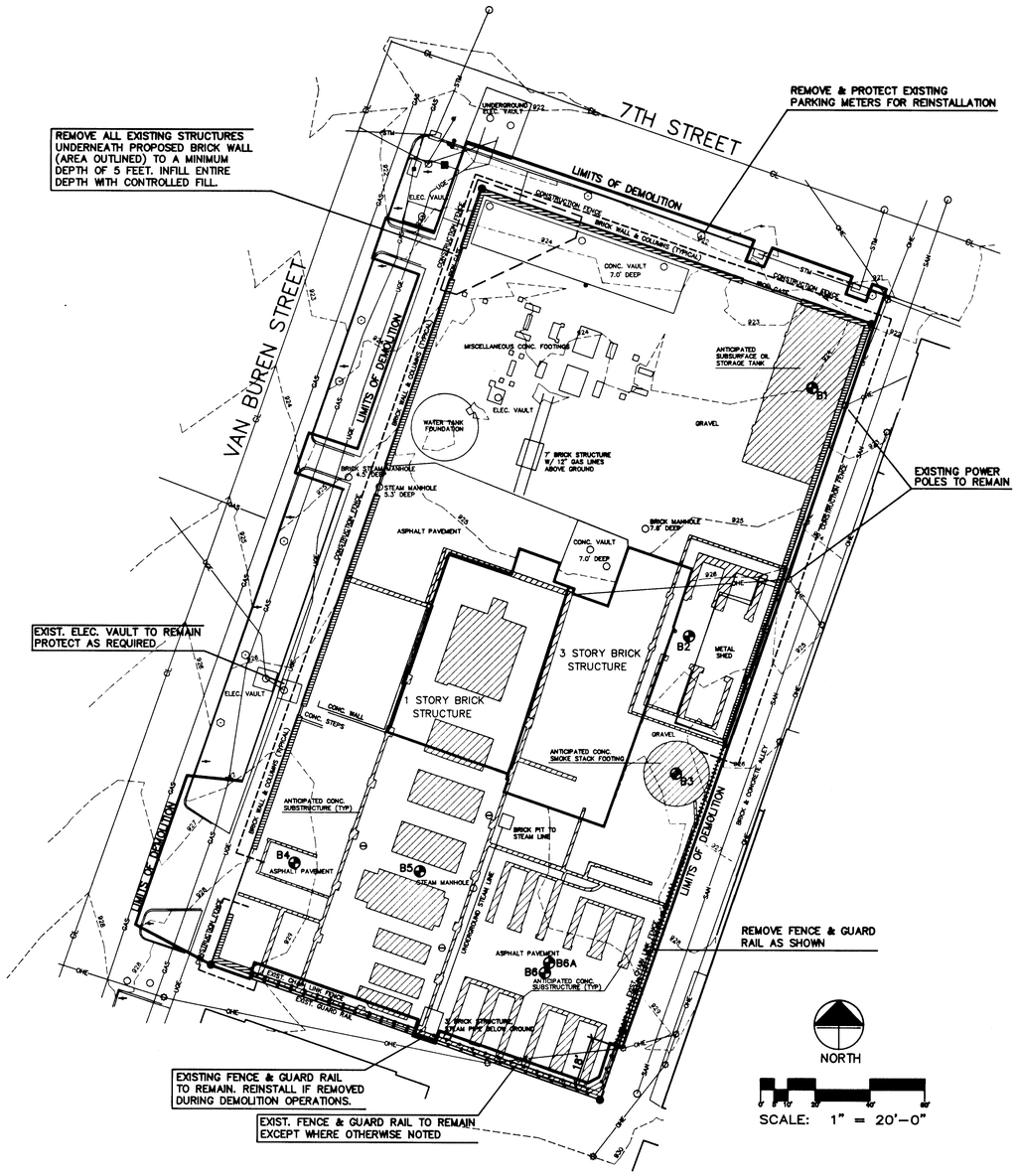
DEMOLITION & CONSTRUCTION PHASING PLAN - PHASE II

A-012651

C051

CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
Att.9C.--0005



GENERAL NOTES:

1. THE DRAWING ON THIS SHEET IS FROM A PREVIOUS PROJECT THAT INCLUDED THE DEMOLITION OF SITE IMPROVEMENTS ON THIS PROPERTY PRIOR TO THE PARKING LOT CONSTRUCTION.
2. THE DRAWING IS FOR INFORMATION ONLY IN ORDER TO IDENTIFY POTENTIAL SUBSURFACE CONDITIONS.

DEMOLITION NOTES:

1. ALL PAVEMENT, BUILDINGS, FOUNDATIONS, AND OTHER STRUCTURES WITHIN THE AREA DESIGNATED AS THE LIMITS OF DEMOLITION SHALL BE DEMOLISHED AND DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS
2. EXISTING SITE ELEMENTS AND TOPOGRAPHIC INFORMATION GATHERED AS PER SURVEY PERFORMED BY LANDPLAN ENGINEERING, P.A. OF LAWRENCE, KANSAS, APRIL 1989.
3. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR NOTIFYING ALL UTILITY OWNERS FOR FIELD LOCATIONS OF UTILITIES PRIOR TO ANY DEMOLITION OPERATIONS.
4. CONTRACTOR SHALL EXCAVATE ALL AREAS WITHIN PROPERTY TO A MINIMUM DEPTH OF 2 FEET BELOW FINISHED PARKING LOT GRADE. ANY SLABS ENCOUNTERED DURING EXCAVATION SHALL HAVE HOLES BROKEN IN THEM TO ALLOW FOR SUBSURFACE DRAINAGE. ANY SUBSURFACE VOIDS ENCOUNTERED DURING EXCAVATION SHALL BE FILLED AND COMPACTED PER SPECIFICATIONS AT NO EXTRA COST.
5. CONTRACTOR SHALL BACKFILL EXCAVATION AREA WITH APPROVED MATERIAL AS PER SPECIFICATIONS.
6. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF PETROLEUM PRODUCTS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED.
7. CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE ALONG LINE DESIGNATED AS "CONSTRUCTION FENCE" DURING THE DEMOLITION OF THE PERIMETER BRICK WALL. THE EAST AND SOUTH ALLEYS SHALL REMAIN OPEN AT ALL TIMES.

LEGEND

- OHE — OVERHEAD ELECTRIC LINE (KPL GAS SERVICE)
- UGE — UNDERGROUND ELECTRIC LINE (KPL GAS SERVICE)
- GAS — GAS LINE (KPL GAS SERVICE)
- SAN — SANITARY SEWER
- STM — STORM SEWER
- POWER POLE
- MANHOLE
- SIGN
- PARKING METER
- ANTICIPATED CONCRETE SUBSTRUCTURE
- B2 — BORING LOCATION

Scanning Aid DWG_LABEL FM003400

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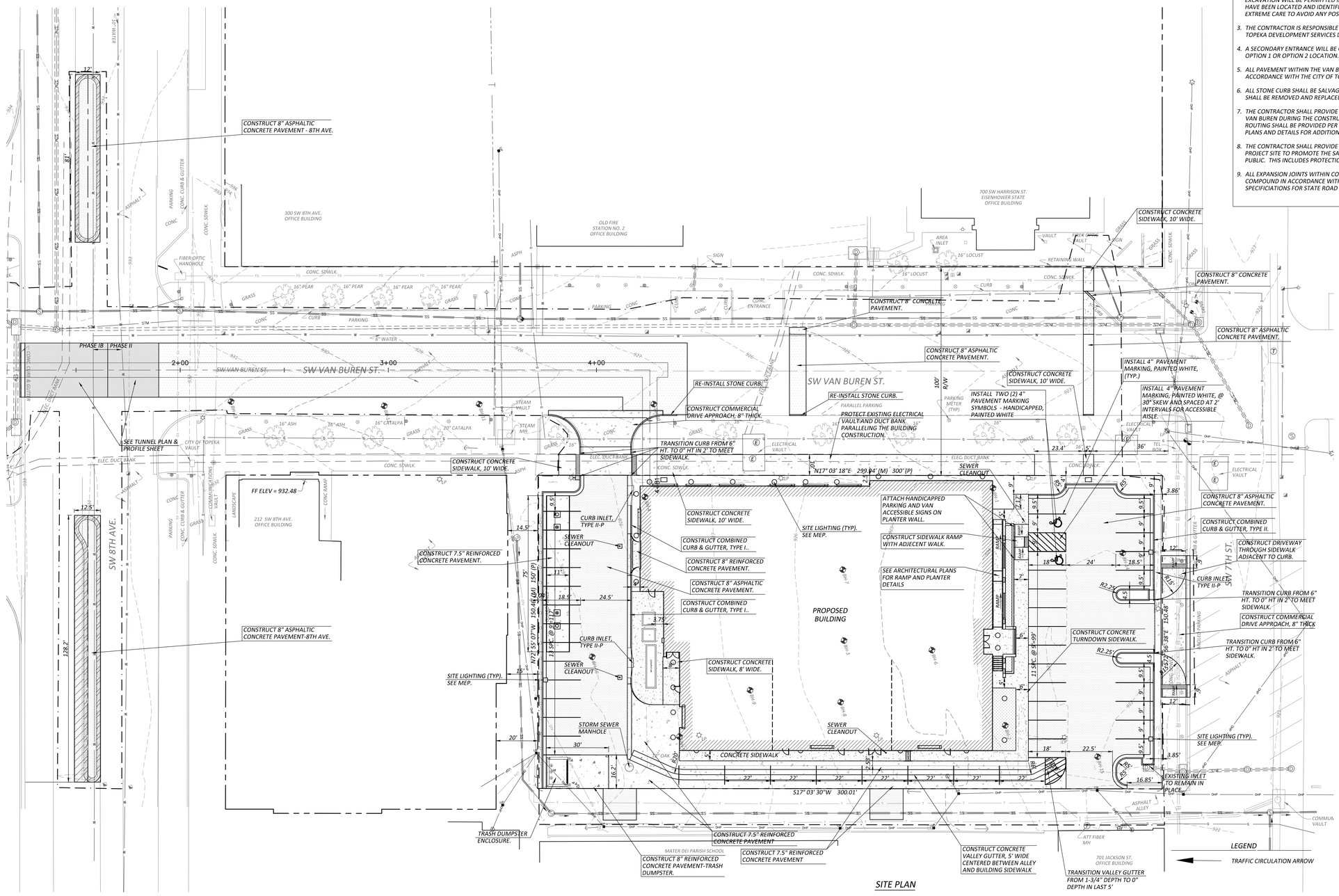
HISTORICAL DRAWING

A-012651

C052

CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
Att.9C.--0006



SITE PLAN

GENERAL NOTES:

1. *ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH THE KANSAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION", LATEST EDITION AND SPECIAL PROVISIONS, SUPPLEMENTED WITH THE SPECIFICATIONS NOTED ON THIS SHEET AND ALL APPLICABLE CITY CODES, ORDINANCES AND STANDARD TECHNICAL DESIGN AND DRAWING DETAILS ON FILE AT THE CITY OF TOPEKA, KANSAS.*
2. *THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.*
3. *THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL PERMITTING AND FEES THROUGH THE CITY OF TOPEKA DEVELOPMENT SERVICES DEPARTMENT.*
4. *A SECONDARY ENTRANCE WILL BE CONSTRUCTED WITH 8" CONCRETE ENTRANCE PAVEMENT IN EITHER OPTION 1 OR OPTION 2 LOCATION.*
5. *ALL PAVEMENT WITHIN THE VAN BUREN AND 8TH AVE. RIGHT OF WAY SHALL BE REPLACED IN ACCORDANCE WITH THE CITY OF TOPEKA PAVEMENT REPAIR DETAILS.*
6. *ALL STONE CURB SHALL BE SALVAGED FROM THE DEMOLITION PROCESS AND RE-INSTALLED. STONE CURB SHALL BE REMOVED AND REPLACED TO THE NEAREST JOINT.*
7. *THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL FOR THE CLOSURE OF 8TH AVENUE AND VAN BUREN DURING THE CONSTRUCTION OF THE UTILITY TUNNEL PORTION OF THE PROJECT. DETOUR ROUTING SHALL BE PROVIDED PER THE CITY OF TOPEKA STANDARD DRAWINGS. SEE TRAFFIC CONTROL PLANS AND DETAILS FOR ADDITIONAL DETAILS.*
8. *THE CONTRACTOR SHALL PROVIDE ADEQUATE CONSTRUCTION FENCING AND PROTECTION OF THE PROJECT SITE TO PROMOTE THE SAFETY AND SECURITY OF THE CONSTRUCTION FORCES AS WELL AS THE PUBLIC. THIS INCLUDES PROTECTION FOR VEHICULAR, PEDESTRIAN AND OTHER MODES OF TRANSIT.*
9. *ALL EXPANSION JOINTS WITHIN CONCRETE PAVEMENT SHALL BE SEALED WITH COLD TYPE JOINT SEALING COMPOUND IN ACCORDANCE WITH THE KANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICIATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION, SUBSECTION 1502.*

PROJECT CONTROL:
HORIZONTAL CONTROL:

CP #1: ½" REBAR W/SBB ENG CAP
N 269273.86, E 1971866.56

CP #2: ½" REBAR W/SBB ENG CAP
N 269829.48, E 1972006.45

VERTICAL CONTROL:

BM #1: "□" CUT IN NE CORNER OF ABANDONED CONCRETE PAD, SW QUAD. OF 7TH & VAN BUREN ELEV.=922.42
N 269833.15, E 1972002.50

C.T.B.M. #253.1 ON TRAFFIC SIGNAL BASE IN SW CORNER OF SW KANSAS AVE. AND SW 9TH ST. ELEV.=947.38

LEGEND

- 8" ASPHALTIC CONCRETE PAVEMENT - SITE (SEE SH. C103 FOR TYPICAL SECTION)
- 8" ASPHALTIC CONCRETE PAVEMENT - VAN BUREN (SEE SH. C103 FOR TYPICAL SECTION)
- 8" ASPHALTIC CONCRETE PAVEMENT - 8TH AVE. (SEE SH. C103 FOR TYPICAL SECTION)
- 7.5" REINFORCED CONCRETE PAVEMENT (SEE SH. C103 FOR TYPICAL SECTION)
- 8" REINFORCED CONCRETE PAVEMENT - DUMPSTER PAD (SEE SH. C103 FOR TYPICAL SECTION)
- 4" CONCRETE SIDEWALK OR TURNDOWN SIDEWALK (SEE PLAN)

LEGEND

	SECTION CORNER
	FOUND CORNER AS NOTED
	SET 1/2"x24" REBAR W/ LS 919 CAP
TBM	BENCH MARK
U/E	UTILITY EASEMENT
D/E	DRAINAGE EASEMENT
D&U/E	DRAINAGE & UTILITY EASEMENT
(M)	MEASURED
(P)	PLATTED
WM	WATER METER
WV	WATER VALVE
SV	SPRINKLER VALVE
FH	FIRE HYDRANT
GM	GAS METER
GV	GAS VALVE
T	TELEPHONE PEDESTAL
T	TELEPHONE MANHOLE
T	TRANSFORMER/JUNCTION CABINET
TV	TV PEDESTAL
PP	POWER POLE
	GUY WIRE
LP	LIGHT POLE
E	ELECTRIC MANHOLE
EM	ELECTRIC METER
TR	TRAFFIC SIGNAL LIGHT
TSB	TRAFFIC SIGNAL BOX
TSM	TRAFFIC SIGNAL MANHOLE
CO	CLEAN OUT
	STEEL PIPE BOLLARD
	SIGN
	TREE (DECIDUOUS)
	STUMP
	BUSH OR SHRUB
RD	ROOF DRAIN
W	WATER LINE
UGP	UNDERGROUND POWER LINE
OHP	OVERHEAD POWER LINE
G	GAS LINE
T	TELEPHONE CABLE
FO	FIBER OPTIC LINE
CATV	CABLE TELEVISION LINE
TS	TRAFFIC SIGNAL LINE
SS	SANITARY SEWER LINE
STM	STORM SEWER LINE
	AREA INLET
X	EXISTING FENCE
(8)	DENOTES NUMBER OF PARKING STALLS
934.8	EXISTING GROUND ELEVATION

Horz.: 1"=20'
0 20'

HTK ARCHITECTS PA
9300 W 110TH ST. STE. 150
OVERLAND PARK KANSAS 66210
P 913.663.5373
WWW.HTKARCHITECTS.NET

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16259
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1415 SW Topeka Blvd.
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Ph: (785) 215-8630

DATE:
- 4-15-15

REVISED DATE:
-
-
-
-

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER
173000-00038
4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

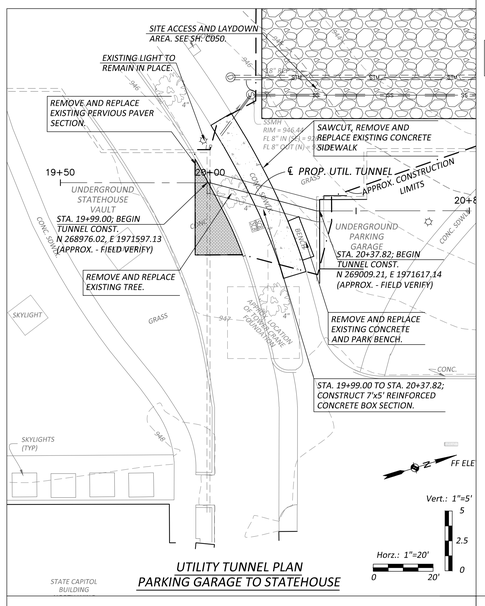
SITE PLAN

A-012651

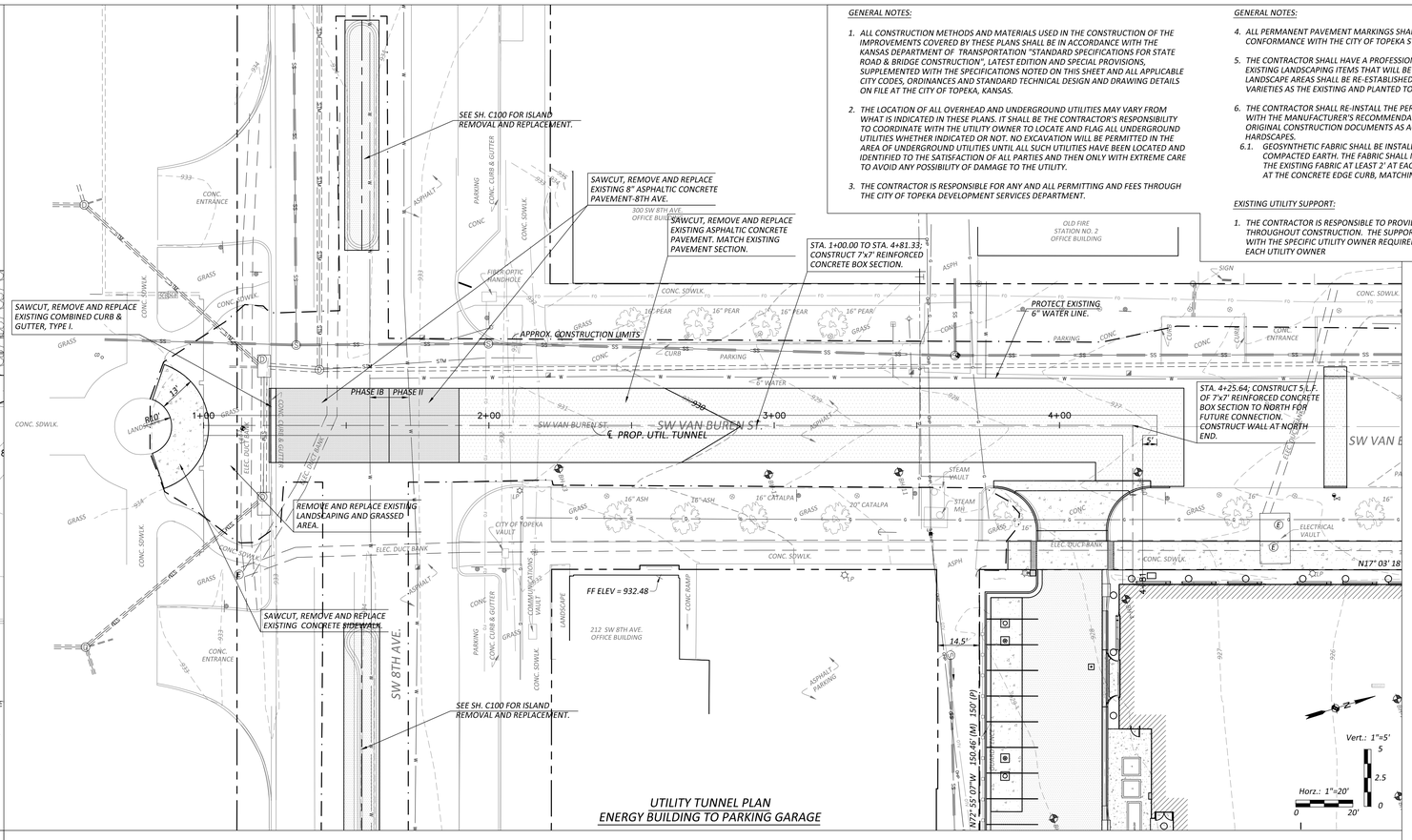
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CONSTRUCTION DOCUMENTS

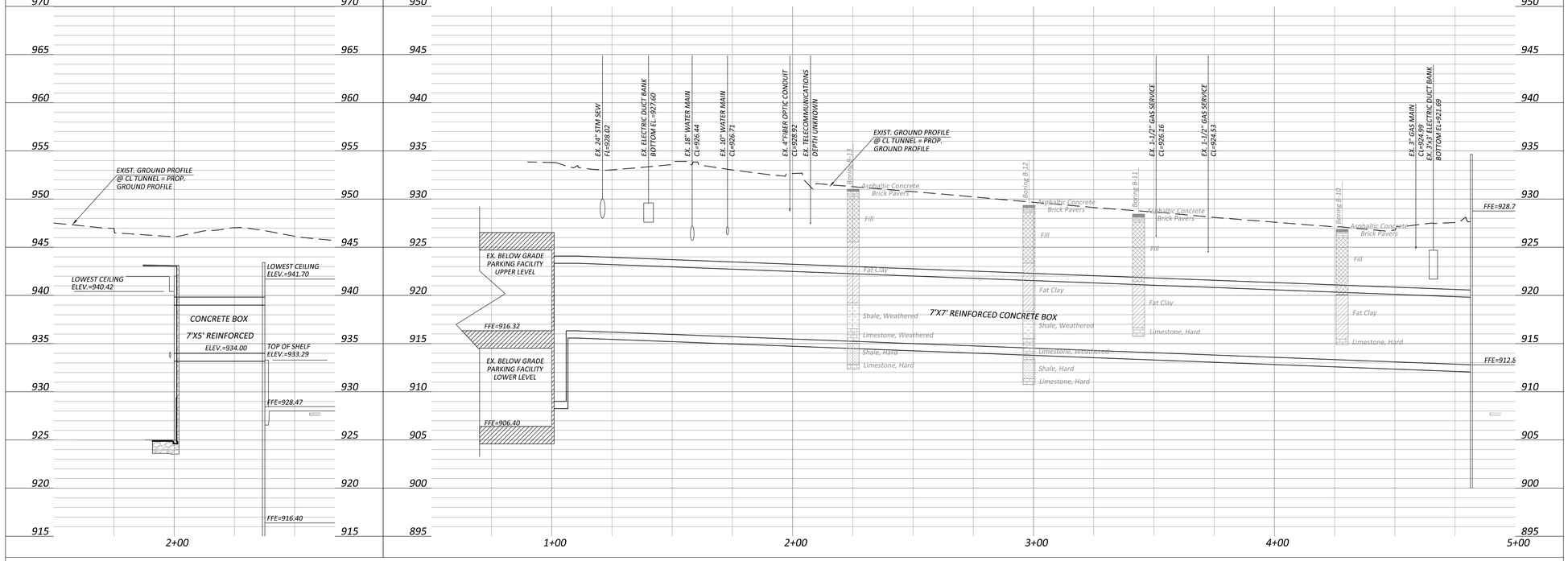
JCSBC
2-2-2016
Att.9C.--0007



UTILITY TUNNEL PLAN
PARKING GARAGE TO STATEHOUSE



UTILITY TUNNEL PLAN
ENERGY BUILDING TO PARKING GARAGE



GENERAL NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH THE KANSAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION", LATEST EDITION AND SPECIAL PROVISIONS, SUPPLEMENTED WITH THE SPECIFICATIONS NOTED ON THIS SHEET AND ALL APPLICABLE CITY CODES, ORDINANCES AND STANDARD TECHNICAL DESIGN AND DRAWING DETAILS ON FILE AT THE CITY OF TOPEKA, KANSAS.
2. THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.
3. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL PERMITTING AND FEES THROUGH THE CITY OF TOPEKA DEVELOPMENT SERVICES DEPARTMENT.

GENERAL NOTES:

4. ALL PERMANENT PAVEMENT MARKINGS SHALL MATCH EXISTING AND BE IN CONFORMANCE WITH THE CITY OF TOPEKA STANDARD DRAWINGS AND SPECIFICATIONS.
5. THE CONTRACTOR SHALL HAVE A PROFESSIONAL LANDSCAPER IDENTIFY AND LOCATE ALL EXISTING LANDSCAPING ITEMS THAT WILL BE REMOVED DURING CONSTRUCTION. THE LANDSCAPE AREAS SHALL BE RE-ESTABLISHED WITH LIKE MATERIALS, SPECIES AND VARIETIES AS THE EXISTING AND PLANTED TO MATCH PRE-CONSTRUCTION CONDITIONS.
6. THE CONTRACTOR SHALL RE-INSTALL THE PERVIOUS PAVER SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE PAVERS WERE LISTED IN THE ORIGINAL CONSTRUCTION DOCUMENTS AS AQUA ROC AS MANUFACTURED BY BELGARD HARDSCAPES.
   - 6.1. GEOSYNTHETIC FABRIC SHALL BE INSTALLED BETWEEN THE AGGREGATE AND THE COMPACTED EARTH. THE FABRIC SHALL MATCH THE EXISTING AND SHALL OVERLAP THE EXISTING FABRIC AT LEAST 2' AT EACH EDGE. THE FABRIC SHALL BE TURNED UP AT THE CONCRETE EDGE CURB, MATCHING THE EXISTING IN ELEVATION.

EXISTING UTILITY SUPPORT:

1. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE SUPPORT OF ALL UTILITIES THROUGHOUT CONSTRUCTION. THE SUPPORT SHALL BE PROVIDED IN ACCORDANCE WITH THE SPECIFIC UTILITY OWNER REQUIREMENTS. THE CONTRACTOR SHALL CONTACT EACH UTILITY OWNER

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9300 W 110TH ST, STE. 150
OVERLAND PARK KANSAS 66210
P 913.663.5373
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DATE:
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Department of Administration
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Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-8899
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STATE OF KANSAS
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Seventh & Van Buren Street, Topeka, Kansas
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17300.000038
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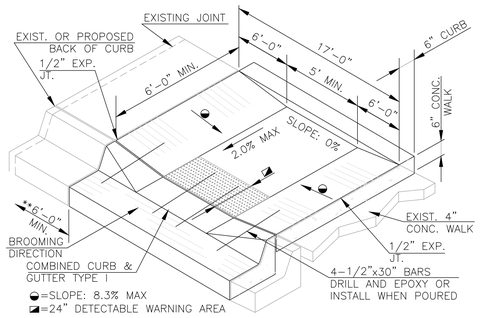
TUNNEL PLAN & PROFILE

A-012651

C101

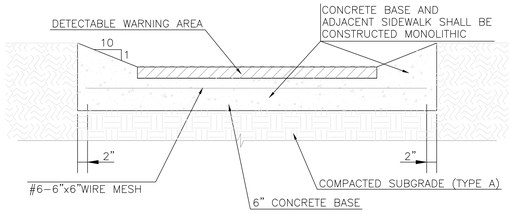
CONSTRUCTION DOCUMENTS

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2-2-2016
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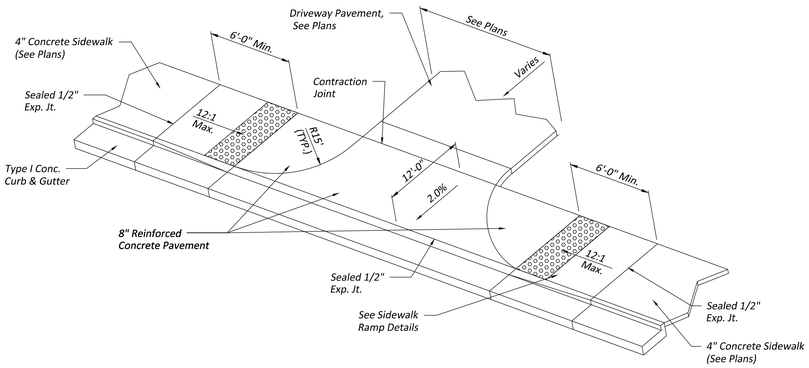


ISOMETRIC OF RAMP WITH ADJACENT WALK SHOWN

** IF CURB AND GUTTER AND/OR SIDEWALK TO BE REMOVED IS WITHIN 6'-0" OF AN EXISTING JOINT, REMOVE CURB AND GUTTER AND/OR SIDEWALK BACK TO EXISTING JOINT. JOINTS ARE TO BE PLACED AS PER SECTION 5, SUBSECTION 8 OF CITY/COUNTY STANDARD TECHNICAL SPECIFICATIONS.

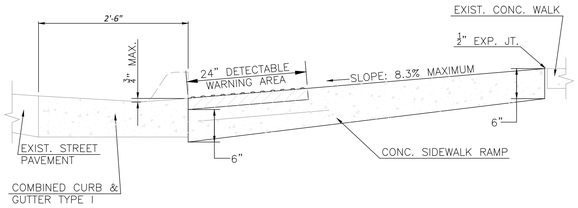


TYPICAL SECTION OF DETECTABLE WARNING SYSTEM

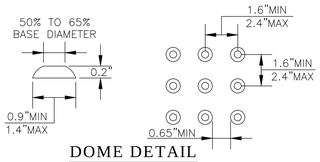


DRIVEWAY THROUGH SIDEWALK ADJACENT TO CURB

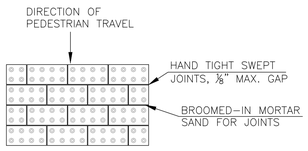
NO SCALE



SIDEWALK RAMP DETAILS

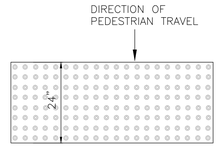


DOME DETAIL



RUNNING BOND/PARALLEL ALIGNMENT AND JOINT DETAIL

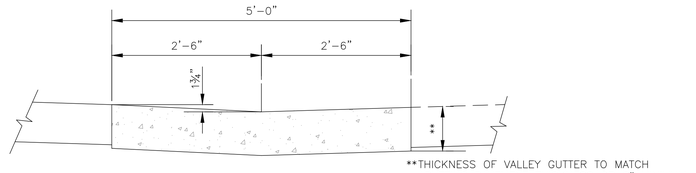
Installation pattern for detectable warning paving bricks



ARMOR-TILE CAST IN PLACE DETECTABLE WARNING SYSTEM

SPECIAL REQUIREMENTS FOR SIDEWALK RAMP CONSTRUCTION

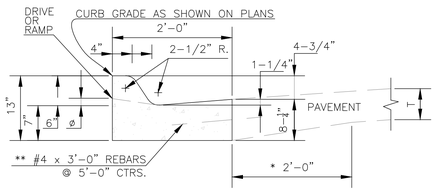
1. SIDEWALK RAMPS SHALL BE CONSTRUCTED USING 6" THICK PAVEMENT CLASS CONCRETE (4000 PSI).
2. EXPANSION JOINTS SHALL BE SEALED WITH APPROVED JOINT SEALANT WHERE SIDEWALKS AND DRIVE ENTRANCES INTERSECT WITH PAVEMENT CURB.
3. PAVING BRICK (TRUNCATED DOME SURFACE) UNITS SHALL MEET THE REQUIREMENTS OF THE CITY OF TOPEKA/ SHAWNEE CO. STANDARD SPECIFICATIONS.
4. THE BRICKS SHALL BE PLACED IN A PATTERN THAT CONFORMS TO THIS DRAWING AND ALIGNED IN THE DIRECTION OF PEDESTRIAN TRAVEL.
5. THE BRICKS SHALL HAVE A TRUNCATED DOME TOP SURFACE FOR DETECTABLE WARNING TO PEDESTRIANS AND COMPLY WITH THE AMERICAN DISABILITIES ACT GUIDELINES.
6. THE TRUNCATED DOME AREA SHALL BE A MAXIMUM WIDTH OF THE SIDEWALK RAMP, MEDIAN RAMP OR AS SHOWN ON THE PLANS.
7. THE TRUNCATED DOME AREA SHALL BE A CONTRASTING COLOR TO THE ADJACENT SURFACES.
8. THE BRICKS SHALL BE SAW CUT ONLY AND ANY BRICK SHALL NOT BE LESS THAN 25% OF A FULL BRICK.
9. THE ARMOR-TILE CAST IN PLACE DETECTABLE WARNING SYSTEM, PAVESTONE DETECTABLE WARNING PAVERS OR IN ALL SIDEWALK RAMPS. APPROVED EQUAL SHALL BE USED.
10. THE MORTAR SAND SHALL MEET KANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.



SECTION B-B

**THICKNESS OF VALLEY GUTTER TO MATCH ABUTTING PAVEMENT THICKNESS OR 8" MINIMUM.

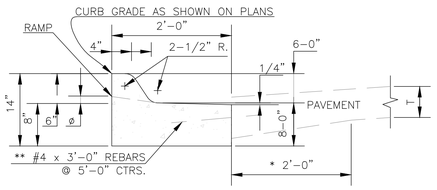
VALLEY GUTTER DETAILS



COMBINED CURB & GUTTER-TYPE II

**THE TIE BARS MAY BE ELIMINATED WITH ASPHALTIC CONCRETE PAVEMENT CONSTRUCTION.

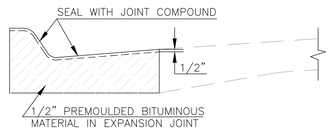
ø 3/4" FOR SIDEWALK RAMP



COMBINED CURB & GUTTER-TYPE II-DRY

**THE TIE BARS MAY BE ELIMINATED WITH ASPHALTIC CONCRETE PAVEMENT CONSTRUCTION.

ø 3/4" FOR SIDEWALK RAMP

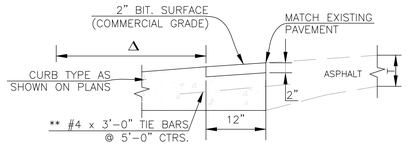


CURB AND GUTTER EXPANSION JOINT DETAILS

NOTE: 1/2" EXPANSION JOINTS TO BE PLACED AT THE END OF ALL INTERSECTION RETURNS.

SAND IS NOT AN APPROVED FILL OR SUBGRADE MATERIAL.

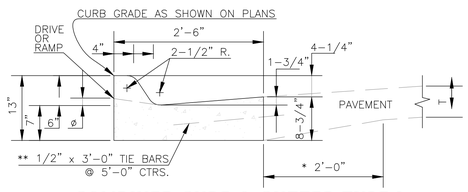
ALL EXPANSION JOINTS SHALL BE SEALED WITH APPROVED MATERIAL.



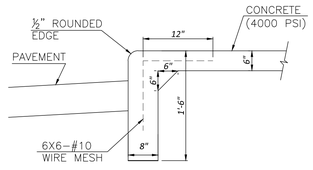
CC&G (MODIFIED)

NOTE:
CURB AND GUTTER ABUTTING EXISTING ASPHALT

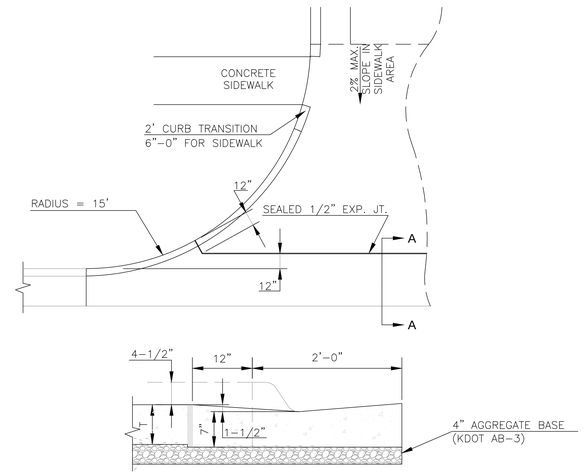
Δ DIMENSION IS FROM BACK OF CURB TO TOE, SEE APPROPRIATE DETAIL FOR CURB TYPE AS SHOWN ON PLANS



COMBINED CURB & GUTTER-TYPE I



TURNDOWN SIDEWALK DETAIL



SECT. A - A

T=8" NON-REINFORCED FOR COMMERCIAL DRIVE

COMMERCIAL DRIVE APPROACH

HTK ARCHITECTS PA
9300 W 110TH ST. STE. 150
OVERLAND PARK KANSAS 66210
P 913.663.5373
3100 S. KANSAS AVE
TOPEKA KANSAS 66612
P 785.266.5373
WWW.HTKARCHITECTS.NET

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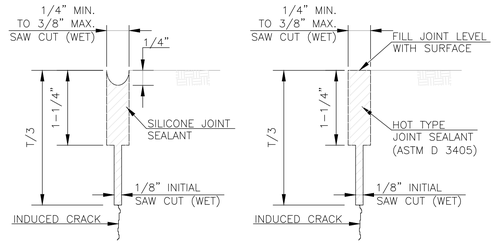
SITE DETAILS I

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C102

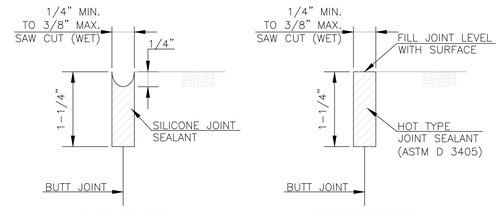
CONSTRUCTION DOCUMENTS

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2-2-2016
Att.9C--0009



SILICONE JOINT OPTION 1 | HOT TYPE JOINT OPTION 2

TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS

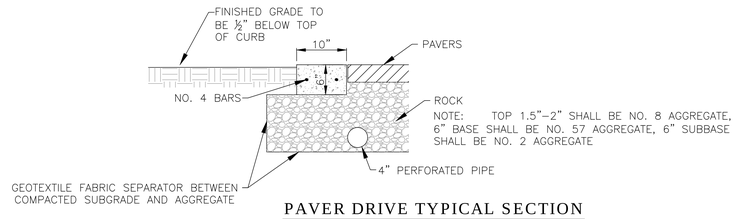


SILICONE JOINT OPTION 1 | HOT TYPE JOINT OPTION 2

TRANSVERSE AND LONGITUDINAL BUTT JOINTS

NOTE: ALL CONCRETE PAVEMENT JOINTS ARE TO BE SEALED WITH JOINT SEALANT.

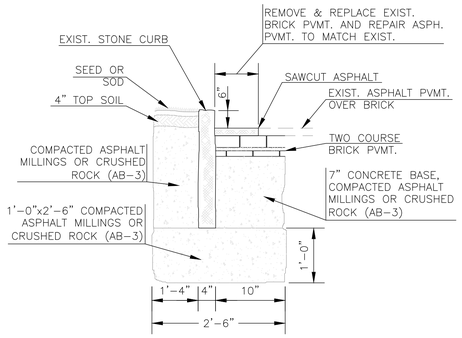
CONCRETE JOINTING DETAILS



NOTE: TOP 1.5"–2" SHALL BE NO. 8 AGGREGATE, 6" BASE SHALL BE NO. 57 AGGREGATE, 6" SUBBASE SHALL BE NO. 2 AGGREGATE

PAVER DRIVE TYPICAL SECTION

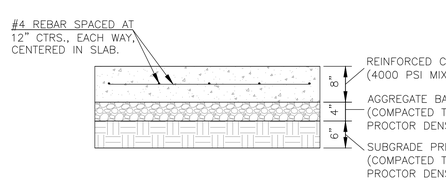
NOTES:
1. THE CONTRACTOR SHALL DRILL 18" INTO REMAINING CURB AND EPOXY REBAR INTO EXISTING CURB
2. THE CONTRACTOR SHALL MATCH EXISTING IN ALL FACETS OF THE PAVER CONSTRUCTION.
3. THE PAVER SURFACE SHALL MATCH EXISTING.
4. THE PERFORATED PIPE SHALL BE RE–INSTALLED AND ATTACHED TO THE EXISTING PIPE TO THE EAST ANDWEST.
5. GEOTEXTILE FABRIC SHALL MATCH EXISTING AND SHALL OVERLAP EXISTING AT ALL EDGES A MINIMUM OF 2'.
6. ORIGINAL PLANS INDICATE PAVER SYSTEM IS AQUA ROC AS MANUFACTURED BY BELGARD HARDSCAPE. INSTALLATION SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS.



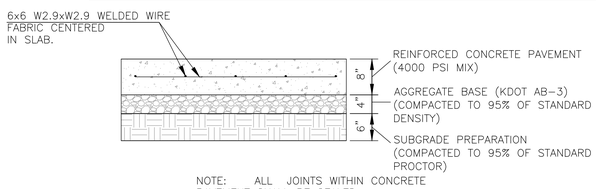
REPLACEMENT/REPAIR OF STONE CURB

NOTES:
1. REMOVE EXISTING CURB – SALVAGE STONE FOR REUSE.
2. SALVAGE BRICK PAVERS AND SIDEWALK BRICK FOR REUSE.
3. EXCAVATE TO LIMITS SHOWN AND PLACE 1'x2'–6" COMPACTED BASE (ASPHALT MILLINGS OR CRUSHED ROCK (AB–3).
4. SET STONE CURBS TO LINE AT GRADE SHOWN AND STABILIZE CURBS WITH COMPACTED ASPHALT MILLINGS OR CRUSHED ROCK (AB–3). FINISHED CURB SHALL BE 6" HIGH WITH A MAXIMUM TOLERANCE OF 1"±. CURB STONES SHALL MATCH JOINT TO JOINT ±1/2". CURB STONES SHALL BE SET IN MAXIMUM LENGTHS OF 3', MINIMUM LENGTHS OF 2', EXCEPT AT A SINGLE POINT OF CLOSURE ON SIDEWALK CUTS.
5. REPLACE BRICK STREET PAVERS AT LOCATIONS WHERE CONCRETE CURB AND GUTTER ARE REMOVED. BRICK PAVEMENT SHALL BE RESTORED AS SHOWN ABOVE. BRICK PAVERS SHALL BE PROVIDED BY THE CONTRACTOR TO MATCH THE EXISTING PAVERS.
6. REPAIR STREET SURFACE TO MATCH EXISTING. IF EXISTING IS AN ASPHALT OVERLAY, REPAIR TO MATCH EXISTING WITH ASPHALTIC CONCRETE IN ACCORDANCE WITH CITY STANDARD TECHNICAL SPECIFICATIONS, LATEST EDITION.

TYPICAL STONE CURB DETAIL

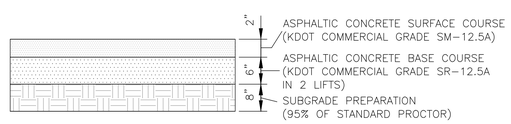


8" REINFORCED CONCRETE PAVEMENT - DUMPSTER PAD

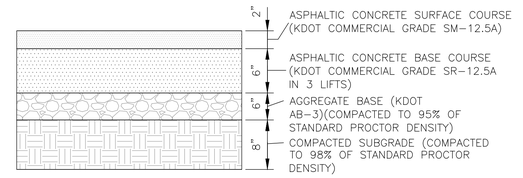


NOTE: ALL JOINTS WITHIN CONCRETE PAVEMENT SHALL BE SEALED.

7.5" REINFORCED CONCRETE PAVEMENT

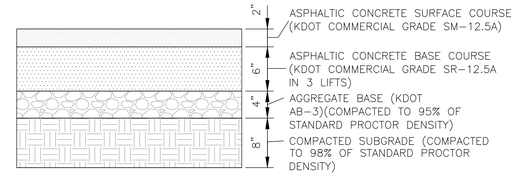


8" ASPHALTIC CONCRETE PAVEMENT - SITE

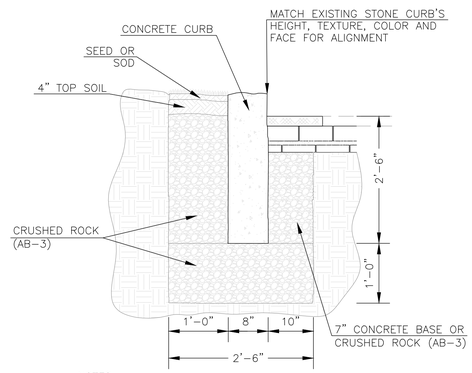


NOTE: FIELD VERIFY EXISTING PAVEMENT THICKNESS. CONTRACTOR SHALL BE RESPONSIBLE FOR ADDING OR REMOVING SUBGRADE MATERIAL AS REQUIRED TO CONSTRUCT NEW PAVEMENT WITHIN 8TH AVE.

8" ASPHALTIC CONCRETE PAVEMENT - 8TH AVE.

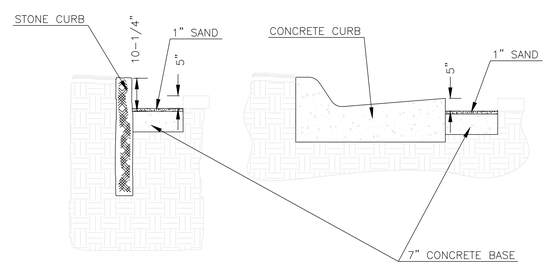


8" ASPHALTIC CONCRETE PAVEMENT - VAN BUREN



NOTES:
1. EXCAVATE TO LIMITS SHOWN AND PLACE 1'x2'–6" COMPACTED BASE OF CRUSHED ROCK (AB–3).
2. CONSTRUCT JOINTS AT 20' CENTERS MAXIMUM.
3. AFTER PLACEMENT STABILIZE BACK OF CURB WITH CRUSHED ROCK (AB–3) AND ADD PAVEMENT BASE OF 7" CONCRETE OR COMPACTED CRUSHED ROCK (AB–3).

REPLACEMENT OF STONE CURB WITH MATCHING CONCRETE CURB



NOTES:
1. REMOVE BRICKS AND INSTALL CURB.
2. PLACE 7" CONCRETE BASE AS SHOWN.
3. PLACE 1" SAND AS SHOWN.
4. RESET BRICKS.

INSTALLING CURB ADJACENT TO EXISTING BRICK PAVEMENT

HTK ARCHITECTS PA
9300 W 110TH ST, STE 350
OVERLAND PARK KANSAS 66210
P 913.663.5373
300 S. KANSAS AVE
TOPEKA KANSAS 66612
P 785.266.5373
WWW.HTKARCHITECTS.NET

KEVIN W. BECK LICENSED 16259 KANSAS PROFESSIONAL ENGINEER

SBB Schmidt, Beck & Boyd Engineering / Surveying
1415 SW Topeka Blvd.
Topeka, KS 66612
Ph: (785) 215-8630

DATE: 4-15-15

REVISED DATE:

HTK PROJECT NUMBER: 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER
17300-00038
DRAWN BY: Author
CHECKED BY: Checker
REV:
4-15-15

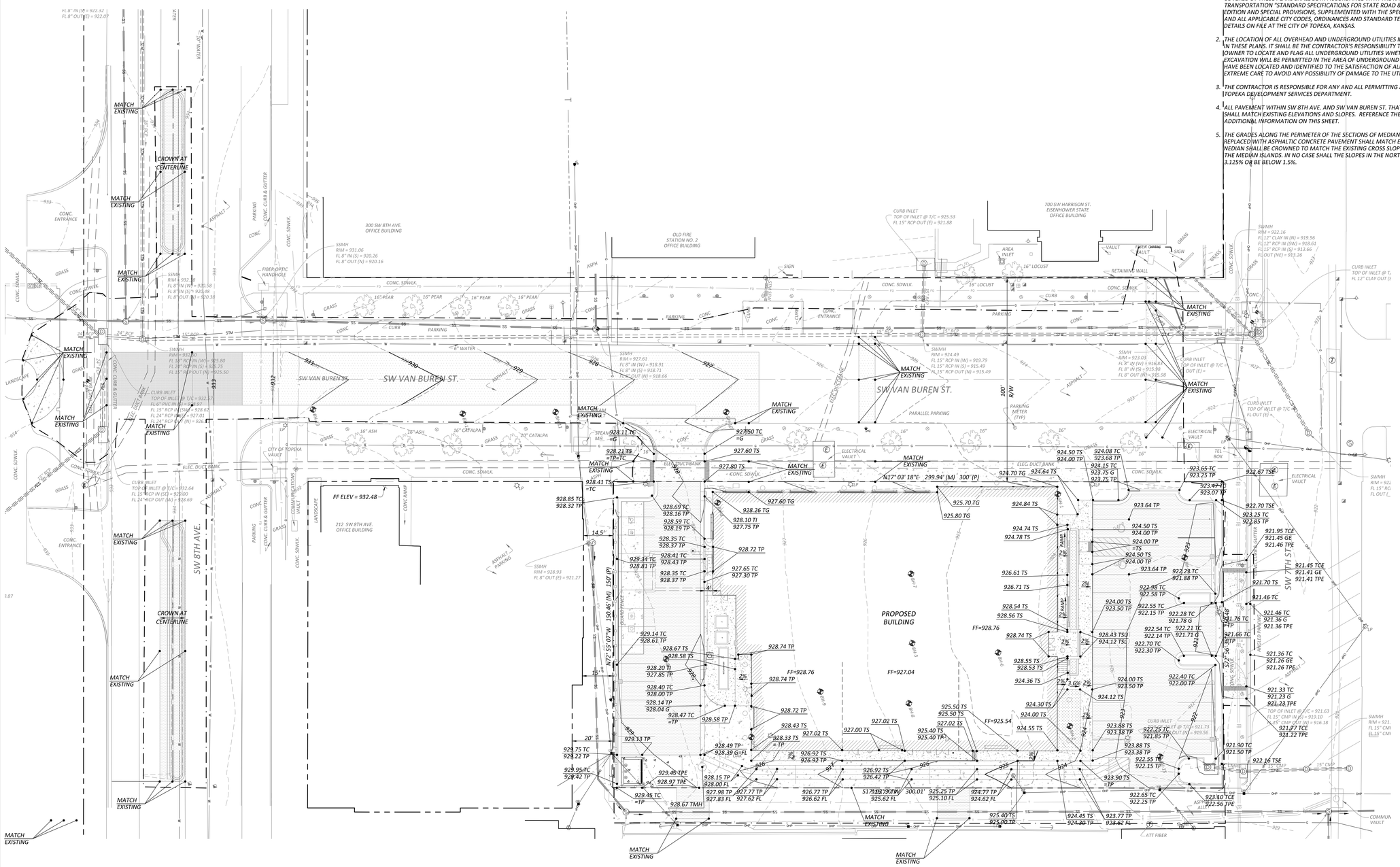
SITE DETAILS II

A-012651

C103

CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
Att.9C.--0010



GENERAL NOTES:

1. *ALL CONSTRUCTION METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH THE KANSAS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION", LATEST EDITION AND SPECIAL PROVISIONS, SUPPLEMENTED WITH THE SPECIFICATIONS NOTED ON THIS SHEET AND ALL APPLICABLE CITY CODES, ORDINANCES AND STANDARD TECHNICAL DESIGN AND DRAWING DETAILS ON FILE AT THE CITY OF TOPEKA, KANSAS.*
2. *THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.*
3. *THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL PERMITTING AND FEES THROUGH THE CITY OF TOPEKA DEVELOPMENT SERVICES DEPARTMENT.*
4. *ALL PAVEMENT WITHIN SW 8TH AVE. AND SW VAN BUREN ST. THAT IS TO BE REMOVED AND REPLACED SHALL MATCH EXISTING ELEVATIONS AND SLOPES. REFERENCE THE PLAN AND PROFILE SHEET AND ADDITIONAL INFORMATION ON THIS SHEET.*
5. *THE GRADES ALONG THE PERIMETER OF THE SECTIONS OF MEDIAN ISLAND BEING REMOVED AND REPLACED WITH ASPHALTIC CONCRETE PAVEMENT SHALL MATCH EXISTING. THE CENTERLINE OF THE NEDIAN SHALL BE CROWNED TO MATCH THE EXISTING CROSS SLOPES AT THE EAST AND WEST ENDS OF THE MEDIAN ISLANDS. IN NO CASE SHALL THE SLOPES IN THE NORTH OR SOUTH DIRECTION EXCEED 3.125% OR BE BELOW 1.5%.*

ABBREVIATIONS

FF	-	*FINISHED FLOOR*
TC	-	*TOP OF CURB*
TCE	-	*TOP OF EXISTING CURB*
G	-	*GUTTER*
TI	-	*TOP OF INLET*
TMH	-	*TOP OF MANHOLE*
TP	-	*TOP OF PAVEMENT*
TPE	-	*TOP OF EXISTING PAVEMENT*
TS	-	*TOP OF SIDEWALK*
TSE	-	*TOP OF EXISTING SIDEWALK*
TSL	-	*TOP OF UPPER SIDEWALK*
TSU	-	*TOP OF LOWER SIDEWALK*

Horz.: 1"=20'
0 20'

HTK ARCHITECTS PA
9300 W 110TH ST. STE. 150
OVERLAND PARK KANSAS 66210
P 913.663.5373
WWW.HTKARCHITECTS.NET

KEVIN W. BECK LICENSED 16259 4-15-15 KANSAS PROFESSIONAL ENGINEER

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1415 SW Topeka Blvd.
Topeka, KS 66612
Ph: (785) 215-8630

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800 SW Jackson, Suite 700
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER
17300.00038

4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

GRADING PLAN

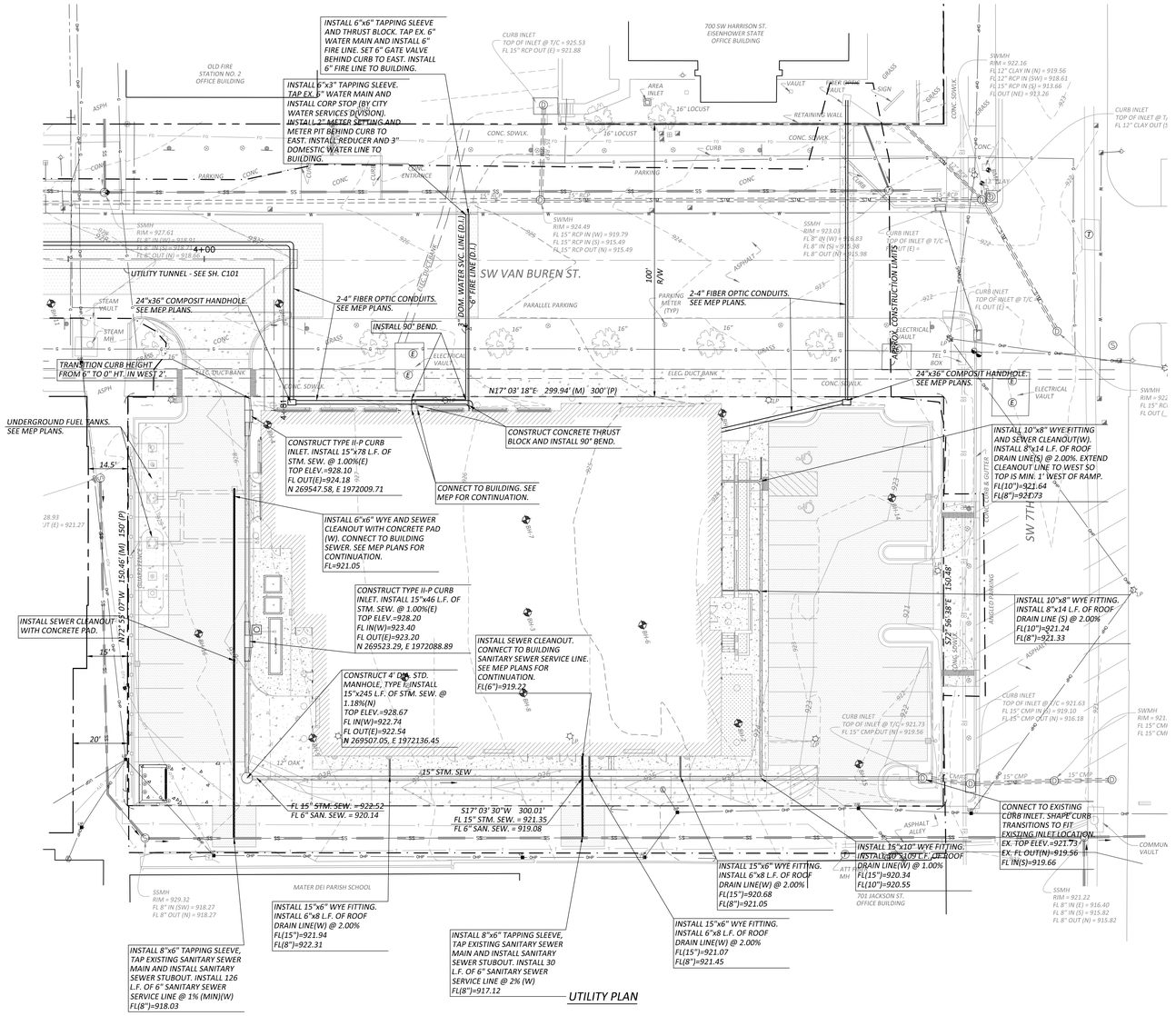
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C200

CONSTRUCTION DOCUMENTS

GENERAL NOTES:

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2. *THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.*
3. *THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL PERMITTING AND FEES THROUGH THE CITY OF TOPEKA DEVELOPMENT SERVICES DEPARTMENT.*



UTILITY PLAN

Horz.: 1"=20'
0 20'

HTK ARCHITECTS PA
9300 W 110TH ST. STE. 150
OVERLAND PARK KANSAS 66210
P 913.663.5373
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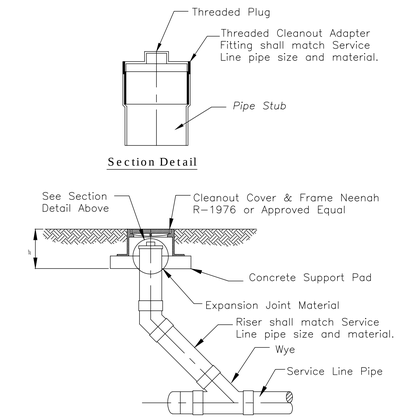
UTILITY PLAN

A-012651

C300

CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
Att.9C.~0012



NOTE: A 2'x2'x7.5" CONCRETE PAD SHALL BE CONSTRUCTED AROUND THE CLEANOUT COVER AND FRAME WHEN CONSTRUCTED IN ASPHALTIC CONCRETE PAVEMENT.

TOP OF CLEANOUT COVER AND FRAME SHALL BE 1" ABOVE THE FINISHED GRADES WHEN INSTALLED IN GRASS OR LANDSCAPING.

SEWER CLEANOUT DETAILS

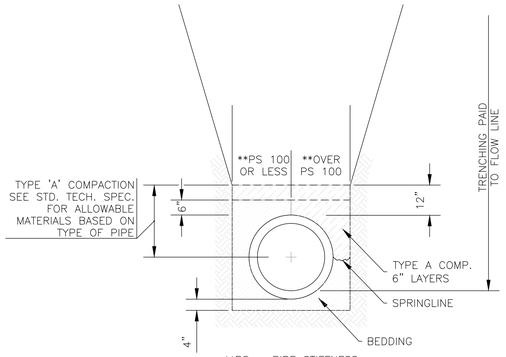
STANDARDS FOR SETTING LINE AND GRADE FOR SEWER CONSTRUCTION:

1. STAKES, SPIKES, SHINERS, OR CROSSES SET BY TRANSIT AT THE SURFACE ON AN OFFSET FROM THE SEWER CENTER LINE.
2. STAKES ARE TO BE SET IN THE TRENCH BOTTOM ON THE SEWER LINE AS THE ROUGH GRADE FOR SEWER IS COMPLETED.
3. ELEVATIONS GIVEN TO THE FINISHED TRENCH GRADE AND SEWER INVERT, WHILE SEWER LAYING PROGRESSES.

STANDARD METHODS FOR TRANSFERRING LINE AND GRADE TO SEWER TRENCH BOTTOM:

ELECTRONIC LASER EQUIPMENT–STAKING SHALL BE AT 25' INTERVALS FOR THE FIRST 100' AND EVERY 100' THEREAFTER UNTIL THE NEXT MANHOLE IS REACHED.

BATTER BOARDS AND BATTER BOARD SUPPORTS–STAKING SHALL BE EVERY 25'.



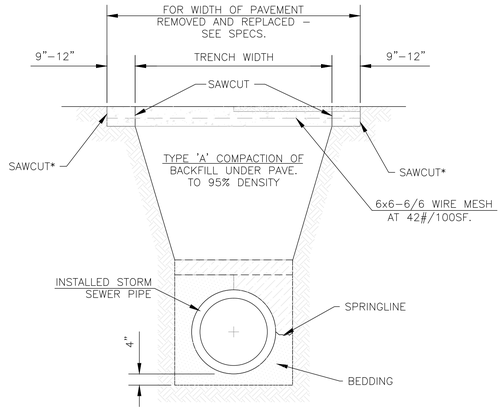
TRENCHING DETAILS

NOTES:

1. THE TRENCH SHALL BE EXCAVATED TO 4" BELOW BOTTOM OF THE PIPE BARREL & BACKFILLED AS SHOWN ABOVE WITH AN APPROVED BEDDING MATERIAL.
2. WHEN THE SEWER IS TO BE INSTALLED IN ROCK, THE TRENCH IS TO BE EXCAVATED TO A MINIMUM DEPTH OF 4" BELOW THE BOTTOM OF THE PIPE AND BACKFILLED IN 6" COMPACTED LAYERS WITH AN APPROVED BEDDING MATERIAL AS SHOWN ABOVE. THE ROCK EXCAVATED TO BE PAID AS A SEPARATE BID ITEM. THE EMBEDMENT, IN ALL CASES, TO BE INCLUDED IN THE PRICE BID PER TRENCH, EXCAVATION, AND BACKFILL.

NOTES:

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INSTALLATION OF SEWER UNDER EXISTING PAVEMENT

PAVEMENT SHALL BE SAWED AND REMOVED WITHOUT DAMAGE TO ADJACENT PAVEMENT.

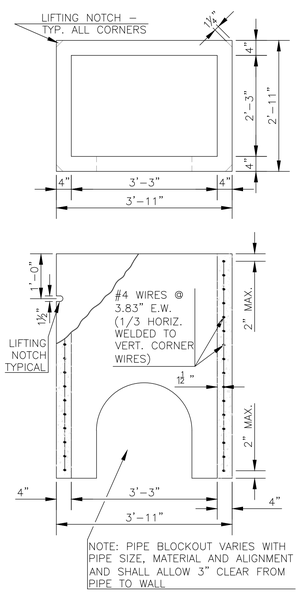
* SECOND PAVEMENT CUT TO BE MADE AND PAVEMENT REMOVED AFTER TRENCH IS PROPERLY BACKFILLED.

** CONCRETE PAVEMENT SHALL BE JOINED TO ADJACENT CONCRETE PAVEMENT AS PER "FULL PANEL REPAIR AND UTILITY CUTS FOR CONCRETE PAVEMENT" AS SHOWN ON MISCELLANEOUS DETAILS II.

PAVEMENT PLACEMENT SCHEDULE

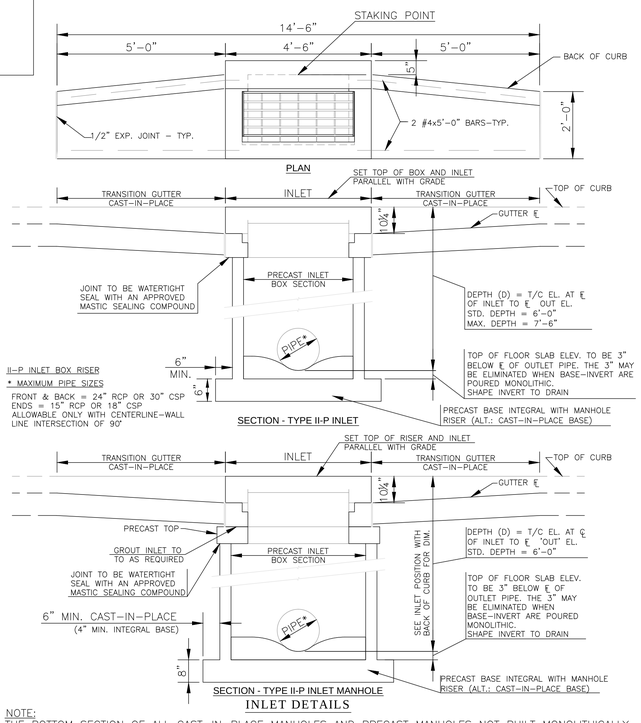
SCHEDULE TO BE USED UNLESS OTHERWISE NOTED ON PLANS.

ORIGINAL SURFACE	NEW PAVEMENT
CONCRETE	8" REINFORCED CONCRETE 4,000psi
ASPHALT	MATCH EXISTING PAVEMENT THICKNESS WITH A MINIMUM OF 6" HOT–MIX ASPHALTIC CONCRETE.



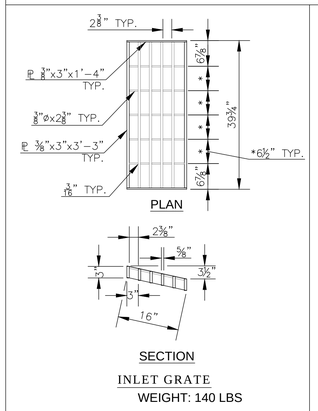
PRECAST INLET BOX RISER

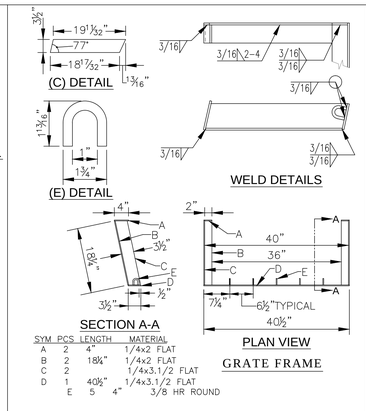
NOTES:
1. CAST IN PLACE CONC. SHALL BE 4000PSI.
2. PRECAST CONC. SHALL BE 4000 PSI.
3. REINFORCING WIRE SHALL CONFORM TO ASTM A82.
4. REINFORCING BARS SHALL CONFORM TO ASTM A615.
5. GROUT ALL PIPES IN PLACE.
6. GRATES & FRAMES SHALL BE ASTM A36 STEEL COATED WITH BITUMASTIC BLACK SOLUTION (COAL TAR BASE) AS MANUFACTURED BY KOPPERS OR APPROVED EQUAL.
7. THE INLET TOP SHALL SIT SQUARELY ON TOP OF THE INLET BOTTOM SECTION. THE INLET WALLS SHALL NOT BE OFFSET MORE THAN ONE INCH BETWEEN TOP AND BOTTOM SECTIONS.

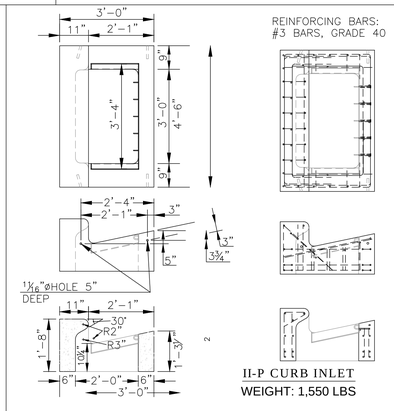


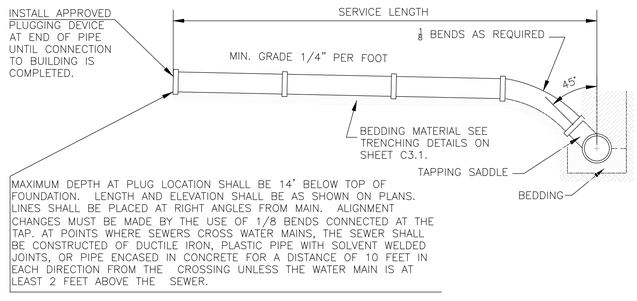
INLET DETAILS

NOTE:
THE BOTTOM SECTION OF ALL CAST–IN–PLACE MANHOLES AND PRECAST MANHOLES NOT BUILT MONOLITHICALLY WITH THE BASE SHALL BE SET INTO A STEEL REINFORCED (#4 @ 12" E.W.) CONCRETE BASE (4,000 PSI) A MINIMUM OF 4 INCHES. IN THIS CASE, THE BASE THICKNESS SHALL BE INCREASED BY 4 INCHES.









SANITARY SEWER SERVICE CONNECTION DETAIL

HTK ARCHITECTS PA
9300 W 110TH ST. STE. 150
OVERLAND PARK KANSAS 66210
P 913.663.5373
3005 KANSAS AVE
TOPEKA KANSAS 66612
P 785.266.5373
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER
17300000038
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SEWER DETAILS

A-012651

C301

CONSTRUCTION DOCUMENTS

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2-2-2016
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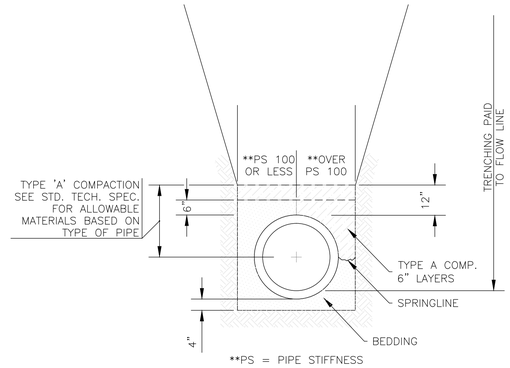
STANDARDS FOR SETTING LINE AND GRADE FOR SEWER CONSTRUCTION:

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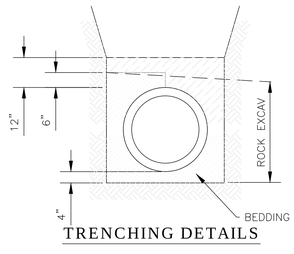
STANDARD METHODS FOR TRANSFERRING LINE AND GRADE TO SEWER TRENCH BOTTOM:

ELECTRONIC LASER EQUIPMENT–STAKING SHALL BE AT 25' INTERVALS FOR THE FIRST 100' AND EVERY 100' THEREAFTER UNTIL THE NEXT MANHOLE IS REACHED.

BATTER BOARDS AND BATTER BOARD SUPPORTS–STAKING SHALL BE EVERY 25'.



**PS = PIPE STIFFNESS

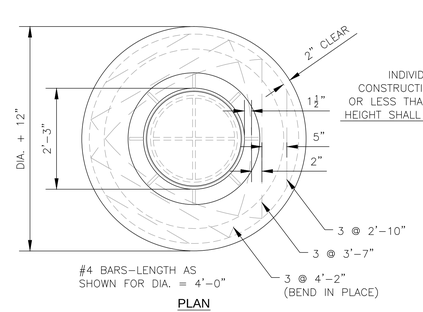


TRENCHING DETAILS

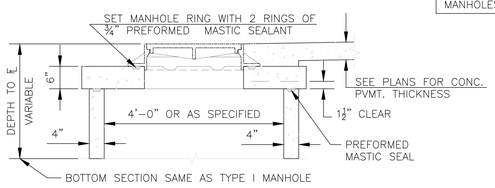
BID ITEM. THE EMBEDMENT, IN ALL CASES, TO BE INCLUDED IN THE PRICE BID PER TRENCH EXCAVATION, AND BACKFILL.

NOTES:

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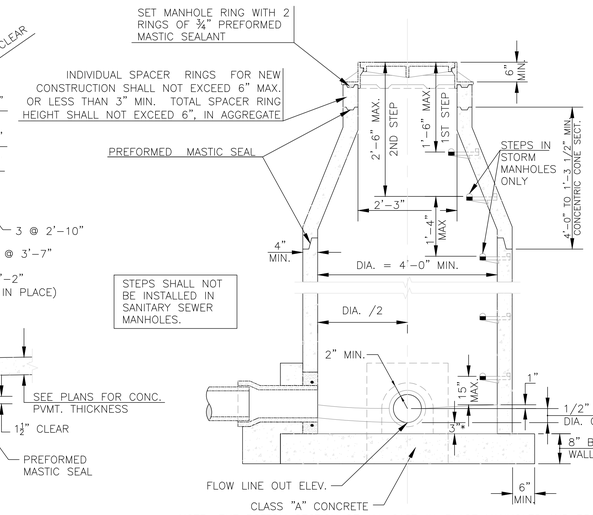


PLAN



TOP SECTION

STANDARD MANHOLE TYPE II



NOTE: THE BOTTOM SECTION OF ALL CAST–IN–PLACE MANHOLES AND PRECAST MANHOLES NOT BUILT MONOLITHICALLY WITH THE BASE SHALL BE SET INTO A STEEL REINFORCED (#4 @ 12" E.W.) CONCRETE BASE (4,000 PSI) A MINIMUM OF 4 INCHES. IN THIS CASE, THE BASE THICKNESS SHALL BE INCREASED TO 12 INCHES.

PRE-CAST STANDARD MANHOLE TYPE I

*THIS 3" TO BE ELIMINATED WHEN PRE–CAST INVERTS ARE USED.

DETAIL OF MANHOLE CASTINGS

CASTINGS SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR GRAY IRON CASTINGS" IN ACCORDANCE WITH A.S.T.M. A 48, CLASS 35B.

MINIMUM TENSILE STRENGTH OF EACH CASTING SHALL BE AT LEAST 30,000 PSI.

AVERAGE WT. COVER 185 LBS., RING 220 LBS. VARIATION IN WEIGHT WILL NOT EXCEED THE SPECIFIED WEIGHTS BY MORE THAN 4%.

CASTINGS ARE TO BE MANUFACTURED TRUE TO PATTERN AND WITH SATISFACTORY FIT OF COMPONENT PARTS. CASTINGS SHALL BE FREE OF DEFECTS. DIMENSIONS AS DETAILED ON PLAN SHALL NOT DEVIATE BY MORE THAN 1/16" PER FOOT.

SEATING SURFACES OF CASTINGS SHALL BE MACHINED AS REQUIRED TO PREVENT ROCKING.

ALL CASTINGS SHALL BE FURNISHED IN BARE METAL AND SHALL HAVE MANUFACTURER'S NAME CAST INTO CASTING.

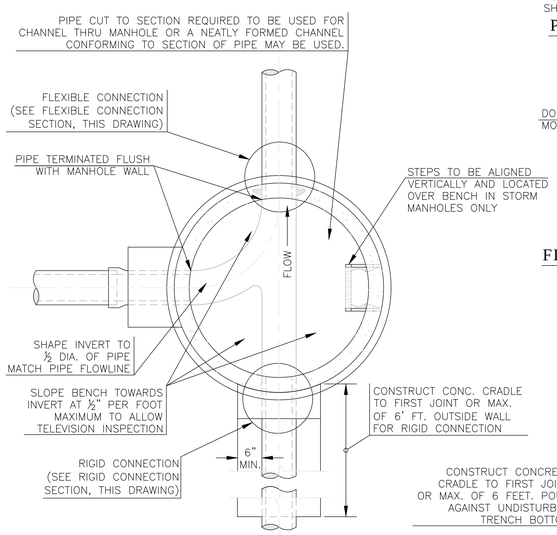
CASTINGS SHALL CONFORM TO THE PROVISIONS OF UNITED STATES CUSTOMS REGULATIONS. CASTING MANUFACTURER SHALL CARRY AT LEAST $3,000,000 PRODUCT LIABILITY INSURANCE.

TO INSURE CONFORMANCE TO TENSILE STRENGTH REQUIREMENTS, THE FOLLOWING PROCEDURE WILL BE FOLLOWED FOR EACH LOT OF CASTINGS USED ON CITY OF TOPEKA PROJECTS.

A. ALL CASTINGS SHALL BE JULIAN HEAT DATED.

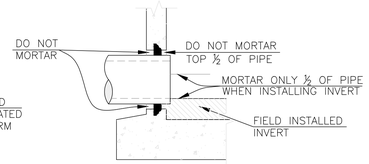
B. TWO TEST BAR SPECIMENS MUST BE POURED WHEN PRODUCING CITY OF TOPEKA CASTINGS. TEST BAR SPECIMENS SHALL BE DELIVERED TO PURCHASER.

C. TEST REPORT FROM A CITY APPROVED INDEPENDENT LABORATORY VERIFYING TENSILE STRENGTH CHEMISTRY OR BRINELL HARDNESS SHALL ACCOMPANY EACH SHIPMENT OF CASTINGS. IF REQUESTED TEST REPORT SHALL BE PAID FOR BY THE SUPPLIER. THE HEAT DATE(S) ON CASTINGS SHALL CORRESPOND TO THE TENSILE STRENGTH REPORT(S).



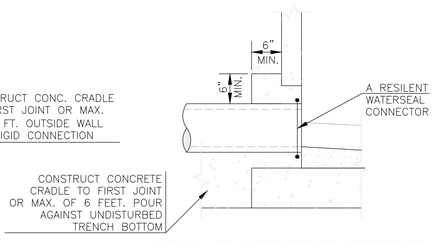
MANHOLE BOTTOM PLAN

NOTE: DEADEND MANHOLES SHALL HAVE A POURED INVERT. MUST USE BOND BREAKER BETWEEN INVERT AND FLOOR.



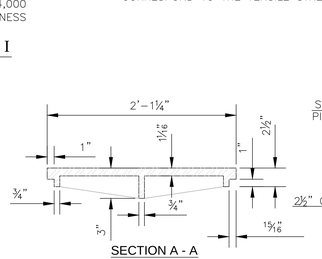
FLEXIBLE CONNECTION SECTION

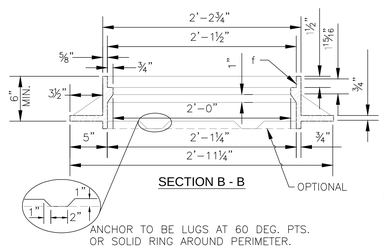
FLEXIBLE CONNECTIONS SHALL BE USED FOR ALL SEWER PIPE TYPES.



RIGID CONNECTION SECTION

RIGID CONNECTIONS SHALL BE USED FOR CERTAIN EXISTNG MANHOLE CONNECTIONS AT ENGINEER'S DISCRETION.





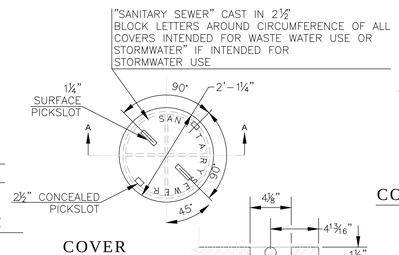
ANCHOR TO BE LUGS AT 60 DEG. PTS. OR SOLID RING AROUND PERIMETER.

MANHOLE CONSTRUCTION NOTES

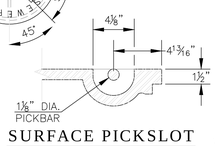
ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.

TOP OF 8" FLOOR SLAB TO BE 3" MIN. BELOW FLOW LINE ELEV. OF THE OUTLET PIPE TO INSURE SUFFICIENT MIN. THICKNESS OF SHAPED INVERT.

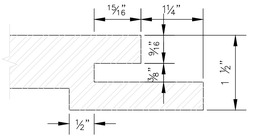
ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO A.S.T.M. DESIGNATION C478



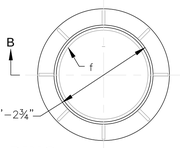
COVER



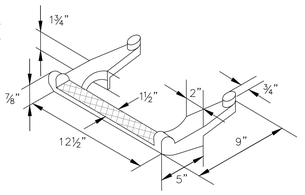
SURFACE PICKSLOT



CONCEALED PICKSLOT DETAIL



RING



DETAIL OF CAST IRON MANHOLE STEP

(FOR PRECAST MANHOLE TO BE USED IN STORM SEWER SYSTEMS ONLY)

VESTAL MANUFACTURING NO. 918–P, CLAY AND BAILEY NO. 2115, NEENAH NO. R–1981–I OR EQUAL AS FURNISHED BY MANUFACTURER OF PRECAST MANHOLE.

COPOLYMER POLYPROPYLENE PLASTIC STEP, PS1–PF or PS2–PF, MANUFACTURED BY M.A. IND. INC. OR APPROVED EQUAL MAY BE USED AS AN ALTERNATE TO DETAILED CASTING. THIS STEP MAY BE CAST IN PLACE OR INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURE.

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9300 W 110TH ST, STE 150
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P 913.663.5373
300 S. KANSAS AVE
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P 785.266.5373
WWW.HTKARCHITECTS.NET

KEVIN W. BECK LICENSED 16259 4-15-15 KANSAS PROFESSIONAL ENGINEER

SBB Schmidt, Beck & Boyd Engineering / Surveying
1415 SW Topeka Blvd.
Topeka, KS 66612
Ph: (785) 215-8630

DATE:
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HTK PROJECT NUMBER:
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Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 666121216
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FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas

BUILDING NUMBER
17300-00038

4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

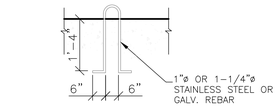
MANHOLE DETAILS

A-012651

C302

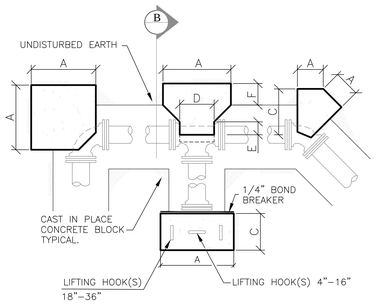
CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
Att.9C--0014

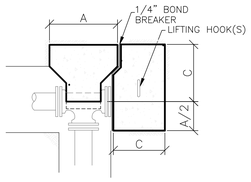


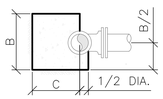
ONE (1) 1"ø FOR 16" AND SMALLER PIPING
TWO (2) 1-1/4"ø FOR 18" AND 24" PIPING

LIFTING HOOK DETAIL



PLAN





SECTION B

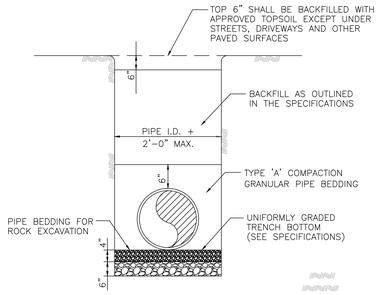
PIPE DIA.	TEES						PLUGS			90° BEND			45° BEND			22.5° BEND			11.25° BEND		
	A	B	C	D	E	F	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
4"	13	22	9	13	—	—	13	22	9	18	12	9	9	12	12	6	12	12	—	—	—
6"	24	30	16	16	6	6	24	30	12	24	18	16	10	24	12	7	18	12	—	—	—
8"	34	32	21	18	7	6	34	32	18	30	26	21	13	36	18	9	24	18	9	24	18
10"	40	42	23	22	8	6	40	42	24	35	34	24	18	38	27	12	30	27	12	30	27
12"	48	52	27	24	9	6	48	52	24	42	42	30	21	48	33	14	36	30	10	42	24

CONCRETE BLOCKING DETAILS 4" THROUGH 12"

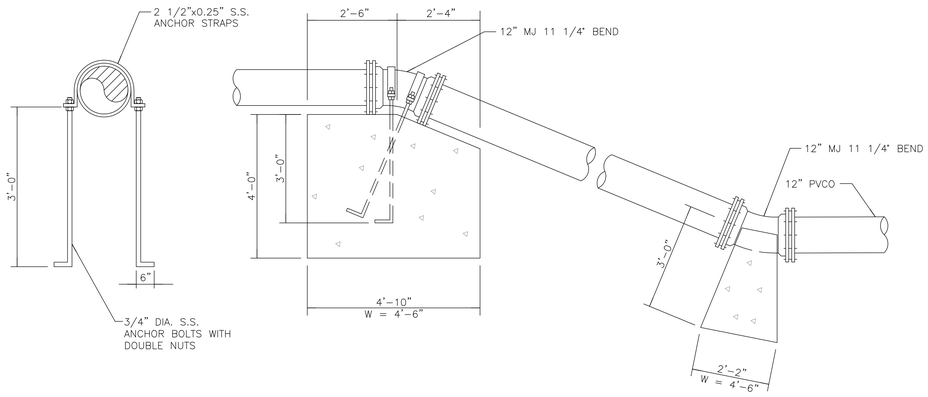
ALL DIMENSIONS ARE IN INCHES.
BLOCKING DESIGNED FOR 150 PSI WORKING PRESSURE AND 1500 PSF SOIL BEARING.
BLOCKING FOR REDUCED BRANCH TEE SHALL BE AS LISTED UNDER TEES AND BRANCH DIAMETER.
MAINTAIN MINIMUM "F" DIMENSION.

NOTE: WHERE APPLICABLE, DO NOT COVER PIPE JOINTS OR BOLTS WITH CONCRETE.

CONCRETE BLOCKING DETAILS
NO SCALE



TYPICAL TRENCH & PIPE BEDDING DETAIL
NO SCALE



STRAP DETAIL FOR VERTICAL BEND

VERTICAL BEND BLOCKING DETAIL

NO SCALE:

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WWW.HTKARCHITECTS.NET

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LICENSED
16259
4-15-15
KANSAS
PROFESSIONAL ENGINEER

SBB
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800 SW Jackson, Suite 700
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FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER
17300-000038
4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

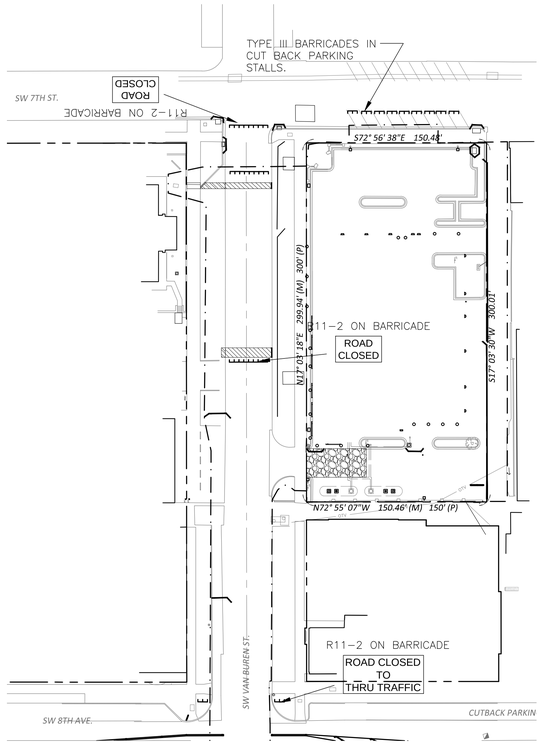
WATER DETAILS

A-012651

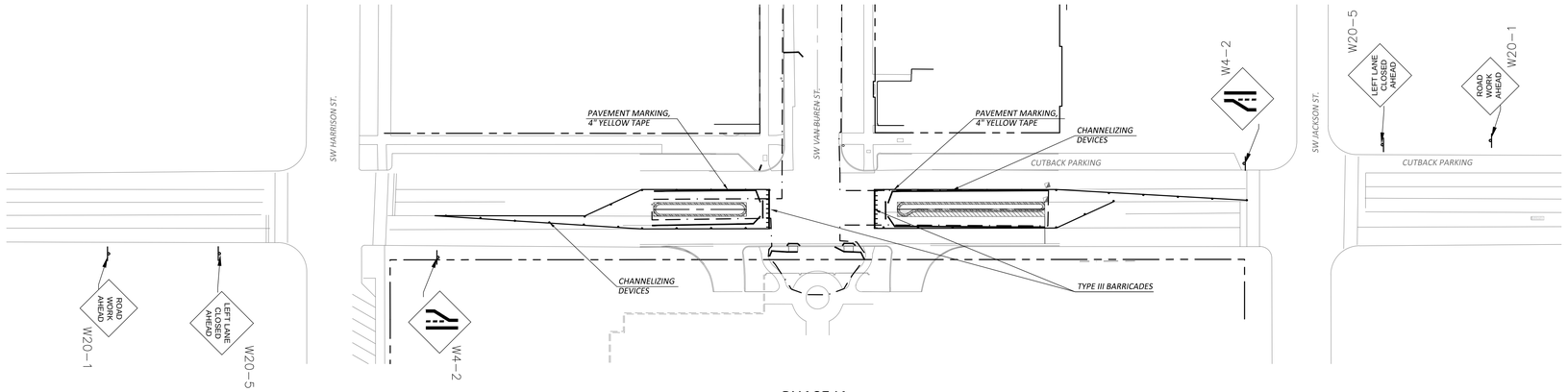
C303

CONSTRUCTION
DOCUMENTS

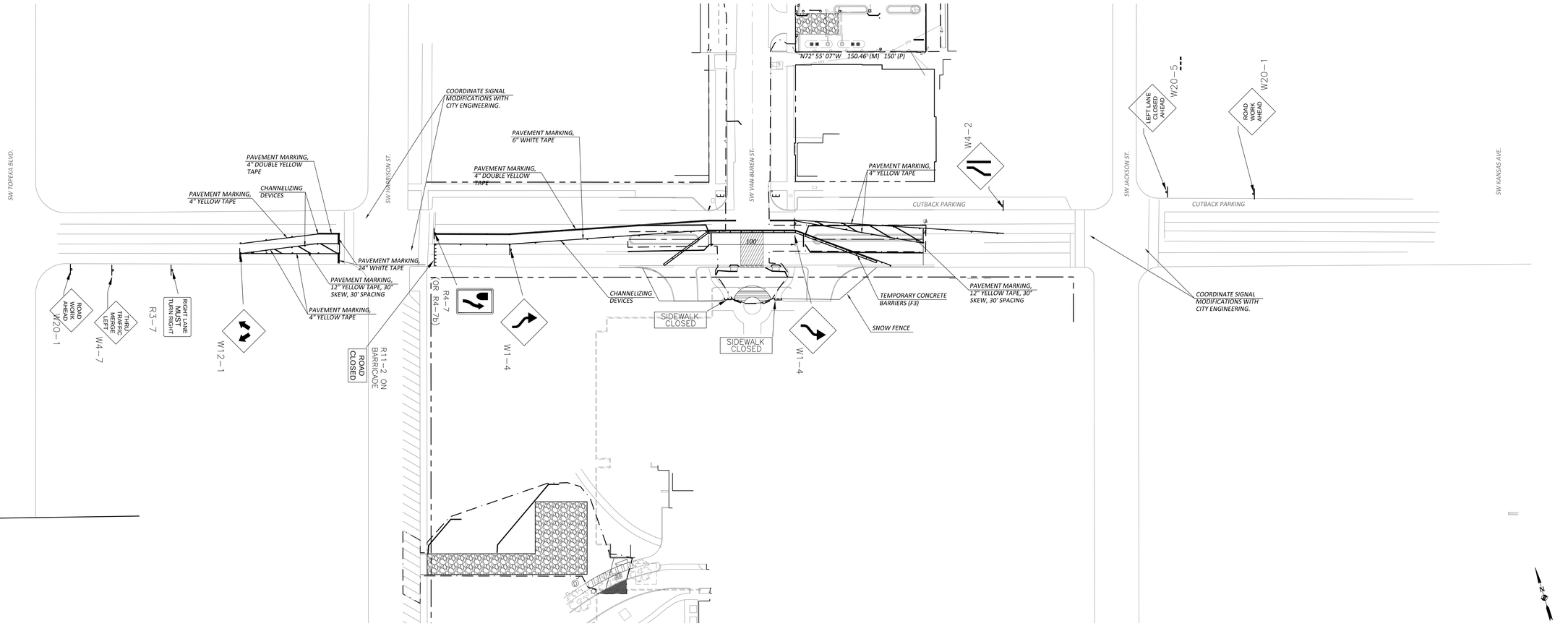
JCSBC
2-2-2016
Att.9C--0015



PHASE IB - SW VAN BUREN ST.



PHASE IA



PHASE IB - SW 8TH AVE.

PHASING NOTES:

PHASE I: SEE SHEET C050 FOR PHASE IA & PHASE IB CONSTRUCTION ACTIVITIES.

THIS TRAFFIC CONTROL PLAN IS PROVIDED FOR GUIDANCE. THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL FOR STREETS AND SIDEWALKS IN ACCORDANCE WITH THE CITY OF TOPEKA STANDARD DETAILS AND LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SEE THE STANDARD DRAWINGS FOR SPACING AND ADDITIONAL SIGNAGE.

THE CONTRACTOR SHALL PROVIDE THE CITY OF TOPEKA ENGINEERING DIVISION WITH THE FINAL TRAFFIC CONTROL PLAN BASED ON FINAL PHASING OF CONSTRUCTION. THE PLAN SHALL BE APPROVED BY THE CITY ENGINEERING DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION.

THE CONTRACTOR SHALL INCLUDE ALL NECESSARY SIDEWALK CLOSURE TRAFFIC CONTROL DEVICES PER CITY STANDARDS.

THE CONTRACTOR SHALL COORDINATE TEMPORARY SIGNAL MODIFICATIONS AT SW 8TH & SW HARRISON INTERSECTION AND SW 8TH & SW JACKSON INTERSECTION AS NECESSARY.

THE CONTRACTOR SHALL PROVIDE ADEQUATE CONSTRUCTION FENCING AND PROTECTION OF THE PROJECT SITE TO PROMOTE THE SAFETY AND SECURITY OF THE CONSTRUCTION FORCES AS WELL AS THE PUBLIC. THIS INCLUDES PROTECTION FOR VEHICULAR, PEDESTRIAN AND OTHER MODES OF TRANSIT.

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300 S. KANSAS AVE
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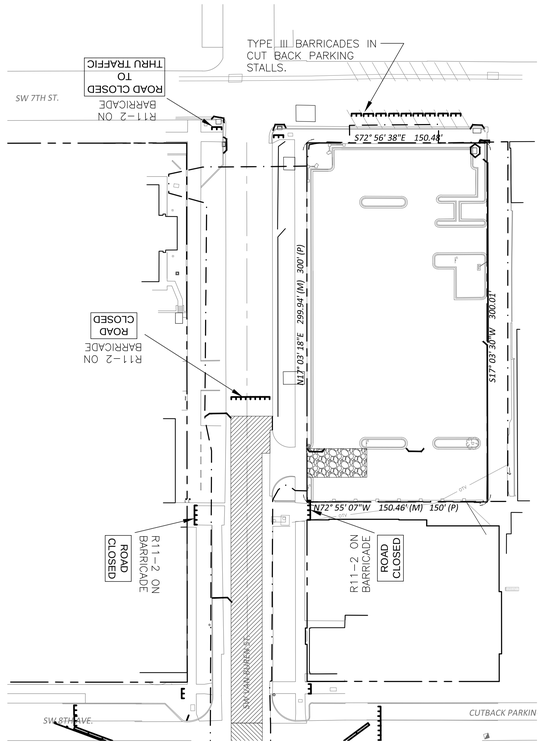
TRAFFIC CONTROL PLAN
PHASE IA & IB

A-012651

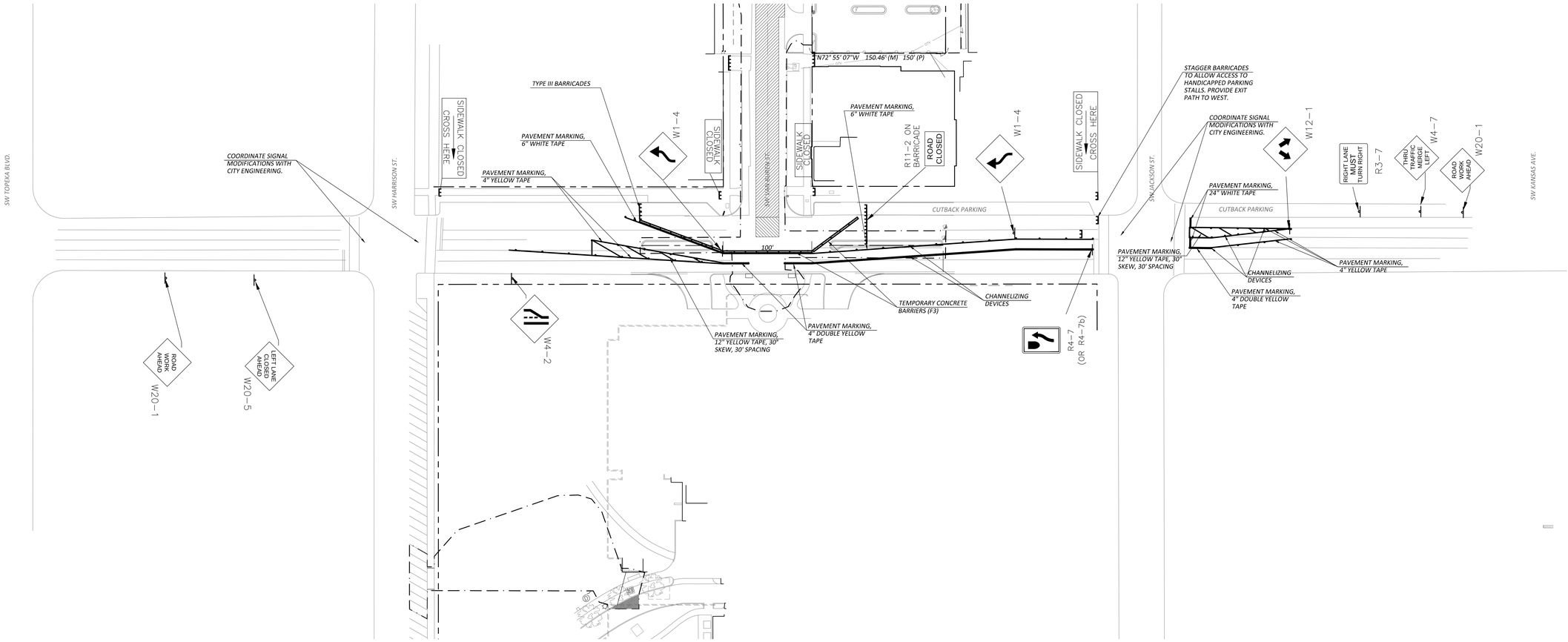
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CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
Att.9C.--0016



PHASE II - SW VAN BUREN ST.



PHASE II - SW 8TH AVE.

PHASING NOTES:

PHASE I: *SEE SHEET C050 FOR PHASE IA & PHASE IB CONSTRUCTION ACTIVITIES.*

THIS TRAFFIC CONTROL PLAN IS PROVIDED FOR GUIDANCE. THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL FOR STREETS AND SIDEWALKS IN ACCORDANCE WITH THE CITY OF TOPEKA STANDARD DETAILS AND LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SEE THE STANDARD DRAWINGS FOR SPACING AND ADDITIONAL SIGNAGE.

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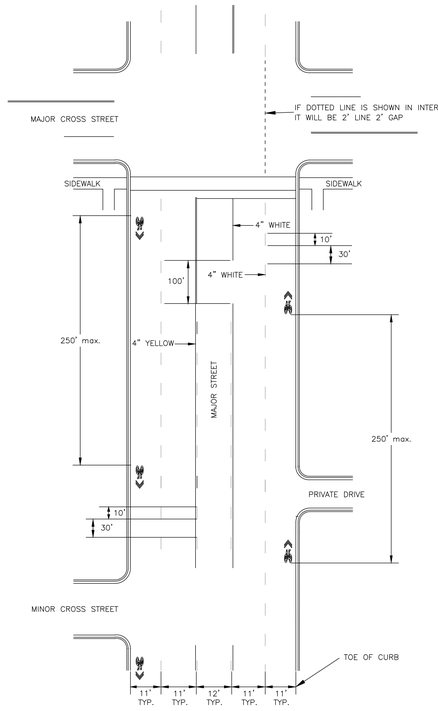
TRAFFIC CONTROL PLAN
PHASE II

A-012651

C401

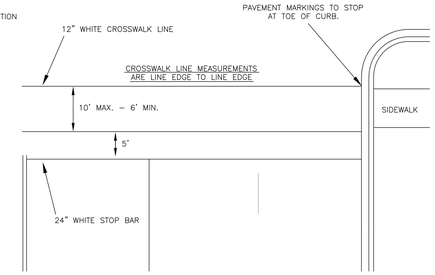
CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
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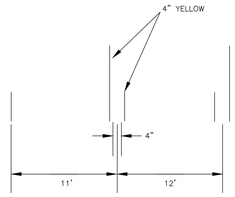


TYPICAL PAVEMENT MARKING DETAIL

SHARROW – WHEN THERE IS NO PARKING, DISTANCE FROM FACE OF CURB TO CENTER OF SHARROW IS 5 FEET. WHEN PARKING IS PRESENT DISTANCE FROM FACE OF CURB TO CENTER OF SHARROW IS 11'.



CROSSWALK MARKING DETAIL



TYPICAL LANE WIDTH MEASUREMENTS ARE – CENTER OF SKIP LINE TO CENTER OF THE SOLID/SKIP LINES. TWO WAY CENTER TURN LANE LINES SHOULD BE CENTER OF SOLID/SKIP TO CENTER OF SOLID/SKIP LINES

LANE LINE MEASUREMENT DETAIL

GENERAL NOTES:

EXCEPT AS NOTED BELOW PAVEMENT MARKINGS ARE REQUIRED TO COMPLY WITH KDOT AND CITY SPECIFICATIONS.

EQUIPMENT – USE EQUIPMENT DESIGNED FOR THE PREPARATION OF THE APPROPRIATE TYPE OF PAVEMENT MARKING MATERIAL.

SURFACE PREPARATION – ON EXISTING PAVEMENTS, REMOVE THE EXISTING PAVEMENT MARKINGS ACCORDING TO RECOMMENDATIONS OF THE MANUFACTURER OF THE NEW MARKINGS.

ON AGED ASPHALT PAVEMENTS, THOROUGHLY REMOVE ALL DIRT, GRIT, GREASE, RESIDUE OF PRIOR PAVEMENT MARKINGS APPLICATION (INCLUDING ADHESIVES OR PRIMERS THAT MAY HAVE BEEN USED IN THEIR APPLICATION), AND ANY OTHER FOREIGN MATTER FROM THE ROADWAY SURFACE PRIOR TO THE APPLICATION OF THE NEW MARKINGS.

ON NEW PORTLAND CEMENT CONCRETE PAVEMENT AND NEW CONCRETE BRIDGE DECKS USE SHOT BLASTING TO REMOVE CURING COMPOUND AND LAITANCE FROM THE SURFACES TO WHICH THE PAVEMENT MARKINGS WILL BE APPLIED.

ALIGNMENT – LAYOUT THE PAVEMENT MARKINGS AS DETAILED IN THE PLANS. IF THE PLANS DO NOT PROVIDE DETAILS, SUBMIT TO THE ENGINEER FOR APPROVAL A LAYOUT PLAN FOR THE PAVEMENT MARKINGS THAT COMPLY WITH THE 2009 MUTCD.

PROVIDE ADEQUATE GUIDE MARKS – APPROXIMATELY 2" BY 12" AT APPROXIMATELY 30 TO 50 FOOT INTERVALS – FOR THE APPLICATION OF THE MARKINGS.

APPLY MARKINGS STRAIGHT AND CLOSE TO THE INTENDED ALIGNMENT WITHOUT ABRUPT CHANGES THAT RESULT IN AN UNACCEPTABLE APPEARANCE. LINES THAT DEVIATE LATERALLY FROM THE INTENDED ALIGNMENT MORE THAN 2" IN 200' MAY BE REJECTED.

APPLICATION – PROVIDE THE CITY INSPECTOR WITH A COPY OF THE MANUFACTURER'S APPLICATION INSTRUCTIONS. APPLY THE MARKINGS ACCORDING TO THE RECOMMENDATIONS. FOLLOW THE RECOMMENDATIONS REGARDING PAVEMENT AND AMBIENT TEMPERATURES. THE CITY INSPECTOR WILL VERIFY THE PAVEMENT AND AMBIENT TEMPERATURES BEFORE BEGINNING WORK AND WHEN DEEMED NECESSARY.

TAPES SHALL BE INLAID IN ASPHALT. OTHER PERMANENT MARKINGS SHALL BE INSTALLED IMMEDIATELY AFTER OVERLAYING UNLESS PRIOR APPROVAL IS RECEIVED BY THE ENGINEER OR THE CITY INSPECTOR. IF THE PAVEMENT MARKINGS CANNOT BE INSTALLED AND THUS THE ROADWAY WOULD BE UNMARKED OVERNIGHT, INTERIM REMOVABLE MARKINGS SHALL BE INSTALLED AND REMAIN UNTIL THE PERMANENT MARKINGS CAN BE INSTALLED. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO REMOVE THE INTERIM MARKINGS AND INSTALL THE PERMANENT MARKINGS WITHIN 48 HOURS. UNDER NO CIRCUMSTANCE SHALL THE INTERIM PAVEMENT MARKINGS BE IN PLACE FOR MORE THAN 14 DAYS. THE INTERIM REMOVABLE MARKINGS SHALL BE REMOVED PRIOR TO THE INSTALLATION OF THE PERMANENT PAVEMENT MARKINGS.

REMOVE AND REPLACE NEWLY INSTALLED PAVEMENT MARKINGS THAT HAVE DRAG MARKS, GASHES, GOUGES, FOREIGN COVERING, DISCOLORED AREA OR AREAS THAT HAVE FAILED TO SOLIDIFY, HAVE IMPROPER ADHESION OR THICKNESS.

ON NEW PORTLAND CEMENT CONCRETE, LANES CANNOT BE OPEN UNTIL INTERIM OR PERMANENT MARKINGS ARE IN PLACE. INTERIM MARKINGS CANNOT BE LEFT IN PLACE MORE THAN 14 DAYS AND MUST BE REMOVED WHEN PERMANENT MARKINGS ARE INSTALLED.

PERFORMANCE MEASURES – LACK OF SPECIFIED LENGTH/CYCLE: LANE LINES ARE EXPECTED TO TO BE 10' LONG; GAPS ARE EXPECTED TO BE 30' IN LENGTH. PAYMENT SHALL BE MADE WITH PENALTY BEING EQUAL TO 25% OF THE UNIT PRICE BID PER FOOT FOR EACH 2" OF LENGTH LACKING OR EXCEEDING THE 10'/30' CRITERIA NOTED ABOVE. SHOULD LINE OR GAP BE LACKING OR EXCEEDING 12" THE CITY WILL EITHER NOT PAY FOR THE MARKINGS (100% PENALTY) OR REQUIRE THEY BE REMOVED AND REINSTALLED. TO CLARIFY, EXAMPLE, SHOULD A REQUIRED 10' LINE BE MEASURED AT 10'–3" THE CONTRACTOR WILL BE PAID FOR 75% FOR THE ENTIRE 10'. SHOULD A SPACE BE 30'–3", THE CONTRACTOR WILL BE PAID FOR 75% OF THE 10' LINE. PENALTIES WILL BE APPLIED UNTIL THE MARKINGS RESUME THE 10'/30' REQUIREMENT.

LACK OF SPECIFIED WIDTH: MARKINGS SHALL BE AT LEAST AS SPECIFIED ON THE PLANS. SHOULD MARKINGS BE 1/2" LESS THAN NOTED, THE CITY WILL DIRECT THE CONTRACTOR TO REDO OR 25% OF PAYMENT WILL BE WITHHELD.

WARRANTY – AT THE END OF ONE YEAR WARRANTY PERIOD, THE CONTRACTOR WILL BE REQUIRED TO REPLACE MISSING OR DEFECTIVE MARKINGS.

NO.	DATE:	REVISION	BY:	APP'D
1	01/30/12	UPDATE SPECIFICATIONS	KAP	LGV

DRAWN BY: K.PELTON
APP'D BY: Linda K. Vogt

TOPEKA Public Works
ENGINEERING
620 SE MADISON STREET - 2nd FLR. - TOPEKA, KS 66607
Phone: (785) 368-3842 - Fax: (785) 368-3881

PAVEMENT MARKINGS

DATE:
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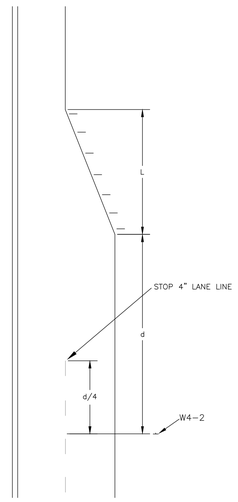
– DELINEATORS, IF LOW SPEED CURB DEFINES EDGE NOT NEEDED

$L = \frac{WS^2}{60}$

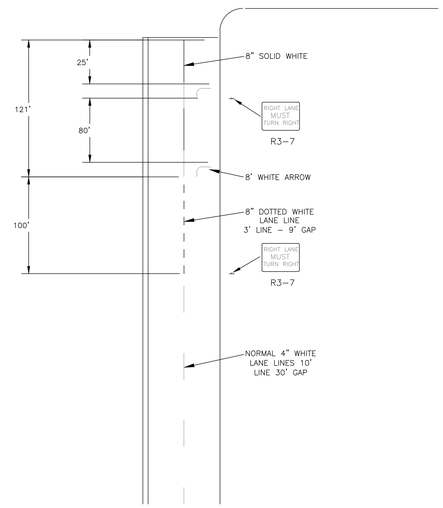
FOR 30mph, L=165
35mph, L=225
40mph, L=293

d = 460' FOR 30mph
= 565' FOR 35mph
= 670' FOR 40mph

d/4 = 115' FOR 30mph
= 141' FOR 35mph
= 168' FOR 40mph



LANE REDUCTION TRANSITION MARKING



LANE DROP - WHEN THRU LANE BECOMES MANDATORY TURN LANE

NO.	DATE:	REVISION	BY:	APP'D
1	01/30/12	UPDATE SPECIFICATIONS	KAP	LGV

DRAWN BY: K.PELTON
APP'D BY: Linda K. Vogt

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PAVEMENT MARKING

DATE:
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HTK ARCHITECTS PA
9300 W 110TH ST. STE. 150
OVERLAND PARK KANSAS 66210
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WWW.HTKARCHITECTS.NET

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Schmidt, Beck & Boyd
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DATE:
● 4-15-15

REVISED DATE:
●
●
●
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HTK PROJECT NUMBER:
● 1410.03

Department of Administration
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800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER
17300.000038
4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

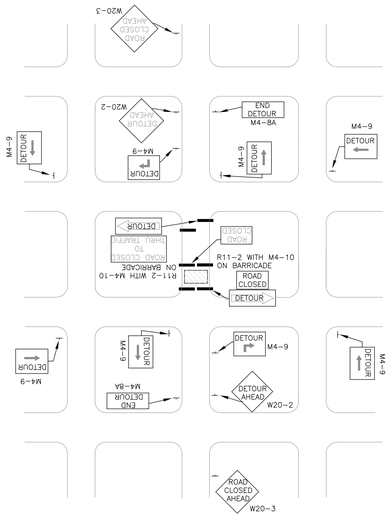
TRAFFIC CONTROL DETAILS I

A-012651

C402

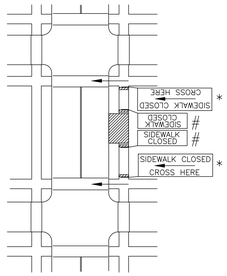
CONSTRUCTION DOCUMENTS

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2-2-2016
Att.9C--0018

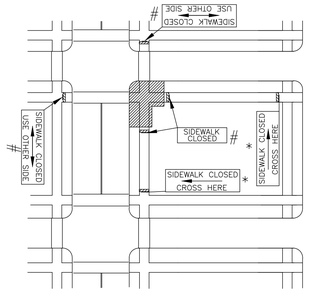


DETOUR SIGNING-STREET CONSTRUCTION IN A STREET GRID

STREET NAME SIGN (D-3) TO BE PLACED ABOVE THE DETOUR SIGN (M4-9) TO INDICATE THE NAME OF THE ROADWAY FOR WHICH THE DETOUR WAS ESTABLISHED.



MID-BLOCK SIDEWALK CLOSURE WITH PEDESTRIAN DETOUR



CORNER SIDEWALK CLOSURE WITH PEDESTRIAN DETOUR

* ADVANCE SIGNS TO BE PLACED ON TYPE I OR TYPE II BARRICADES. PLACE SO THAT AT LEAST 48" OF SIDEWALK IS AVAILABLE FOR PEDESTRIAN USE.

\# SIGNS TO BE PLACED ON CONTINUOUS DETECTABLE DEVICES. DEVICE CAN BE TYPE I, TYPE II, TYPE III OR OTHER TYPE WALLS OR RAILS AS PER MUTCD. THEY WILL HAVE ORANGE AND WHITE STRIPES. THE BOTTOM EDGING WILL BE AT LEAST 6 INCHES IN WIDTH AND PLACED A MAXIMUM OF 2 1/2 INCHES ABOVE THE SIDEWALK, SO AS TO BE DETECTABLE BY PEDESTRIANS WITH LONG CANE.

FORMULAS FOR DETERMINING TAPER LENGTH

SPEED (S)	TAPER LENGTH (L) IN FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	L = WS

WHERE: L = TAPER LENGTH IN FEET
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED LIMIT PRIOR TO WORK STARTING

SPEED LIMIT	TAPER (L)	SIGN SPACING (X)
20	80'	100'
25	125'	100'
30	180'	100'
35	245'	100'
40	320'	100'
45	540'	350'

BASED ON W=12'

EXCEPT AS NOTED (DOWNSTREAM TAPER, FLAGGER OPERATIONS, YIELD OPERATION), SPACE CHANNELIZER @ SPEED LIMIT. IF SPEED LIMIT IS 40mph SET DEVICES AT 40'.

GENERAL NOTES:

ALL DEVICES SHALL COMPLY WITH THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

72-HOUR NOTICE TO CITY IS REQUIRED BEFORE WORK IS STARTED. CONTACT 785-368-3842 FOR TRAFFIC DISRUPTION PERMIT.

72-HOUR NOTICE IS REQUIRED IF TRAFFIC SIGNALS ARE TO BE MODIFIED AS PART OF TRAFFIC CONTROL. CONTACT 785-368-3913.

UNLESS OTHERWISE NOTED, ALL TRAFFIC CONTROL DEVICES SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR.

SIGNS AND TRAFFIC CONTROL DEVICES NEED TO BE PROPERLY MAINTAINED FOR CLEANLINESS, VISIBILITY, AND CORRECT POSITIONING.

CONTRACTOR SHALL OBTAIN UTILITY LOCATES PRIOR TO INSTALLING SIGNPOSTS.

SIGNS LEFT IN PLACE THREE OR FEWER DAYS CAN BE MOUNTED AT ONE FOOT. SIGNS LEFT IN PLACE GREATER THAN THREE DAYS NEED TO BE MOUNTED AT SEVEN FEET. IF THERE ARE NO SIDEWALKS, NO PEDESTRIANS, AND NO PARKING, MOUNTING MOUNTING HEIGHT CAN BE REDUCED TO FIVE FEET. IF SECONDARY SIGN IS NEEDED MINIMUM MOUNTING HEIGHT MAY BE ONE FOOT LOWER.

ALL SIGNS SHALL TO BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC WHEN NOT IN USE.

CONTRACTOR MAY BE REQUIRED TO ADD SNOW FENCE TO PROHIBIT PEDESTRIANS FROM ENTERING THE WORK AREA. FENCING SHOULD NOT CREATE A SIGHT DISTANCE RESTRICTION FOR ROAD USERS.

ALL WORKERS SHALL WEAR HIGH VISIBILITY APPAREL MEETING ANSI 107-2004 CLASS 2 OR 3.

TRAFFIC CONTROL DEVICES SHALL MEET NCHRP REPORT 350 (AND SUPPLEMENTS) OR MASH 2009. NCHRP TESTED DEVICES ARE GRANDFATHERED. NEW DEVICES WILL BE MASH 2009 TESTED.

WHEN ROAD WORK CREATES A DIFFERENCE IN ELEVATION BETWEEN ADJACENT LANES THAT ARE OPEN TO TRAVEL, UNEVEN LANE SIGNS, (W8-11) 36"x36" SHALL BE ADDED. THEY SHALL BE PLACED AT BEGINNING AND AT INTERVALS EQUAL TO APPROXIMATELY 1000', BOTH DIRECTIONS IF APPLICABLE.

A BUMP SIGN (W8-1) 36"X36" SHALL BE INSTALLED TO GIVE WARNING OF A 2" OR MORE RISE OR DEPRESSION IN THE PROFILE OF THE ROADWAY. USE AT BEGINNING AND END OF MILLING EVEN IF WEDGE IS IN PLACE.

LEGEND

- = SIGN
- = TYPE III BARRICADE
- = REFLECTORIZED DRUMS OR FLUORESCENT ORANGE CONES OR SLIMLINE CHANNELIZERS
- = ARROW PANEL BOARD
- = WORK SPACE
- = FLAGGER

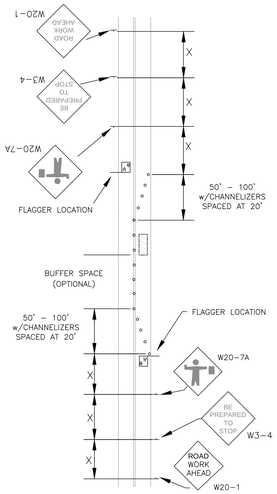
NO.	DATE:	REVISION	BY:	APP'D
2	02/27/12	ADD ADA DETECTABLE WARNING NOTES	KAP	LGV
1	01/30/12	UPDATE SPECIFICATIONS	KAP	LGV

DRAWN BY: K.PELTON
APP'D BY: Linda L. Vogt

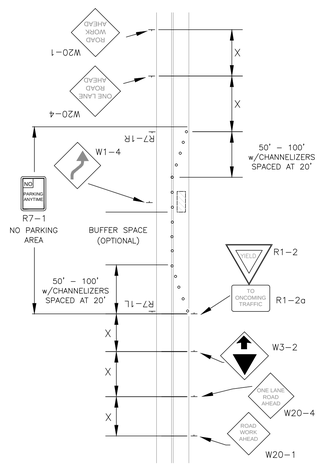
TOPEKA Public Works ENGINEERING
620 SE MADISON STREET - 2nd FLR. - TOPEKA, KS 66607
Phone: (785) 368-3842 - Fax: (785) 368-3881

TRAFFIC CONTROL

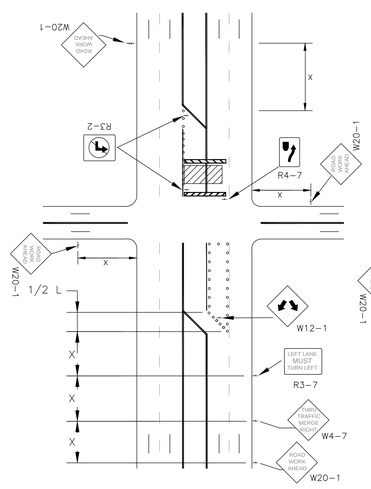
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PROJ.



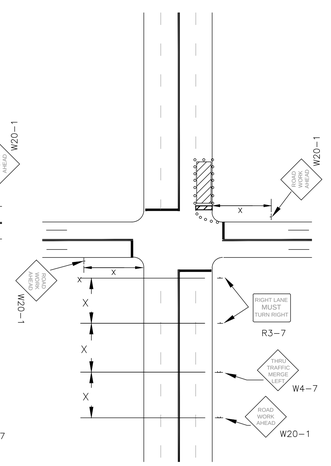
LANE CLOSURE ON TWO-LANE ROAD W/ FLAGGER, DAYTIME ONLY



LANE CLOSURE ON TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES (PRIOR APPROVAL REQUIRED)



MULTIPLE LANE CLOSURE AT AN INTERSECTION



RIGHT -HAND LANE CLOSURE ON THE FAR SIDE OF AN INTERSECTION

NO.	DATE:	REVISION	BY:	APP'D
1	01/30/12	UPDATE SPECIFICATIONS	KAP	LGV

DRAWN BY: K.PELTON
APP'D BY: Linda L. Vogt

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TRAFFIC CONTROL

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9300 S. KANSAS AVE.
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KANSAS
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SBB Schmidt, Beck & Boyd Engineering / Surveying
1415 SW Topeka Blvd.
Topeka, KS 66612
Ph: (785) 215-8630

DATE:
- 4-15-15

REVISED DATE:

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER
1730-00038
4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

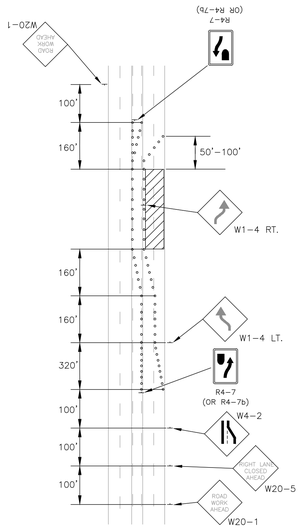
TRAFFIC CONTROL DETAILS II

A-012651

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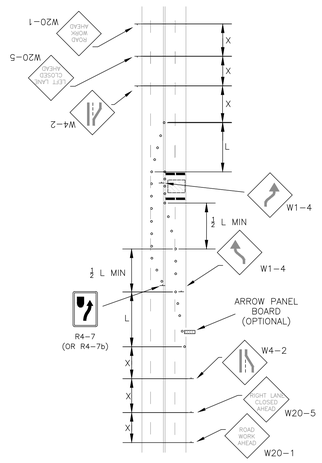
CONSTRUCTION DOCUMENTS

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2-2-2016
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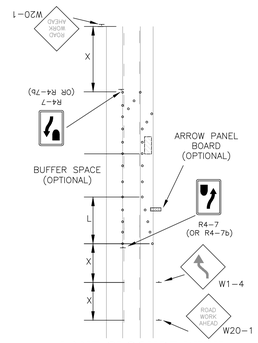


FIVE LANE ROADWAY
w/ TWO LANES CLOSED

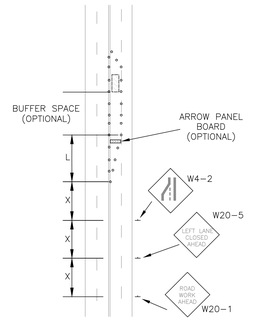
(BASED ON SPEED LIMIT OF 40mph
AND LANE WIDTH OF 12')



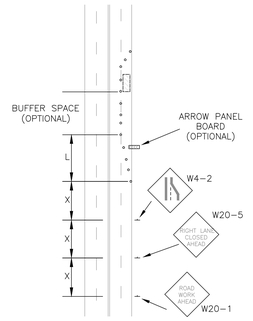
4-LANE UNDIVIDED ROADWAY-HALF
ROADWAY IS CLOSED



LANE CLOSURE WITH
TWO-WAY
LEFT TURN LANE



LEFT LANE CLOSURE
ON 4-LANE ROADWAY



RIGHT LANE CLOSURE
ON 4-LANE ROADWAY

1	01/30/12	UPDATE SPECIFICATIONS			KAP	LGV	
NO.	DATE:	REVISION			BY:	APP'D	

DRAWN BY: K.PELTON
APP'D BY: Linda K. Post

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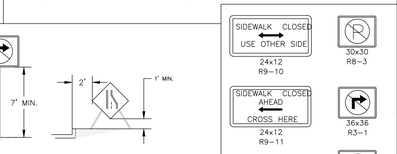
TRAFFIC CONTROL

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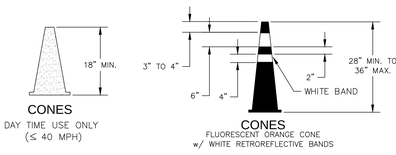
UNLESS OTHERWISE NOTED ALL WARNING SIGNS TO BE 36"x36"

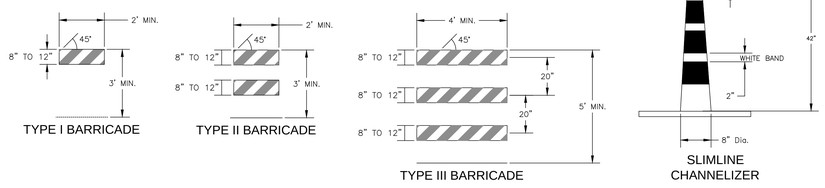






HEIGHT AND LOCATION OF SIGNS





RECAPITULATION OF
SIGNS, MARKINGS, BARRICADES.

SIGN NO.	SIZE	SQ. FT.	UNIT	TOTAL
W20-1	36x36		EACH	
W20-2	36x36		EACH	
W20-3	36x36		EACH	
W20-4	36x36		EACH	
W20-5	36x36		EACH	
W9-2	36x36		EACH	
W3-1a	36x36		EACH	
W12-1	30x30		EACH	
W1-3	36x36		EACH	
W1-4	36x36		EACH	
W4-2	36x36		EACH	
W20-7a	36x36		EACH	
R1-1	30x36		EACH	
R1-2	36x36x36		EACH	
R1-2aP	36x30		EACH	
W13-1P	24x24		EACH	
R11-4	60x30		EACH	
R7-1	12x18		EACH	
G20-2	36x18		EACH	
D-3	7x9		EACH	
DIRECTIONAL	30x9		EACH	
INFORMATIONAL	AS NEEDED		EACH	
R4-7	24x30		EACH	
R4-7b	24x30		EACH	
R4-7c	18x30		EACH	
R2-1	30x36		EACH	
R11-2	48x30		EACH	
R3-1	36x36		EACH	
R3-2	36x36		EACH	
R3-7	36x36		EACH	
R8-3	30x30		EACH	
R9-8	36x18		EACH	
R9-9	24x12		EACH	
R9-10	24x12		EACH	
R9-11	24x12		EACH	
R9-11a	24x12		EACH	
M4-8a	30x24		EACH	
M4-9 ADV.	30x24		EACH	
M4-9	30x24		EACH	
M4-10	48x18		EACH	
CONSTRUCTION BARRICADES TYPE I OR II			EACH	
CONSTRUCTION BARRICADES TYPE III			EACH	
REFLECTIVE DRUMS			EACH	
REFLECTIVE VERTICAL PANELS			EACH	
SEQUENCING ARROW PANEL BOARD			EACH	
			EACH	
			EACH	
			EACH	
			EACH	
			EACH	
			EACH	
			EACH	
			EACH	

1	01-30-12	UPDATE SPECIFICATIONS			KAP	LGV	
NO.	DATE:	REVISION			BY:	APP'D	

DRAWN BY: K.PELTON
APP'D BY: Linda K. Post

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TRAFFIC CONTROL

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STATE OF KANSAS
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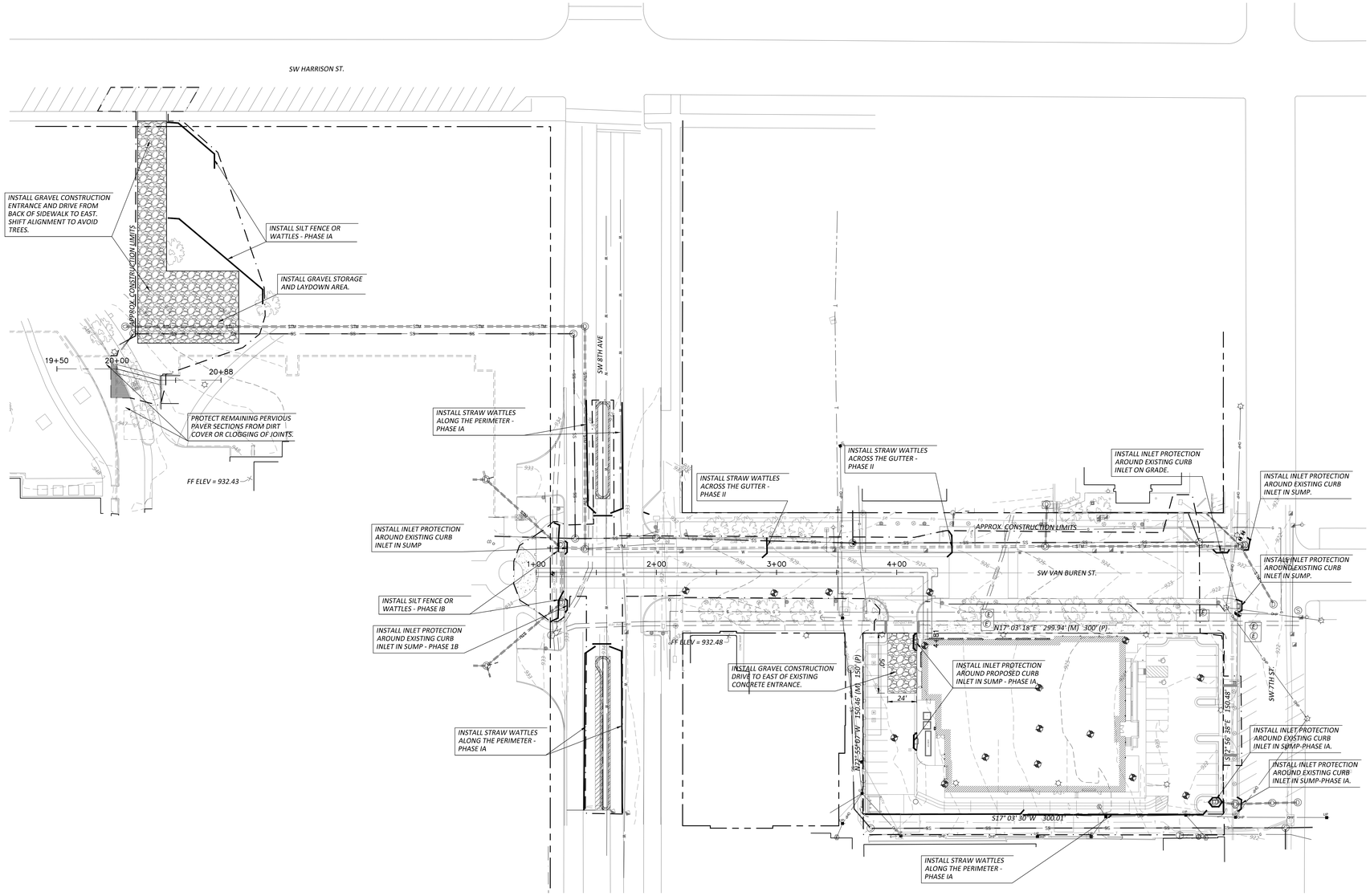
TRAFFIC CONTROL DETAILS III

A-012651

C404

CONSTRUCTION
DOCUMENTS

JCSBC
2-2-2016
Att.9C--0020



GENERAL NOTES:

1. THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY VARY FROM WHAT IS INDICATED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY OWNER TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WHETHER INDICATED OR NOT. NO EXCAVATION WILL BE PERMITTED IN THE AREA OF UNDERGROUND UTILITIES UNTIL ALL SUCH UTILITIES HAVE BEEN LOCATED AND IDENTIFIED TO THE SATISFACTION OF ALL PARTIES AND THEN ONLY WITH EXTREME CARE TO AVOID ANY POSSIBILITY OF DAMAGE TO THE UTILITY.

2. ALL DISTURBED AREAS THAT ARE NOT PAVED OR LANDSCAPED SHALL BE SEEDED, FERTILIZED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS.

EROSION CONTROL GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MONITORING AND MAINTAINING BEST MANAGEMENT PRACTICES (BMP'S) AT ALL TIMES DURING THE CONSTRUCTION ON THIS PROPERTY.

2. PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS, CONTRACTOR SHALL INSTALL PERIMETER WATTLES AND CONSTRUCTION ENTRANCE AS SHOWN ON THE PLAN. THE INLET PROTECTION AND ADDITIONAL WATTLES WITHIN WORK AREA SHALL BE INSTALLED IMMEDIATELY AFTER INSTALLATION OF THE INLETS AND COMPLETION OF ROUGH GRADING.

3. EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR NOT LESS THAN WEEKLY OR WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO SEDIMENT REMOVAL AND SILT FENCE REPAIR AND/OR REPLACEMENT.

4. CONTRACTOR SHALL CLEAR ALL SURROUNDING PARKING LOTS AND STREETS OF ANY TRACKED DEBRIS BY SWEEPING OR SCRAPING THE EXISTING PAVEMENT BY THE END OF EACH WORKDAY AND THE CONTRACTOR SHALL CLEAN UP SOIL WASHED OFF THE CONSTRUCTION SITE AFTER A STORM BY THE END OF THE NEXT WORKDAY.

5. DURING ALL SOIL DISTURBING ACTIVITIES, THE CONTRACTOR WILL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE THE TIME OF EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL.

6. CONTRACTOR SHALL KEEP A WRITTEN LOG OF WHEN CONSTRUCTION ACTIVITIES BEGIN, EROSION AND SEDIMENT CONTROLS ARE INSTALLED, INSPECTED AND REPAIRED.

7. EROSION AND SEDIMENT CONTROL MEASURES SHALL NOT BE REMOVED UNTIL GRASS COVER HAS BEEN ESTABLISHED OR AS DIRECTED BY ENGINEER.

8. ALL AREAS SHALL BE GRADED TO FINISHED GRADE PRIOR TO SEEDING AND MULCHING. ALL AREAS NOT PART OF THE HARDSCAPE OR OTHER NOTED LANDSCAPING SHALL BE PERMANENTLY SEEDED, FERTILIZED AND MULCHED.

9. ALL WATTLES SHALL BE STRAW WATTLE WS-12 AS MANUFACTURED BY NORTH AMERICAN GREEN, OR APPROVED EQUAL. THE WATTLES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR MAY USE WATTLES AND SILT FENCE INTERCHANGEABLY IN AREAS IDENTIFIED ON THE DRAWINGS.

10. THE CONTRACTOR HAS THE OPTION TO MODIFY THE LOCATION OF THE CONSTRUCTION ENTRANCE TO FIT THE PREFERRED WORK PATTERN.

WASTE DISPOSAL:

1. WASTE MATERIALS: ANY WASTE AND OTHER UNUSABLE MATERIALS WILL BE REMOVED FROM THE SITE ON A REGULAR BASIS AND PROPERLY DISPOSED OF IN AN APPROVED SITE.

2. CHEMICAL WASTE: ALL CHEMICAL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A TIGHTLY SEALED METAL OR OTHER CHEMICAL RESISTANT CONTAINER. THE CONTAINER WILL MEET ALL LOCAL AND ANY STATE SOLID WASTE MANAGEMENT REGULATIONS. THE WASTE MATERIALS AND ALL DISPOSABLE MATERIALS WILL BE TRANSPORTED TO A COMMERCIAL CHEMICAL DISPOSAL FACILITY CAPABLE OF EITHER RECYCLING OR PROPERLY DISPOSING OF THE POLLUTANTS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. THE STATE WASTE MANAGEMENT SECTION CONTACT NUMBER IS (785) 296-1600.

3. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS, SUCH AS OIL FILTERS, PETROLEUM PRODUCTS, EQUIPMENT MAINTENANCE FLUIDS AND PAINTS, SHALL NOT BE STORED ON SITE AND WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS. IF THERE ARE QUESTIONS REGARDING THE PROPER HANDLING OF HAZARDOUS WASTES THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT HAZARDOUS WASTE SECTION AT (785) 296-1600.

4. SANITARY WASTE: PORTABLE TOILET FACILITIES WILL BE PROVIDED ON THE PROJECT SITE AND SERVICED BY THE PROVIDER ON A REGULAR BASIS.

MATERIAL MANAGEMENT PRACTICES:

GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON-SITE DURING CONSTRUCTION.

1. ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN ORIGINAL CONTAINERS IF APPROPRIATE.

2. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABELS.

3. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

SPILL PREVENTION:

1. PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

2. FERTILIZERS: FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. FERTILIZER SHALL NOT BE STORED ON-SITE.

3. CONCRETE TRUCKS: CONCRETE TRUCKS ARE LIMITED TO A DESIGNATED AREA TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE. PROPER SIGNAGE SHALL BE INSTALLED AND MAINTAINED ON SITE DEFINING DIRECTIONS TO AND LOCATIONS OF THE SPECIFIED WASH OUT AREA. IF A WASH OUT AREA CANNOT BE DESIGNATED OR MAINTAINED ON SITE, CONCRETE WASH OUT AND DISPOSAL MAY BE PROHIBITED AT THE OWNERS DISCRETION.

Horz.: 1"=40'
0 40'

HTK ARCHITECTS PA
9300 W 110TH ST. STE. 150
OVERLAND PARK KANSAS 66210
P 913.663.5373
300 S. KANSAS AVE
TOPEKA KANSAS 66612
P 785.266.5373
WWW.HTKARCHITECTS.NET

KEVIN W. BECHTEL
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16259
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SBB
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1415 SW Topeka Blvd.
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DATE:
- 4-15-15

REVISED DATE:
-
-
-
-

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER
17300.00038

REV.:	CHECKED BY: Checker	DRAWN BY: Author	
			4-15-15

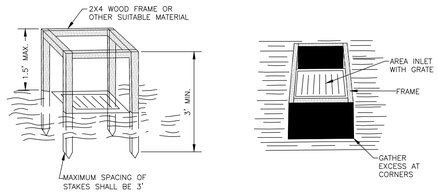
EROSION CONTROL PLAN

A-012651

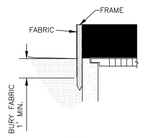
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CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
Att.9C.--0021



TOP VIEWS



PROFILE VIEW

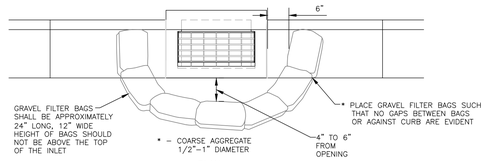
NOTES:
1. BASE OF FABRIC SHALL BE BURIED AT LEAST 1' BELOW GROUND SURFACE AND BACKFILLED WITH CRUSHED STONE OR COMPACTED MATERIAL.
2. WIRE MESH FENCE MAY BE USED TO SUPPORT FABRIC. TOP OF FENCE SHOULD BE LEVEL WITH FRAME AND BOTTOM BURIED 6" BELOW GROUND.
3. MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON DOWN-SLOPE SIDE OF STRUCTURE TO PREVENT BYPASS FLOW.
4. STRAW BALES OR GRAVEL FILLED FILTER BAGS MAY BE USED IN LIEU OF FABRIC. IF STRAW BALES ARE USED, TWO 4' (MINIMUM) LONG, 2" X 2" HARDWOOD STAKES SHALL BE DRIVEN THROUGH EACH BALE AND SET BACK 1'-2' TO 2'-4' FROM INLET. IF FILTER BAGS ARE USED, PLACE BAGS SUCH THAT NO GAPS ARE EVIDENT.

AREA INLET PROTECTION

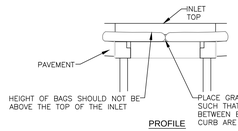
GENERAL NOTES:
1. ANY EROSION AND SEDIMENT CONTROL MEASURES INTENDED TO CONTROL EROSION OF AN EARTH DISTURBANCE OPERATION SHALL BE INSTALLED BEFORE ANY EARTH DISTURBANCE OPERATIONS TAKE PLACE.
2. THE CONTRACTOR SHALL INSPECT THE LAND DISTURBANCE SITE AFTER EACH SIGNIFICANT RAINFALL EVENT WITHIN A 24-HOUR PERIOD AND ASSURE THAT ALL EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING CONDITION PRIOR TO ANY FORECASTED RAINFALL. SEDIMENT REMOVAL AND ALL NECESSARY REPAIRS SHALL BE MADE TO MAINTAIN THE INTEGRITY OF THE EROSION AND SEDIMENT CONTROL MEASURES. SEDIMENT SHALL BE REMOVED ONCE IT REACHES HALF OF THE INSTALLED HEIGHT OF MEASURE.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING ALL PHASES OF CONSTRUCTION UNTIL OWNER ACCEPTS WORK AS COMPLETE. THE CONTRACTOR SHALL PROVIDE TEMPORARY SEEDING, BERMS, SILT FENCE, SEDIMENT TRAPS OR OTHER MEANS TO PREVENT SEDIMENT FROM REACHING STREAMS, PUBLIC RIGHT-OF-WAY OR ADJACENT PROPERTY.
4. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED ONCE 70 PERCENT OF THE PERMANENT COVER IS ESTABLISHED.
5. THE CONTRACTOR SHALL TEMPORARILY SEED AND MULCH ALL DISTURBED AREAS IF THERE HAS BEEN NO CONSTRUCTION ACTIVITY ON THEM FOR A PERIOD OF 14 CALENDAR DAYS. IF THE ENGINEER DETERMINES THAT A SITE HAS A POTENTIAL FOR EROSION, STABILIZATION OF SOIL MAY BE REQUIRED. TEMPORARY SEED MIXTURE SHALL BE APPROVED BY THE ENGINEER OR AS FOLLOWS:

TYPE:	APPLICATION RATE:
WINTER WHEAT	120 LBS PER ACRE
RYEGRASS	75 LBS PER ACRE

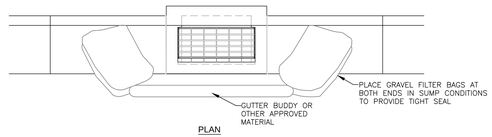
REPAIRS AND RESEEDING SHALL BE PERFORMED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER. IF VEGETATIVE MEASURES ARE NOT EFFECTIVE, NON-VEGETATIVE OPTION MAY BE REQUIRED.



PLAN

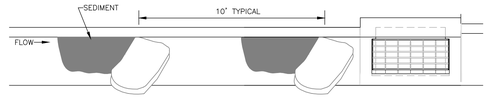


PROFILE



PLAN

SUMP CONDITIONS



PLAN

IN GRADE CONDITIONS

NOTES:
1. OTHER APPROVED CURB INLET SEDIMENT FILTERS MAY BE USED.
2. IMMEDIATELY FOLLOWING INLET CONSTRUCTION AND PRIOR TO CONSTRUCTION OF CURB AND INLET THROAT, PROTECT INLET OPENING BY INSTALLING A 2"X6" BOARD WRAPPED IN SILT FENCE AROUND PERIMETER. SEE AREA INLET DETAIL THIS PAGE.
3. CONTRACTOR TO CLEAN OUT SEDIMENT AFTER EACH SIGNIFICANT RAINFALL EVENT.
4. DURING CONSTRUCTION OF RESIDENTIAL SUBDIVISONS, GRAVEL FILTER BAGS SHALL BE REPLACED PRIOR TO DEGRADATION.
5. ANY SEDIMENT OR GRAVEL DEPOSITED IN INLET SHALL BE REMOVED PROMPTLY.

CURB INLET SEDIMENT PROTECTION

								DRAWN BY:	DHS
								APP'D BY:	JDH
1	March 2013	Revised notes			DHS	JDH			
NO.	DATE:	REVISION			BY:	APP'D			

SHAWNEE COUNTY, KANSAS
PUBLIC WORKS DEPARTMENT
COUNTY ENGINEER
1515 NW SALINE
TOPEKA, KS 66618
(785) 233-7702

TOPEKA Public Works ENGINEERING
620 SE MADISON St. ~ 2nd Floor ~ TOPEKA, KS 66607
Phone: (785) 368-3842 ~ Fax: (785) 368-3881

STANDARD DETAILS

EROSION & POLLUTION CONTROL
INLET PROTECTION AND GENERAL NOTES
(DT-020)

DATE: Month Year
SHEET: X of X
PROJ.: X-XXXXXX.XX

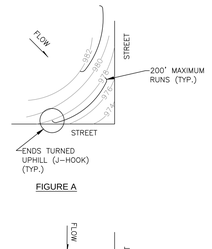


FIGURE A

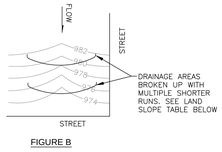
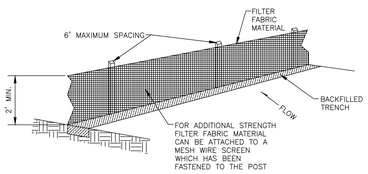
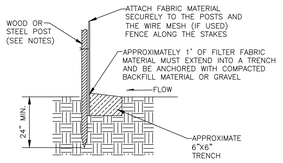


FIGURE B



PLAN



PROFILE

Land Slope and Distance for Sediment Fence

Land Slope (percent)	Maximum Slope Distance* above Fence (feet)
Less than 2	100
2 to 5	75
5 to 10, greater than 10	50*

*Follow manufacturers' recommendations for proper spacing.

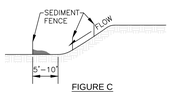
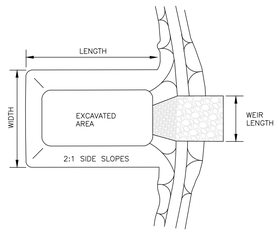


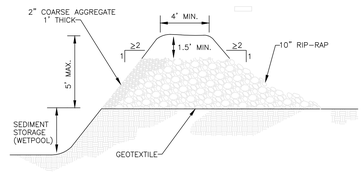
FIGURE C

NOTES:
1. THE USE OF HAY/STRAW BALES IS THE CONTRACTOR'S OPTION. IF HAY BALES ARE USED PLACE TIGHTLY TOGETHER WITH 2"X2"X4' (MIN.) LENGTH WOOD STAKES IN CENTER OF BALES. BALES SHOULD EMBEDDED INTO THE SOIL A MINIMUM OF 6" WITHIN A MAXIMUM DRAINAGE AREA OF 1 ACRE OR LESS.
2. THE SEDIMENT FENCES SHALL BE PLACED ALONG CONTOUR LINES, WITH A SHORT SECTION TURNED UPGRADE (J-HOOK) AT EACH END OF THE BARRIERS TO HOLD WATER AND SEDIMENT (SEE FIGURE A).
3. AREAS THAT CONTAIN LARGER CONCENTRATIONS OF WATER SHALL BE LIMITED TO LENGTHS OF SILT FENCES TO NO LONGER THAN 200' (SEE FIGURE A). LIMIT TO 1/4 ACRE PER 100' OF FENCE. FURTHER RESTRICT AREA BY LAND SLOPE TABLE ABOVE.
4. AREAS SHOULD BE BROKEN UP WITH INTERIOR SEDIMENT FENCE TO MINIMIZE WATER CONCENTRATIONS AND LONG SLOPES (SEE FIGURE B & C).
5. SEDIMENT FENCES INSTALLED AT TOE OF SLOPE SHALL BE PLACED 5' TO 10' AWAY (DOWNSTREAM) TO CREATE SEDIMENT STORAGE (SEE FIGURE C).
6. DEPTH OF WATER CONCENTRATIONS SHOULD NOT EXCEED 1.5' AT ANY POINT ALONG THE FENCE.
7. PLACE SILT FENCE ONLY WHERE OVERLAND OR SHEET FLOW DISCHARGES OCCUR.
8. SILT FENCES SHOULD NOT BE USED IN CONCENTRATED FLOW CHANNELS, OR AS INLET PROTECTION DEVICES IF FLOODING CONDITIONS COULD OCCUR.

SILT FENCE

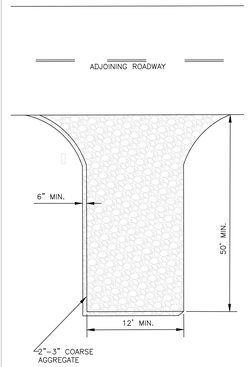


TOP VIEW



SIDE VIEW

SEDIMENT TRAP



NOTES:
1. GEOTEXTILE FABRIC MAY BE USED AS AN UNDERLINER IN WET CONDITIONS TO PROVIDE STABILITY.
2. PROVIDE SUFFICIENT WIDTH, LENGTH & TURNING RADIUS FOR CONSTRUCTION VEHICLES ENTERING & EXITING SITE.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF SEDIMENT ON TO STREETS AND KEEP THE ENTRANCE EFFECTIVE.
4. PROPERLY GRADE TO PREVENT RUNOFF FROM LEAVING CONSTRUCTION SITE THROUGH ENTRANCE/EXIT.

CONSTRUCTION ENTRANCE

								DRAWN BY:	DHS
								APP'D BY:	JDH
2	March 2013	Repl. Sed. Trap & Added Land Slope Table			DHS	JDH			
1	Dec. 2009	Modified stake depth & spacing			DHS	JDH			
NO.	DATE:	REVISION			BY:	APP'D			

SHAWNEE COUNTY, KANSAS
PUBLIC WORKS DEPARTMENT
COUNTY ENGINEER
1515 NW SALINE
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STANDARD DETAILS

EROSION & POLLUTION CONTROL
SILT FENCE,SEDIMENT TRAP AND CONSTRUCTION ENTRANCE
(DT-021)

DATE: Month Year
SHEET: X of X
PROJ.: X-XXXXXX.XX

HTK ARCHITECTS PA
9300 W 110TH ST. STE. 150
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SBB Schmidt, Beck & Boyd Engineering / Surveying
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DATE:
- 4-15-15

REVISED DATE:
-
-
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-

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER
17300.000038
4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

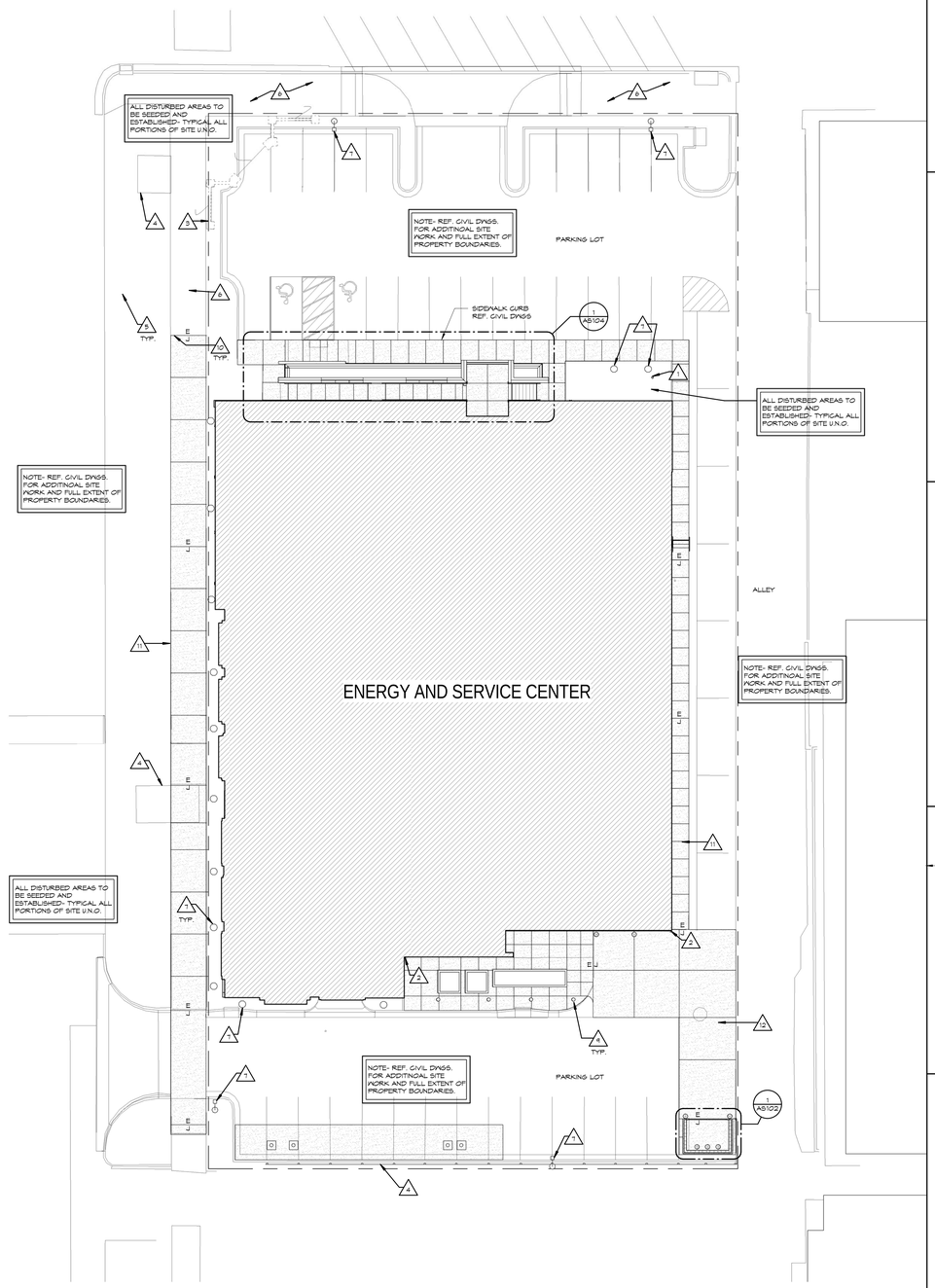
EROSION CONTROL DETAILS I

A-012651

C501

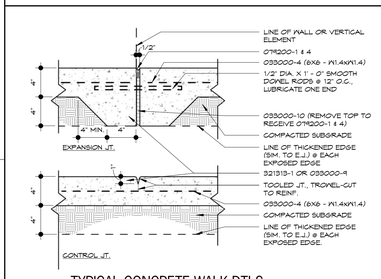
CONSTRUCTION DOCUMENTS

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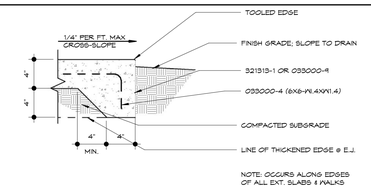


1 SITE PLAN
1/16" = 1'-0"

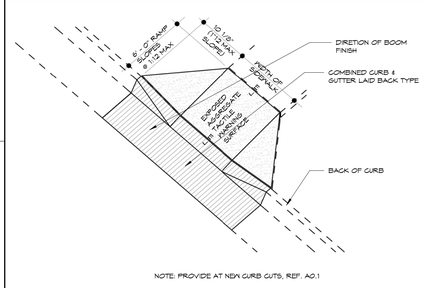
NORTH



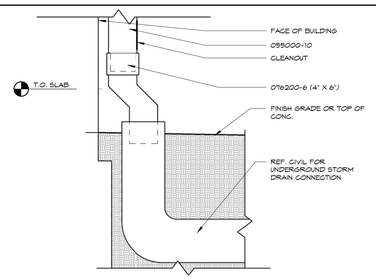
3 TYPICAL CONCRETE WALK DTLS.
1 1/2" = 1'-0"



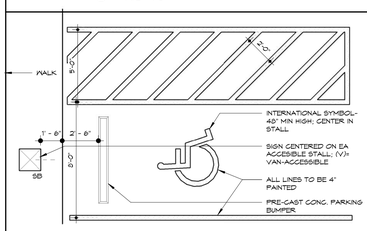
4 TYPICAL THICKENED EDGE
1 1/2" = 1'-0"



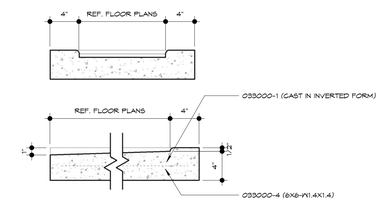
5 SIDEWALK HANDICAP RAMP
1 1/2" = 1'-0"



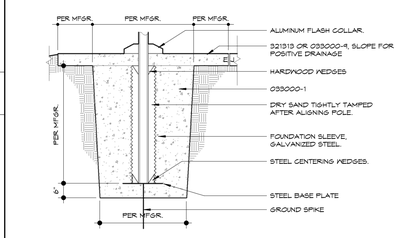
6 DOWNSPOUT BOOT
1 1/2" = 1'-0"



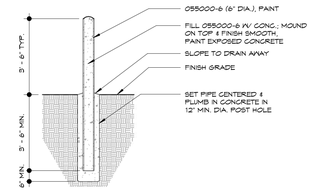
7 H.C. GRAPHICS / ACCESSIBLE PARKING
1/4" = 1'-0"



8 CONCRETE SPLASHBLOCK
1 1/2" = 1'-0"



9 FLAGPOLE BASE
1/2" = 1'-0"



10 STEEL BOLLARD
1 1/2" = 1'-0"

SITE PLAN NOTES

GENERAL: COORDINATE WITH WORK SHOWN ON STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, REF. TE SHEET FOR EQUIP. COORDINATION

1. LOCATION OF FLAGPOLE, 107500-1.
2. LOCATION OF DOWNSPOUT BOOT, REF. 6/AS101.
3. REMOVE EXISTING BRICK & WROUGHT IRON FENCE COMPLETELY, INCLUDING ELECTRICAL & FOOTINGS.
4. EXISTING GUARDRAIL TO REMAIN.
5. EXISTING TREE TO REMAIN. PROTECT DURING CONSTRUCTION.
6. EXISTING CONCRETE SIDEWALK TO REMAIN.
7. BUILDING LIGHTING REF. ELECT.
8. PROPERTY LINE REF. CIVIL DWGS.
9. BOLLARD REF. 10/AS101
10. EXPANSION JOINT REF. 3/AS101
11. CONCRETE SIDEWALK REF. 3/AS101
12. CONCRETE PAVEMENT REF. CIVIL DWGS.

GENERAL SITE NOTES

1) ALL UTILITY INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY ALL UTILITY DEPTHS & LOCATIONS PRIOR TO CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

2) ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS. GRADING PLAN REFLECTS TOP OF TURF OR PAVEMENT ELEVATIONS U.N.O.

3) AFTER CONSTRUCTION COMPLETION, STAGING, PARKING, AND STORE AREA SHALL BE RESTORED TO THE PRE-CONSTRUCTION CONDITIONS. ANY DAMAGE TO OR REMOVAL OF EXISTING CONDITIONS OCCURRING ON-SITE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

4) CARE SHALL BE EXERCISED TO PRESERVE AND/OR PROTECT EXISTING TREES AND VEGETATION OUTSIDE OF AREAS TO BE GRADED. ANY NECESSARY REPAIR OF THESE AREAS DAMAGED BY THE GENERAL CONTRACTOR AND/OR HIS ASSIGNEES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED TO THE SATISFACTION OF THE OWNER.

5) CONTRACTOR SHALL PROVIDE AND MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION.

6) THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR NECESSARY TO CONTROL EROSION, SILTATION AND DISCHARGES OF FILL MATERIAL (SEDIMENT) INTO DOWNSTREAM SYSTEMS OR RECEIVING CHANNELS. THIS SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION AND UNTIL SUITABLE GROUND COVER IS ESTABLISHED FOR ALL DISTURBED AREAS. IF ANY METHOD OF CONTROL FAILS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.

7) ALL METHODS AND MEANS OF CONSTRUCTION PERFORMED ON THIS PROJECT SHALL CONFORM TO THE DESIGN CRITERIA AND STANDARD TECHNICAL SPECIFICATIONS FOR THE CITY OF TOPEKA AND SHAWNEE COUNTY, KANSAS, CURRENT EDITION. THE MORE STRINGENT REQUIREMENT SHALL APPLY FOR DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE SAID SPECIFICATIONS.

8) ALL DISTURBED AREAS SHALL BE SEEDED, FERTILIZED AND MULCHED WITHIN 14 DAYS OF THE COMPLETION OF WORK IN EACH AREA IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

9) CONTRACTOR SHALL LIMIT SITE DISTURBANCE TO ALL PRACTICAL EXTENTS, TO THOSE AREAS SHOWN FOR CONSTRUCTION OPERATIONS.

10) OWNER SHALL PROVIDE REQUIRED GEOTECHNICAL MATERIALS AND CONSTRUCTION TESTING. CONTRACTOR SHALL COORDINATE WITH AND NOTIFY GEOTECHNICAL ENGINEER OF REQUIRED TESTING SCHEDULE.

11) SIX (6) FOOT CHAIN LINK PERIMETER FENCING AND ROCK SURFACING IS REQUIRED FOR ANY STORAGE, STAGING OR PARKING.

12) ALL DRIVE LANES ON THE SCHOOL CAMPUS, OUTSIDE OF THE AREA OF THE CONSTRUCTION FENCING SHALL BE KEPT CLEAR FOR SCHOOL TRAFFIC. THE SCHEDULE OF CONSTRUCTION DELIVERIES SHALL BE COORDINATED WITH THE OWNER IN ORDER TO AVOID BEFORE AND AFTER SCHOOL TRAFFIC.

13) ALL CONCRETE SIDEWALKS SHALL HAVE A SLOPE NO GREATER THAN 1:12.

HTK ARCHITECTS PA
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DATE:
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HTK PROJECT NUMBER:
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Department of Administration
Office of Facilities and
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800 SW Jackson, Suite 700
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Phone: 785-296-2459
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STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038
DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

ARCHITECTURAL SITE PLAN

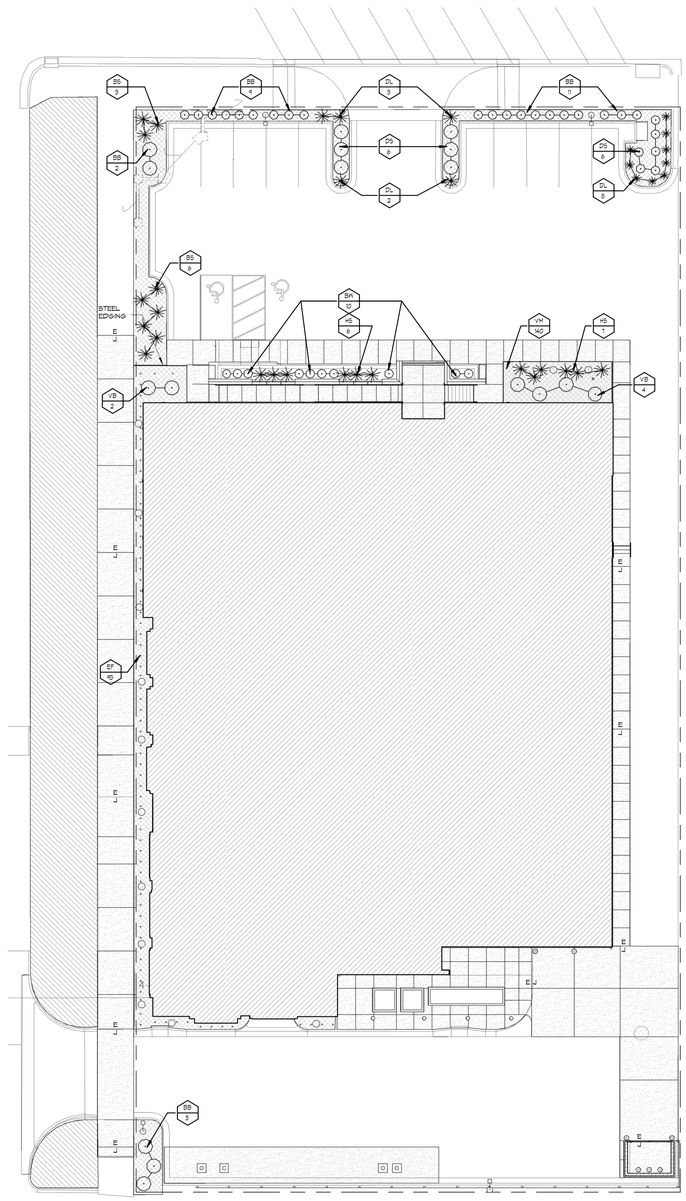
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CONSTRUCTION DOCUMENTS

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2-2-2016
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6 LANDSCAPING PLAN
1/16" = 1'-0"

NORTH

LANDSCAPE LEGEND

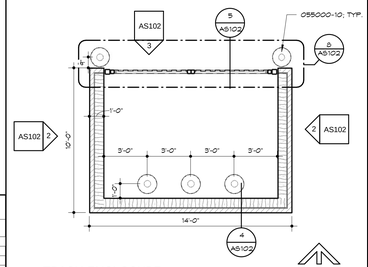
- EXISTING TREE TO REMAIN
- SHRUB TYPE 1
- SHRUB TYPE 2
- STEEL EDGING
- MULCH AND WEED MAT
- SEEDED GRASS
- GROUNDCOVER

PLANTING SCHEDULE

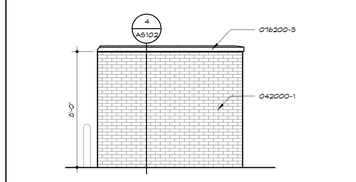
PLANT ABBREVIATION	QUANTITY	COMMON NAME	SIZE	SPACING
BB	25	Burning Bush "Dwarf Winged"	5 Gal.	4 Ft.
DS	12	Dwarf Spirea "Goldene Flame"	1 Gal.	3 Ft.
NB	6	Vibernum "Ann Russel"	5 Gal.	6 Ft.
SH	10	Boxwood "Garden Velvet"	2 Gal.	3 Ft.
DL	13	Daylily "Stella D Oro"	1 Gal.	3 Ft.
BS	9	Lord Snowdon "Big Blue Stem"	1 Gal.	3 Ft.
HS	13	Hosta "Sirko Craig"	1 Gal.	3 Ft.
EF	93	Euonymus Fortuni "Coloradus"	1 Gal.	3 Ft.
VM	140	Vinca Minor	4"	1 per 2 S.F.

LANDSCAPING NOTES

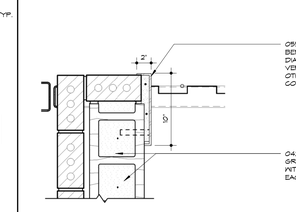
1) CONTRACTOR SHALL STAKE ALL PLANTING AREAS IN THE FIELD PRIOR TO PLANTING FOR APPROVAL OF ARCHITECT.
2) CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES PRIOR TO PLANTING. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH THE PLAN. PLAN QUANTITIES SHALL SUPERCEDED SHCEDULED QUANTITIES.
3) ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY AND SHALL COMPLY WITH THE RECOMMENDATIONS AND REQUIREMENTS OF ANSI A60.1 THE AMERICAN STANDARD FOR NURSERY STOCK.
4) ALL PLANTING BEDS SHALL BE EDGED WITH GREEN STEEL EDGING WHERE SHOWN.
5) PREPARE PLANTING BEDS AND INCORPORATE AMENDMENTS ACCORDING TO SPECIFICATIONS.
6) CYPRUS MULCH, PER SPECIFICATIONS, SHALL BE USED AS A THREE INCH (3") TOP DRESSING WITH COMMERCIAL GRADE WEED BARRIER UNDER; IN ALL PLANTING BEDS AND AROUND ALL TREES.
7) THE LANDSCAPE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL THE SITE IS FREE OF DEBRIS CAUSED BY ON-GOING CONSTRUCTION OPERATIONS. REMOVAL OF DEBRIS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. LANDSCAPE WORK SHALL NOT BEGIN UNTIL THE ARCHITECT HAS GIVEN WRITTEN APPROVAL FOR SUCH. THERE SHALL BE NO DELAYS DUE TO LACK OF COORDINATION FOR THIS ACTIVITY.
8) THE ARCHITECT SHALL APPROVE GRADES AND CONDITION OF SITE PRIOR TO SEEDING OPERATIONS.



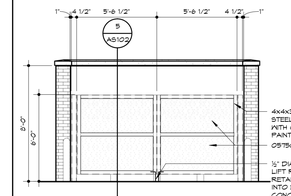
1 TRASH ENCLOSURE
1/4" = 1'-0"



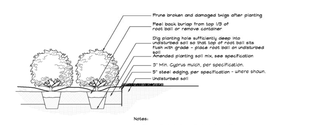
2 TRASH ENCLOSURE EAST/WEST ELEVATION
1/4" = 1'-0"



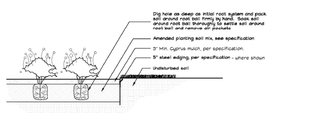
7 TRASH ENCLOSURE JAMB
1 1/2" = 1'-0"



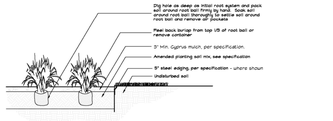
3 ENLARGED GATE ELEVATION
1/4" = 1'-0"



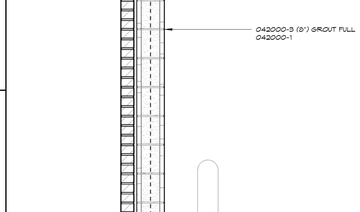
9 SHRUB INSTALLATION DETAIL
NOT TO SCALE



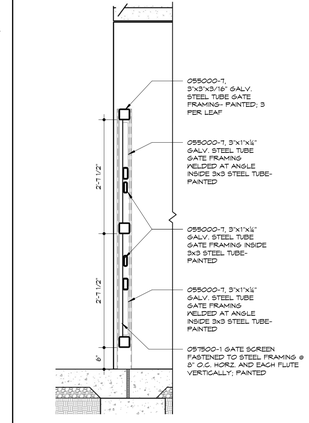
10 GROUNDCOVER & PERENNIAL PLANTING DETAIL
NOT TO SCALE



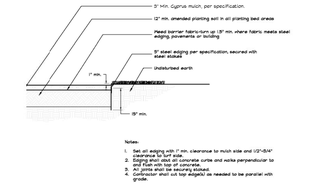
11 ORNAMENTAL GRASS PLANTING DETAIL
NOT TO SCALE



4 TRASH ENCLOSURE WALL SECTION
3/4" = 1'-0"

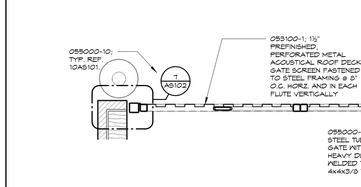


5 GATE SECTION
3/4" = 1'-0"



13 PLANT SPACING DIAGRAM
NOT TO SCALE

12 STEEL EDGING DETAIL
NOT TO SCALE



8 ENLARGED GATE PLAN
1/2" = 1'-0"

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PREGEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

NOTE: REFER TO ALL SECTIONS (SECTIONS LOCATED ON THIS SHEET, PREGEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

KEYNOTES

Note: Keynotes are drawn from a master list. A may not be sequentially numbered. Sizes (Ex. 2x4) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from scd. material specified.

033000	-1	Concrete Structure	081113	-1 Steel Door
	-2	Concrete Floor Slab		-2 Steel Frame
	-3	Vapor Barrier		-3 Frame Anchor
	-4	Welded Wire Fabric		-4 Louver
	-5	Steel Reinforcing Bar		-5 Plaster Guard
	-6	Rustication Joint		-6 FRP Door
	-7	Waterstop	081416	-1 Flush Wood Door
	-8	Expansion Anchor	083113	-1 Access Door
	-9	Sidewalk		-2 Access Door Frame
	-10	Premolded Joint Filler		-3 Floor Access Door
035000	-1	Concrete Topping	083323	-1 Overhead Coiling Door
042000	-1	Face Brick		-2 Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1 Sectional Overhead Door -2 Sectional Overhead Door Track
	-3	Concrete Masonry Unit - Lightweight (")		-3 Weatherstripping
	-4	Wire Reinforcing	084113	-1 Aluminum Entrance Door
	-5	Metal Tie/Anchor		-2 Aluminum Entrance Frame
	-6	Through Wall Flashing		-3 Sunshade
	-7	Control Joint Strip		-4 Aluminum Bubsill
	-8	Bond Beam (")	084413	-1 Glazed Aluminum Curtain Wall
	-9	Compressible Filler		-2 Trim
	-10	Grout		-3 Sunshade Louver
	-11	Cavity Drainage Material		-4 Aluminum Bubsill
	-12	Termination Bar		
044300	-1	Stone Masonry	087100	-1 Track Hardware
	-2	Anchor	088000	-1 Glazing (as scheduled)
	-3	Stone Jamb	088853	-1 Security Glazing (as scheduled)
	-4	Stone Sill		
	-5	Belt Course	089116	-1 Louvers and Vents
041200	-1	Cast Stone	092216	-1 Steel Stud (")
051200	-1	Steel Beams		-2 Steel Stud Runner (")
	-2	Steel Column		-3 Furring Channel (")
	-3	Steel Tube	092400	-1 Portland Cement Plastering
	-4	Steel Channel		-2 Metal Lath
052100	-1	Steel Joist		-3 Casing Bead
	-2	Joist - Extended End	092900	-1 Gypsum Board (")
	-3	Joist - Ceiling Extension		-2 Fire Rated Gypsum Board Partition
053100	-1	Steel Decking		
	-2	Steel Composite Decking		-3 Cementitious Tile Backer Panel
	-3	Flexible Closure Strips		
054000	-1	Structural Steel Joist		-4 Metal Suspension System
	-2	Structural Steel Studs		-5 Acoustical Sealant
	-3	'Z' Girt		-6 Acoustical Insulation (")
055000	-1	Steel Angle		-7 Metal Edge Trim
	-2	Steel Channel		-8 Auxiliary Supports Framing
	-3	Steel Lintel		-9 Metal Control Joint
	-4	Steel Pipe		-10 High Impact Gypsum Board
	-5	Steel Tube		-11 Concrete Interior Finishing Compound
	-6	Steel Plate		-12 Stiffener
	-7	Steel Ladder	093000	-1 Porcelain Wall Tile
	-8	Steel Bollard		-2 Tub Deck
055100	-1	Steel Stairs		-3 Shower Pan
	-2	Steel Pan Stringer		-4 Shower Pan Flashing
	-3	Steel Bolted Plate		-5 Porcelain Floor Tile (" x ")
055213	-1	Steel Pipe Handrail		
	-2	Steel Pipe Railings		-6 Tile Base
	-3	Steel Handrail Wall Bracket		-7 Tile Cap
	-4	Steel Rod		-8 Tile Edge
055300	-1	Steel Grating		-9 Setting Bed
	-2	Steel Frame		-10 Uncoupling water-proof membrane
057500	-1	Ornamental Metal Railings		
		Grille		-11 Ornamental Metal Stamped Grille
061053	-1	2x Wood Nailer (")	095113	-1 Acoustical Panel (" x ") (F = Fire Rated)
	-2	2x Wood Blocking (")		-2 Ceiling Suspension System
	-3	1x Wood Continuous (")		-3 Edge Mold Trim
	-4	Plywood (")		-4 Auxiliary Support Framing
	-5	4x6 Post		-5 Resilient Flooring
	-6	Sheathing (")	096813	-1 Resilient Wall Base
	-7	Interior Architectural Woodwork		-2 Edge Strip
	-8	High Pressured Laminate		-3 Tackle marring Surface
	-9	Cabinet Liner Laminate		-4 Resilient Stair Tread
	-10	Particle Board		-5 Resilient Stair Riser
	-11	Plywood		-6 Resilient Stringer Skirt
	-12	Trim Edge Molding		-7 Resilient Stringer Shim
	-13	Solid Wood Blocking		-8 Resilient Stair Nose
	-14	Hardwood	096813	-1 Carpet Tile
	-15	Steel Tube/Leg Frame	096900	-1 Access Flooring
	-16	Door Hinge	099113	-1 Exterior Painting
	-17	Door/Drawer Pull	099123	-1 Interior Painting
	-18	Magnetic Catch	099635	-1 Secondary Containment Coating System
	-19	Drawer	101400	-1 Signage
	-20	Shelf Supports	102113	-1 Toilet Partition
	-21	Countertop		-2 Shower Curtain
	-22	Solid-Surfacing Material	102213	-1 Wire Mesh Partitions
			102800	-1 Impact-Resistant Cornerguard
071113	-1	Bituminous Dampproofing	102800	-1 Tissue Dispenser
071326	-1	Self-Adhering Sheet Waterproofing		-2 Framed Mirror
				-3 Sanitary Napkin Disposer
072100	-1	Foundation Wall or under Slab Insulation (R-)		-4 Grab Bar
				-5 Shower Seat
	-2	Cavity Wall Insulation (R-)		-6 Shower Curtain Rod
	-3	Building Insulation - Unfaced (R-)		-7 Coat/Robe Hook
				-8 Shower Curtain
	-4	Building Insulation - Faced (R-)	104413	-1 Fire Extinguisher Cabinet
			104416	-1 Fire Extinguisher
	-5	Sill Sealer	105113	-1 Personnel Locker
	-6	Batt Insulation		-2 Locker
072726	-1	Fluid Applied Membrane Air Barrier	105500	-3 Bench
				-1 Pre- Manufactured Canopies
	-2	Flashing Tape		
074213	-1	Metal Wall Panel (Type 1)	107500	-1 Flagpole
	-2	Trim	122113	-1 Deterrent Spikes
	-3	2-Furring (")	122413	-1 Roller Window Shades
	-4	Metal Wall Panel (Type 2)	123600	-1 Spray Painting Booth
	-5	Metal Soffit Panel	142400	-1 Hydraulic Elevator
075425	-1	Thermoplastic Polyolefin (TPO) Roofing	311000	-1 Site Clearing
			312000	-1 Earth Moving
	-2	Roof Insulation Flat		-2 Interior Fill
	-3	Roof Insulation Tapered		-3 Exterior Fill
	-4	Roof Expansion Joint		-4 Granular Drainage Course
	-5	Coverboard		-5 Subbase Course
	-6	Walkway Protection Board	321313	-1 Concrete Paving
076200	-1	Sheet Metal Flashing and Counterflashing	334600	-1 Perforated Wall Pipe & Fittings
	-2	Pre-Finished Roof Edge		-2 Geotextile Filter Fabric (Fab/Sock)
	-3	Pre-Finished Coping		-3 Drainage Panel
	-4	Sheet Metal Reglet		
	-5	Sheet Metal Gutter		
	-6	Sheet Metal Downspout		
	-7	Sheet Metal Flashing		
077124	-1	Roof Expansion Joint		
077200	-1	Roof Hatch/Ladder		
078413	-1	Penetration Firestopping		
078445	-1	Joint Firestopping		
079200	-1	Sealant - Rake where required		
	-2	Joint Filler		
	-3	Gasket		
	-4	Backer Rod		
079500	-1	Expansion Control		

DATE:
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 173000038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

LANDSCAPE PLAN AND SITE DETAILS

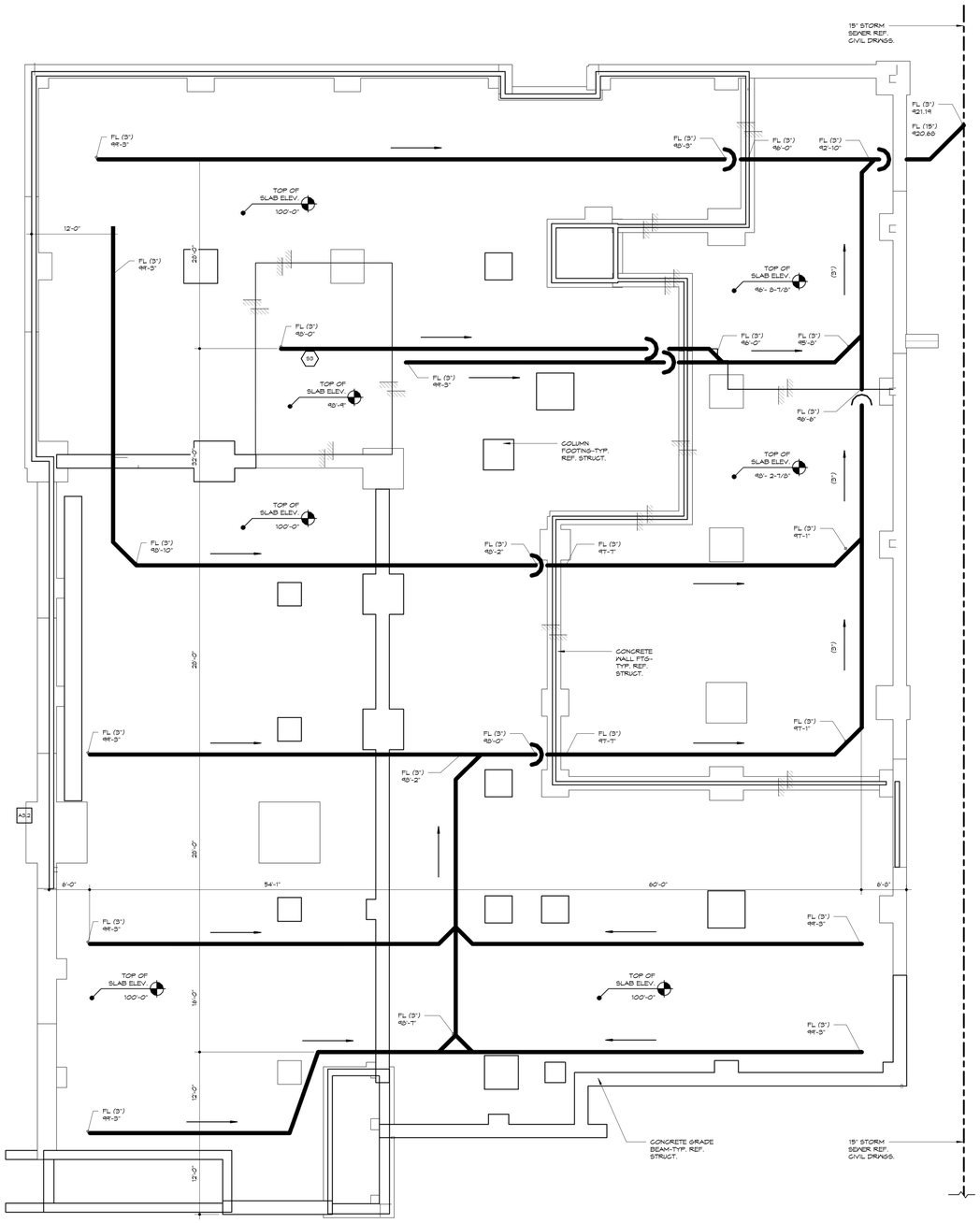
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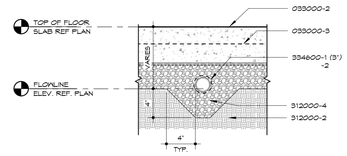
1 UNDERSLAB DRAINAGE SYSTEM

1/8" = 1'-0"

NORTH

DRAIN PLAN LEGEND

- LINE OF FLOOR ELEVATION CHANGE
- DIRECTION OF FLOW
- (_") UNDER FLOOR DRAIN LINE (3" DIA. TYPICAL U.N.O.)

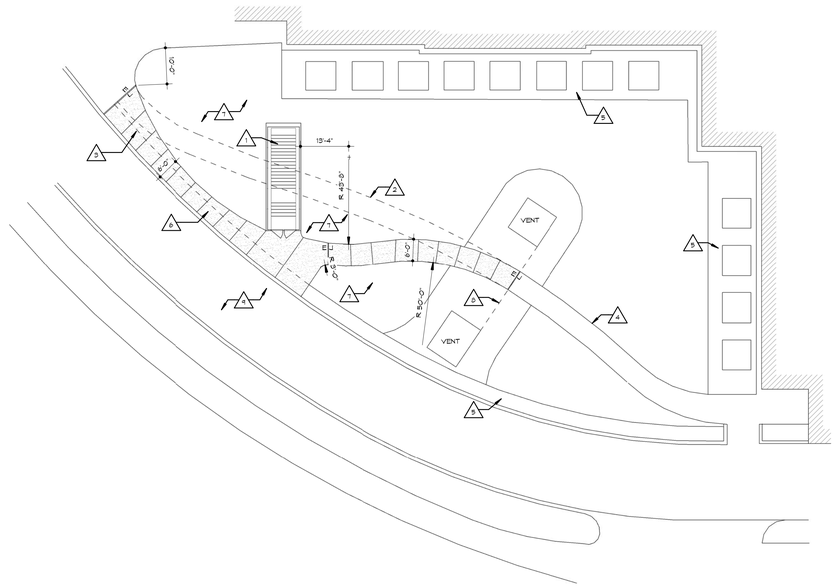


2 UNDER FLOOR DRAIN

1 1/2" = 1'-0"

CAPITAL STAIR SITE PLAN NOTES

1. NEW CAPITAL STAIRWAY.
2. EXISTING CONCRETE SIDEWALK TO BE REMOVED.
3. EXISTING PLANTING BED AND STEEL EDGING TO BE REMOVED.
4. EXISTING SIDEWALK TO REMAIN.
5. EXISTING PLANTING BED AND STEEL EDGING TO REMAIN.
6. NEW 4" CONCRETE SIDEWALK.
7. RESEED AND ESTABLISH ALL AREAS.
8. ALIGN NEW SIDEWALK WITH EXISTING VENT SHAFTS.
9. EXISTING DRIVE AND CURB.



3 CAPITAL STAIR SITE PLAN

1/16" = 1'-0"

NORTH

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

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DENNIS A. HAIGH LICENSED 4-15-15 2561 KANSAS PROFESSIONAL ARCHITECT

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STATE OF KANSAS
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BUILDING NUMBER 17300-0038

DRAWN BY: Author CHECKED BY: Checker REV:

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UNDERSLAB DRAINAGE

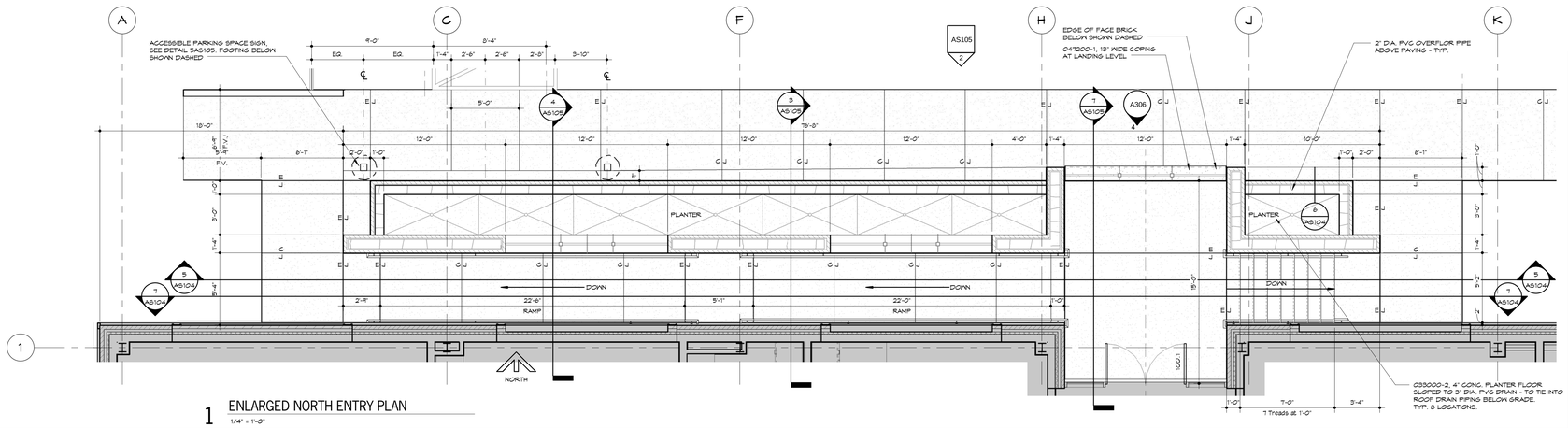
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AS103

CONSTRUCTION DOCUMENTS

4/16/2015 11:12:26 AM C:\Users\jms\Documents\REVIT\State of Kansas Energy_Central_jms.rvt

JCSBC
2-2-2016
Att.9C.--0025



1 ENLARGED NORTH ENTRY PLAN
1/4" = 1'-0"

GENERAL SITE NOTES

1) ALL UTILITY INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY ALL UTILITY DEPTHS & LOCATIONS PRIOR TO CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

2) ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS. GRADING PLAN REFLECTS TOP OF TURF OR PAVEMENT ELEVATIONS U.N.O.

3) AFTER CONSTRUCTION COMPLETION, STAGING, PARKING, AND STORAGE AREA SHALL BE RESTORED TO THE PRE-CONSTRUCTION CONDITIONS. ANY DAMAGE TO OR REMOVAL OF EXISTING CONDITIONS OCCURRING ON-SITE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

4) CARE SHALL BE EXERCISED TO PRESERVE AND/OR PROTECT EXISTING TREES AND VEGETATION OUTSIDE OF AREAS TO BE GRADED. ANY NECESSARY REPAIR OF THESE AREAS DAMAGED BY THE GENERAL CONTRACTOR AND/OR HIS ASSIGNEES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED TO THE SATISFACTION OF THE OWNER.

5) CONTRACTOR SHALL PROVIDE AND MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION.

6) THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR NECESSARY TO CONTROL EROSION, SILTATION AND DISCHARGES OF FILL MATERIAL (SEDIMENT) INTO DOWNSTREAM SYSTEMS OR RECEIVING CHANNELS. THIS SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION AND UNTIL SUITABLE GROUND COVER IS ESTABLISHED FOR ALL DISTURBED AREAS. IF ANY METHOD OF CONTROL FAILS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.

7) ALL METHODS AND MEANS OF CONSTRUCTION PERFORMED ON THIS PROJECT SHALL CONFORM TO THE DESIGN CRITERIA AND STANDARD TECHNICAL SPECIFICATIONS FOR THE CITY OF TOPEKA AND SHAWNEE COUNTY, KANSAS, CURRENT EDITION. THE MORE STRINGENT REQUIREMENT SHALL APPLY FOR DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE SAID SPECIFICATIONS.

8) ALL DISTURBED AREAS SHALL BE SEEDED, FERTILIZED AND MULCHED WITHIN 14 DAYS OF THE COMPLETION OF WORK IN EACH AREA IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

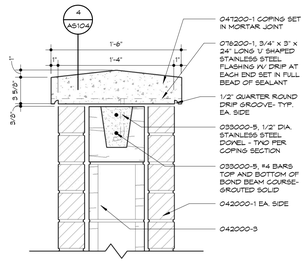
9) CONTRACTOR SHALL LIMIT SITE DISTURBANCE TO ALL PRACTICAL EXTENTS, TO THOSE AREAS SHOWN FOR CONSTRUCTION OPERATIONS.

10) OWNER SHALL PROVIDE REQUIRED GEOTECHNICAL MATERIALS AND CONSTRUCTION TESTING. CONTRACTOR SHALL COORDINATE WITH AND NOTIFY GEOTECHNICAL ENGINEER OF REQUIRED TESTING SCHEDULE.

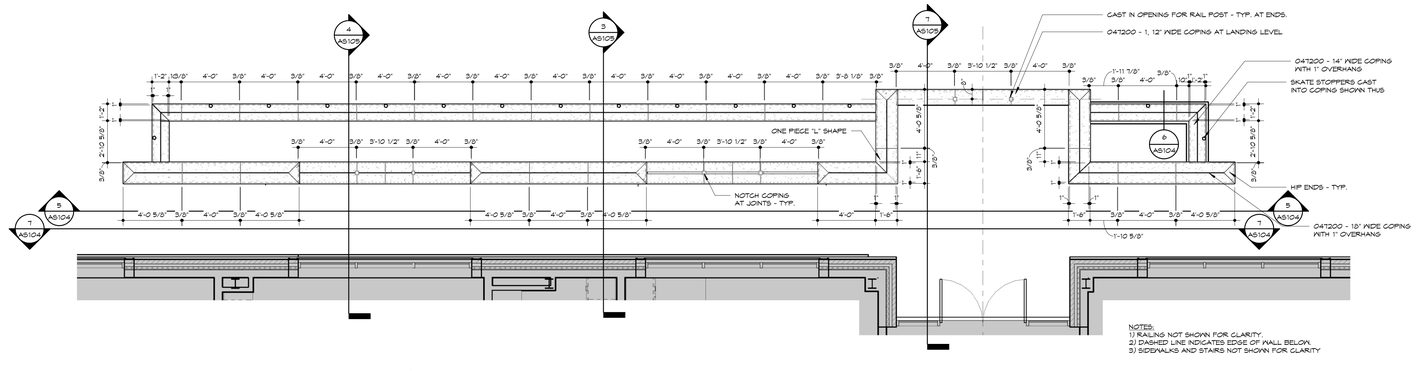
11) SIX (6) FOOT CHAIN LINK PERIMETER FENCING AND ROCK SURFACING IS REQUIRED FOR ANY STORAGE, STAGING OR PARKING.

12) ALL DRIVE LANES ON THE SCHOOL CAMPUS, OUTSIDE OF THE AREA OF THE CONSTRUCTION FENCING SHALL BE KEPT CLEAR FOR SCHOOL TRAFFIC. THE SCHEDULE OF CONSTRUCTION DELIVERIES SHALL BE COORDINATED WITH THE OWNER IN ORDER TO AVOID BEFORE AND AFTER SCHOOL TRAFFIC.

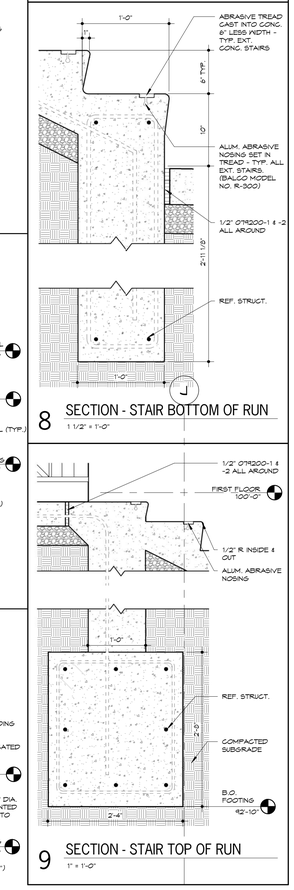
13) ALL CONCRETE SIDEWALKS SHALL HAVE A SLOPE NO GREATER THAN 1:12.



2 WALL PRECAST COPING
1 1/2" = 1'-0"

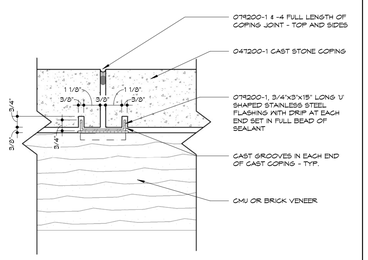


3 ENLARGED NORTH ENTRY COPING PLAN
1/4" = 1'-0"

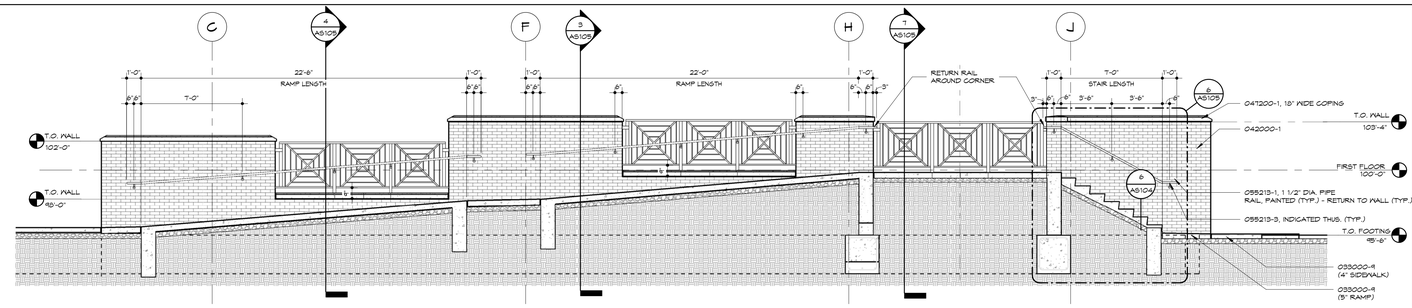


8 SECTION - STAIR BOTTOM OF RUN
1 1/2" = 1'-0"

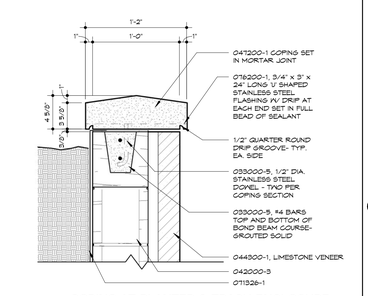
9 SECTION - STAIR TOP OF RUN
1" = 1'-0"



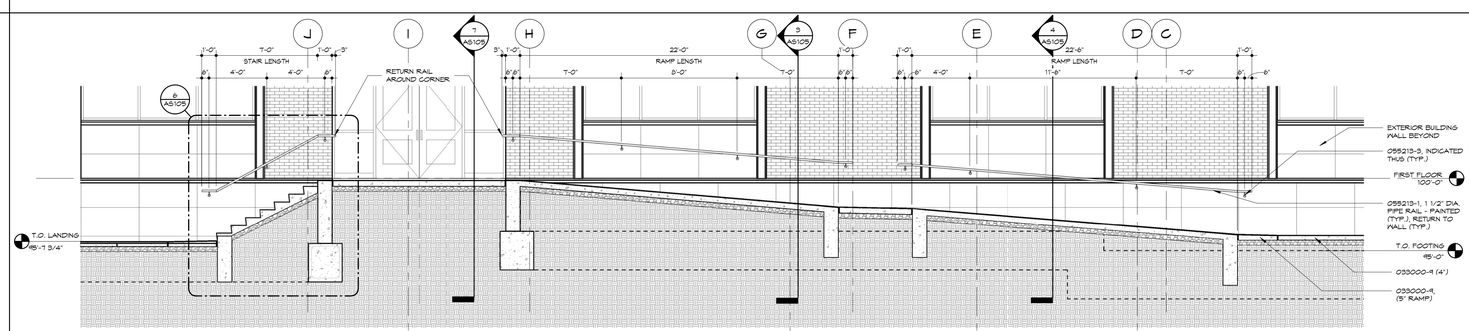
4 COPING FLASHING SECTION
3" = 1'-0"



5 STAIR / LANDING / RAMP SECTION
1/4" = 1'-0"



6 COPING AT PLANTER & TRASH ENCLOSURE
1 1/2" = 1'-0"



7 STAIR / LANDING / RAMP SECTION
1/4" = 1'-0"

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DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 173000038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

NORTH ENTRY PLANS AND DETAILS

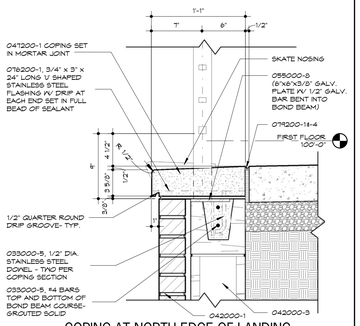
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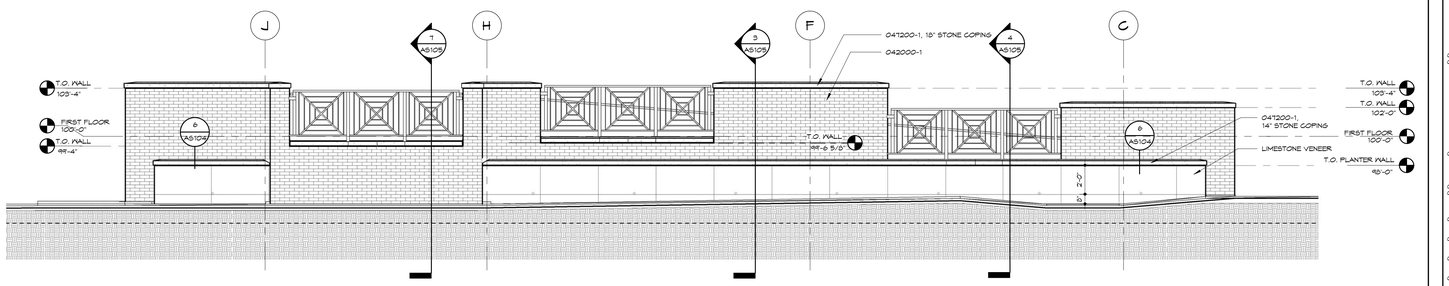
CONSTRUCTION DOCUMENTS

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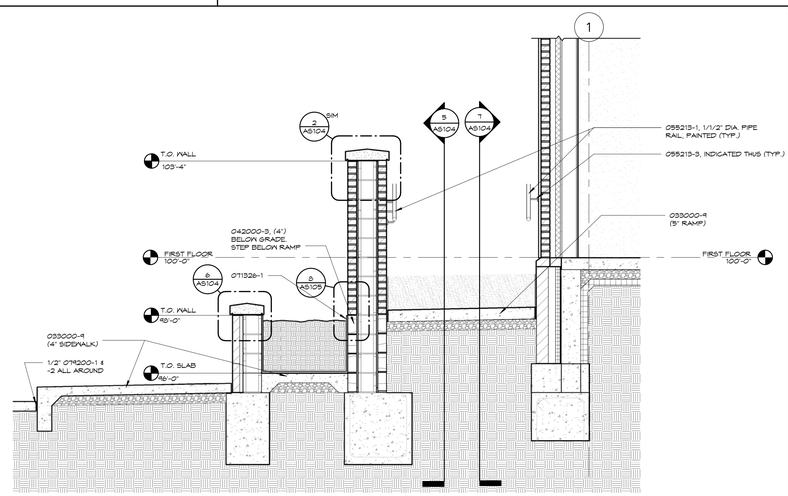
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2-2-2016
Att.9C--0026



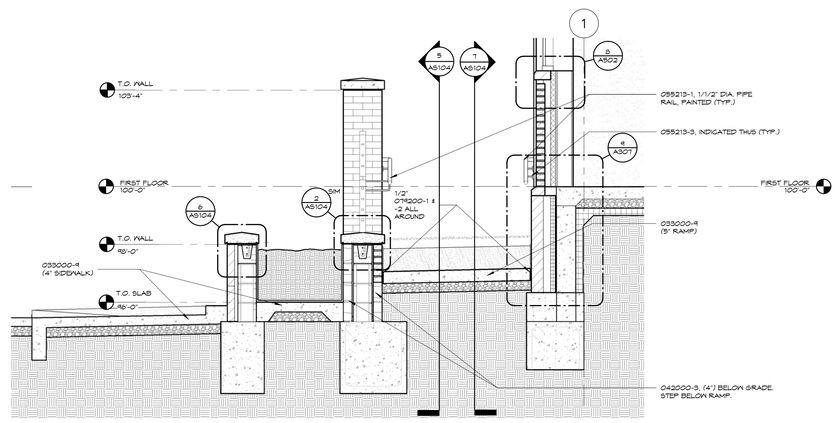
1 COPING AT NORTH EDGE OF LANDING
1 1/2" = 1'-0"



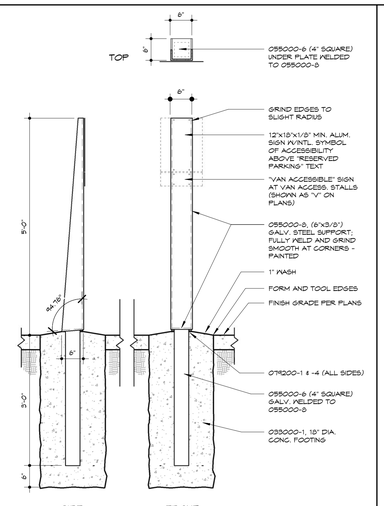
2 NORTH EXTERIOR ENTRY ELEVATION
1/4" = 1'-0"



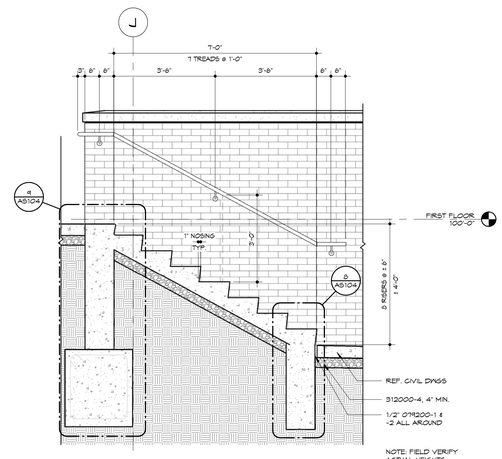
3 EXTERIOR RAMP SECTION AT WALL
1/2" = 1'-0"



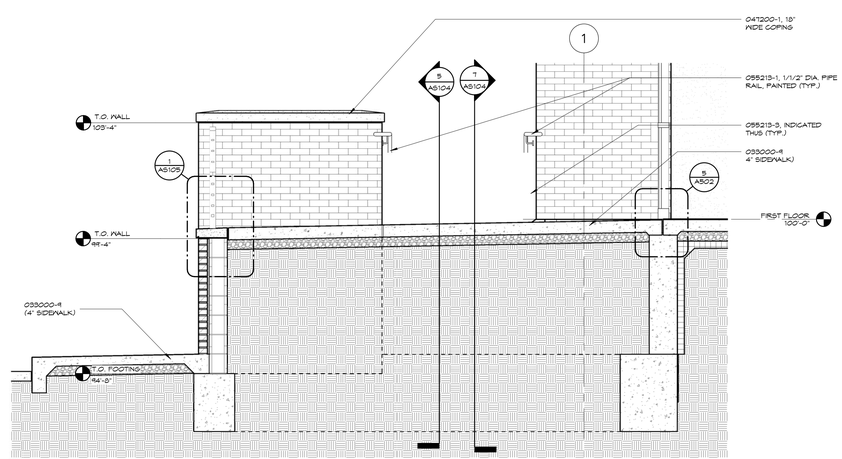
4 EXTERIOR RAMP SECTION AT RAIL
1/2" = 1'-0"



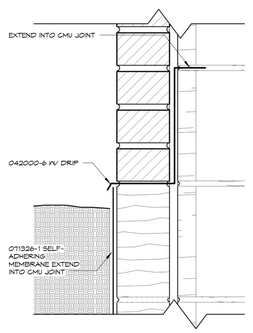
5 ACCESSIBLE PARKING SIGN
3/4" = 1'-0"



6 EXTERIOR STAIR
1/2" = 1'-0"



7 EXTERIOR SECTION AT TOP OF STAIR/RAMP
1/2" = 1'-0"



8 FLASHING DETAIL
3" = 1'-0"

KEYNOTES

Note: Keynotes are drawn from a master list; it may not be sequentially numbered. Sizes (Ex. 2x4) or other info following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

033000	-1	Concrete Structure	081113	-1 Steel Door
	-2	Concrete Floor Slab		-2 Steel Frame
	-3	Vapor Barrier		-3 Frame Anchor
	-4	Welded Wire Fabric		-4 Louver
	-5	Steel Reinforcing Bar		-5 Fixed Louver Guard
	-6	Reticulation Joint		-6 FPR Door
	-7	Dowel Sleeve	081416	-1 Flush Wood Door
	-8	Dovetail Anchor	083113	-1 Access Door
	-9	Sidewalk		-2 Access Door Frame
	-10	Premolded Joint Filler		-3 Floor Access Door
035000	-1	Concrete Topping	083323	-1 Overhead Coiling Door
042000	-1	Face Brick		-2 Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1 Sectional Overhead Door
	-3	Concrete Masonry Unit - Lightweight (")		-2 Sectional Overhead Door Track
	-4	Wire Reinforcing	084113	-1 Weatherstripping
	-5	Metal Tie/Anchor		-1 Aluminum Entrance Door
	-6	Through Wall Flashing		-2 Aluminum Entrance Frame
	-7	Control Joint Strip		-3 Sunshade
	-8	Bond Beam (")		-4 Aluminum Sunsill
	-9	Compressible Filler	084413	-1 Glazed Aluminum Curtain Wall
	-10	Sealant		-2 Threshold
	-11	Cavity Drainage Material		-3 Sunshade Louver
	-12	Termination Bar		-4 Aluminum Sunsill
044300	-1	Stone Masonry	087100	-1 Track Hardware
	-2	Anchor	088000	-1 Glazing (as scheduled)
	-3	Stone Jamb	088085	-1 Security Glazing (as scheduled)
	-4	Stone Sill		
	-5	Belt Course	089116	-1 Louvers and Vents
047200	-1	Cast Stone	095216	-1 Steel Stud (")
051200	-1	Steel Beams		-2 Steel Stud Runner (")
	-2	Steel Column		-3 Furring Channel (")
	-3	Steel Tube	092400	-1 Portland Cement Plastering
	-4	Steel Channel		-2 Metal Lath
052100	-1	Steel Joist		-3 Casing Bead
	-2	Joist - Extended End	092900	-1 Gypsum Board (")
	-3	Joist - Ceiling Extension		-2 Fire Rated Gypsum Board
053100	-1	Metal Decking		-3 Cementitious Tile Backer Panel
	-2	Steel Composite Decking		
	-3	Flexible Closure Strips		
054000	-1	Structural Steel Studs		-4 Metal Suspension System
	-2	Structural Steel Joists		-5 Acoustical Sealant
	-3	'C' Column		-6 Acoustical Insulation (")
055000	-1	Steel Angle		-1 Metal Edge Trim
	-4	Steel Channel		-2 Auxiliary Supports Framing
	-5	Steel Lintel		-4 Metal Control Joint
	-6	Steel Pipe		-10 High Impact Gypsum Board
	-7	Steel Tube		-11 Concrete Interior Finishing Compound
	-8	Steel Plate		
	-9	Steel Ladder		-12 Stiffener
	-10	Steel Bollard	093000	-1 Porcelain Pell Tile
055100	-1	Steel Stairs		-2 Trench
	-2	Steel Pan Stringer		-3 Shower Pan
	-3	Steel Embed Plate		-4 Shower Pan Flashing
055213	-1	Steel Pipe Handrail		-4 Porcelain Floor Tile (" x ")
	-2	Steel Pipe Railings		
	-3	Steel Handrail Wall Bracket		-5 Tile Base
	-4	Steel Rod		-6 Tile Cap
055300	-1	Steel Grating		-1 Setting Bed
	-2	Steel Frame		-9 Uncoupling water-proof membrane
057300	-1	Decorative Metal Railings		
057500	-1	Ornamental Metal Stamped Grille		-4 Shower Splashguard
				-10 Shower Niche
061093	-1	2x Wood Nailer (")	095113	-1 Acoustical Panel (" x ") (F = Fire Rated)
	-2	2x Wood Blocking (")		
	-3	1x Wood Continuous (")		-2 Ceiling Suspension System
	-4	Plywood (")		-3 Edge Mold Trim
	-5	CDX Ply		-4 Auxiliary Support Framing
	-6	Sheathing (")	096813	-1 Resilient Tile Flooring
	-7	Breathing (")		-2 Resilient Wall Base
064116	-1	Interior Architectural Woodwork		-3 Edge Strip
				-4 Tactile Warning Surface
	-2	High Pressure Laminate		-5 Resilient Stair Tread
	-3	Cabinet Liner Laminate		-6 Resilient Stair Riser
	-4	Particle Board		-7 Resilient Stringer Skirt
	-5	Plywood		-8 Resilient Stair Nose
	-6	3mm Edge Molding	096813	-1 Carpet Tile
	-7	Solid Wood Blocking	096900	-1 Access Flooring
	-8	Hardwood	099113	-1 Exterior Painting
	-9	Steel Tube/Leg Frame	099123	-1 Interior Painting
	-10	Door Hinge	099635	-1 Secondary Containment Coating System
	-11	Door/Drawer Pull		
	-12	Magnetic Catch	101400	-1 Signage
	-13	Shelf	102113	-1 Toilet Partition
	-14	Shelf Supports		-2 Toilet Screen
	-15	Countertop	102213	-1 Wire Mesh Partitions
	-16	Solid-surfacing Material	102600	-1 Impact-Resistant Cornerguard
071113	-1	Bituminous Dampproofing	102800	-1 Tissue Dispenser
071326	-1	Self-Adhering Sheet Waterproofing		-2 Framed Mirror
072100	-1	Foundation Pell or Under Slab Insulation (R-)		-3 Sanitary Napkin Disposer
	-2	Cavity Wall Insulation (R-)		-4 Grab Bar
	-3	Building Insulation - Unfaced (R-)		-5 Shower Seat
	-4	Building Insulation - Faced (R-)	104413	-6 Shower Curtain Rod
	-5	Sill Sealer	104416	-1 Coat/Robe Hook
	-6	Batt Insulation	105113	-1 Shower Curtain
072126	-1	Fluid Applied Membrane Air Barrier	105500	-1 Fire Extinguisher Cabinet
	-2	Flashing Tape		-1 Fire Extinguisher
074213	-1	Metal Pell Panel (Type 1)	107500	-1 Personnel Locker
	-2	Trim	108113	-1 Locker
	-3	Z-Furring (")	122413	-2 Bench
	-4	Metal Pell Panel (Type 2)	133600	-1 Pre- Manufactured Canopies
	-5	Metal Soffit Panel	142400	-1 Flagpole
075420	-1	Thermoplastic Polyolefin (TPO) Roofing	312000	-1 Deterrent Spikes
	-2	Roof Insulation Flat		-1 Roller Window Shades
	-3	Roof Insulation Tapered		-1 Spray Painting Booth
	-4	Roof Expansion Joint		-1 Hydraulic Elevator
	-5	Coverboard		-1 Silo Cleaning
	-6	Walkway Protection Board		-1 Earth Moving
	-7	Sheet Metal Flashing and Counterflashing		-2 Interior Fill
	-8	Sheet Metal Downspout		-3 Exterior Fill
	-1	Sheet Metal Scupper		-4 Granular Drainage Course
077124	-1	Roof Expansion Joint		-5 Subbase Course
077200	-1	Roof Hatch/Ladder		-6 Concrete Paving
078413	-1	Penetration Firestopping		-1 Perforated Pell Pipe 4 Fittings
078443	-1	Joint Firestopping		-2 Geotextile Filter Fabric (Flat/Sock)
079200	-1	Sealant - Rake where required		-3 Drainage Panel
	-2	Joint Filler		
	-3	Backer Rod		
	-4	Backer Rod		
079500	-1	Expansion Control		

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

NOTE: REFER TO ALL SECTIONS (SECTIONS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

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DENNIS A. HAIGH, 4-15-15, LICENSED, 2561, KANSAS, PROFESSIONAL ARCHITECT

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
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Department of Administration
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Topeka, Kansas 66612-1216
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 173000-0038
DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

ARCHITECTURAL SITE PLAN ELEVATIONS & DETAILS

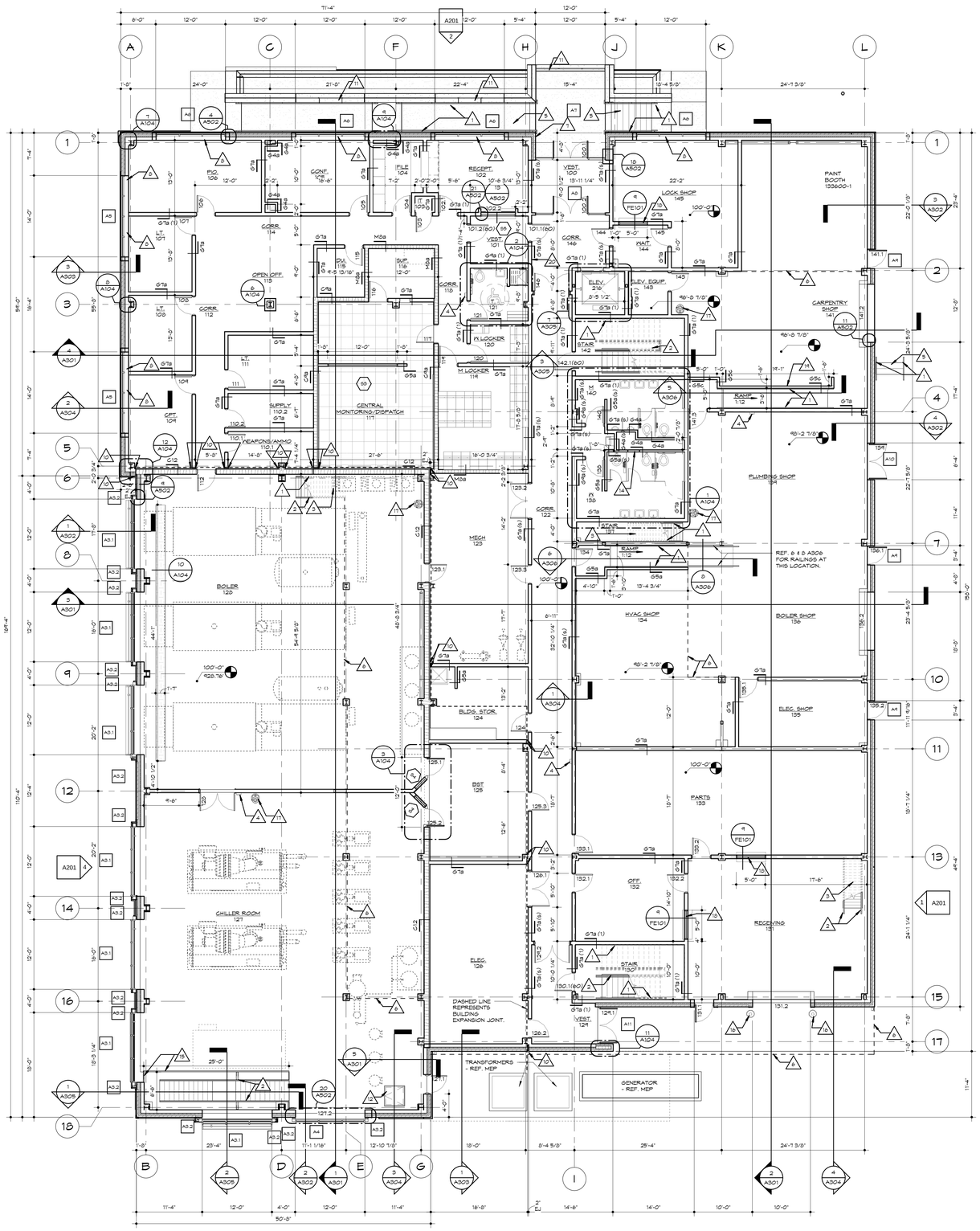
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AS105

CONSTRUCTION DOCUMENTS

4/16/2015 11:12:50 AM C:\Users\jms\Documents\REVIT\State of Kansas Energy_Central_jms.rvt

JCSBC
2-2-2016
Att.9C.--0027



1 FIRST FLOOR
1/8" = 1'-0"

NORTH

ROOM FINISH SCHEDULE-FIRST FLOOR

ROOM MARK	ROOM NAME	FLOOR	BASE	WALLS NORTH (or TYP)	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	NO TES
100	VEST.	MOM	RB	LTX	LTX	LTX	LTX	TYPE 1	
101	VEST.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
102	RECEPT.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
103	IT	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
104	FILE	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
105	CONF.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
106	PIO.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
107	LT.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
108	LT.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
109	OPT.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
110.1	WEAPONS/AMMO	SC	RB	LTX	LTX	LTX	LTX	TYPE 1	
110.2	SUPPLY	SC	RB	LTX	LTX	LTX	LTX	TYPE 1	
111	LT.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
112	CORR.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
113	OPEN OFF.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
114	CORR.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
115	DUI.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
116	SUP.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
117	CENTRAL MONITORING/DISPATCH	CPT.AC	RB	LTX	LTX	LTX	LTX	STR.	1
118	CORR.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
119	M LOCKER	PT	RB	EPX	EPX	EPX	EPX	TYPE 1	
120	W LOCKER	PT	RB	EPX	EPX	EPX	EPX	TYPE 1	
121	T.	PT	PT	EPX.PWT	EPX.PWT	EPX.PWT	EPX.PWT	TYPE 1/EPX	
122	CORR.	SC	RB	LTX	LTX	LTX	LTX	STR./TYPE 1 /LAX	
123	MECH	SC	RB	LTX	LTX	LTX	LTX	STR	
124	BLDG. STOR.	SC	RB	LTX	LTX	LTX	LTX	STR	
125	B&T	SC	RB	LTX	LTX	LTX	LTX	TYPE 1	
126	ELEC.	SC	RB	LTX	LTX	LTX	LTX	STR	
127	CHILLER ROOM	SC	RB	EPX	EPX	EPX	EPX	STR	
128	BOILER	SC	RB	EPX	EPX	EPX	EPX	STR	
129	VEST.	MOM	RB	LTX	LTX	LTX	LTX	TYPE 1	
130	STAIR	VCT, RTR	RB	LTX	LTX	LTX	LTX	TYPE 1	
131	RECEIVING	SC	RB	LTX	LTX	LTX	LTX	STR	
132	OFF.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
133	PARTS	SC	RB	LTX	LTX	LTX	LTX	STR	
134	HVAC SHOP	SC	RB	LTX	LTX	LTX	LTX	STR	
135	ELEC. SHOP	SC	RB	LTX	LTX	LTX	LTX	STR	
136	BOILER SHOP	SC	RB	LTX	LTX	LTX	LTX	STR	
137	STAIR.	VCT, RTR	RB	LTX	LTX	LTX	LTX	STR	
138	PI	PT	PT	EPX	EPX	EPX	EPX	TYPE 1	
139	PLUMBING SHOP	SC	RB	LTX	LTX	LTX	LTX	STR	
140	M	PT	PT	EPX	EPX	EPX	EPX	TYPE 1	
141	CARPENTRY SHOP	SC	RB	LTX	LTX	LTX	LTX	STR.	
142	STAIR	VCT, RTR	RB	LTX	LTX	LTX	LTX	TYPE 1	
143	ELEV. EQUIP.	SC	RB	LTX	LTX	LTX	LTX	STR	
144	KNIT.	VCT	RB	LTX	LTX	LTX	LTX	TYPE 1	
145	LOCK SHOP	VCT	RB	LTX	LTX	LTX	LTX	TYPE 1	
146	CORR.	SC	RB	LTX	LTX	LTX	LTX	STR	

ARCHITECTURAL PLAN NOTES

GENERAL: COORDINATE WITH WORK SHOWN ON STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, REF. 7E SHEET FOR EQUIP. COORDINATION

1. HANDRAIL; REF. 4A306
2. RAILING; REF. 3A306
3. METAL SHIP LADDER
4. FIRE EXTINGUISHER CABINET; 104413-1
5. REF. CIVIL FOR LANDING, STAIR, & RAMP (N.I.C.)
6. LINE OF SOFFIT, ROOF OVERHANG, OR FLOOR ABOVE.
7. KNOX BOX LOCATION.
8. ROLLER SHADES 123413-1
9. ROOF HATCH/LADDER; REF 18A308; COORDINATE EXACT LOCATION WITH JOISTS AND MEP EQUIPMENT.
10. 2" BULDING EXPANSION JOINT. PROVIDE WALL, CEILING, AND/OR FLOOR EXPANSION JOINT COVER N.O. PROVIDE THRESHOLD AT DOORS. EXPANSION JOINT REPRESENTED BY DASHED LINE.
11. DECORATIVE RAILING; REF. 4A306.
12. FLOOR ACCESS HATCH. 055113-3
13. WIRE MESH PARTITION BRACE AT STRUCTURE ABOVE. 10'-0" HIGH MIN. INTEGRAL DOOR N.O. PROVIDE 24" X 24" ACCESS PANEL.
14. GATE. REF. 11A306. RAILING IS SIMILAR.
15. BOLLARD REF. 10A5101.
16. EYE WASH STATION. REF. MEP
17. TRANSACTION WINDOW 3'-6" HIGH. REF. PLAN FOR WIDTH. GLASS TO BE 1/4" TEMPERED.
18. 0'-0" HIGH WALL WITH 092900-12 48" O.C.
19. DIRECTORY

ROOM FINISH SCHEDULE LEGEND

FLOOR
SC SEALED CONCRETE
VCT VINYL COMPOSITION TILE
PT PORCELAIN TILE
CPT CARPET
RTR RUBBER TREADS AND RISERS
MOM WALK-OFF MAT
AF ACCESS FLOOR

WALL BASE
RB RESILIENT BASE (4" HIGH)
PT PORCELAIN TILE (6" HIGH)

WALLS
LTX PAINT
EPX EPOXY PAINT
PWT PORCELAIN WALL TILE

CEILING
STR PAINT EXPOSED STRUCTURE
LAX LATEX ENAMEL PAINT ON GYPSUM SOFFITS
TYPE 1 SUSPENDED 2 x 2 ACOUSTIC LAY-IN PANEL

ROOM FINISH SCHEDULE NOTES

1. CARPET TILE SHALL INTEGRATE WITH ACCESS FLOORING.

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LICENSED
2581
ARCHITECT
KANSAS
PROFESSIONAL ARCHITECT

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-0669
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DATE: 4-15-15 DRAWN BY: CHECKED BY: REV:

FIRST FLOOR

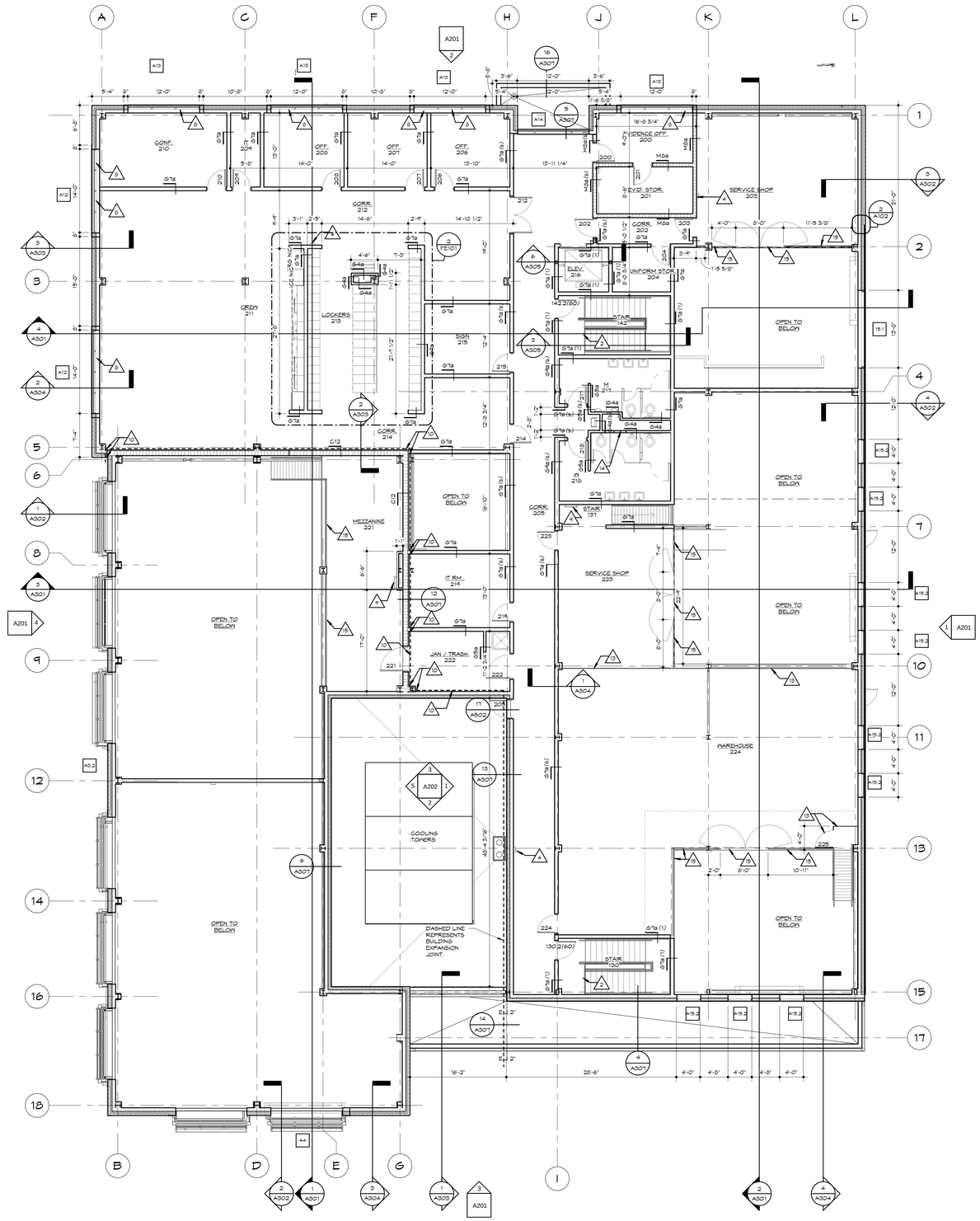
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A101

CONSTRUCTION DOCUMENTS

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JCSBC
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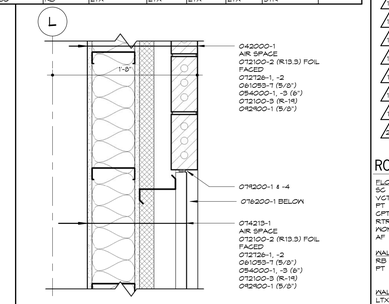


1 SECOND FLOOR
1/8" = 1'-0"

NORTH

ROOM FINISH SCHEDULE-SECOND FLOOR

ROOM MARK	ROOM NAME	FLOOR	BASE	WALLS NORTH (or TYP)	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	NOTES
200	EVIDENCE OFF.	VCT	RB	LTX	LTX	LTX	LTX	TYPE 1	
201	EVID. STOR.	VCT	RB	LTX	LTX	LTX	LTX	TYPE 1	
202	CORR.	VCT	RB	LTX	LTX	LTX	LTX	TYPE 1	
203	SERVICE SHOP	SC	RB	LTX	LTX	LTX	LTX	STR	
204	UNIFORM STOR.	VCT	RB	LTX	LTX	LTX	LTX	STR	
205	CORR.	VCT	RB	LTX	LTX	LTX	LTX	STR/TYPE 1/LAX	
206	OFF.	SC	RB	LTX	LTX	LTX	LTX	TYPE 1	
207	OFF.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
208	OFF.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
209	IT	VCT	RB	LTX	LTX	LTX	LTX	TYPE 1	
210	CONF.	CPT	RB	LTX	LTX	LTX	LTX	TYPE 1	
211	GREY	VCT	RB	LTX	LTX	LTX	LTX	TYPE 1	
212	CORR.	VCT	RB	LTX	LTX	LTX	LTX	TYPE 1	
213	LOCKERS	VCT	RB	LTX	LTX	LTX	LTX	TYPE 1	
214	CORR.	VCT	RB	LTX	LTX	LTX	LTX	TYPE 1	
215	SIGN	SC	RB	LTX	LTX	LTX	LTX	TYPE 1	
216	ELEV.	CPT	0	0	0	0	0	0	
217	M	PT	PT	EPX	EPX	EPX	EPX	TYPE 1	
218	IN	PT	PT	EPX	EPX	EPX	EPX	TYPE 1	
219	IT RM.	SC	RB	LTX	LTX	LTX	LTX	TYPE 1	
221	MEZZANINE	SC	RB	LTX	LTX	LTX	LTX	STR	
222	JAN. / TRASH.	SC	RB	LTX	LTX	LTX	LTX	STR	
223	SERVICE SHOP	SC	RB	LTX	LTX	LTX	LTX	STR	
224	WAREHOUSE	SC	RB	LTX	LTX	LTX	LTX	STR	



2 VERTICAL JONT AT BRICK AND METAL PANEL
1 1/2" = 1'-0"

ARCHITECTURAL PLAN NOTES

GENERAL: COORDINATE WITH WORK SHOWN ON STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, REF. FE SHEET FOR EQUIP. COORDINATION

1. HANDRAIL; REF. 9A306
2. RAILING; REF. 5A306
3. METAL SHIP LADDER
4. FIRE EXTINGUISHER CABINET; 104413-1
5. REF. CIVIL FOR LANDING, STAIR, & RAMP (N.O.)
6. LINE OF SOFFIT, ROOF OVERHANG, OR FLOOR ABOVE.
7. KNOX BOX LOCATION.
8. ROLLER SHADES 122413-1
9. ROOF HATCH/LADDER; REF 16A309, COORDINATE EXACT LOCATION WITH JOISTS AND MEP EQUIPMENT.
10. 2" BUILDING EXPANSION JOINT, PROVIDE WALL CEILING, AND/OR FLOOR EXPANSION JOINT COVER N.O. PROVIDE THRESHOLD AT DOORS. EXPANSION JOINT REPRESENTED BY DASHED LINE.
11. DECORATIVE RAILING, REF. 4A306.
12. FLOOR ACCESS HATCH, 055113-3
13. WIRE MESH PARTITION BRACE AT STRUCTURE ABOVE. 10'-0" HIGH MIN. INTEGRAL DOOR N.O.
14. PROVIDE 24" X 24" ACCESS PANEL.
15. GATE. REF. 11A306. RAILING IS SIMILAR.
16. BOLLARD REF. 10A5101.
17. EYE WASH STATION. REF. MEP
18. TRANSACTION WINDOW, 3-6" HIGH. REF. PLAN FOR WIDTH. GLASS TO BE 1/4" TEMPERED.
19. 5'-0" HIGH WALL WITH DRP200-12 48" O.C.
20. DIRECTORY

ROOM FINISH SCHEDULE LEGEND

FLOOR
SC SEALED CONCRETE
VCT VINYL COMPOSITION TILE
PT PORCELAIN TILE
CPT CARPET
RTR RUBBER TREADS AND RISERS
WOM WALK-OFF MAT
AF ACCESS FLOOR

WALL BASE
RB RESILIENT BASE (4" HIGH)
PT PORCELAIN TILE (6" HIGH)

WALLS
LTX PAINT
EPX EPOXY PAINT
PWT PORCELAIN WALL TILE

CEILING
STR PAINT EXPOSED STRUCTURE
LAX LATEX ENAMEL PAINT ON GYPSUM SOFFITS
TYPE 1 SUSPENDED 2 x 2 ACOUSTIC LAY-IN PANEL

ROOM FINISH SCHEDULE NOTES

1. CARPET TILE SHALL INTEGRATE WITH ACCESS FLOORING.

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

NOTE: REFER TO ALL SECTIONS (SECTIONS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

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KENNETH BLACKLIN — REGISTERED ARCHITECT — 13435 — 4-15-15 — KANSAS — PROFESSIONAL ARCHITECT

DENNIS A. HAIGH — LICENSED ARCHITECT — 4-15-15 — 2561 — KANSAS — PROFESSIONAL ARCHITECT

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
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FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 173000038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

SECOND FLOOR

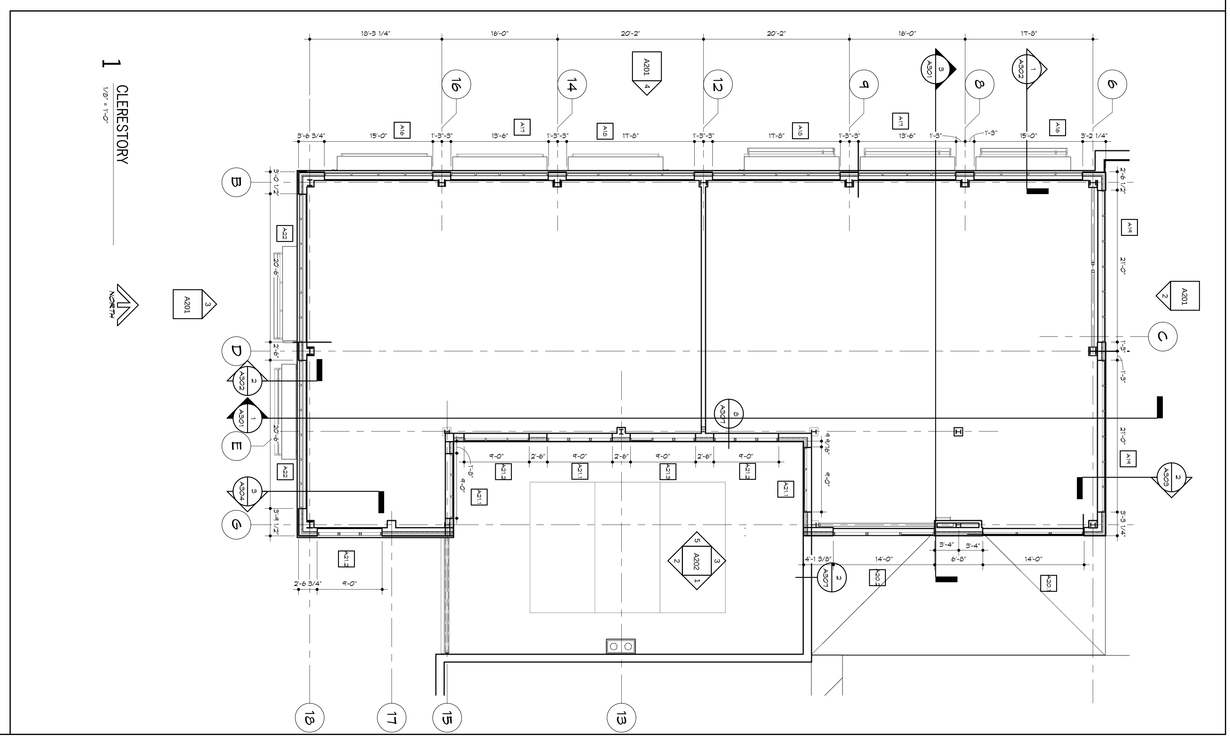
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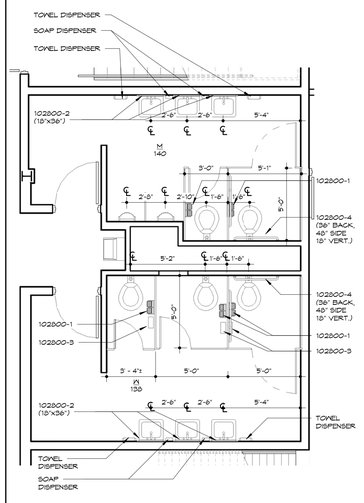
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CONSTRUCTION DOCUMENTS

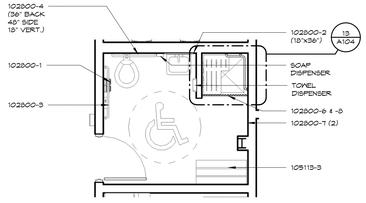
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2-2-2016
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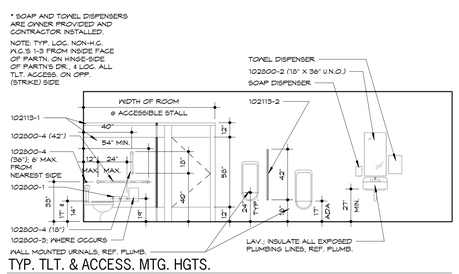

1 CLERESTORY
1/8" = 1'-0"
NORTH
18'-3 1/4"
16'-0"
20'-2"
20'-2"
16'-0"
17'-8"
16
14
12
10
8
6
B
C
D
E
G
13
17
15
13
A201
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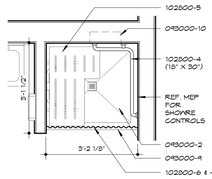
1 ENLARGED RESTROOMS
1/4" = 1'-0"



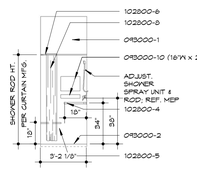
2 T. 121
1/4" = 1'-0"



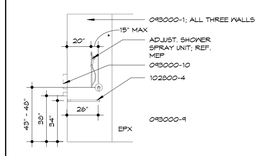
TYP. TLT. & ACCESS. MTG. HGTS.



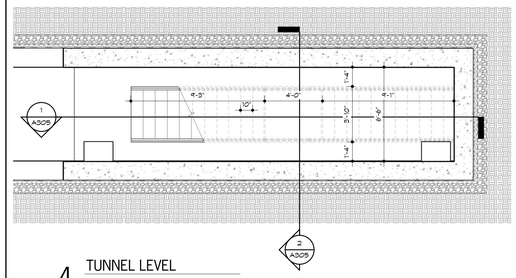
13 ADA SHOWER
1/2" = 1'-0"



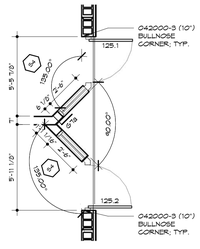
14 SHOWER ENTRY VIEW
1/4" = 1'-0"



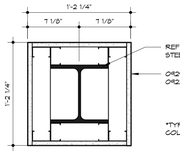
16 SHOWER CONTROL VIEW
1/4" = 1'-0"



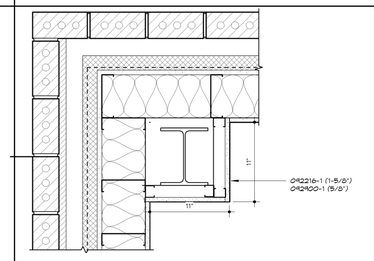
4 TUNNEL LEVEL
1/4" = 1'-0"



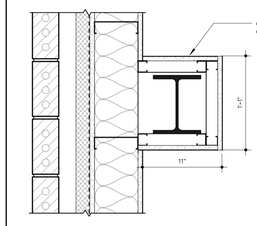
3 DOORS AT BST
1/4" = 1'-0"



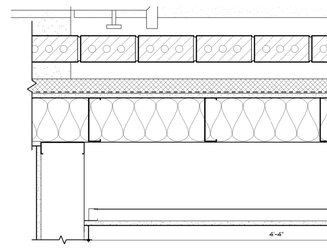
6 TYP. COLUMN
1 1/2" = 1'-0"



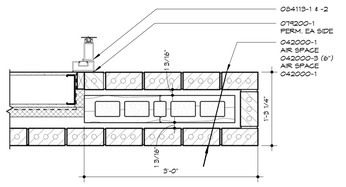
7 TYP. COLUMN AT CORNER
1 1/2" = 1'-0"



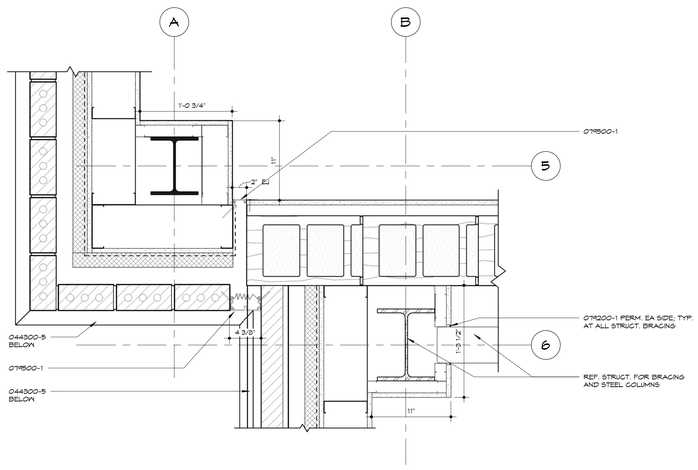
8 TYP. COLUMN AT WALL
1 1/2" = 1'-0"



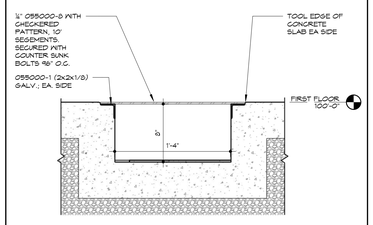
9 COLUMN F1
1 1/2" = 1'-0"



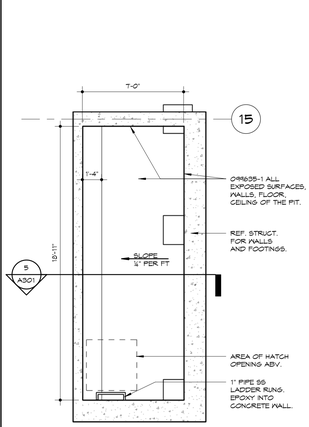
11 SOUTH WING WALL
1" = 1'-0"



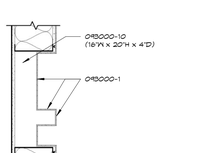
12 BUILDING EXPANSION JOINT COLUMN A5
1 1/2" = 1'-0"



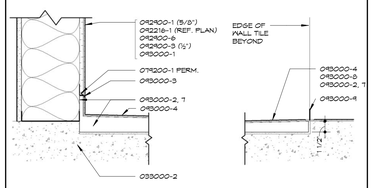
10 BOILER FLOOR TRENCH
1 1/2" = 1'-0"



5 MECHANICAL PIT
1/4" = 1'-0"



15 SHOWER NICHE
1" = 1'-0"



17 SHOWER PAN
1 1/2" = 1'-0"

KEYNOTES

Note: Keynotes are drawn from a master list; it may not be sequentially numbered. Sizes (Ex. 2x4) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

033000	-1	Concrete Structure	081113	-1	Steel Door
	-2	Concrete Floor Slab		-2	Steel Frame
	-3	Vapor Barrier		-3	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Rustication Joint		-6	FRP Door
	-7	Waterstop	081416	-1	Flush Wood Door
	-8	Sidewalk Anchor	083113	-1	Access Door
	-9	Dowel		-2	Access Door Frame
	-10	Premolded Joint Filler		-3	Floor Access Door
035000	-1	Concrete Topping	083323	-1	Overhead Coiling Door
042000	-1	Face Brick		-2	Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Sectional Overhead Door
	-3	Concrete Masonry Unit - Lightweight (")		-2	Sectional Overhead Door Track
	-4	Wire Reinforcing	084113	-1	Weatherstripping
	-5	Metal Tie/Anchor		-2	Aluminum Entrance Door
	-6	Through Wall Flashing		-3	Aluminum Entrance Frame
	-7	Control Joint Strip		-4	Sunshade
	-8	Bond Beam (")		-5	Aluminum Bubs@
	-9	Compressible Filler	084413	-1	Glazed Aluminum Curtain Wall
	-10	Keep Hole		-3	Threshold
	-11	Cavity Drainage Material		-4	Aluminum Louver
	-12	Control Joint		-5	Aluminum Bubs@
044300	-1	Stone Masonry	087100	-1	Track, Hardware
	-2	Anchor	088000	-1	Glazing (as scheduled)
	-3	Stone Jamb	088053	-1	Security Glazing (as scheduled)
	-4	Stone Sill			
	-5	Belt Course	089116	-1	Louvers and Vents
047200	-1	Cast Stone	092216	-1	Steel Stud (")
051200	-1	Steel Beams		-2	Steel Stud Runner (")
	-2	Steel Column		-3	Furring Channel (")
	-3	Steel Tube	092400	-1	Portland Cement Plastering
	-4	Steel Channel		-2	Metal Lath
052100	-1	Steel Joist		-3	Casing Bead
	-2	Joist - Extended End	092900	-1	Gypsum Board (")
	-3	Joist - Ceiling Extension		-2	Fire Rated Gypsum Board Wall
053100	-1	Metal Decking			
	-2	Metal Decking Closure		-3	Cementitious Tile Backer Board
	-3	Metal Closure Strips			
054000	-1	Structural Steel Studs		-4	Metal Suspension System
	-2	Structural Steel Joists		-5	Acoustical Sealant
	-3	"Z" Girts		-6	Acoustical Insulation (")
055000	-1	Steel Angle		-7	Metal Edge Trim
	-2	Steel Channel		-8	Auxiliary Support Framing
	-3	Steel Lintel		-9	Metal Control Joint
	-4	Steel Pipe		-10	High Impact Gypsum Board
	-5	Steel Tube		-11	Concrete Interior Finishing Compound
	-7	Steel Plate		-12	Stiffener
	-8	Steel Ladder	093000	-1	Porcelain Pell Tile
	-10	Steel Bollard			(" x ")
055100	-1	Steel Stairs		-2	Shower Pan
	-2	Steel Stair Stringer		-3	Shower Pan Flashing
	-3	Steel Stair Plate		-4	Porcelain Floor Tile
055213	-1	Steel Pipe Handrail			(" x ")
	-2	Steel Pipe Railings		-5	Tile Base
	-3	Steel Handrail Wall Bracket		-6	Tile Cap
	-4	Steel Rod		-7	Setting Bed
055300	-1	Steel Grating		-8	Unbonding water-proof membrane
	-2	Steel Frame		-9	Shower Splashguard
057300	-1	Decorative Metal Railings		-10	Shower Niche
057500	-1	Ornamental Metal Stamped Grille		-11	Acoustical Panel (x) (F = Fire Rated)
061053	-1	2x Wood Nailer (")	095113	-1	Ceiling Suspension System
	-2	2x Wood Blocking (")		-2	Edge Mold Trim
	-3	1x Wood Continuous (")		-3	Auxiliary Support Framing
	-4	Plywood (")		-4	Resilient Tile Flooring
	-5	100 Mat	096813	-1	Resilient Wall Base
	-6	Mortar Setting (")		-3	Edge Strip
064116	-1	Interior Architectural Woodwork		-4	Tactile Warning Surface
	-2	High Pressure Laminate		-6	Resilient Stair Tread
	-3	Cabinet Liner Laminate		-7	Resilient Stair Riser
	-4	Particle Board		-8	Resilient Stringer Skirt
	-5	Plywood		-9	Resilient Stair Nose
	-6	Shim Edge Molding	096813	-1	Carpet Tile
	-7	Solid Wood Blocking	096900	-1	Access Flooring
	-8	Hardwood	099113	-1	Exterior Painting
	-9	Steel Tube/Leg Frame	099123	-1	Interior Painting
	-10	Door Hinge	099635	-1	Secondary Containment Coating System
	-11	Door/Drawer Pull	101400	-1	Signage
	-12	Magnetic Catch	102113	-1	Toilet Partition
	-13	Drawer		-2	Urinal Screen
	-14	Shelf Supports	102215	-1	Fabric Wall Partitions
	-15	Solid Surfacing Material	102800	-1	Toilet Accessories, Corner Guard
071113	-1	Bituminous Dampproofing	102900	-1	Tissue Dispenser
071124	-1	Self-Adhering Sheet Waterproofing		-2	Framed Mirror
072100	-1	Foundation Wall or Under Slab Insulation (R-)		-3	Sanitary Napkin Disposer
	-2	Cavity Wall Insulation (R-)		-4	Grab Bar
	-3	Building Insulation - Unfaced (R-)		-5	Shower Seat
	-4	Building Insulation - Faced (R-)		-6	Shower Curtain Rod
	-5	Sill Sealer		-7	Coat/Robe Hook
	-6	Batt Insulation		-8	Shower Curtain
072126	-1	Fluid Applied Membrane Air Barrier		-9	Fire Extinguisher Cabinet
	-2	Flashing Tape		-10	Fire Extinguisher
074213	-1	Metal Wall Panel (Type 1)		-11	Personnel Locker
	-2	Trim		-12	Locker
	-3	J-Furring (")		-13	Bench
	-4	Metal Wall Panel (Type 2)		-14	Pre-Manufactured Canopies
	-5	Metal Soffit Panel		-15	Flagpole
075420	-1	Thermoplastic Polyolefin (TPO) Roofing		-16	Deterrent Spikes
	-2	Roof Insulation Flat		-17	Roller Window Shades
	-3	Roof Insulation Tapered		-18	Spray Planting Booth
	-4	Roof Expansion Joint		-19	Hydraulic Elevator
	-5	Coverboard		-20	Site Clearing
	-6	Roof Insulation Flat		-21	Earth Moving
	-7	Roof Insulation Tapered		-22	Interior Fill
	-8	Roof Expansion Joint		-23	Exterior Fill
	-9	Coverboard		-24	Granular Drainage Course
	-10	Parapet Rail		-25	Subbase Course
	-11	Expansion Control		-26	Concrete Paving
076200	-1	Sheet Metal Flashing and Counterflashing		-27	Perforated Pell Pipe & Fittings
	-2	Pre-Finished Roof Edge		-28	Geotextile Filter Fabric (Mat/Socks)
	-3	Pre-Finished Coping		-29	Drainage Panel
	-4	Sheet Metal Reglet			
	-5	Sheet Metal Gutter			
	-6	Sheet Metal Downspout			
	-7	Sheet Metal Scupper			
077126	-1	Roof Expansion Joint			
077200	-1	Roof Hatch/Ladder			
078413	-1	Penetration Firestopping			
078440	-1	Joint Firestopping			
079200	-1	Sealant - Rake where required			
	-2	Backer Filler			
	-3	Joint Filler			
	-4	Backer Rod			
079500	-1	Expansion Control			

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ROBERT B. MCLAUGHLIN — 13435 — 4-15-15 — KANSAS — PROFESSIONAL ENGINEER

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15
-

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and Procurement Management
800 SW Jackson, Suite 700
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FAX: 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

ENLARGED FLOOR PLANS AND DETAILS

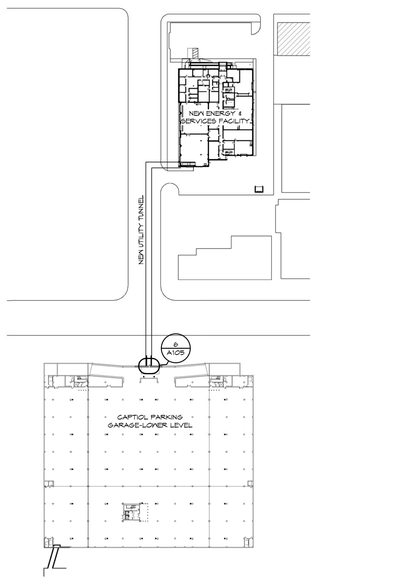
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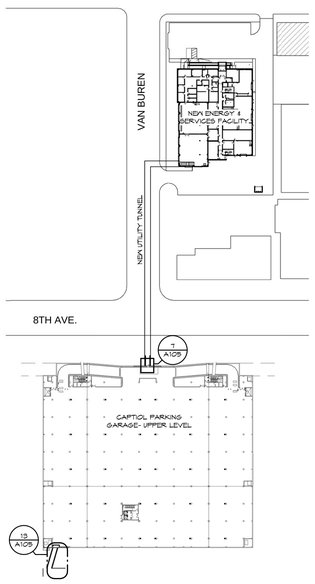
CONSTRUCTION DOCUMENTS

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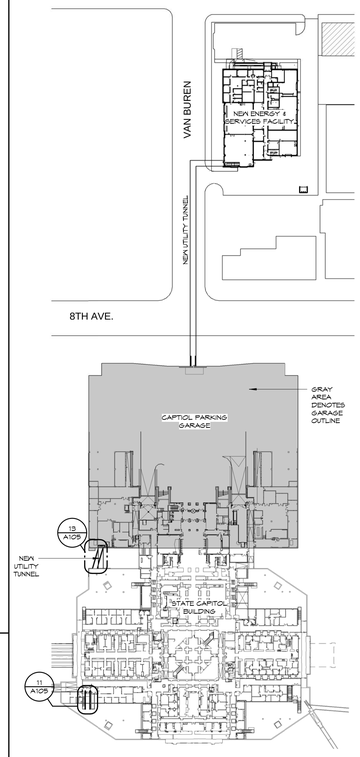
JCSBC
2-2-2016
Att.9C.--0031



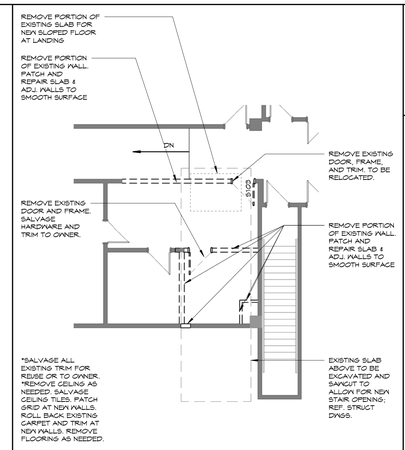
1 KEY PLAN- CAPITOL LOWER PARKING GARAGE
1" = 100'-0"



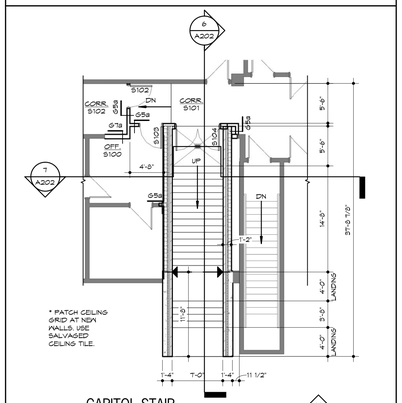
2 KEY PLAN-CAPITOL UPPER PARKING GARAGE
1" = 100'-0"



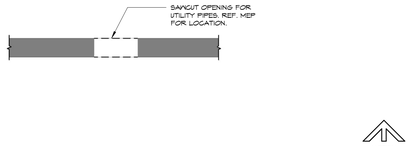
3 KEY PLAN-CAPITOL GROUND FLOOR
1" = 100'-0"



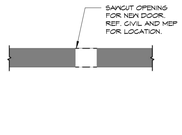
10 DEMOLITION PLAN-CAPITOL STAIR
1/8" = 1'-0"



11 CAPITOL STAIR
1/8" = 1'-0"



4 DEMOLITION PLAN UTILITY TUNNEL PIPES AT CAPITOL LOWER GARAGE
1/8" = 1'-0"



5 DEMOLITION PLAN UTILITY TUNNEL DOOR AT UPPER GARAGE
1/8" = 1'-0"

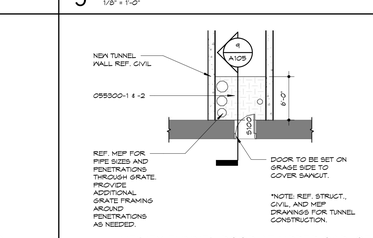
ROOM FINISH SCHEDULE-CAPITAL									
				WALLS					
ROOM MARK	ROOM NAME	FLOOR	BASE	NORTH (or TYP)	EAST	SOUTH	WEST	CEILING	NOTES
5100	OFF.	CPT	RB	LTX	LTX	LTX		TYPE 1	1, 2
5101	CORR.	VCT	RB			LTX	LTX		3, 4
5102	CORR.	EXIST	EXIST	LTX		LTX			
5103	SW MAIN SHOP	SC	RB			LTX	LTX		4

CAPITAL ROOM FINISH NOTES

1. EXISTING BROADLOOM CARPET TO BE RELAID.
2. ADJUST EXISTING CEILING GRID AND PANELS TO FIT WALL AND LIGHTING MODIFICATIONS.
3. MATCH EXISTING VCT.
4. MATCH EXISTING RUBBER BASE.

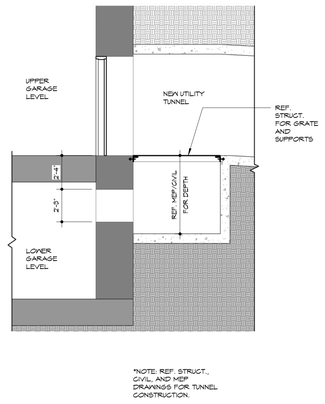
GENERAL DEMOLITION NOTES

A) WALLS & STRUCTURE NOTED TO REMAIN SHALL BE BRACED & SUPPORTED AS NECESSARY DURING DEMO & UNTIL NEW CONSTRUCTION IS IN PLACE.
B) PROTECT EXISTING CONSTRUCTION AND FINISHES TO REMAIN FROM DAMAGE DURING DEMOLITION.
C) REPAIR SURFACES ADJACENT TO DEMOLITION AREAS AS REQUIRED TO MATCH ADJACENT FINISHES.
D) COORDINATE DEMOLITION WORK WITH NEW WORK.
E) REF. MECHANICAL, ELECTRICAL & PLUMBING FOR EXTENT OF RELATED DEMOLITION. REPAIR ALL WALLS/FLOOR/CEILING PENETRATIONS WHERE DEVICES/EQUIPMENT/ETC. WAS REMOVED. MATCH ADJ. FINISH & MATERIAL.
F) REF. STRUCT FOR RELATED DEMOLITION.
G) WHEN REPLACING SURFACE TO MATCH ADJACENT, MAKE NEW SURFACE FLUSH WITH ADJACENT UNLESS NOTED OTHERWISE.
H) SOME NEW CONSTRUCTION WILL REQUIRE REMOVAL/CUTTING AND ADDITIONAL DEMO WORK NOT SHOWN ON DEMO SHEETS. REF. ENTIRE SET FOR DEMOLITION.
I) FIELD VERIFY EXTENT OF DEMO ITEMS BEFORE BIDDING.
J) DEMO WALLS & DOORS SHOWN DASHED IN AREAS OF NEW WORK. CONSULT ARCHITECT FOR ANY DISCREPANCIES OR QUESTIONS.
K) WALLS, SLABS, CEILING, ETC. WITHIN RENOVATION AREAS NOT CALLED FOR DEMO SHALL BE PATCHED & REPAIRED TO MATCH ADJ. SURFACES & FINISHES, TYP. PRIOR TO FINISHING AS SCHED.
L) WHERE NEW FINISHES ARE INDICATED ON PLANS, SPECIFICATIONS, OR SCHEDULES, ANY EXISTING FINISHES IN CONFLICT SHALL BE DEMOLISHED. CONTRACTOR SHALL FEILD VERIFY EXTENT OF EXISTING FINISHES PRIOR TO BIDDING.

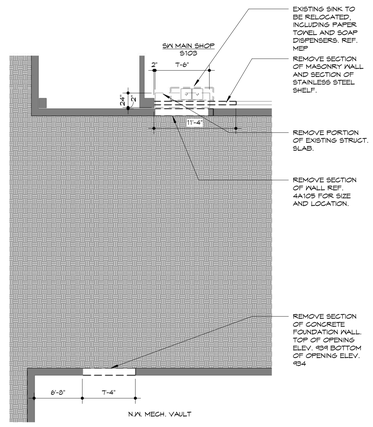


6 UTILITY TUNNEL PIPES AT CAPITOL LOWER GARAGE
1/8" = 1'-0"

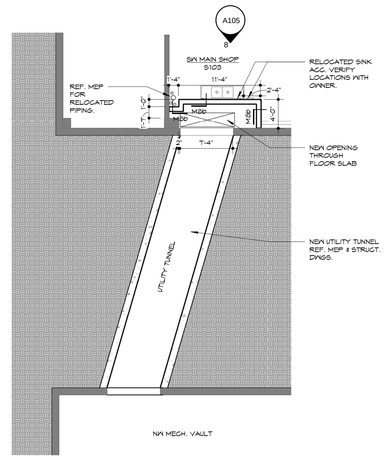
7 UTILITY TUNNEL DOOR AT UPPER GARAGE
1/8" = 1'-0"



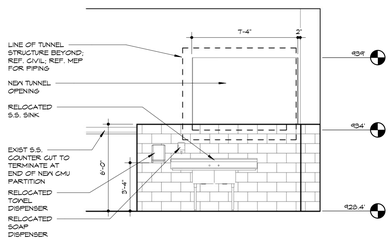
9 TUNNEL AT CAPITOL
1/4" = 1'-0"



12 DEMOLITION PLAN- UTILITY CONNECTION
1/8" = 1'-0"



13 UTILITY CONNECTION
1/8" = 1'-0"



8 CAPITOL SINK ELEVATION
1/4" = 1'-0"

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

NOTE: REFER TO ALL SECTIONS (SECTIONS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

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ROBERT BLACKLIN — REGISTERED ARCHITECT — 13435 — 4-15-15 — KANSAS — PROFESSIONAL ARCHITECT

DENNIS A. HAIGH — LICENSED — 4-15-15 — 2561 — KANSAS — PROFESSIONAL ARCHITECT

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
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FAX: 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

STATE HOUSE FLOOR PLANS

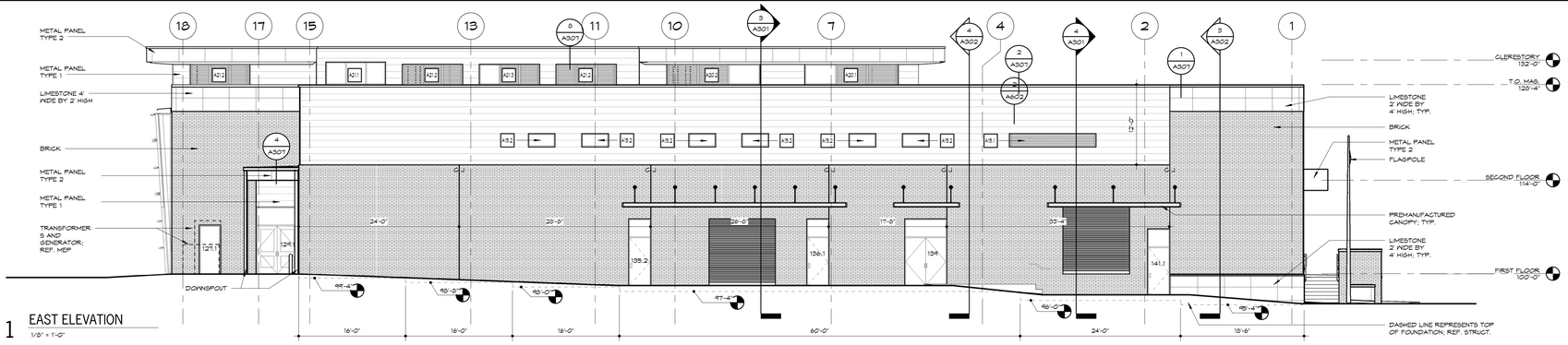
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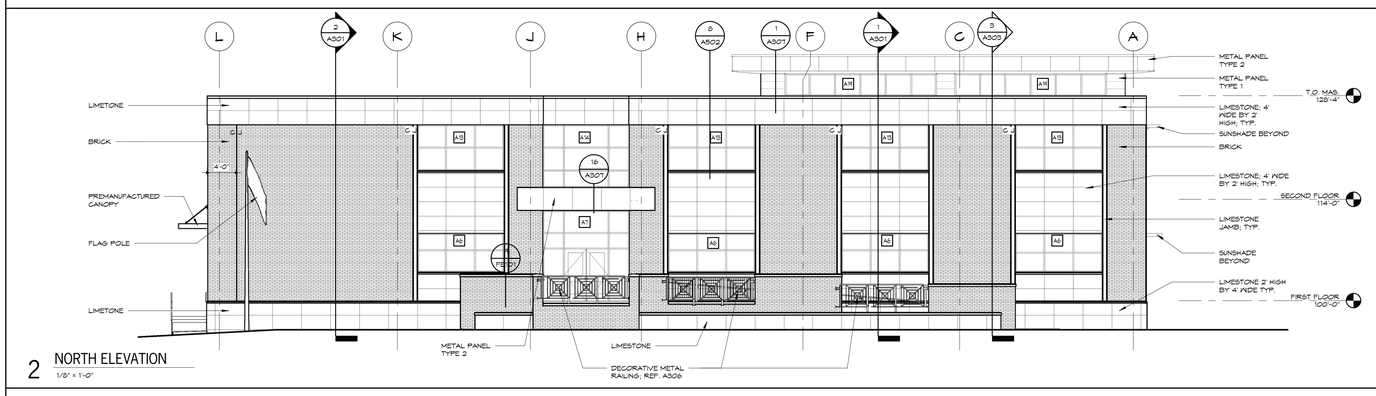
CONSTRUCTION DOCUMENTS

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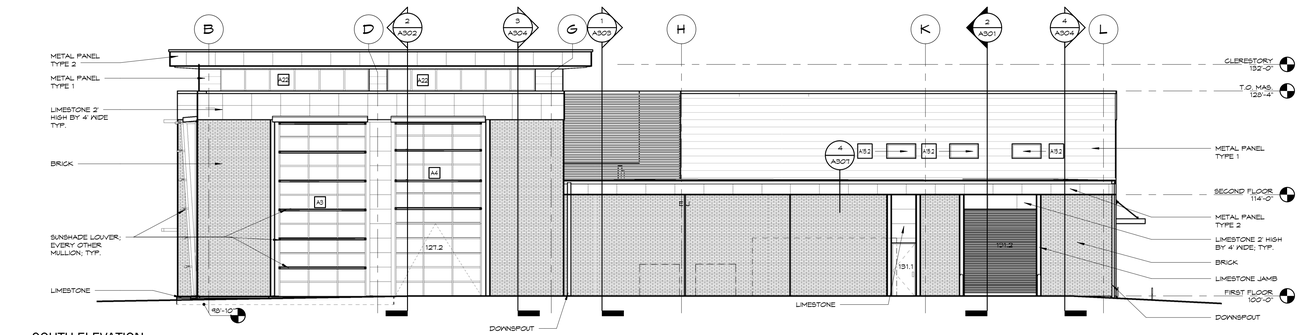
JCSBC
2-2-2016
Att.9C.--0032



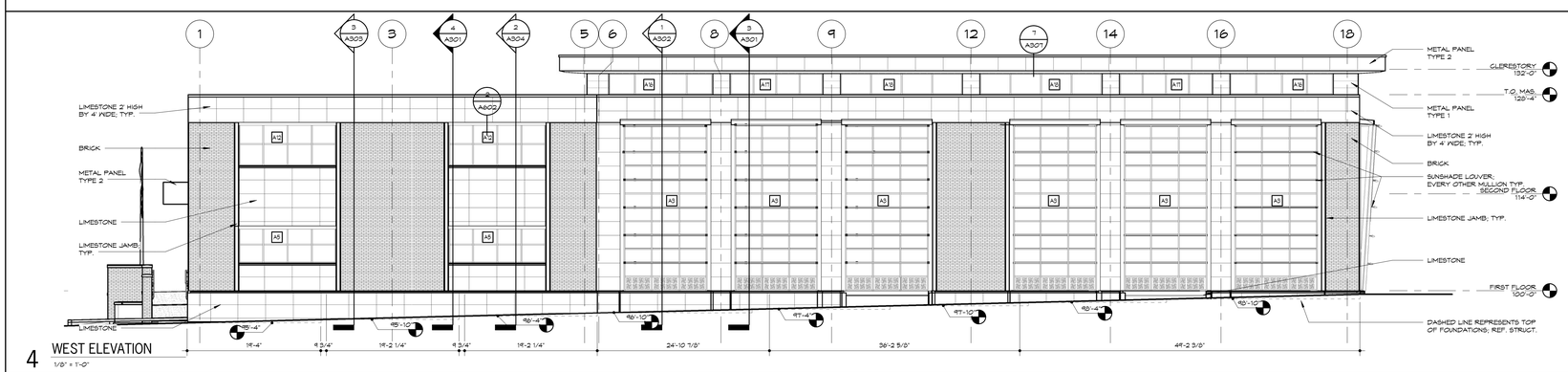
1 EAST ELEVATION
1/8" = 1'-0"



2 NORTH ELEVATION
1/8" = 1'-0"



3 SOUTH ELEVATION
1/8" = 1'-0"



4 WEST ELEVATION
1/8" = 1'-0"

KEYNOTES

Note: Keynotes are drawn from a master list; it may not be sequentially numbered. Sizes (Ga. 24-x) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

033000	-1	Concrete Structure	081113	-1	Steel Door
	-2	Concrete Floor Slab		-2	Steel Frame
	-3	Vapor Barrier		-3	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Rustication Joint		-6	FRP Door
	-7	Waterstop	081416	-1	Flush Wood Door
	-8	Dovetail Anchor	083113	-1	Access Door
	-9	Sleeve		-2	Access Door Frame
	-10	Premolded Joint Filler		-3	Floor Access Door
035000	-1	Concrete Topping	083323	-1	Overhead Coiling Door
042000	-1	Face Brick		-2	Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Sectional Overhead Door
				-2	Sectional Overhead Door Track
	-3	Concrete Masonry Unit - Lightweight (")		-3	Weatherstripping
	-4	Wire Reinforcing	084113	-1	Aluminum Entrance Door
	-5	Metal Tie/Anchor		-2	Aluminum Entrance Frame
	-6	Through Wall Flashing		-3	Sunshade
	-7	Control Joint Strip		-4	Aluminum Bubs@
	-8	Bond Beam (")	084413	-1	Glazed Aluminum Curtain Wall
	-9	Compressible Filler			Thru-Wall
	-10	Weep		-2	Sunshade
	-11	Cavity Drainage Material		-3	Sunshade Louver
	-12	Termination Bar		-4	Aluminum Bubs@
044300	-1	Stone Masonry Anchor	087100	-1	Track, Hardware
	-2		088000	-1	Glazing (as scheduled)
	-3	Stone Jamb	088853	-1	Security Glazing (as scheduled)
	-4	Stone Sill			
	-5	Belt Course	089116	-1	Louvers and Vents
041200	-1	Cast Stone	092216	-1	Steel Stud (")
051200	-1	Steel Beams		-2	Steel Stud Runner (")
	-2	Steel Column		-3	Furring Channel (")
	-3	Steel Tube	092400	-1	Portland Cement Plastering
	-4	Steel Channel		-2	Metal Lath
052100	-1	Steel Joist		-3	Casing Bead
	-2	Joist - Extended End	092900	-1	Gypsum Board (")
	-3	Joist - Ceiling Extension		-2	Fire Rated Gypsum Board
053100	-1	Steel Decking		-3	Cementitious Tile Backer Panel
	-2	Metal Composite Decking		-4	Metal Suspension System
	-3	Flexible Closure Strips		-5	Acoustical Sealant
054000	-1	Structural Steel Studs		-6	Acoustical Insulation (")
	-2	Structural Steel Joists		-7	Metal Edge Trim
	-3	'Z' Girts		-8	Auxiliary Supports Framing
055000	-1	Steel Angle		-9	Metal Control Joint
	-2	Steel Channel		-10	High Impact Gypsum Board
	-3	Steel Lintel		-11	Concrete Interior Finishing Compound
	-4	Steel Pipe		-12	Stiffener
	-5	Steel Tube	093000	-1	Porcelain Pell Tile
	-6	Steel Plate			(" x ")
	-7	Steel Ladder		-2	Tile Accent Pan
	-8	Steel Stairs		-3	Shower Pan Flashing
	-9	Steel Bolted Stringer		-4	Porcelain Floor Tile
	-10	Steel Bolted Plate			(" x ")
055213	-1	Steel Pipe Handrail		-5	Tile Base
	-2	Steel Pipe Railings		-6	Tile Cap
	-3	Steel Handrail Wall Bracket		-7	Setting Bed
	-4	Steel Rod		-8	Waterproofing
055500	-1	Steel Grating		-9	Uncoupling water-proof membrane
	-2	Steel Frame		-10	Shower Splashguard
057300	-1	Decorative Metal Railings			
057500	-1	Ornamental Metal Stamped Grille		-11	Shower Niche
061053	-1	2x Wood Nailer (")	095113	-1	Acoustical Panel (x) (ft = Fire Rated)
	-2	2x Wood Blocking (")		-2	Ceiling Suspension System
	-3	1x Wood Continuous ( )		-3	Edge Mold Trim
	-4	Plywood (")		-4	Auxiliary Support Framing
	-5	FRP Pnl.		-5	Resilient Tile Flooring
	-6	Sheathing (")	096513	-2	Resilient Wall Base
	-7	Interior Architectural Woodwork		-3	Edge Strip
				-4	Tactile Warning Surface
	-2	High Pressure Laminate		-5	Resilient Stair Tread
	-3	Cabinet Liner Laminate		-6	Resilient Stair Riser
	-4	Particle Board		-7	Resilient Stringer Skirt
	-5	Plywood		-8	Resilient Stair Nose
	-6	Trim Edge Molding	096813	-1	Carpet Tile
	-7	Solid Wood Blocking	096900	-1	Access Flooring
	-8	Hardwood	099113	-1	Exterior Painting
	-9	Steel Tube/Leg Frame	099123	-1	Interior Painting
	-10	Door Hinge	099635	-1	Secondary Containment Coating System
	-11	Door/Drawer Pull	101400	-1	Signage
	-12	Magnetic Catch	102113	-1	Toilet Partition
	-13	Drawer		-2	Urinal Screen
	-14	Shelf Supports	102213	-1	Wire Mesh Partitions
	-15	Countertop	102800	-1	Impact-Resistant Corner-guard
	-16	Solid-Surfacing Material	102900	-1	Tissue Dispenser
071113	-1	Bituminous Dampproofing		-2	Framed Mirror
071326	-1	Self-Adhering Sheet Waterproofing		-3	Sanitary Napkin Disposer
072100	-1	Foundation Wall or under Slab Insulation (R-)		-4	Grab Bar
				-5	Shower Seat
	-2	Cavity Wall Insulation (R-)		-6	Shower Curtain Rod
	-3	Building Insulation - Unfaced (R-)		-7	Coat/Robe Hook
				-8	Shower Curtain
	-4	Building Insulation - Faced (R-)	104413	-1	Fire Extinguisher Cabinet
			104416	-1	Fire Extinguisher
	-5	Sill Sealer	105113	-1	Personnel Locker
	-6	Duct Insulation		-2	Locker
	-7	Fluid Applied Membrane Air Barrier	105500	-3	Bench
				-1	Pre- Manufactured Canopies
	-2	Flashing Tape			
074213	-1	Metal Wall Panel (Type 1)	107500	-1	Flagpole
	-2	Trim	108113	-1	Deterrent Spikes
	-3	Z-Furring (")	122413	-1	Roller Window Shades
	-4	Metal Wall Panel (Type 2)	133600	-1	Spray Painting Booth
	-5	Metal Soffit Panel	142400	-1	Hydraulic Elevator
075425	-1	Thermoplastic Polyolefin (TPO) Roofing	311000	-1	Site Clearing
			312000	-1	Earth Moving
	-2	Roof Insulation Flat		-2	Interior Fill
	-3	Roof Insulation Tapered		-3	Exterior Fill
	-4	Roof Expansion Joint		-4	Granular Drainage Course
	-5	Coverboard		-5	Subbase Course
	-6	Walkway Protection Board	321313	-1	Concrete Paving
076200	-1	Sheet Metal Flashing and Counterflashing	334600	-1	Perforated Wall Pipe & Fittings
	-2	Pre-Finished Roof Edge		-2	Geotextile Filter Fabric (Flat/Sock)
	-3	Pre-Finished Coping		-3	Drainage Panel
	-4	Sheet Metal Reglet			
	-5	Sheet Metal Gutter			
	-6	Sheet Metal Downspout			
	-7	Sheet Metal Boot/Sump			
077124	-1	Roof Expansion Joint			
077200	-1	Roof Hatch/Ladder			
078413	-1	Penetration Firestopping			
078440	-1	Joint Firestopping			
079200	-1	Sealant - Make where required			
	-2	Joint Filler			
	-3	Gasket			
	-4	Backer Rod			
079500	-1	Expansion Control			

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P 785.266.3232
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DENNIS A. HAHN — 13435 — 4-15-15 — LICENSED ARCHITECT — KANSAS

ROBERT W. BLACKBURN — 25621 — 4-15-15 — REGISTERED ARCHITECT — INTERNATIONAL ASSOCIATE — KANSAS

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15
-

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone: 785-296-0456
FAX: 785-296-0455

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DRAWN BY: DWB | CHECKED BY: CHK | REV:

DATE: 4-15-15

BUILDING ELEVATIONS

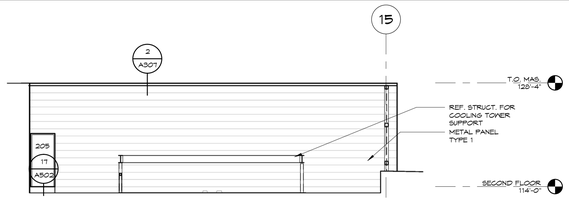
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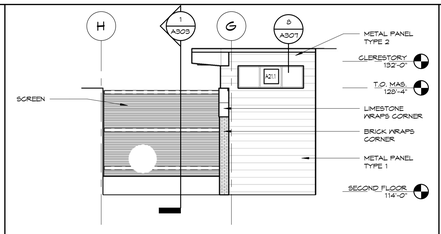
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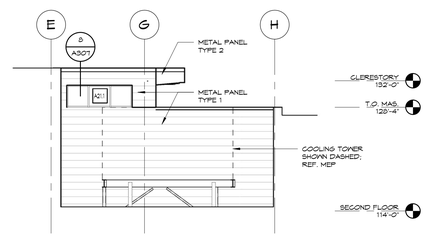
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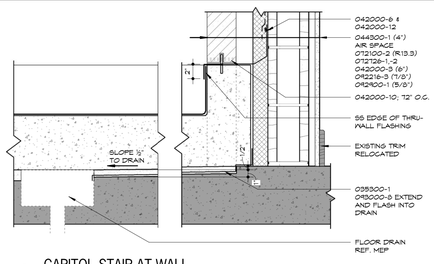
1 COOLING TOWER EAST
1/8" = 1'-0"



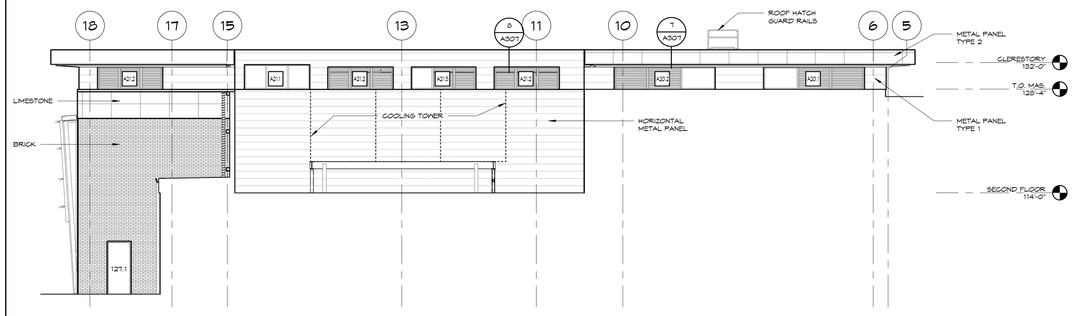
2 COOLING TOWER SOUTH
1/8" = 1'-0"



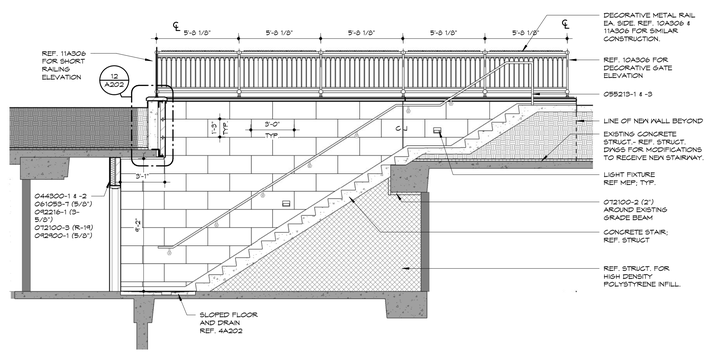
3 COOLING TOWER NORTH
1/8" = 1'-0"



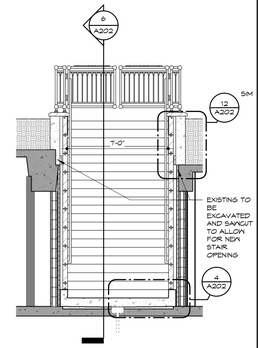
4 CAPITOL STAIR AT WALL
1 1/2" = 1'-0"



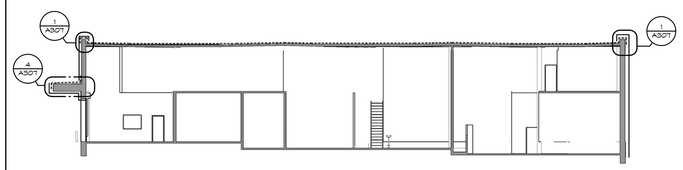
5 COOLING TOWER WEST
1/8" = 1'-0"



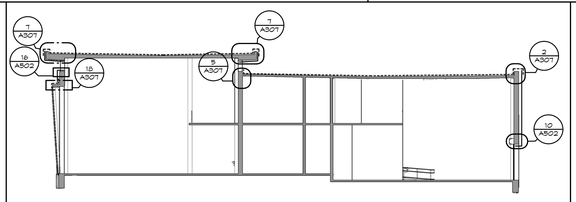
6 CAPITOL STAIR LONGITUDINAL
1/4" = 1'-0"



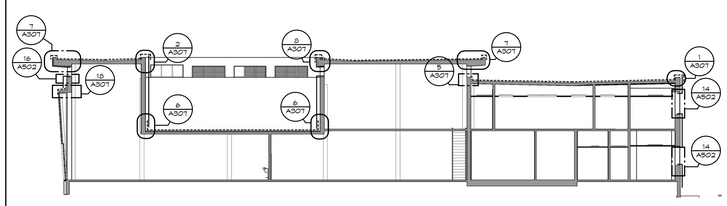
7 CAPITOL STAIR TRANSVERSE
1/4" = 1'-0"



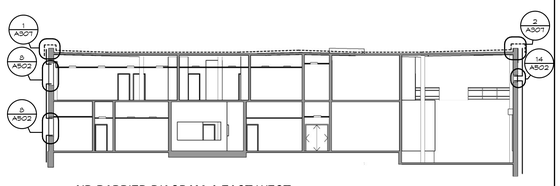
8 AIR BARRIER DIAGRAM 1 NORTH SOUTH
1/16" = 1'-0"



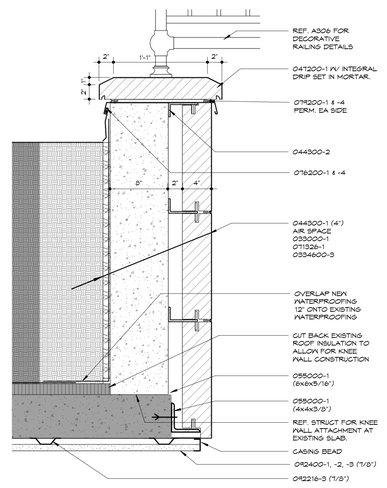
9 AIR BARRIER DIAGRAM 3 EAST WEST
1/16" = 1'-0"



10 AIR BARRIER DIAGRAM 2 NORTH SOUTH
1/16" = 1'-0"



11 AIR BARRIER DIAGRAM 4 EAST WEST
1/16" = 1'-0"



12 CAPTIAL STAIR ROOF CONNECTION
1 1/2" = 1'-0"

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PRECEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

NOTE: REFER TO ALL SECTIONS (SECTIONS LOCATED ON THIS SHEET, PRECEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DRAWN BY: Author CHECKED BY: Checker REV:

DATE: 4-15-15

BUILDING ELEVATIONS AND SECTIONS

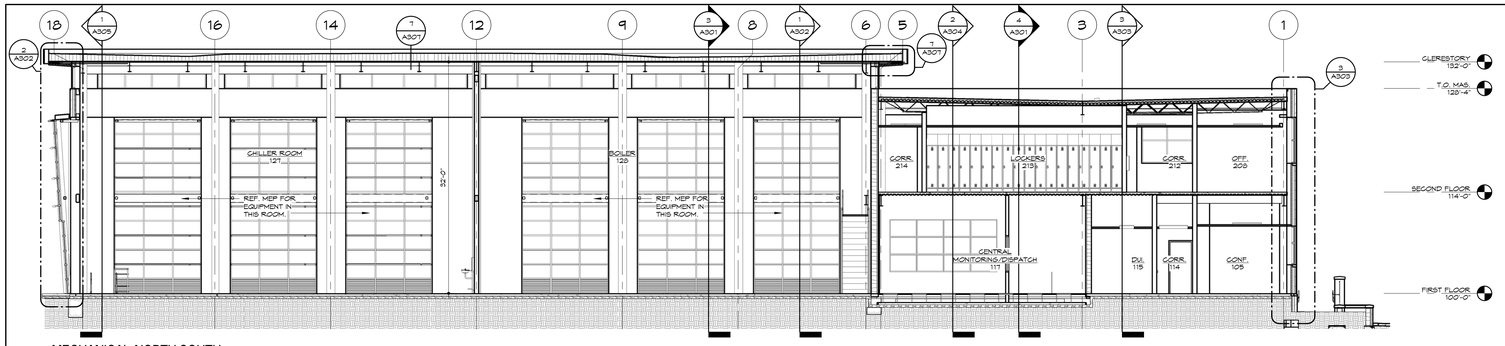
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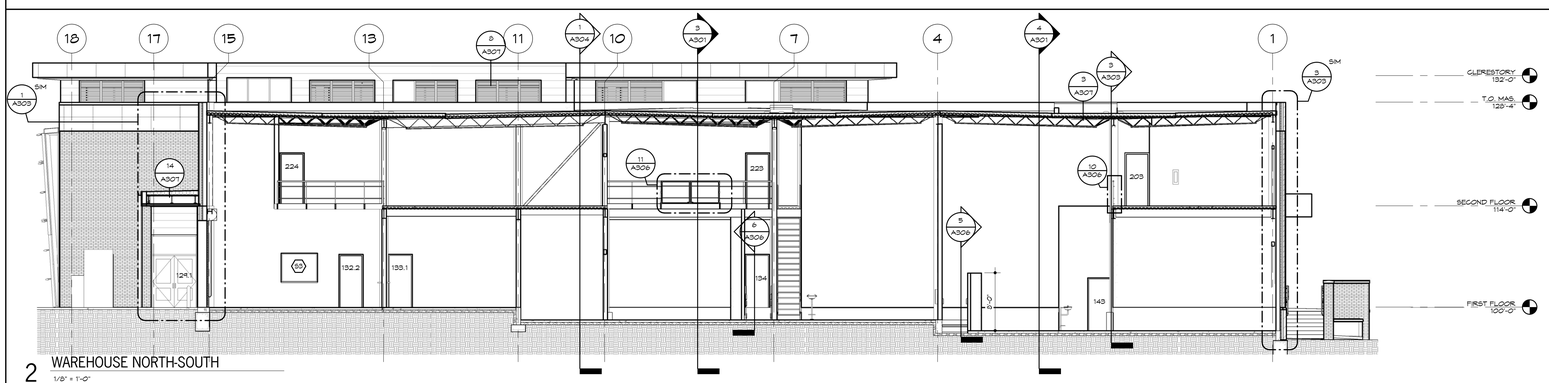
CONSTRUCTION DOCUMENTS

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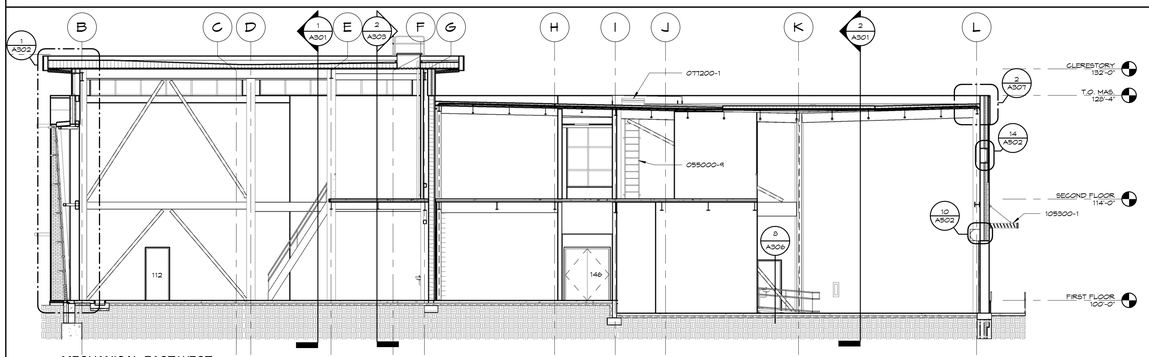
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2-2-2016
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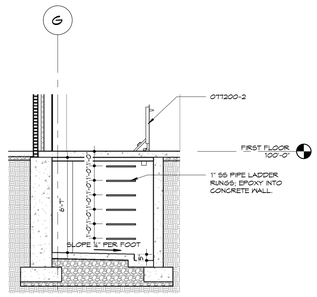
1 MECHANICAL NORTH-SOUTH
1/8" = 1'-0"



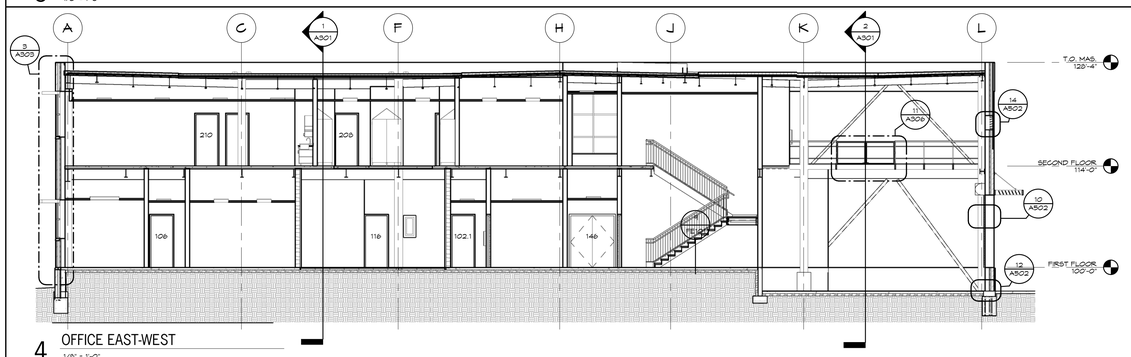
2 WAREHOUSE NORTH-SOUTH
1/8" = 1'-0"



3 MECHANICAL EAST-WEST
1/8" = 1'-0"



5 MECHANICAL PIT
1/4" = 1'-0"



4 OFFICE EAST-WEST
1/8" = 1'-0"

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

NOTE: REFER TO ALL SECTIONS (SECTIONS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

KEYNOTES

Note: Keynotes are drawn from a master list. It may not be sequentially numbered. Sizes (Ex. 2x4) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

033000	-1	Concrete Structure	081113	-1	Steel Door
	-2	Concrete Floor Slab		-2	Steel Frame
	-3	Vapor Barrier		-3	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Rustication Joint		-6	FRP Door
	-7	Waterstop	081416	-1	Flush Wood Door
	-8	Dovetail Anchor	083113	-1	Access Door
	-9	Sleeve		-2	Access Door Frame
	-10	Premolded Joint Filler		-3	Floor Access Door
035000	-1	Concrete Topping	083323	-1	Overhead Coiling Door
042000	-1	Face Brick		-2	Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Sectional Overhead Door
				-2	Sectional Overhead Door Track
	-3	Concrete Masonry Unit - Lightweight (")		-3	Weatherstripping
	-4	Wire Reinforcing	084115	-1	Aluminum Entrance Door
	-5	Metal Tie/Anchor		-2	Aluminum Entrance Frame
	-6	Through Wall Flashing		-3	Sunshade
	-7	Control Joint Strip		-4	Aluminum Sub-sill
	-8	Bond Beam (")	084413	-1	Glazed Aluminum Curtain Wall
	-9	Compressible Filler			
	-10	Keep Hole		-2	Threshold
	-11	Mortar Dropage Material		-3	Sunshade Louver
	-12	Termination Bar		-4	Aluminum Sub-sill
044300	-1	Stone Masonry	087100	-1	Track Hardware
	-2	Anchor	088000	-1	Glazing (as scheduled)
	-3	Stone Jamb	088053	-1	Security Glazing (as scheduled)
	-4	Stone Sill			
	-5	Belt Course	089119	-1	Louvers and Vents
047200	-1	Cast Stone	092216	-1	Steel Stud (")
091200	-1	Steel Beams		-2	Steel Stud Runner (")
	-2	Steel Column		-3	Furring Channel (")
	-3	Steel Tube	092400	-1	Portland Cement Plastering
	-4	Steel Channel		-2	Metal Lath
052100	-1	Steel Joist		-3	Casing Bead
	-2	Joist - Extended End	092900	-1	Gypsum Board (")
	-3	Joists - Ceiling Extension		-2	Fire Rated Gypsum Board
053100	-1	Steel Decking			Assembly
	-2	Steel Composite Decking		-3	Cementitious Tile Backer Panel
	-3	Flexible Closure Strips			
054000	-1	Structural Steel Studs		-4	Metal Suspension System
	-2	Structural Steel Joists		-5	Acoustical Sealant
	-3	"C" Column		-6	Acoustical Insulation (")
055000	-1	Steel Angle		-7	Metal Edge Trim
	-4	Steel Channel		-8	Auxiliary Support Framing
	-5	Steel Lintel		-9	Metal Control Joint
	-6	Steel Pipe		-10	High Impact Gypsum Board
	-7	Steel Tube		-11	Concrete Interior Finishing Compound
	-8	Steel Plate			
	-9	Steel Ladder		-12	Stiffener
	-10	Steel Bollard	093000	-1	Porcelain Pell Tile
055100	-1	Steel Stairs			(" x ")
	-2	Steel Stair Stringer		-2	Shower Pan
	-3	Steel Tread Plate		-3	Shower Plate
055213	-1	Steel Pipe Handrail		-4	Shower Pan Flashing
	-2	Steel Pipe Railmount			Porcelain Floor Tile (" x ")
	-3	Steel Handrail Wall Bracket		-5	Tile Base
	-4	Steel Rail		-6	Tile Cap
055300	-1	Steel Grating		-7	Setting Bed
	-2	Steel Frame		-8	Uncoupling water-proof membrane
057500	-1	Decorative Metal Railings			
057600	-1	Ornamental Metal Stamped Grille		-4	Shower Splashguard
				-10	Shower Niche
061093	-1	2x Wood Nailer (")	095113	-1	Acoustical Panel (" x ") (* = Fire Rated)
	-2	2x Wood Blocking (")			
	-3	1x Wood Continuous (")		-2	Ceiling Suspension System
	-4	Plywood (")		-3	Edge Mold Trim
	-5	400 Post		-4	Auxiliary Support Framing
	-6	Furring (")	096813	-1	Resilient Tile Flooring
	-7	Sheathing (")		-2	Resilient Wall Base
064116	-1	Interior Architectural Woodwork		-3	Edge Strip
				-4	Tactile Warning Surface
	-2	High Pressure Laminate		-5	Resilient Stair Tread
	-3	Cabinet Liner Laminate		-6	Resilient Stair Riser
	-4	Particle Board		-7	Resilient Stringer Skirt
	-5	Plywood		-8	Resilient Stair Nose
	-6	3mm Edge Molding	096813	-1	Carpet Tile
	-7	Solid Wood Blocking	096900	-1	Access Flooring
	-8	Hardwood	099113	-1	Exterior Painting
	-9	Steel Tube/Leg Frame	099123	-1	Interior Painting
	-10	Door Hinge	099635	-1	Secondary Containment Coating System
	-11	Door/Drawer Pull	101400	-1	Signage
	-12	Magnetic Catch	102113	-1	Toilet Partition
	-13	Drawer		-2	Toilet Accessories
	-14	Shelf Supports	102213	-1	Wire Mesh Partitions
	-15	Countertop	102800	-1	Impact-Resistant Cornerguard
	-16	Solid-surfacing Material			
071113	-1	Bituminous Dampproofing	102800	-1	Tissue Dispenser
071324	-1	Self-Adhering Sheet Waterproofing		-2	Framed Mirror
				-3	Sanitary Napkin Disposer
072100	-1	Foundation Mat or under Slab Insulation (R-)		-4	Grab Bar
				-5	Shower Seat
	-2	Cavity Wall Insulation (R-)		-6	Shower Curtain Rod
	-3	Building Insulation - Unfaced (R-)		-7	Coat/Robe Hook
				-9	Shower Curtain
	-4	Building Insulation - Faced (R-)	104413	-1	Fire Extinguisher Cabinet
			104416	-1	Fire Extinguisher
	-5	Sill Sealer	105113	-1	Personnel Locker
	-6	Batt Insulation			Locker
072126	-1	Fluid Applied Membrane Air Barrier		-3	Bench
			105300	-1	Pre- Manufactured Canopies
	-2	Flashing Tape			
074213	-1	Metal Wall Panel (Type 1)	107500	-1	Flagpole
	-2	Trim	108113	-1	Deterrent Spikes
	-3	Z-Furring (")	122413	-1	Roller Window Shades
	-4	Metal Wall Panel (Type 2)	123400	-1	Spray Painting Booth
	-5	Metal Soffit Panel	142400	-1	Hydraulic Elevator
075423	-1	Thermoplastic Polyolefin (TPO) Roofing	312000	-1	Site Clearing
			312200	-1	Earth Moving
	-2	Roof Insulation Flat		-2	Interior Fill
	-3	Roof Insulation Tapered		-3	Exterior Fill
	-4	Roof Expansion Joint		-4	Granular Drainage Course
	-5	Coverboard		-5	Subbase Course
	-6	Walkway Protection Board	321313	-1	Concrete Paving
076200	-1	Sheet Metal Flashing and Counterflashing	334600	-1	Perforated Wall Pipe & Fittings
	-2	Pre-Finished Roof Edge		-2	Geotextile Filter Fabric (Fabritech)
	-3	Pre-Finished Coping		-3	Drainage Panel
	-4	Sheet Metal Reglet			
	-5	Sheet Metal Gutter			
	-6	Sheet Metal Downspout			
077124	-1	Roof Expansion Joint			
077200	-1	Roof Hatch/Ladder			
078413	-1	Penetration Firestopping			
078443	-1	Joint Firestopping			
079200	-1	Sealant - Make where required			
	-2	Joint Filler			
	-3	Gasket			
	-4	Backer Rod			
079500	-1	Expansion Control			

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DENNIS A. HAIGH 4-15-15 LICENSED 2561 KANSAS PROFESSIONAL ARCHITECT

DATE:
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Department of Administration
Office of Facilities and Procurement Management
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Telephone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

BUILDING SECTIONS

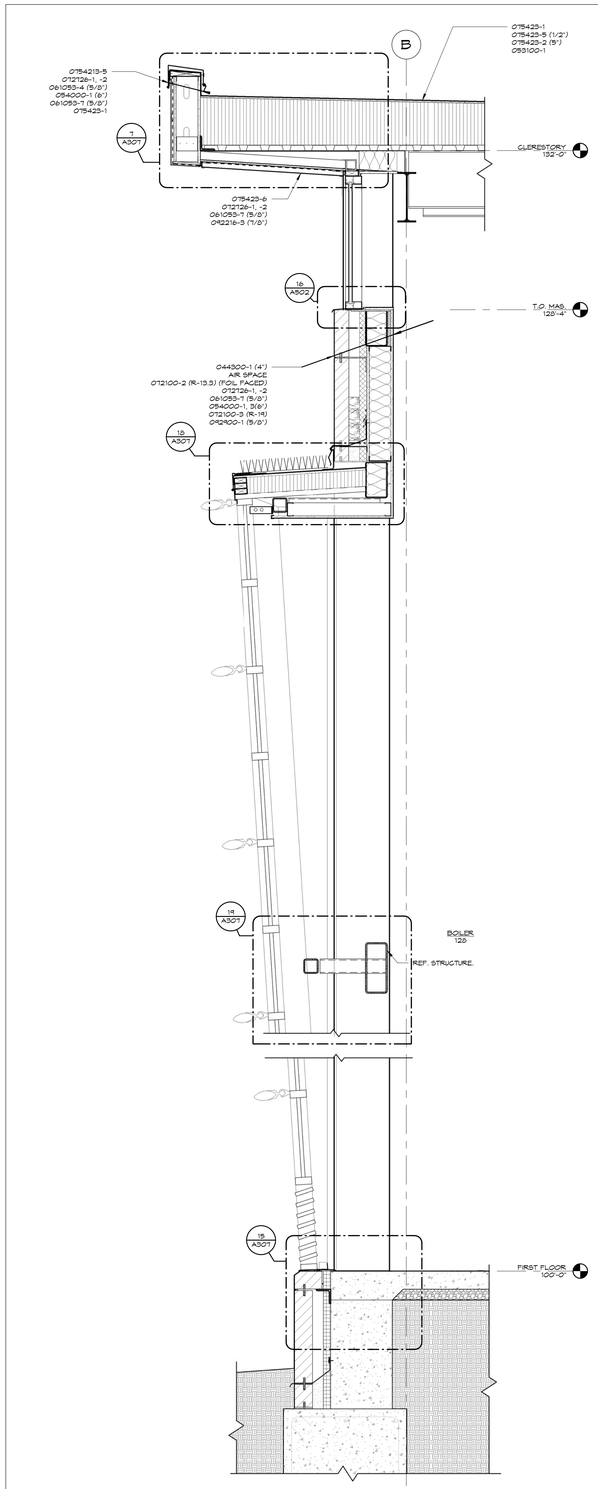
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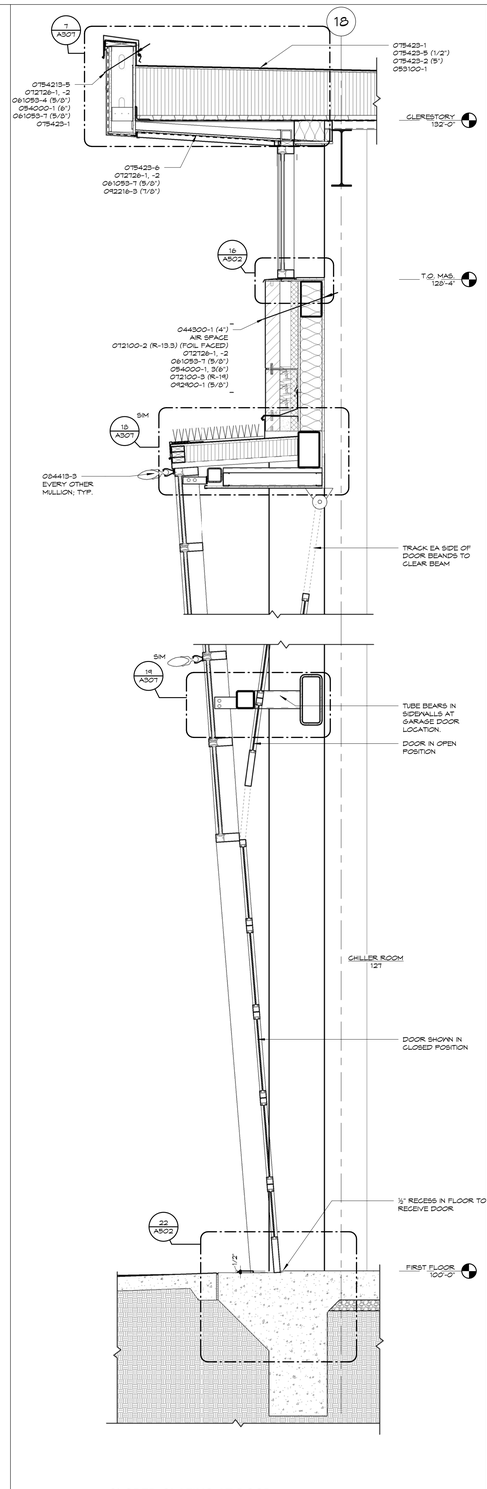
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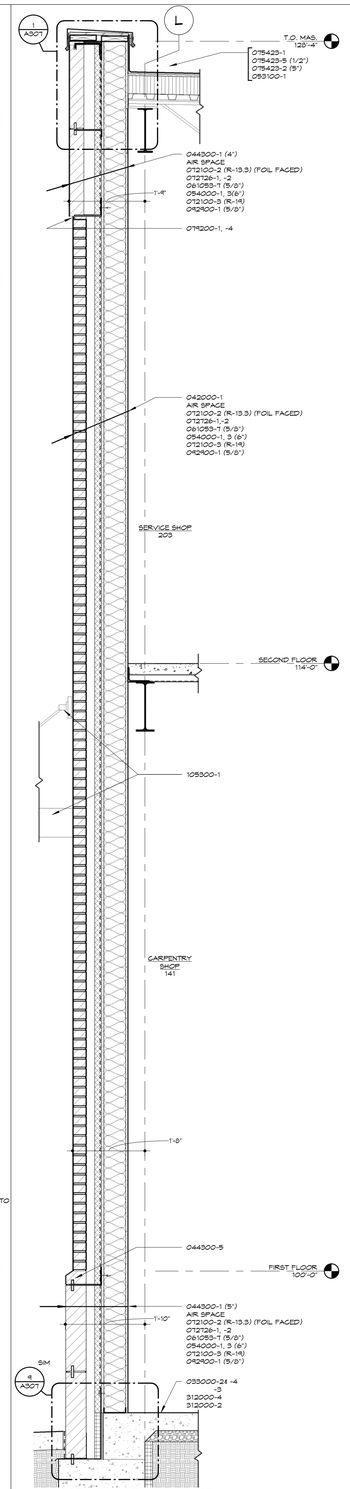
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2-2-2016
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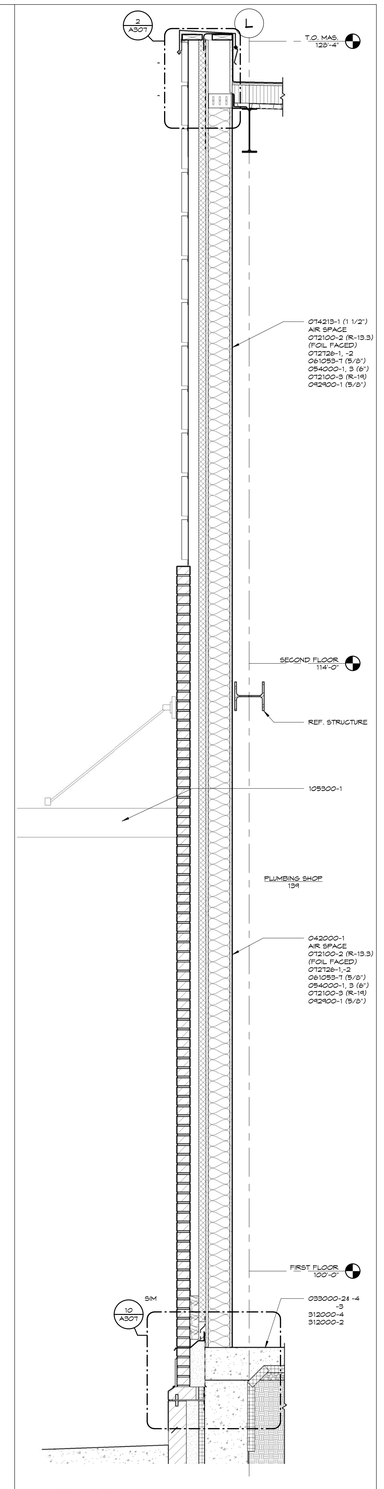
1 SLOPED GLAZING WALL
3/4" = 1'-0"



2 SLOPED GLAZING AT DOOR
3/4" = 1'-0"



3 EAST WALL AT MEZZANINE
3/4" = 1'-0"



4 TYP. EAST WALL
3/4" = 1'-0"

KEYNOTES

Note: Keynotes are drawn from a master list; it may not be sequentially numbered. Sizes (Ex. 2x4) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

033000	-1	Concrete Structure	081113	-1	Steel Door
	-2	Concrete Floor Slab		-2	Steel Frame
	-3	Vapor Barrier		-3	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Rustication Joint		-6	FPR Door
	-7	Expansion	081416	-1	Flush Wood Door
	-8	Dovetail Anchor	083113	-1	Access Door
	-9	Sidewalk		-2	Access Door Frame
	-10	Premolded Joint Filler		-3	Floor Access Door
035300	-1	Concrete Topping	083323	-1	Overhead Coiling Door
042000	-1	Face Brick		-2	Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Sectional Overhead Door
				-2	Sectional Overhead Door Track
	-3	Concrete Masonry Unit - Lightweight (")		-3	Weatherstripping
	-4	Wire Reinforcing	084113	-1	Aluminum Entrance Door
	-5	Metal Tie/Anchor		-2	Aluminum Entrance Frame
	-6	Through Wall Flashing		-3	Sunshade
	-7	Control Joint Strip		-4	Aluminum Subsill
	-8	Bond Beam (")	084413	-1	Glazed Aluminum Curtain Wall
	-9	Compressible Filler			Framing
	-10	Weep Hole		-2	Thru-Wall Flashing
	-11	Cavity Drainage Material		-3	Sunshade Louver
	-12	Termination Bar		-4	Aluminum Subsill
044300	-1	Stone Masonry	087100	-1	Track Hardware
	-2	Anchor	088000	-1	Glazing (as scheduled)
	-3	Stone Jamb	088085	-1	Security Glazing (as scheduled)
	-4	Stone Sill	089116	-1	Louvers and Vents
	-5	Belt Course	092216	-1	Steel Stud (")
041200	-1	Cast Stone		-2	Steel Stud Runner (")
051200	-1	Steel Beams		-3	Furring Channel (")
	-2	Steel Column	092400	-1	Portland Cement Plastering
	-3	Steel Tube		-2	Metal Lath
	-4	Steel Channel		-3	Casing Bead
052100	-1	Steel Joist	092900	-1	Gypsum Board (")
	-2	Joist - Extended End		-2	Fire Rated Gypsum Board
	-3	Joist - Ceiling Extension			Assembly
053100	-1	Steel Decking		-3	Cementitious Tile Backer Panel
	-2	Steel Composite Decking		-4	Metal Suspension System
	-3	Flexible Closure Strips		-5	Acoustical Sealant
054000	-1	Structural Steel Studs		-6	Acoustical Insulation (")
	-2	Structural Steel Joists		-7	Metal Edge Trim
	-3	'Z' Closure		-8	Auxiliary Support Framing
055000	-1	Steel Angle		-9	Metal Control Joint
	-2	Steel Channel		-10	High Impact Gypsum Board
	-3	Steel Lintel		-11	Concrete Interior Finishing Compound
	-4	Steel Pipe		-12	Stiffener
	-5	Steel Tube	093000	-1	Porcelain Pedi Tile
	-6	Steel Plate			Composite
	-7	Steel Ladder		-2	Shower Pan
	-8	Steel Bollard		-3	Shower Pan Flashing
	-9	Steel Stairs		-4	Porcelain Floor Tile
	-10	Steel Stair Stringer			(" x ")
	-11	Steel Railing Post		-5	Tile Base
	-12	Steel Pipe Handrail		-6	Tile Cap
	-13	Steel Pipe Rail/Post		-7	Setting Bed
	-14	Steel Handrail Wall Bracket		-8	Uncoupling water-proof membrane
	-15	Steel Rod		-9	Shower Splashguard
	-16	Steel Grating		-10	Shower Niche
	-17	Steel Frame	095113	-1	Acoustical Panel (x) (F = Fire Rated)
055300	-1	Decorative Metal Railings		-2	Ceiling Suspension System
057500	-1	Ornamental Metal Stamped Grille		-3	Edge Mold Trim
061053	-1	2x Wood Nailer (")		-4	Auxiliary Support Framing
	-2	2x Wood Blocking (")	096513	-1	Resilient Tile Flooring
	-3	1x Wood Continuous (")		-2	Resilient Wall Base
	-4	Plywood (")		-3	Edge Strip
	-5	4x6 Post		-4	Tactile Warning Surface
	-6	Sheathing (")		-5	Resilient Stair Tread
	-7	Interior Architectural Woodwork		-6	Resilient Stair Riser
	-8	High Pressure Laminate		-7	Resilient Stringer Skirt
	-9	Cabinet Liner Laminate		-8	Resilient Stair Nose
	-10	Particle Board		-9	Resilient Stair Nose
	-11	Plywood		-10	Carpet Tile
	-12	Trim Edge Molding	096813	-1	Access Flooring
	-13	Solid Wood Blocking	098100	-1	Access Flooring
	-14	Hardwood	099113	-1	Exterior Painting
	-15	Steel Tube/Leg Frame	099123	-1	Interior Painting
	-16	Door Hinge	099635	-1	Secondary Containment Coating System
	-17	Door/Drawer Pull	101400	-1	Signage
	-18	Magnetic Catch	102113	-1	Toilet Partition
	-19	Drawer		-2	Urinal Screen
	-20	Shelf Supports	102213	-1	Wire Mesh Partitions
	-21	Countertop	102600	-1	Impact-Resistant Corner-guard
	-22	Solid-surfacing Material	102800	-1	Tissue Dispenser
071113	-1	Bituminous Dampproofing		-2	Framed Mirror
071326	-1	Self-Adhering Sheet Waterproofing		-3	Sanitary Napkin Disposer
072100	-1	Foundation Mat or Under Slab Insulation (R-)		-4	Grab Bar
	-2	Cavity Wall Insulation (R-)		-5	Shower Seat
	-3	Building Insulation - Unfaced (R-)		-6	Shower Curtain Rod
	-4	Building Insulation - Faced (R-)	104413	-1	Coat/Robe Hook
	-5	Sill Sealer	104416	-1	Shower Curtain
	-6	Blown Insulation	105113	-1	Fire Extinguisher Cabinet
072126	-1	Fluid Applied Membrane Air Barrier		-2	Fire Extinguisher
	-2	Flashing Tape	105513	-1	Personnel Locker
074213	-1	Metal Wall Panel (Type 1)			Bench
	-2	Trim	105613	-1	Locker
	-3	Z-Furring (")	122413	-1	Pre- Manufactured Canopies
	-4	Metal Wall Panel (Type 2)	123600	-1	Flagpole
	-5	Metal Soffit Panel	142400	-1	Deterrent Spikes
075423	-1	Thermoplastic Polyolefin (TPO) Roofing	312000	-1	Roller Window Shades
	-2	Roof Insulation Flat		-2	Spray Painting Booth
	-3	Roof Insulation Tapered		-3	Hydraulic Elevator
	-4	Roof Expansion Joint		-4	Granular Drainage Course
	-5	Roof Drain		-5	Subbase Course
	-9	Railway Protection Board	321313	-1	Concrete Paving
076200	-1	Sheet Metal Flashing and Counterflashing	334600	-1	Perforated Well Pipe & Fittings
	-2	Pre-finished Roof Edge		-2	Geotextile Filter Fabric (Mat/Book)
	-3	Pre-finished Coping		-3	Drainage Panel
	-4	Sheet Metal Reglet			
	-5	Sheet Metal Gutter			
	-8	Sheet Metal Downspout			
	-7	Sheet Metal Scupper			
077124	-1	Roof Expansion Joint			
077200	-1	Roof Hatch/Ladder			
078413	-1	Penetration Firestopping			
078440	-1	Joint Firestopping			
079200	-1	Sealant - Rake where Occurs			
	-2	Joint Filler			
	-3	Gasket			
	-4	Backer Rod			
079500	-1	Expansion Control			

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

NOTE: REFER TO ALL SECTIONS (SECTIONS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

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LICENSED
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KANSAS
PROFESSIONAL ARCHITECT

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15
-

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

WALL SECTIONS

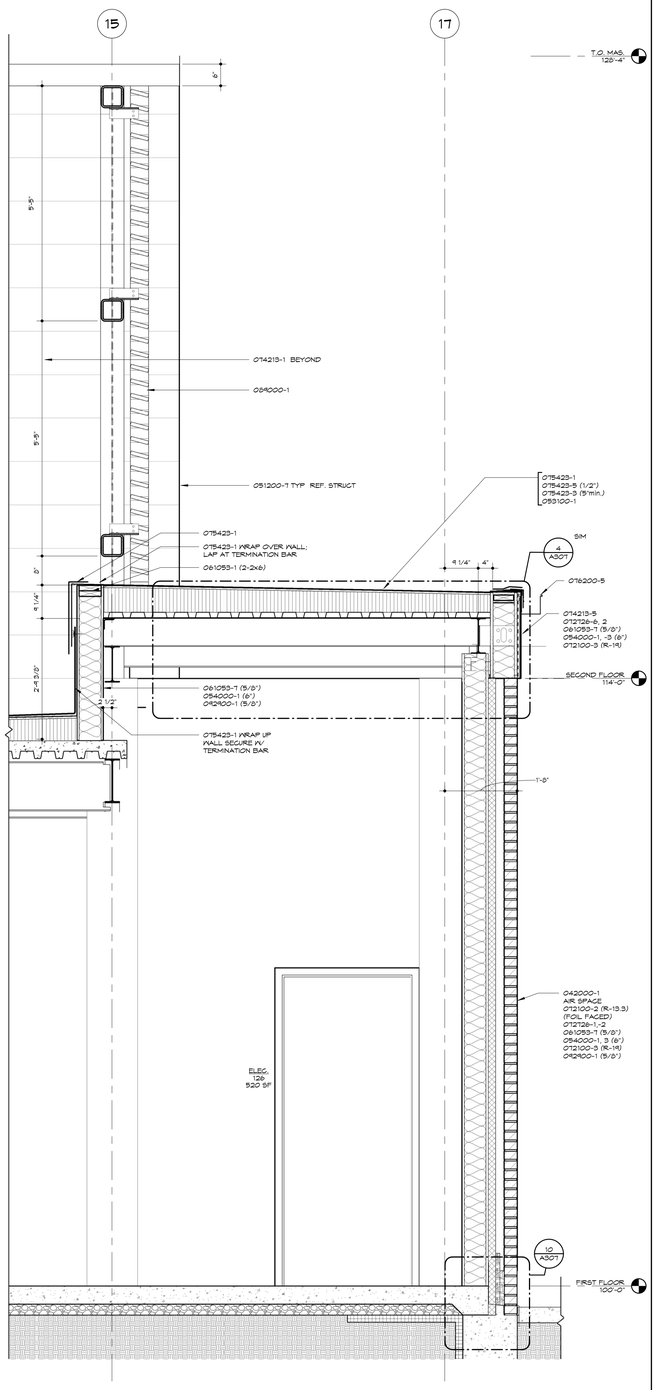
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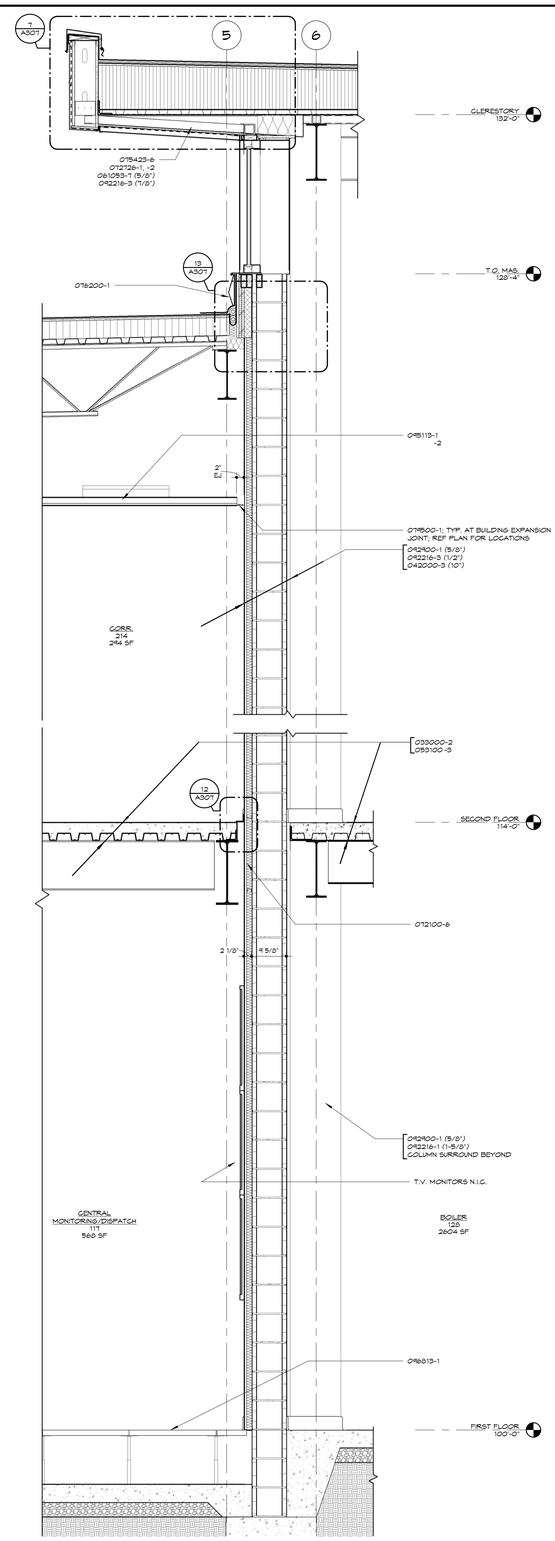
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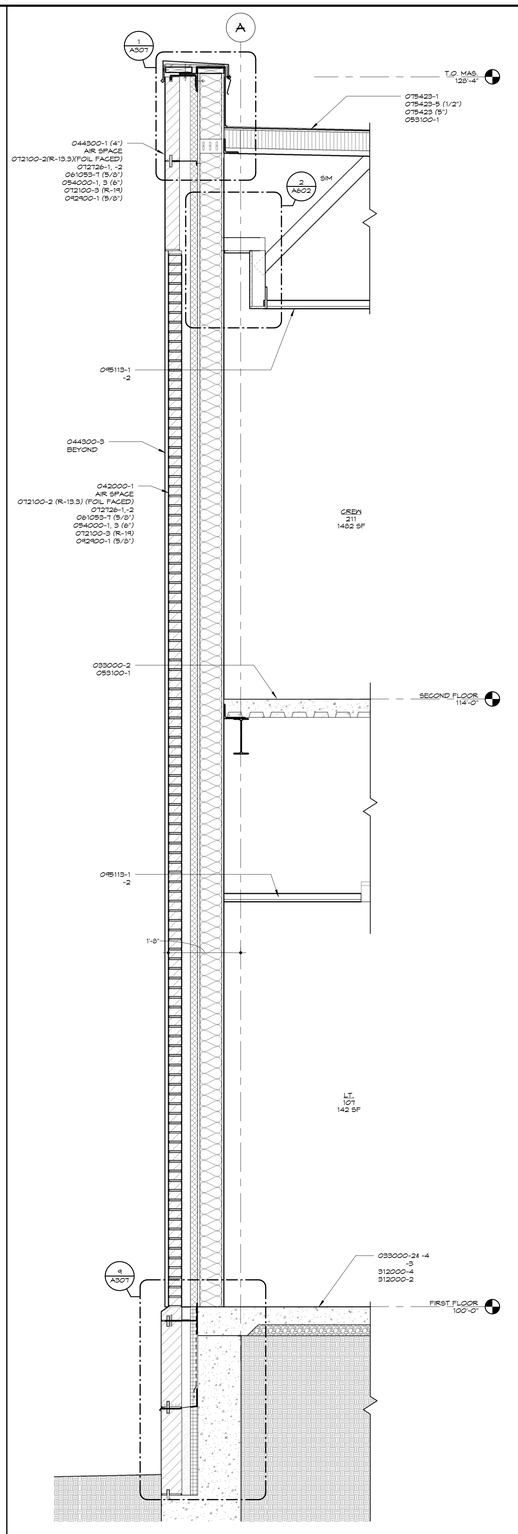
JCSBC
2-2-2016
Att.9C.--0036



1 WALL AT MECHANICAL ROOF
3/4" = 1'-0"



2 MEZZANINE AT MECHANICAL ROOMS
3/4" = 1'-0"



3 TYP. WEST AND NORTH WALL
3/4" = 1'-0"

KEYNOTES

Note: Keynotes are drawn from a master list. It may not be sequentially numbered. Sizes (ex. 2x4) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

033000	-1	Concrete Structure	081113	-1	Steel Door
	-2	Concrete Floor Slab		-2	Steel Frame
	-3	Vapor Barrier		-3	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Rustication Joint		-6	FPR Door
	-7	Pedestal	081416	-1	Wood Sliding Door
	-8	Concrete Anchor	083113	-1	Access Door
	-9	Sidewalk		-2	Access Door Frame
	-10	Premolded Joint Filler		-3	Floor Access Door
035300	-1	Concrete Topping	083323	-1	Overhead Coiling Door
042000	-1	Face Brick		-2	Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Sectional Overhead Door
				-2	Sectional Overhead Door Track
	-3	Concrete Masonry Unit - Lightweight (")		-3	Weatherstripping
	-4	Wire Reinforcing	084113	-1	Aluminum Entrance Door
	-5	Metal Tie/Anchor		-2	Aluminum Entrance Frame
	-6	Through Wall Flashing		-3	Sunshade
	-7	Control Joint Strip		-4	Aluminum Bubsill
	-8	Bond Beam (")	084413	-1	Glazed Aluminum Curtain Wall
	-9	Compressible Filler			
	-10	Cavity		-2	Thru-Wall Flashing
	-11	Cavity Drainage Material		-3	Sunshade Louver
	-12	Termination Bar		-4	Aluminum Bubsill
044300	-1	Stone Masonry	087100	-1	Track Hardware
	-2	Anchor	088000	-1	Glazing (as scheduled)
	-3	Stone Jamb	088065	-1	Security Glazing (as scheduled)
	-4	Stone Sill			
	-5	Belt Course	089116	-1	Louvers and Vents
041200	-1	Cast Stone	092216	-1	Steel Stud (")
051200	-1	Steel Beams		-2	Steel Stud Runner (")
	-2	Steel Column		-3	Furring Channel (")
	-3	Steel Tube	092400	-1	Portland Cement Plastering
	-4	Steel Channel		-2	Metal Lath
052100	-1	Steel Joist		-3	Casing Bead
	-2	Joist - Extended End	092900	-1	Gypsum Board (")
	-3	Joist - Ceiling Extension		-2	Fire Rated Gypsum Board
053100	-1	Steel Deck			(")
	-2	Steel Composite Decking		-3	Cementitious Tile Backer Panel
	-3	Flexible Closure Strips			
054000	-1	Structural Steel Studs		-4	Metal Suspension System
	-2	Structural Steel Joists		-5	Acoustical Sealant
	-3	'C' Column		-6	Acoustical Insulation (")
055000	-1	Steel Angle		-7	Metal Edge Trim
	-2	Steel Channel		-8	Auxiliary Supports Framing
	-3	Steel Lintel		-9	Metal Control Joint
	-4	Steel Pipe		-10	High Impact Gypsum Board
	-5	Steel Tube		-11	Concrete Interior Finishing Compound
	-6	Steel Plate		-12	Stiffener
	-7	Steel Ladder	093000	-1	Porcelain Wall Tile
	-10	Steel Bollard			
055100	-1	Steel Stairs		-2	Shower Pan
	-2	Steel Tread Stringer		-3	Shower Pan Flashing
	-3	Steel Infilled Plate		-4	Porcelain Floor Tile
055213	-1	Steel Pipe Handrail			(" x ")
	-2	Steel Pipe Railings		-5	Tile Base
	-3	Steel Handrail Wall Bracket		-6	Tile Cap
	-4	Steel Rail		-7	Setting Bed
055500	-1	Steel Grating		-8	Unbonding water-proof membrane
	-2	Steel Frame		-9	Shower Splashguard
057500	-1	Decorative Metal Railings		-10	Shower Niche
057500	-1	Ornamental Metal Stamped Grille		-11	Acoustical Panel (x) (1 HR = Fire Rated)
061053	-1	2x Wood Nailer (")	095113	-1	Ceiling Suspension System
	-2	2x Wood Blocking (")		-2	Edge Mold Trim
	-3	4x Wood Continuous (")		-3	Edge Moldings
	-4	Plywood (")		-4	Auxiliary Support Framing
	-5	4x6 Post		-5	Resilient Tile Flooring
	-6	Wood Blocking, breathing (")	096513	-1	Resilient Wall Base
064116	-1	Interior Architectural Woodwork		-3	Edge Strip
	-2	High Pressure Laminate		-4	Tactile Warning Surface
	-3	Cabinet Liner Laminate		-5	Resilient Stair Tread
	-4	Particle Board		-6	Resilient Stair Riser
	-5	Plywood		-7	Resilient Stringer Skirt
	-6	3mm Edge Molding		-8	Resilient Stair Nose
	-7	Solid Wood Blocking	096813	-1	Carpet Tile
	-8	Hardwood	096900	-1	Access Flooring
	-9	Steel Tube/Leg Frame	098113	-1	Exterior Painting
	-10	Door Hinge	098123	-1	Interior Painting
	-11	Door/Drawer Pull	099635	-1	Secondary Containment Coating System
	-12	Magnetic Catch	101400	-1	Signage
	-13	Drawer	102213	-1	Toilet Partition
	-14	Shelf Supports		-2	Urinal Screen
	-15	Countertop	102223	-1	Wire Mesh Partitions
	-16	Solid-surfacing Material	102800	-1	Impact-Resistant Cornerguard
071113	-1	Bituminous Dampproofing	102800	-1	Tissue Dispenser
071326	-1	Self-Adhering Sheet Waterproofing		-2	Framed Mirror
				-3	Sanitary Napkin Disposer
072100	-1	Foundation Wall or Under Slab Insulation (R-)		-4	Grab Bar
	-2	Cavity Wall Insulation (R-)		-5	Shower Seat
	-3	Building Insulation - Unfaced (R-)		-6	Shower Curtain Rod
	-4	Building Insulation - Faced (R-)	104413	-1	Coat/Robe Hook
	-5	Sill Sealer	104416	-1	Shower Curtain
	-6	Batt Insulation	105113	-1	Fire Extinguisher Cabinet
072126	-1	Fluid Applied Membrane Air Barrier		-1	Fire Extinguisher
	-2	Flashing Tape		-1	Personnel Locker
074213	-1	Metal Wall Panel (Type 1)		-2	Locker
	-2	Trim		-3	Bench
	-3	Z-Furring (")		-1	Pre - Manufactured Canopies
	-4	Metal Wall Panel (Type 2)	107500	-1	Flagpole
	-5	Metal Soffit Panel	108113	-1	Deterrent Spikes
074213	-1	Thermoplastic Polyolefin (TPO) Roofing	122413	-1	Roller Window Shades
	-1	Roof Insulation Flat	133600	-1	Spray Painting Booth
	-2	Roof Insulation Tapered	142400	-1	Hydraulic Elevator
	-4	Roof Expansion Joint	312000	-1	Site Clearing
	-5	Coverboard	312000	-1	Earth Moving
	-6	Railway Protection Board	321313	-2	Interior Fill
076200	-1	Sheet Metal Flashing and Counterflashing	334600	-5	Exterior Fill
	-2	Pre-Finished Roof Edge		-1	Granular Drainage Course
	-3	Pre-Finished Coping		-5	Subbase Course
	-4	Sheet Metal Reglet		-1	Concrete Paving
	-5	Sheet Metal Gutter		-2	Geotextile Filter Fabric (Flat/Sock)
	-6	Sheet Metal Downspout		-3	Drainage Panel
	-7	Sheet Metal Soupper			
077124	-1	Roof Expansion Joint			
077200	-1	Roof Hatch/Ladder			
078413	-1	Penetration Firestopping			
078445	-1	Joint Firestopping			
079200	-1	Sealant - Rake where required			
	-2	Joint Filler			
	-3	Gasket			
	-4	Backer Rod			
079500	-1	Expansion Control			

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

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ROBERT R. McCLAUGHLIN — LICENSED — 13435 — 4-15-15 — KANSAS — PROFESSIONAL ENGINEER

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 173000038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

WALL SECTIONS

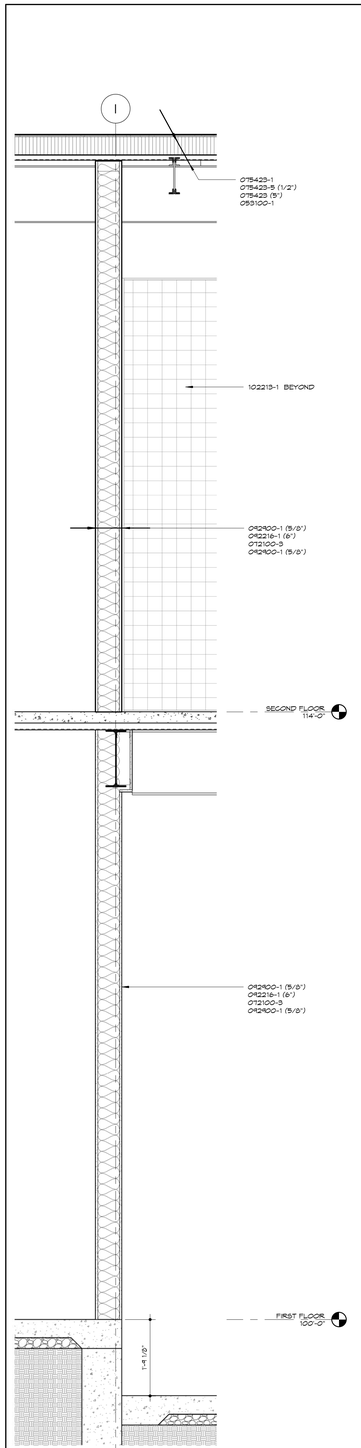
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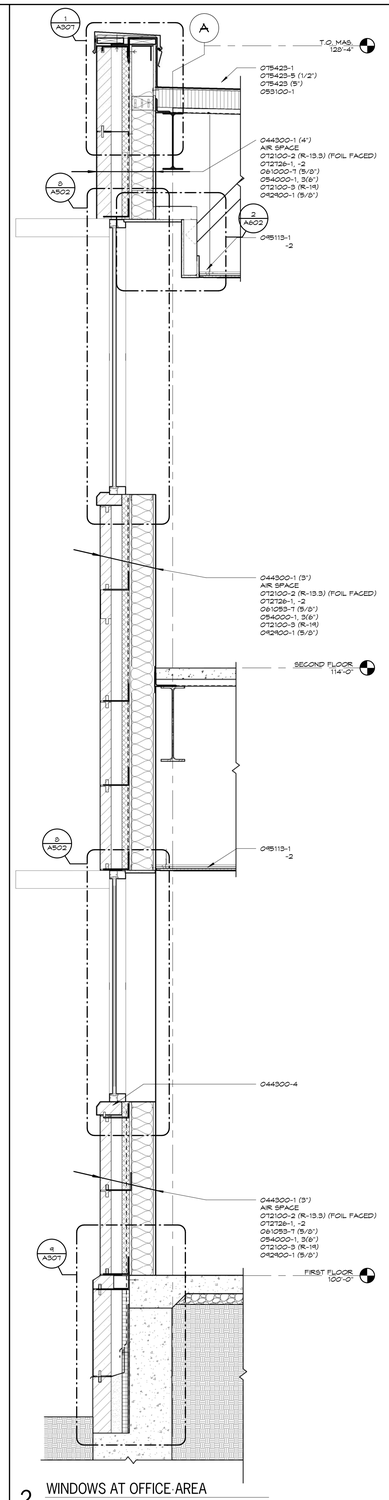
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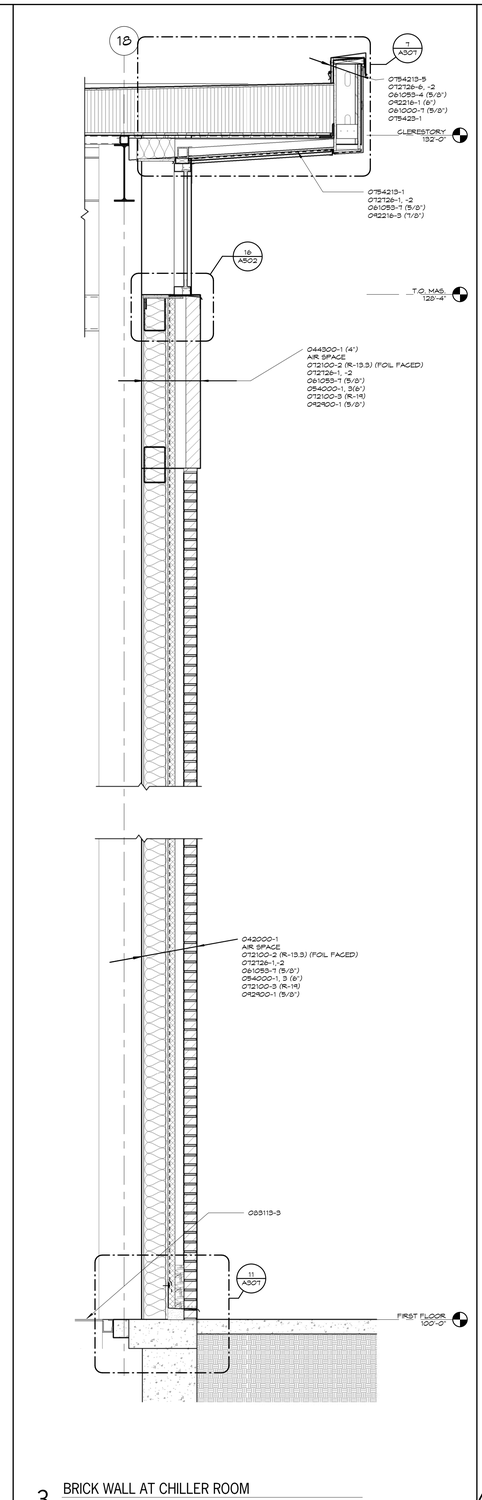
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2-2-2016
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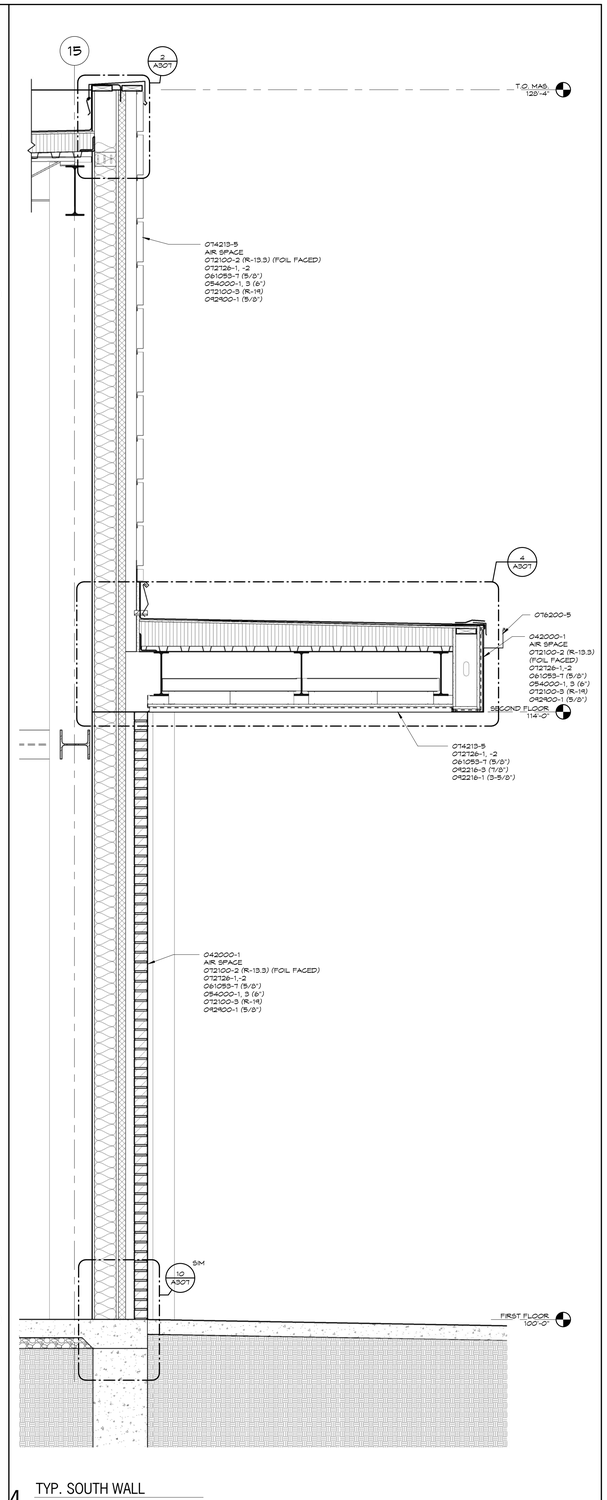
1 CORRIDOR WALL
3/4" = 1'-0"



2 WINDOWS AT OFFICE AREA
3/4" = 1'-0"



3 BRICK WALL AT CHILLER ROOM
3/4" = 1'-0"



4 TYP. SOUTH WALL
3/4" = 1'-0"

KEYNOTES

Note: Keynotes are drawn from a master list. It may not be sequentially numbered. Sizes (Ex. 2x4) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

033000	-1	Concrete Structure	081113	-1	Steel Door
	-2	Concrete Floor Slab		-2	Steel Frame
	-3	Vapor Barrier		-3	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Rustication Joint		-6	FIRE Door
	-7	Waterstop	081416	-1	Flush Wood Door
	-8	Dovetail Anchor	083113	-1	Access Door
	-9	Sleeve		-2	Access Door Frame
	-10	Premolded Joint Filler		-3	Floor Access Door
035000	-1	Concrete Topping	083323	-1	Overhead Coiling Door
042000	-1	Face Brick		-2	Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Sectional Overhead Door
				-2	Sectional Overhead Door Track
	-3	Concrete Masonry Unit - Lightweight (")		-3	Weatherstripping
	-4	Wire Reinforcing	084113	-1	Aluminum Entrance Door
	-5	Metal Tie/Anchor		-2	Aluminum Entrance Frame
	-6	Through Wall Flashing		-3	Sunshade
	-7	Control Joint Strip		-4	Aluminum Subsill
	-8	Bond Beam (")	084413	-1	Glazed Aluminum Curtain Wall
	-9	Compressible Filler			
	-10	Cavity		-2	Thru-Wall
	-11	Cavity Drainage Material		-3	Sunshade Louver
	-12	Termination Bar		-4	Aluminum Subsill
044300	-1	Stone Masonry	087100	-1	Track Hardware
	-2	Anchor	088000	-1	Glazing (as scheduled)
	-3	Stone Jamb	088053	-1	Security Glazing (as scheduled)
	-4	Stone Sill			
	-5	Belt Course	089116	-1	Louvers and Vents
047200	-1	Cast Stone	092216	-1	Steel Stud (")
051200	-1	Steel Beams		-2	Steel Stud Runner (")
	-2	Steel Column		-3	Furring Channel (")
	-3	Steel Tube	092400	-1	Portland Cement Plastering
	-4	Steel Channel		-2	Metal Lath
052100	-1	Steel Joist		-3	Casing Bead
	-2	Joist - Extended End	092900	-1	Gypsum Board (")
	-3	Joists - Ceiling Extension		-2	Fire Rated Gypsum Board Assembly
053100	-1	Steel Decking			
	-2	Steel Composite Decking		-3	Cementitious Tile Backer Panel
	-3	Flexible Closure Strips			
054000	-1	Structural Steel Studs		-4	Metal Suspension System
	-2	Structural Steel Joists		-5	Acoustical Sealant
	-3	'C' Column		-6	Acoustical Insulation (")
055000	-1	Steel Angle		-7	Metal Edge Trim
	-2	Steel Channel		-8	Auxiliary Supports Framing
	-3	Steel Lintel		-9	Metal Control Joint
	-4	Steel Pipe		-10	High Impact Gypsum Board
	-5	Steel Tube		-11	Concrete Interior Finishing Compound
	-6	Steel Plate			
	-7	Steel Ladder		-12	Stiffener
	-8	Steel Bollard	093000	-1	Porcelain Pell Tile
055100	-1	Steel Stairs			(" x ")
	-2	Steel Tread Stringer		-2	Shower Pan
	-3	Steel Baked Plate		-3	Shower Pan Flashing
055213	-1	Steel Pipe Handrail		-4	Porcelain Floor Tile (" x ")
	-2	Steel Pipe Railings			
	-3	Steel Handrail Wall Bracket		-5	Tile Base
	-4	Steel Rod		-6	Tile Cap
055300	-1	Steel Grating		-7	Setting Bed
	-2	Steel Frame		-8	Uncoupling water-proof membrane
057300	-1	Decorative Metal Railings			
057500	-1	Ornamental Metal Stamped Grille		-9	Shower Splashguard
				-10	Shower Niche
061053	-1	2x Wood Nailer (")	095113	-1	Acoustical Panel (x) (1 = Fire Rated)
	-2	2x Wood Blocking (")			
	-3	1x Wood Continuous (")		-2	Ceiling Suspension System
	-4	Plywood (")		-3	Edge Mold Trim
	-5	100 Mat		-4	Auxiliary Supports Framing
	-6	Rough Carpentry	096813	-1	Tile Carpet Floor Covering
	-7	Sheathing (")		-2	Resilient Pell Base
064116	-1	Interior Architectural Woodwork		-3	Edge Strip
				-4	Tactile Warning Surface
	-2	High Pressure Laminate		-5	Resilient Stair Tread
	-3	Cabinet Liner Laminate		-6	Resilient Stair Riser
	-4	Particle Board		-7	Resilient Stringer Skirt
	-5	Plywood		-8	Resilient Stair Nose
	-6	5mm Edge Molding	096813	-1	Carpet Tile
	-7	Solid Wood Blocking	096900	-1	Access Flooring
	-8	Hardwood	099113	-1	Exterior Painting
	-9	Steel Tube/Leg Frame	099123	-1	Interior Painting
	-10	Door Hinge	099635	-1	Secondary Containment Coating System
	-11	Door/Drawer Pull	101400	-1	Signage
	-12	Magnetic Catch	102113	-1	Toilet Partition
	-13	Drawer		-2	Toilet Accessories
	-14	Shelf Supports	102213	-1	Wire Mesh Partitions
	-15	Countertop	102800	-1	Impact-Resistant Corner-guard
	-16	Solid-surfacing Material			
071113	-1	Bituminous Dampproofing	102800	-1	Tissue Dispenser
071326	-1	Self-Adhering Sheet Waterproofing		-2	Framed Mirror
				-3	Sanitary Napkin Disposer
072100	-1	Foundation Wall or Under Slab Insulation (R-)		-4	Grab Bar
				-5	Shower Seat
	-2	Cavity Wall Insulation (R-)		-6	Shower Curtain Rod
	-3	Building Insulation - Unfaced (R-)		-7	Coat/Robe Hook
				-8	Shower Curtain
	-4	Building Insulation - Faced (R-)	104413	-1	Fire Extinguisher Cabinet
			104416	-1	Fire Extinguisher
	-5	Sill Sealer	105113	-1	Personnel Locker
	-6	Batt Insulation		-2	Locker
072126	-1	Fully Applied Membrane Air Barrier	105500	-3	Bench
				-4	Pre- Manufactured Canopies
	-2	Flashing Tape			
074213	-1	Metal Wall Panel (Type 1)	107800	-1	Flagpole
	-2	Trim	108113	-1	Deterrent Spikes
	-3	Z-Furring (")	122413	-1	Roller Window Shades
	-4	Metal Wall Panel (Type 2)	135600	-1	Spray Painting Booth
	-5	Metal Soffit Panel	142400	-1	Hydraulic Elevator
075423	-1	Thermoplastic Polyolefin (TPO) Roofing	310000	-1	Site Clearing
			312000	-1	Earth Moving
	-2	Roof Insulation Flat		-2	Interior Fill
	-3	Roof Insulation Tapered		-3	Exterior Fill
	-4	Roof Expansion Joint		-4	Granular Drainage Course
	-5	Roof Insulation		-5	Subbase Course
	-6	Railway Protection Board	321313	-1	Concrete Paving
076200	-1	Sheet Metal Flashing and Counterflashing	334600	-1	Perforated Pell Pipe 4 Fittings
	-2	Pre-finished Roof Edge		-2	Geotextile Filter Fabric (Mat/book)
	-3	Pre-finished Coping		-3	Drainage Panel
	-4	Sheet Metal Reglet			
	-5	Sheet Metal Gutter			
	-6	Sheet Metal Downspout			
	-7	Sheet Metal Scupper			
077124	-1	Roof Expansion Joint			
077200	-1	Roof Hatch/Ladder			
078413	-1	Penetration Firestopping			
078446	-1	Joint Firestopping			
079200	-1	Sealant - Rake where Occurs			
	-2	Joint Rod			
	-3	Gasket			
	-4	Backer Rod			
079500	-1	Expansion Control			

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

NOTE: REFER TO ALL SECTIONS (SECTIONS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

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DENNIS A. HAIGH — LICENSED — 4-15-15 — 2561 — KANSAS — PROFESSIONAL ARCHITECT

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15
-

HTK PROJECT NUMBER:
- 1410.03

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Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
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FAX: 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

WALL SECTIONS

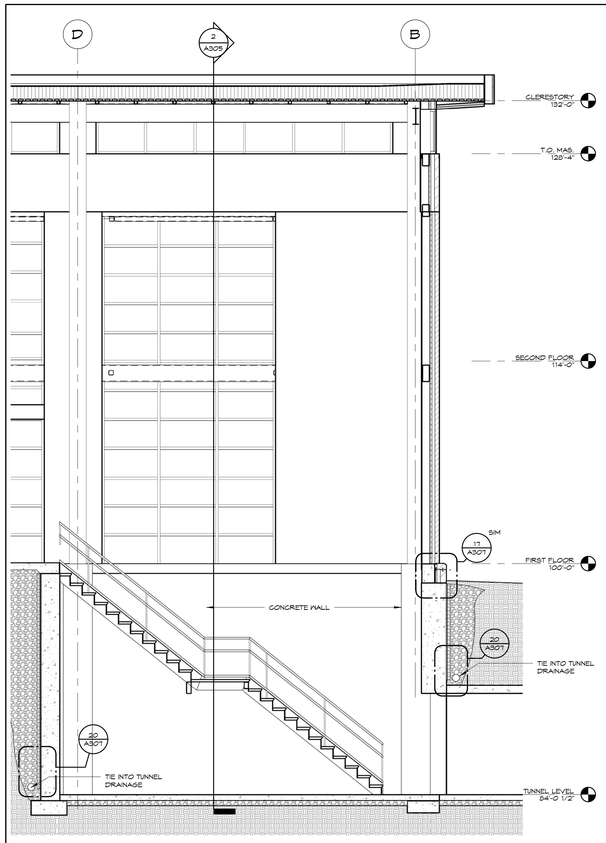
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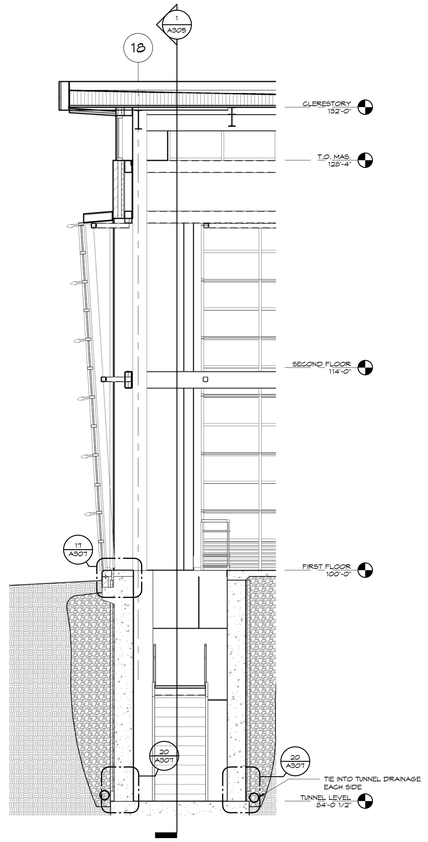
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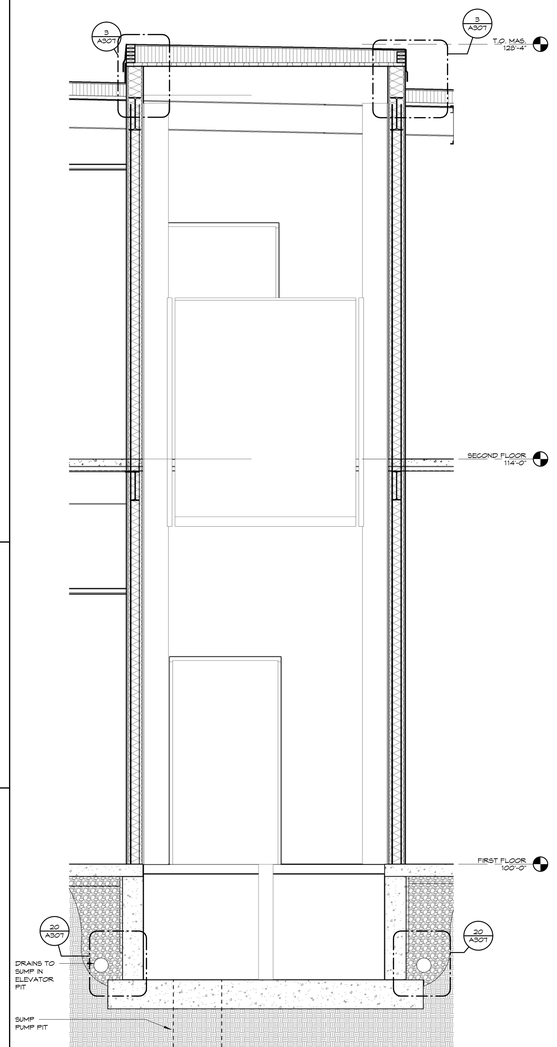
JCSBC
2-2-2016
Att.9C.--0038



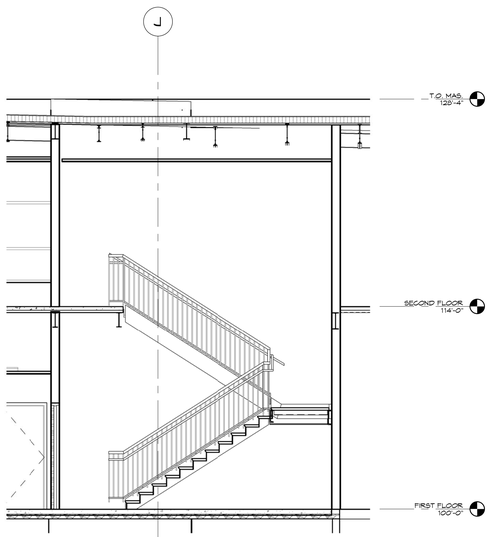
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1/4" = 1'-0"



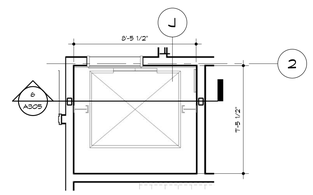
2 TUNNEL ACCESS 2
1/4" = 1'-0"



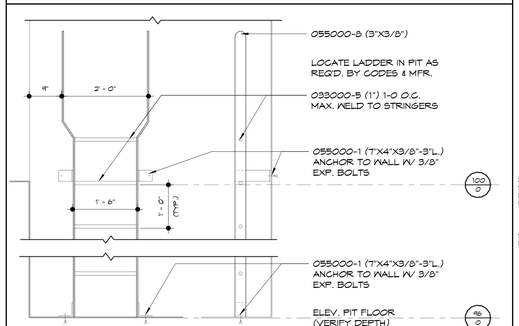
6 ELEVATOR
1/2" = 1'-0"



3 STAIR
1/4" = 1'-0"



7 ENLARGED ELEVATOR PLAN
1/4" = 1'-0"



8 ELEVATOR PIT LADDER
3/4" = 1'-0"

KEYNOTES

Note: Keynotes are drawn from a master list; it may not be sequentially numbered. Sizes (Ex. 2x4) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

033000	-1	Concrete Structure	081113	-1	Steel Door
	-2	Concrete Floor Slab		-2	Steel Frame
	-3	Vapor Barrier		-3	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Rustication Joint		-6	FRP Door
	-7	Dovetail Slot	081416	-1	Flush Wood Door
	-8	Dovetail Anchor	083113	-1	Access Door
	-9	Sidewalk		-2	Access Door Frame
	-10	Premolded Joint Filler		-3	Floor Access Door
035300	-1	Concrete Topping	083323	-1	Overhead Coiling Door
042000	-1	Face Brick		-2	Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Sectional Overhead Door
				-2	Sectional Overhead Door Track
	-3	Concrete Masonry Unit - Lightweight (")		-3	Weatherstripping
	-4	Wire Reinforcing	084113	-1	Aluminum Entrance Door
	-5	Metal Tie/Anchor		-2	Aluminum Entrance Frame
	-6	Through Wall Flashing		-3	Sunshade
	-7	Control Joint Strip		-4	Aluminum Subsill
	-8	Bond Beam (")	084413	-1	Glazed Aluminum Curtain Wall
	-9	Compressible Filler			
	-10	Cavity		-2	Trim
	-11	Cavity Drainage Material		-3	Sunshade Louver
	-12	Termination Bar		-4	Aluminum Subsill
044300	-1	Stone Masonry	087100	-1	Track Hardware
	-2	Anchor	088000	-1	Glazing (as scheduled)
	-3	Stone Jamb	088085	-1	Security Glazing (as scheduled)
	-4	Stone Sill			
	-5	Belt Course	091116	-1	Louvers and Vents
047200	-1	Cast Stone	092216	-1	Steel Stud (")
051200	-1	Steel Beams		-2	Steel Stud Runner (")
	-2	Steel Column		-3	Furring Channel (")
	-3	Steel Tube	092400	-1	Portland Cement Plastering
	-4	Steel Channel		-2	Metal Lath
052100	-1	Steel Joist		-3	Casing Bead
	-2	Joist - Extended End	092900	-1	Gypsum Board (")
	-3	Joist - Ceiling Extension		-2	Fire Rated Gypsum Board (")
053100	-1	Steel Decking			
	-3	Steel Composite Decking		-3	Cementitious Tile Backer Panel
	-2	Flexible Closure Strips			
054000	-1	Structural Steel Studs		-4	Metal Suspension System
	-2	Structural Steel Joists		-5	Acoustical Sealant
	-3	'Z' Closure		-6	Acoustical Insulation (")
055000	-1	Steel Angle		-7	Metal Edge Trim
	-4	Steel Channel		-8	Auxiliary Supports Framing
	-5	Steel Lintel		-9	Metal Control Joint
	-6	Steel Pipe		-10	High Impact Gypsum Board
	-7	Steel Tube		-11	Concrete Interior Finishing Compound
	-8	Steel Plate			
	-9	Steel Ladder		-12	Stiffener
	-10	Steel Bollard	093000	-1	Porcelain Wall Tile
055100	-1	Steel Stairs			
	-2	Steel Tube Stringer		-2	Shower Pan
	-3	Steel Stringer Plate		-3	Shower Pan Flashing
055213	-1	Steel Pipe Handrail		-4	Porcelain Floor Tile
	-2	Steel Pipe Railings			(" x ")
	-3	Steel Handrail Wall Bracket		-5	Tile Base
	-4	Steel Rod		-6	Tile Cap
055300	-1	Steel Grating		-7	Setting Bed
	-2	Steel Frame		-8	Uncoupling water-proof membrane
057300	-1	Decorative Metal Railings			
057500	-1	Ornamental Metal Stamped Grille		-9	Shower Splashguard
				-10	Shower Niche
061053	-1	2x Wood Nailer (")	095113	-1	Acoustical Panel (" x ") (Fl = Fire Rated)
	-2	2x Wood Blocking (")			
	-3	1x Wood Continuous (")		-2	Ceiling Suspension System
	-4	Plywood (")		-3	Edge Mold Trim
	-5	4x6 Post		-4	Auxiliary Support Framing
	-6	Wood Joist	096513	-1	Resilient Tile Flooring
	-7	Sheathing (")		-2	Resilient Wall Base
064116	-1	Interior Architectural Woodwork		-3	Edge Strip
				-4	Tactile Warning Surface
	-2	High Pressure Laminate		-5	Resilient Stair Tread
	-3	Cabinet Liner Laminate		-6	Resilient Stair Riser
	-4	Particle Board		-7	Resilient Stringer Skirt
	-5	Plywood		-8	Resilient Stair Nose
	-6	Trim Edge Molding	096813	-1	Carpet Tile
	-7	Solid Wood Blocking	098900	-1	Access Flooring
	-9	Hardwood	099113	-1	Exterior Painting
	-8	Steel Tube/Leg Frame	099123	-1	Interior Painting
	-10	Door Hinge	099635	-1	Secondary Containment Coating System
	-11	Door/Drawer Pull	101400	-1	Signage
	-12	Magnetic Catch	102113	-1	Toilet Partition
	-13	Drawer		-2	Urinal Screen
	-14	Shelf Supports	102213	-1	Wire Mesh Partitions
	-15	Countertop	102800	-1	Impact-Resistant Cornerguard
	-16	Solid-Surfacing Material	102900	-1	Tissue Dispenser
071113	-1	Bituminous Dampproofing		-2	Framed Mirror
071326	-1	Self-Adhering Sheet Waterproofing		-3	Sanitary Napkin Disposer
				-4	Grab Bar
072100	-1	Foundation Mat or under Slab Insulation (R-)		-5	Shower Seat
	-2	Cavity Wall Insulation (R-)		-6	Shower Curtain Rod
	-3	Building Insulation - Unfaced (R-)		-7	Coat/Robe Hook
				-8	Shower Curtain
	-4	Building Insulation - Faced (R-)	104413	-1	Fire Extinguisher Cabinet
			104416	-1	Fire Extinguisher
	-5	Sill Sealer	105113	-1	Personnel Locker
	-6	Roof Insulation		-2	Locker
072126	-1	Fluid Applied Membrane Air Barrier		-3	Bench
			105300	-1	Pre- Manufactured Canopies
	-2	Flashing Tape			
074213	-1	Metal Wall Panel (Type 1)	107500	-1	Flagpole
	-2	Trim	108113	-1	Deterrent Spikes
	-3	Z-Furring (")	122413	-1	Roller Window Shades
	-4	Metal Wall Panel (Type 2)	133600	-1	Spray Painting Booth
	-5	Metal Soffit Panel	142400	-1	Hydraulic Elevator
075425	-1	Thermoplastic Polyolefin (TPO) Roofing	312000	-1	Site Clearing
	-2	Roof Insulation Flat	312300	-1	Earth Moving
	-3	Roof Insulation Tapered		-2	Interior Fill
	-4	Roof Expansion Joint		-3	Exterior Fill
	-5	Coverboard		-4	Granular Drainage Course
	-6	Railway Protection Board	321313	-5	Subbase Course
076200	-1	Sheet Metal Flashing and Counterflashing	334600	-1	Concrete Paving
	-2	Pre-Finished Roof Edge		-1	Perforated Wall Pipe & Fittings
	-3	Pre-Finished Coping		-2	Geotextile Filter Fabric (Flat/Sock)
	-4	Sheet Metal Ridge		-3	Drainage Panel
	-5	Sheet Metal Hip			
	-6	Sheet Metal Downspout			
	-7	Sheet Metal Scupper			
077124	-1	Roof Expansion Joint			
077200	-1	Roof Hatch/Ladder			
078413	-1	Penetration Firestopping			
078446	-1	Joint Firestopping			
079200	-1	Sealant - Rake where required			
	-2	Joint Filler			
	-3	Gasket			
	-4	Backer Rod			
079500	-1	Expansion Control			

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

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ROBERT BLACKLIN — 13435 — 4-15-15 — KANSAS — INTERNATIONAL ASSOCIATION

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

STAIRS AND ELEVATORS

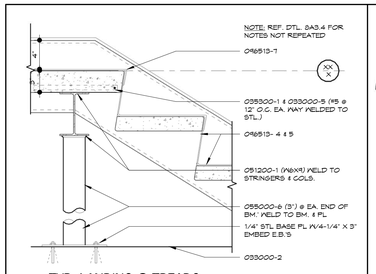
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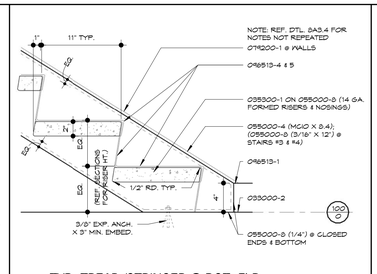
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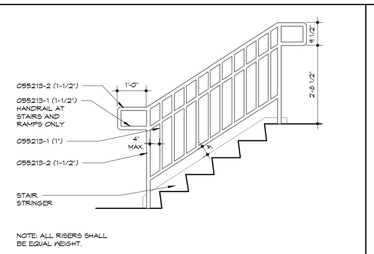
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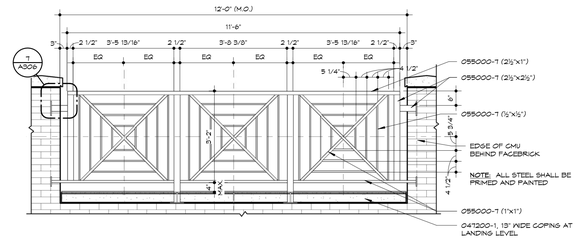
1 TYP. LANDING @ TREADS
1 1/2" = 1'-0"



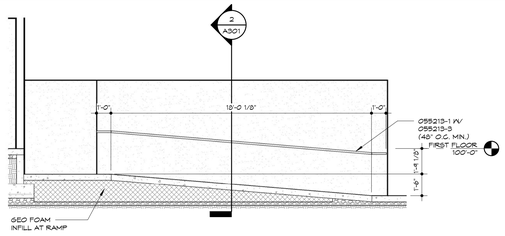
2 TYP. TREAD/STRINGER @ BOT. FLR
1 1/2" = 1'-0"



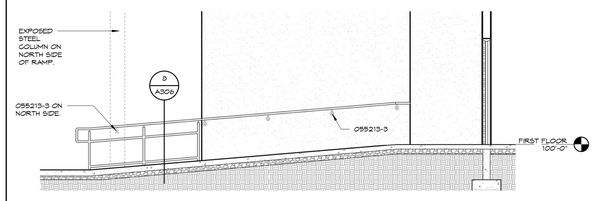
3 RAILING
1/2" = 1'-0"



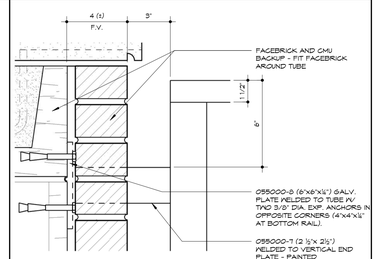
4 DECORATIVE RAILING ELEVATION
1/2" = 1'-0"



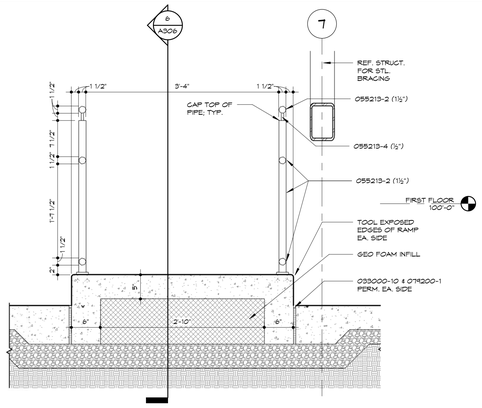
5 CARPENTRY 141 RAMP
1/4" = 1'-0"



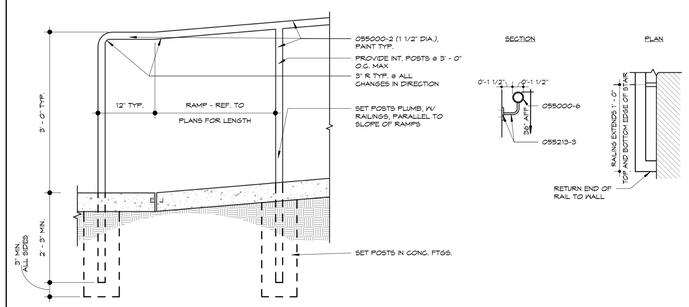
6 HVAC 134 RAMP
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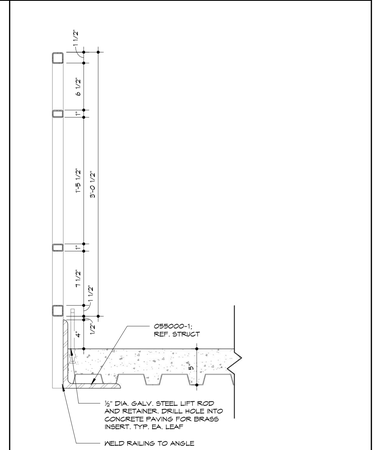
7 GUARDRAIL CONNECTION
3" = 1'-0"



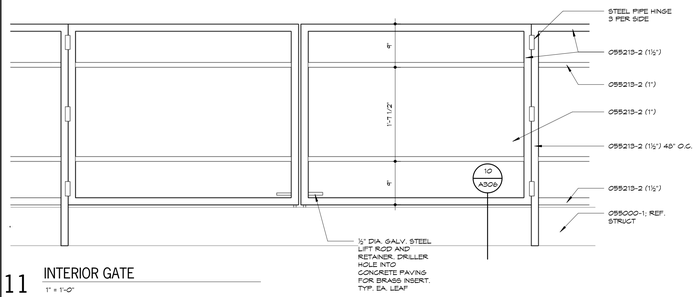
8 RAMP SECTION
1" = 1'-0"



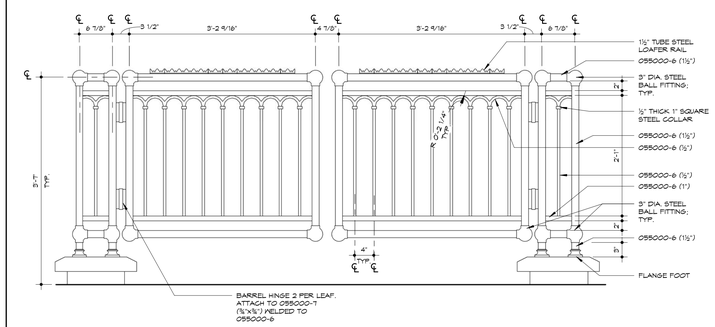
9 HANDRAIL
1 1/2" = 1'-0"



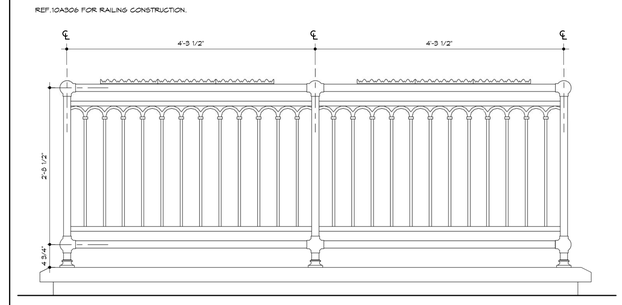
10 MEZZANINE RAILING CONNECTION
1 1/2" = 1'-0"



11 INTERIOR GATE
1" = 1'-0"



12 CAPITAL STAIRWAY GATE
1" = 1'-0"



13 CAPITAL STAIRWAY SHORT GUARDRAIL
1" = 1'-0"

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

NOTE: REFER TO ALL SECTIONS (SECTIONS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

KEYNOTES

Note: Keynotes are drawn from a master list, it may not be sequentially numbered. Sizes (Ex. 2x4) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

033000	-1	Concrete Structure	081113	-1	Steel Door
	-2	Concrete Floor Slab		-2	Steel Frame
	-3	Vapor Barrier		-3	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Fluidization Joint		-6	FRK Door
	-7	Expansion Joint	083416	-1	Steel Overhead Door
	-8	Dovetail Anchor Slot	083113	-1	Access Door
	-10	Premolded Joint Filler		-2	Access Door Frame
035000	-1	Concrete Topping		-3	Floor Access Door
042000	-1	Face Brick	083323	-1	Overhead Coiling Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Coiling Counter Door
	-3	Concrete Masonry Unit - Lightweight (")		-1	Sectional Overhead Door
	-4	Wire Reinforcing		-2	Sectional Overhead Door Track
	-5	Metal Tie/Anchor		-3	Weatherstripping
	-6	Through Wall Flashing	084113	-1	Aluminum Entrance Door
	-7	Control Joint Strip		-2	Aluminum Entrance Frame
	-8	Bond Beam (")	084413	-1	Glazed Aluminum Curtain Wall
	-9	Compressible Filler		-2	Threshold
	-10	Keyed Joint		-3	Sunshade Louver
	-11	Cavity Drainage Material		-4	Aluminum Sub-sill
	-12	Termination Bar	085000	-1	Track Hardware
044300	-1	Stone Masonry Anchor		-2	Glazing (as scheduled)
	-3	Stone Jamb	088083	-1	Security Glazing (as scheduled)
	-4	Stone Sill			
	-5	Belt Course	091116	-1	Louvers and Vents
047200	-1	Cast Stone	092216	-1	Steel Stud (")
051200	-1	Steel Beams		-2	Steel Stud Runner (")
	-2	Steel Column		-3	Furring Channel (")
	-3	Steel Tube	092400	-1	Portland Cement Plastering
	-4	Steel Channel		-2	Metal Lath
052100	-1	Steel Joist		-3	Casing Bead
	-2	Joist - Extended End	092900	-1	Gypsum Board (")
	-3	Joist - Ceiling Extension		-2	Fire Rated Gypsum Board
053100	-1	Metal Decking			Assembly
	-3	Steel Composite Decking		-3	Cementitious Tile Backer Panel
	-2	Flexible Closure Strips			
054000	-1	Structural Steel Studs		-4	Metal Suspension System
	-2	Structural Steel Joists		-5	Acoustical Sealant
	-3	'C' Closure		-6	Acoustical Insulation (")
055000	-1	Steel Angle		-7	Metal Edge Trim
	-4	Steel Channel		-8	Auxiliary Support Framing
	-5	Steel Lintel		-9	Metal Control Joint
	-6	Steel Pipe		-10	High Impact Gypsum Board
	-7	Steel Tube		-11	Concrete Interior Finishing Compound
	-8	Steel Plate			
	-9	Steel Ladder		-12	Stiffener
	-10	Steel Bollard	093000	-1	Porcelain Wall Tile
055100	-1	Steel Stairs			
	-2	Steel Pan Stringer		-2	Shower Pan
	-3	Steel Embed Plate		-3	Shower Pan Flashing
055213	-1	Steel Pipe Handrail		-4	Porcelain Floor Tile (" x ")
	-2	Steel Pipe Railings			
	-3	Steel Handrail Wall Bracket		-5	Tile Base
	-4	Steel Rod		-6	Tile Cap
055300	-1	Steel Grating		-7	Setting Bed
	-2	Steel Frame		-8	Uncoupling water-proof membrane
057300	-1	Decorative Metal Railings			
057500	-1	Ornamental Metal Stamped Grille		-9	Shower Splashguard
				-10	Shower Niche
061063	-1	2x Wood Nailer (")	095113	-1	Acoustical Panel (x) (F = Fire Rated)
	-2	2x Wood Blocking (")			
	-3	1x Wood Continuous (")		-2	Ceiling Suspension System
	-4	Plywood (")		-3	Edge Mold Trim
	-5	APA Rated Sheathing		-4	Resilient Support Framing
	-6	Sheathing (")	096513	-1	Resilient Tile Flooring
	-7	Sheathing (")		-2	Resilient Wall Base
064116	-1	Interior Architectural Woodwork		-3	Edge Strip
				-4	Tactile Warning Surface
	-2	High Pressure Laminate		-5	Resilient Stair Tread
	-3	Cabinet Liner Laminate		-6	Resilient Stair Riser
	-4	Particle Board		-7	Resilient Stringer Skirt
	-5	Plywood		-8	Resilient Stair Nose
	-6	5mm Edge Molding	096813	-1	Carpet Tile
	-7	Solid Wood Blocking	096900	-1	Access Flooring
	-9	Hardwood	099113	-1	Exterior Painting
	-8	Steel Tube/Leg Frame	099123	-1	Interior Painting
	-10	Door Hinge	099635	-1	Secondary Containment Coating System
	-11	Door/Drawer Pull	101400	-1	Signage
	-12	Magnetic Catch	102113	-1	Toilet Partition
	-13	Shelf		-2	Urinal Screen
	-14	Shelf Supports	102203	-1	Fire Hose Partitions
	-15	Countertop	102800	-1	Impact-Resistant Cornerguard
	-16	Solid-surfacing Material			
071113	-1	Bituminous Dampproofing	102800	-1	Tissue Dispenser
071326	-1	Self-Adhering Sheet Waterproofing		-2	Framed Mirror
				-3	Sanitary Napkin Disposer
072100	-1	Foundation Felt or Under Slab Insulation (R-)		-4	Grab Bar
				-5	Shower Seat
	-2	Cavity Wall Insulation (R-)		-6	Shower Curtain Rod
	-3	Building Insulation - Unfaced (R-)		-7	Coat/Robe Hook
				-8	Shower Curtain
	-4	Building Insulation - Faced (R-)	104413	-1	Fire Extinguisher Cabinet
	-5	Sill Sealer	104416	-1	Fire Extinguisher
	-6	Batting Insulation	105113	-1	Personnel Locker
072126	-1	Fluid Applied Membrane Air Barrier	105300	-1	Bench
	-2	Flashing Tape			Pre- Manufactured Canopies
074213	-1	Metal Wall Panel (Type 1)	107500	-1	Flagpole
	-3	Trim	109113	-1	Deterrent Spikes
	-5	Z-Furring (")	122413	-1	Roller Window Shades
	-4	Metal Wall Panel (Type 2)	135800	-1	Spray Planting Booth
	-5	Metal Soffit Panel	142400	-1	Hydraulic Elevator
075420	-1	Thermoplastic Polyolefin (TPO) Roofing	312000	-1	Site Clearing
			312000	-1	Earth Moving
	-2	Roof Insulation Flat		-2	Interior Fill
	-3	Roof Insulation Tapered		-3	Exterior Fill
	-4	Roof Expansion Joint		-4	Granular Drainage Course
	-5	Coverboard		-5	Subbase Course
	-6	Walkway Protection Board	321313	-1	Concrete Paving
076200	-1	Sheet Metal Flashing and Counterflashing	334600	-1	Perforated Pvc Pipe & Fittings
	-2	Sheet Metal Coping Edge		-2	Geotextile Filter Fabric (Filterboo)
	-3	Pre-Finished Gooing			
	-4	Sheet Metal Reglet		-3	Drainage Panel
	-5	Sheet Metal Gutter			
	-6	Sheet Metal Downspout			
	-7	Sheet Metal Scupper			
077126	-1	Roof Expansion Joint			
077200	-1	Roof Hatch/Ladder			
078413	-1	Penetration Firestopping			
078446	-1	Joint Firestopping			
079200	-1	Sealant - Make where required			
	-2	Joint Filler			
	-3	Gasket			
	-4	Backer Rod			
079500	-1	Expansion Control			

HTK ARCHITECTS PA
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DENNIS A. HAIGH 4-15-15 LICENSED 2561 ARCHITECT PROFESSIONAL ARCHITECTS

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone: 785-296-0669
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 173000038
DRAWN BY: Author CHECKED BY: Checker REV:
DATE: 4-15-15

STAIR DETAILS

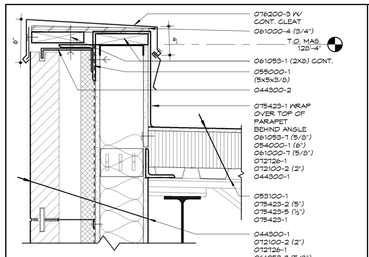
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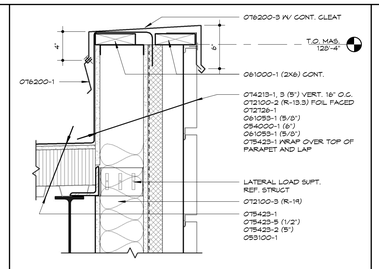
CONSTRUCTION DOCUMENTS

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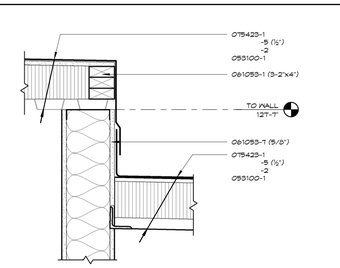
JCSBC
2-2-2016
Att.9C--0040



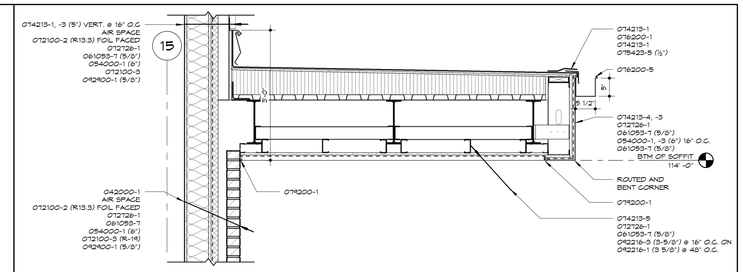
1 T.O. MASONRY WALL
1 1/2" = 1'-0"



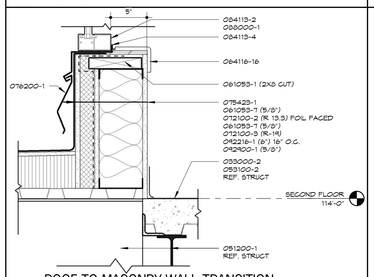
2 T.O. METAL WALL
1 1/2" = 1'-0"



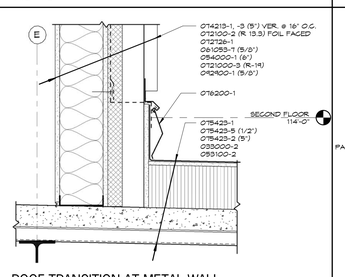
3 ELEVATOR ROOF
1 1/2" = 1'-0"



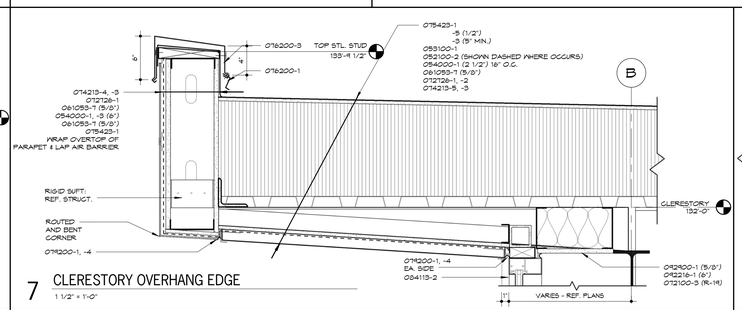
4 SOUTH CANOPY
3/4" = 1'-0"



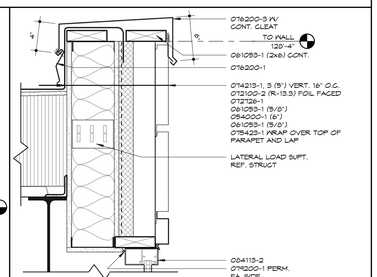
5 ROOF TO MASONRY WALL TRANSITION
1 1/2" = 1'-0"



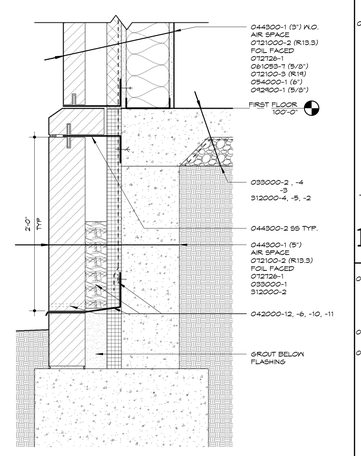
6 ROOF TRANSITION AT METAL WALL
1 1/2" = 1'-0"



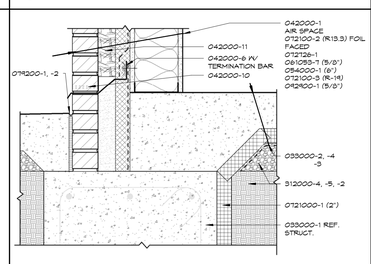
7 CLERESTORY OVERHANG EDGE
1 1/2" = 1'-0"



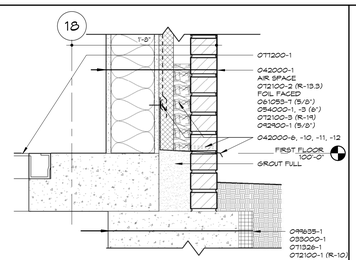
8 CLERESTORY EDGE
1 1/2" = 1'-0"



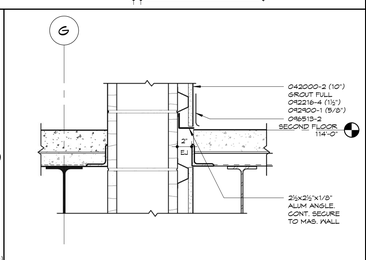
9 BTM OF WALL
1 1/2" = 1'-0"



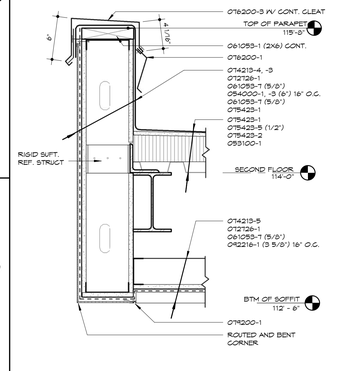
10 BTM OF WALL AT BRICK
1 1/2" = 1'-0"



11 BTM OF WALL AT OPENING
1 1/2" = 1'-0"

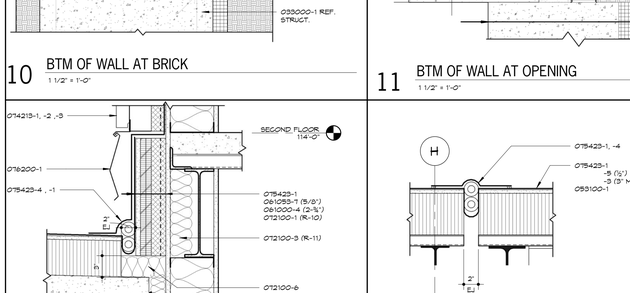


12 EXPANSION JOINT AT FLOOR
1 1/2" = 1'-0"

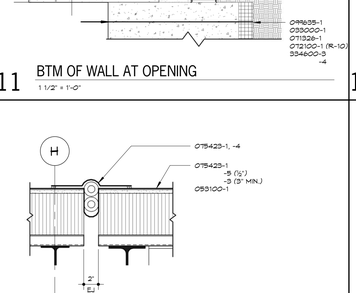


16 NORTH CANOPY EDGE
1 1/2" = 1'-0"

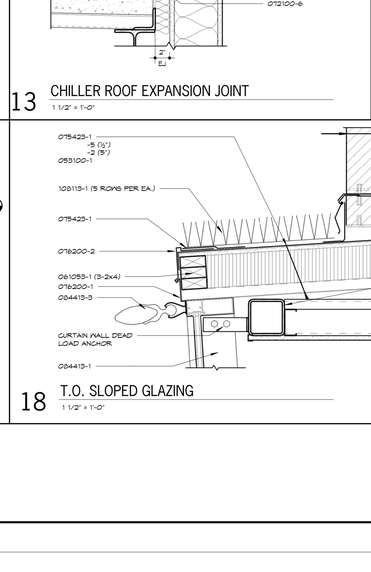
17 BTM OF SLOPED GLAZING AT TUNNEL ACCESS
1 1/2" = 1'-0"



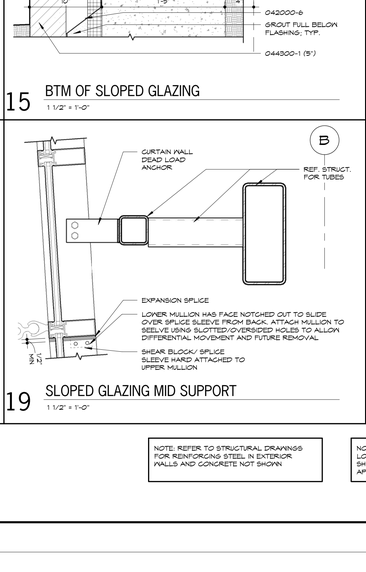
18 T.O. SLOPED GLAZING
1 1/2" = 1'-0"



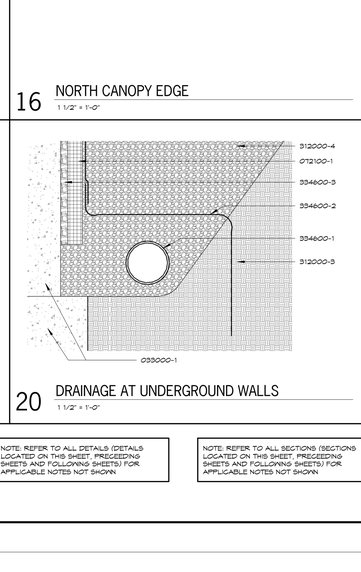
14 SOUTH ROOF EXPANSION JOINT
1 1/2" = 1'-0"



13 CHILLER ROOF EXPANSION JOINT
1 1/2" = 1'-0"



15 BTM OF SLOPED GLAZING
1 1/2" = 1'-0"



16 DRAINAGE AT UNDERGROUND WALLS
1 1/2" = 1'-0"

19 SLOPED GLAZING MID SUPPORT
1 1/2" = 1'-0"

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	-2	Concrete Floor Slab		-2	Steel Frame
	-3	Vapor Barrier		-3	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Reglet		-6	FRK Door
	-7	Control Joint	081416	-1	Wood Overhead Door
	-8	Expansion Anchor	083113	-1	Access Door
	-9	Sidewalk		-2	Access Door Frame
	-10	Premolded Joint Filler		-3	Floor Access Door
035000	-1	Concrete Topping	083323	-1	Overhead Coiling Door
042000	-1	Face Brick		-2	Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Sectional Overhead Door
	-3	Concrete Masonry Unit - Lightweight (")		-2	Sectional Overhead Door Track
	-4	Wire Reinforcing	084113	-1	Weatherstripping
	-5	Metal Tie/Anchor		-2	Aluminum Entrance Door
	-6	Through Wall Flashing		-3	Aluminum Entrance Frame
	-7	Control Joint Strip		-4	Sunshade
	-8	Bond Beam (")	084413	-1	Aluminum Sub-sill
	-9	Compressible Filler		-2	Glazed Aluminum Curtain Wall
	-10	Coping		-3	Threshold
	-11	Cavity Drainage Material		-4	Sunshade Louver
	-12	Termination Bar		-5	Aluminum Sub-sill
044300	-1	Stone Masonry	087100	-1	Track Hardware
	-2	Anchor	088000	-1	Glazing (as scheduled)
	-3	Stone Jamb	088065	-1	Security Glazing (as scheduled)
	-4	Stone Sill			
	-5	Belt Course	089116	-1	Louvers and Vents
041200	-1	Cast Stone	092216	-1	Steel Stud (")
051200	-1	Steel Beams		-2	Steel Stud Runner (")
	-2	Steel Column		-3	Furring Channel (")
	-3	Steel Tube	092400	-1	Portland Cement Plastering
	-4	Steel Channel		-2	Metal Lath
052100	-1	Steel Joist		-3	Casing Bead
	-2	Joist - Extended End	092900	-1	Gypsum Board (")
	-3	Joist - Ceiling Extension		-2	Fire Rated Gypsum Board Assembly
053100	-1	Steel Decking		-3	Cementitious Tile Backer Panel
	-2	Flexible Closure Strips		-4	Metal Suspension System
	-3	Structural Steel Studs		-5	Acoustical Sealant
	-4	Structural Steel Joists		-6	Acoustical Insulation (")
055000	-1	Steel Angle		-7	Metal Edge Trim
	-2	Steel Channel		-8	Auxiliary Support Framing
	-3	Steel Lintel		-9	Metal Control Joint
	-4	Steel Pipe		-10	High Impact Gypsum Board
	-5	Steel Tube		-11	Concrete Interior Finishing Compound
	-6	Steel Plate		-12	Stiffener
	-7	Steel Ladder	093000	-1	Porcelain Pell Tile
	-8	Steel Bollard		-2	Tub Surround
055100	-1	Steel Stairs		-3	Shower Pan
	-2	Steel Pan Stringer		-4	Shower Pan Flashing
055213	-1	Steel Pipe Handrail		-5	Porcelain Floor Tile
	-2	Steel Pipe Railings		-6	Tile Base
	-3	Steel Handrail Wall Bracket		-7	Tile Cap
	-4	Steel Rod		-8	Setting Bed
055500	-1	Steel Grating		-9	Uncoupling water-proof membrane
	-2	Steel Frame		-10	Shower Splashguard
057300	-1	Decorative Metal Railings		-11	Shower Niche
057500	-1	Ornamental Metal Stamped Grille		-12	Acoustical Panel (x) (T = Fire Rated)
061053	-1	2x Wood Nailer (")	095113	-1	Ceiling Suspension System
	-2	2x Wood Blocking (")		-2	Edge Mold Trim
	-3	1x Wood Continuous (")		-3	Resilient Support Framing
	-4	Plywood (")		-4	Resilient Tile Flooring
	-5	OSB Pad	096513	-1	Resilient Wall Base
	-6	Sheathing (")		-2	Resilient Stair Base
064116	-1	Interior Architectural Woodwork		-3	Edge Strip
	-2	High Pressure Laminate		-4	Tactile Warning Surface
	-3	Cabinet Liner Laminate		-5	Resilient Stair Tread
	-4	Particle Board		-6	Resilient Stair Riser
	-5	Plywood		-7	Resilient Stringer Skirt
	-6	5mm Edge Molding	096813	-1	Resilient Stair Nose
	-7	Solid Wood Blocking	096900	-1	Carpet Tile
	-8	Hardwood	099113	-1	Access Flooring
	-9	Steel Tube/Leg Frame	099123	-1	Exterior Painting
	-10	Door Hinge	099635	-1	Interior Painting
	-11	Door/Drawer Pull			Secondary Containment Coating System
	-12	Magnetic Catch	101400	-1	Signage
	-13	Shelf	102113	-1	Toilet Partition
	-14	Shelf Supports		-2	Grab Bar/Bumper
	-15	Countertop	102215	-1	Wire Mesh Partitions
	-16	Solid-surfacing Material	102800	-1	Impact-Resistant Corrugated
071113	-1	Bituminous Dampproofing	102800	-1	Tissue Dispenser
071324	-1	Self-Adhering Sheet Waterproofing		-2	Framed Mirror
072100	-1	Foundation Pell or Under Slab Insulation (R-)		-3	Sanitary Napkin Disposer
	-2	Cavity Pell Insulation (R-)		-4	Grab Bar
	-3	Building Insulation - Unfaced (R-)		-5	Shower Seat
	-4	Building Insulation - Faced (R-)	104413	-1	Shower Curtain Rod
	-5	Sill Sealer	104416	-1	Coat/Robe Hook
	-6	Pipe Insulation	105113	-1	Shower Curtain
072126	-1	Fluid Applied Membrane Air Barrier	105500	-1	Fire Extinguisher Cabinet
	-2	Flashing Tape		-2	Fire Extinguisher
074213	-1	Metal Wall Panel (Type 1)	107500	-1	Personnel Locker
	-2	Trim	108113	-1	Flagpole
	-3	Z-Furring (")	122413	-1	Locker
	-4	Metal Wall Panel (Type 2)	139600	-1	Bench
	-5	Metal Soffit Panel	142400	-1	Fire Manufactured Canopies
075423	-1	Thermoplastic Polyolefin (TPO) Roofing	312000	-1	Hydraulic Elevator
	-2	Roof Insulation Flat		-2	Silo Cleaning
	-3	Roof Insulation Tapered		-3	Earth Moving
	-4	Roof Expansion Joint		-4	Interior Fill
	-5	Coverboard		-5	Exterior Fill
	-6	Railway Protection Board	321313	-1	Granular Drainage Course
	-7	Sheet Metal Flashing and Counterflashing	334600	-1	Subbase Course
	-8	Pre-Finished Coping		-2	Concrete Paving
	-9	Sheet Metal Reglet		-3	Perforated Pell Pipe 4 Inches
	-10	Sheet Metal Gutter		-4	Geotextile Filter Fabric (Flat/Sock)
	-11	Sheet Metal Downspout		-5	Drainage Panel
	-12	Sheet Metal Scupper			
	-13	Roof Expansion Joint			
077200	-1	Roof Hatch/Ladder			
078413	-1	Penetration Firestopping			
078446	-1	Joint Firestopping			
079200	-1	Sealant - Make where required			
	-2	Joint Filler			
	-3	Backer			
	-4	Backer Rod			
079500	-1	Expansion Control			

HTK ARCHITECTS PA
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KENNETH BLACKBURN — LICENSED — 13435 — 4-15-15 — EXPIRATION — PROFESSIONAL ARCHITECT

DENNIS A. HAIGH — LICENSED — 4-15-15 — 2561 — EXPIRATION — PROFESSIONAL ARCHITECT

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone (785) 296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 173000038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

DETAILS

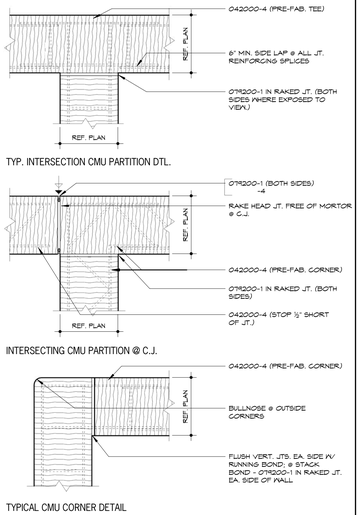
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CONSTRUCTION DOCUMENTS

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2-2-2016
AB.9C--0041

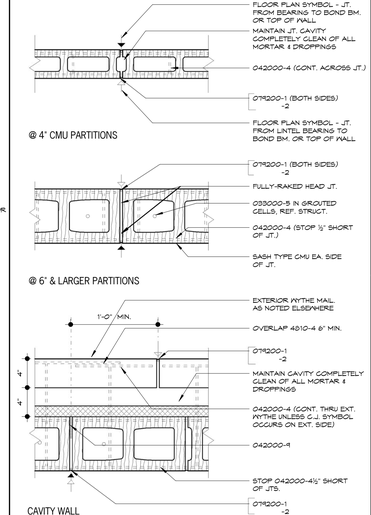


TYP. INTERSECTION CMU PARTITION DTL.

INTERSECTING CMU PARTITION @ C.J.

TYPICAL CMU CORNER DETAIL

1 TYP. CMU DETAILS
1 1/2" = 1'-0"

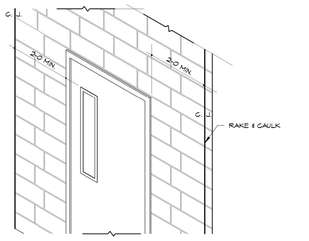


@ 4" CMU PARTITIONS

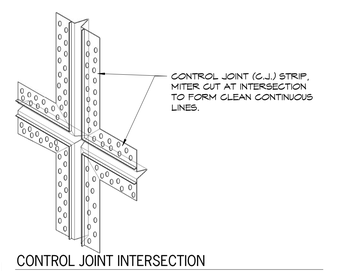
@ 6" & LARGER PARTITIONS

CAVITY WALL

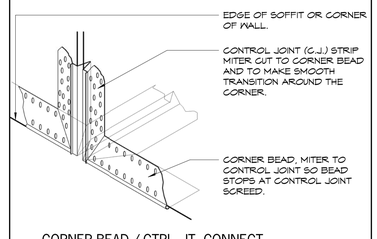
2 MASONRY SHRINKAGE CONTROL JTS.
1 1/2" = 1'-0"



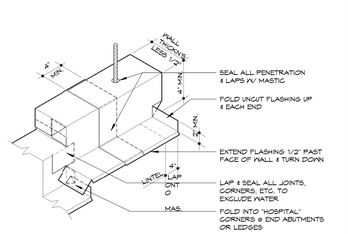
3 TYP. C.J. LOC. @ MASONRY OPNGS.
1/2" = 1'-0"



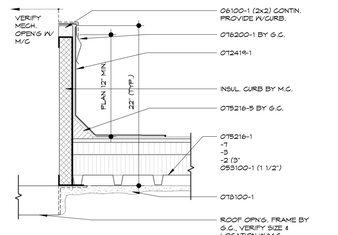
4 CONTROL JOINT INTERSECTION
3" = 1'-0"



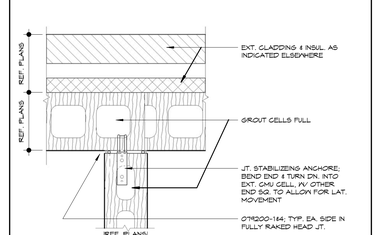
5 CORNER BEAD / CTRL. JT. CONNECT.
3" = 1'-0"



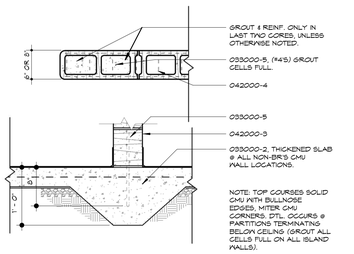
6 STD. FLASHING DETAILS
1 1/2" = 1'-0"



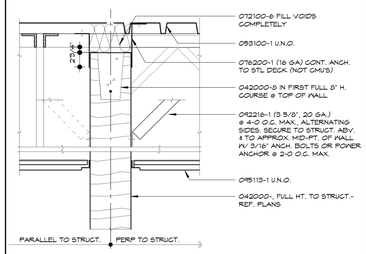
7 TYP. MECH. EQUIP. CURB
1 1/2" = 1'-0"



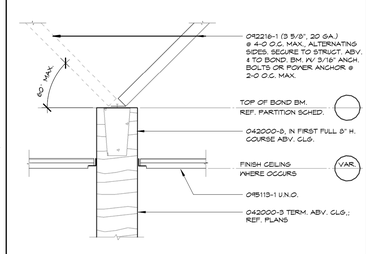
8 INT. PART'N. TO EXT. CMU WALL
1 1/2" = 1'-0"



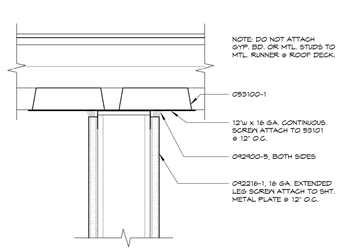
9 MASONRY WALL REINFORCING
1" = 1'-0"



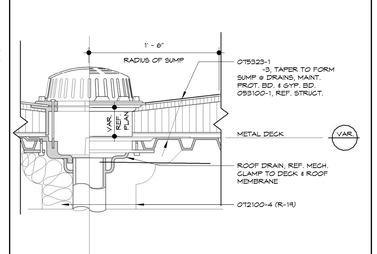
10 TYPICAL MAS. PARTN. (FULL HT.)
1 1/2" = 1'-0"



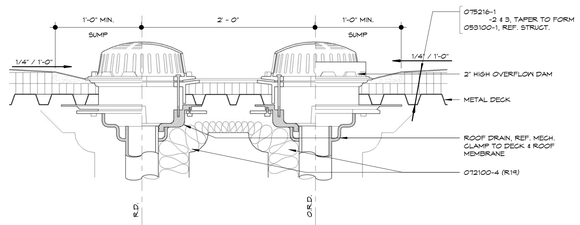
11 TYP. MAS. PARTN. (TO ABV. CLG.)
1 1/2" = 1'-0"



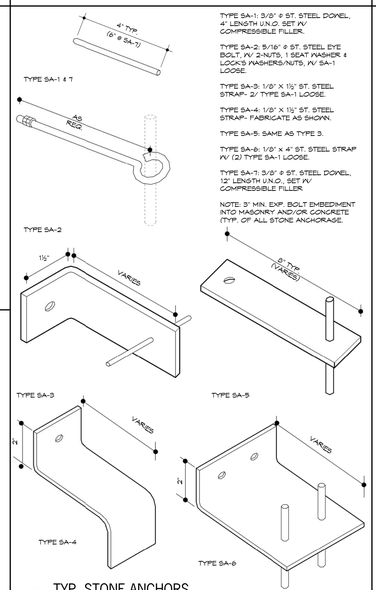
12 GYP. BD. PARTITON TERMINATION
3" = 1'-0"



13 ROOF DRAIN
1 1/2" = 1'-0"



14 ROOF DRAIN & OVERFLOW DRAIN
1 1/2" = 1'-0"



TYPE SA-1: 3/8" ø ST. STEEL DOWEL, 4" LENGTH U.N.O. SET W/ COMPRESSIBLE FILLER.

TYPE SA-2: 5/16" ø ST. STEEL EYE BOLT, W/ 2-NUTS, 1 SEAT WASHER & LOCK'S WASHERS/NUTS, W/ SA-1 LOOSE.

TYPE SA-3: 1/8" X 1½" ST. STEEL STRAP- 2/ TYPE SA-1 LOOSE.

TYPE SA-4: 1/8" X 1½" ST. STEEL STRAP- FABRICATE AS SHOWN.

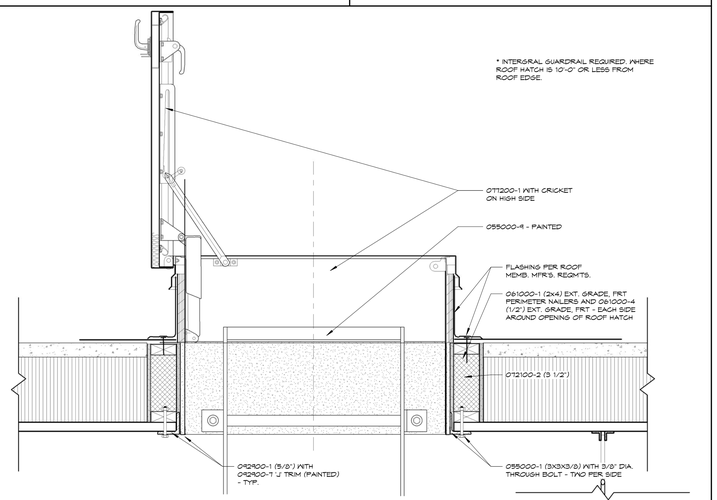
TYPE SA-5: SAME AS TYPE 3.

TYPE SA-6: 1/8" X 4" ST. STEEL STRAP W/ (2) TYPE SA-1 LOOSE.

TYPE SA-7: 3/8" ø ST. STEEL DOWEL, 12" LENGTH U.N.O., SET W/ COMPRESSIBLE FILLER.

NOTE: 3" MIN. EXP. BOLT EMBEDMENT INTO MASONRY AND/OR CONCRETE (TYP. OF ALL STONE ANCHORAGE.

15 TYP. STONE ANCHORS
12" = 1'-0"



16 ROOF HATCH DETAIL
1 1/2" = 1'-0"

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PREGEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

NOTE: REFER TO ALL SECTIONS (SECTIONS LOCATED ON THIS SHEET, PREGEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

KEYNOTES

Note: Keynotes are drawn from a master list. It may not be sequentially numbered. Sizes (Ex. 2x4) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

033000	-1	Concrete Structure	081113	-1	Steel Door
	-2	Concrete Floor Slab		-2	Steel Frame
	-3	Vapor Barrier		-3	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Fluctuation Joint		-6	FIRE Door
	-7	Waterstop	081416	-1	Flush Wood Door
	-8	Expansion Anchor	083113	-1	Access Door
	-9	Sidewalk		-2	Access Door Frame
	-10	Premolded Joint Filler		-3	Floor Access Door
035000	-1	Concrete Topping	083323	-1	Overhead Coiling Door
042000	-1	Face Brick		-2	Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Sectional Overhead Door
				-2	Sectional Overhead Door Track
	-3	Concrete Masonry Unit - Lightweight (")		-3	Weatherstripping
	-4	Wire Reinforcing	084113	-1	Aluminum Entrance Door
	-5	Metal Tie/Anchor		-2	Aluminum Entrance Frame
	-6	Through Wall Flashing		-3	Sunshade
	-7	Control Joint Strip		-4	Aluminum Sub-sill
	-8	Bond Beam (")	084413	-1	Glazed Aluminum Curtain Wall
	-9	Compressible Filler			Thru-Wall
	-10	Cavity Drainage Material		-2	Sunshade Louver
	-11	Termination Bar		-4	Aluminum Sub-sill
044300	-1	Stone Masonry	087100	-1	Track Hardware
	-2	Anchors	088000	-1	Glazing (as scheduled)
	-3	Stone Jamb	088053	-1	Security Glazing (as scheduled)
	-4	Stone Sill			
	-5	Belt Course	089116	-1	Louvers and Vents
047200	-1	Cast Stone	095216	-1	Steel Stud (")
091200	-1	Steel Beams		-2	Steel Stud Runner (")
	-2	Steel Column		-3	Furring Channel (")
	-3	Steel Tube	092400	-1	Portland Cement Plastering
	-4	Steel Channel		-2	Metal Lath
092100	-1	Steel Joist		-3	Casing Bead
	-2	Joist - Extended End	092900	-1	Gypsum Board (")
	-3	Joists - Ceiling Extension		-2	Fire Rated Gypsum Board Assembly
093100	-1	Steel Decking			
	-2	Non-Composite Decking		-3	Cementitious Tile Backer Panel
	-3	Flexible Closure Strips			
054000	-1	Structural Steel Studs		-4	Metal Suspension System
	-2	Structural Steel Joists		-5	Acoustical Sealant
	-3	'C' Column		-6	Acoustical Insulation (")
095000	-1	Steel Angle		-7	Metal Edge Trim
	-2	Steel Channel		-8	Auxiliary Supports Framing
	-3	Steel Lintel		-9	Metal Control Joint
	-4	Steel Pipe		-10	High Impact Gypsum Board
	-5	Steel Tube		-11	Concrete Interior Finishing Compound
	-6	Steel Plate			
	-7	Steel Ladder		-12	Stiffener
	-10	Steel Bollard	093000	-1	Porcelain Pell Tile
055100	-1	Steel Stairs			(" x ")
	-2	Steel Pan Stringer		-2	Shower Pan
	-3	Steel Embed Plate		-3	Shower Pan Flashing
055213	-1	Steel Pipe Handrail		-4	Porcelain Floor Tile (" x ")
	-2	Steel Pipe Railings		-5	Tile Base
	-3	Steel Handrail Wall Bracket		-6	Tile Cap
	-4	Steel Rail		-7	Tile Cap
055300	-1	Steel Grating		-8	Setting Bed
	-2	Steel Floor Plate		-9	Uncoupling water-proof membrane
057500	-1	Decorative Metal Railings			
057600	-1	Ornamental Metal Stamped Grille		-4	Shower Splashguard
				-10	Shower Niche
061053	-1	2x Wood Nailer (")	095113	-1	Acoustical Panel (" x ") (F = Fire Rated)
	-2	2x Wood Blocking (")			
	-3	1x Wood Continuous (")		-2	Ceiling Suspension System
	-4	Plywood (")		-3	Edge Mold Trim
	-5	100 Plate		-4	Auxiliary Supports Framing
	-6	Anchors		-5	Resilient Tile Flooring
	-13	Sheathing (")	096513	-2	Resilient Pell Base
064116	-1	Interior Architectural Woodwork		-3	Edge Strip
	-2	High Pressure Laminate		-4	Tactile marning Surface
	-3	Cabinet Liner Laminate		-5	Resilient Stair Tread
	-4	Particle Board		-6	Resilient Stair Riser
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	-12	Magnetic Catch	101400	-1	Signage
	-13	Drawer	102113	-1	Toilet Partition
	-14	Shelf Supports		-2	Toilet Partition
	-15	Countertop	102215	-1	Wire Mesh Partitions
	-16	Solid-surfacing Material	102800	-1	Impact-Resistant Wallguard
071113	-1	Bituminous Dampproofing	102900	-1	Tissue Dispenser
071324	-1	Self-Adhering Sheet Waterproofing		-2	Framed Mirror
				-3	Sanitary Napkin Disposer
072100	-1	Foundation Wall or under Slab Insulation (R-)		-4	Grab Bar
				-5	Shower Seat
	-2	Cavity Wall Insulation (R-)		-6	Shower Curtain Rod
	-3	Building Insulation - Unfaced (R-)		-7	Coat/Robe Hook
				-8	Shower Curtain
	-4	Building Insulation - Faced (R-)	104413	-1	Fire Extinguisher Cabinet
			104416	-1	Fire Extinguisher
	-5	Sill Sealer	105113	-1	Personnel Locker
	-6	Batt Insulation			Locker
072126	-1	Fully Applied Membrane Air Barrier	105500	-1	Bench
					Pre- Manufactured Cabinets
	-2	Flashing Tape			
074213	-1	Metal Wall Panel (Type 1)	107800	-1	Flagpole
	-2	Trim	108113	-1	Deterrent Spikes
	-3	Z-Furring (")	122413	-1	Roller Window Shades
	-4	Metal Wall Panel (Type 2)	123600	-1	Spray Planting Boom
	-5	Metal Soffit Panel	142400	-1	Hydraulic Elevator
075420	-1	Thermoplastic Polyolefin (TPO) Roofing	310000	-1	Site Clearing
			312000	-1	Earth Moving
	-2	Roof Insulation Flat			Interior Fill
	-3	Roof Insulation Tapered			Exterior Fill
	-4	Roof Expansion Joint			Granular Drainage Course
	-5	Coverboard			Subbase Course
	-6	Walkway Protection Board	321313	-1	Concrete Paving
	-7	Sheet Metal Flashing and Counterflashing	334000	-1	Perforated Pell Pipe & Fittings
	-8	Pre-Finished Roof Edge		-2	Geotextile Filter Fabric (Flat/Sock)
	-9	Pre-Finished Coping		-3	Drainage Panel
	-10	Sheet Metal Ridge			
	-11	Sheet Metal Hip			
	-12	Sheet Metal Downspout			
	-13	Sheet Metal Scupper			
077124	-1	Roof Expansion Joint			
077200	-1	Roof Hatch/Ladder			
078413	-1	Penetration Firestopping			
078445	-1	Joint Firestopping			
079200	-1	Sealant - Rake where required			
	-2	Joint Filler			
	-3	Gasket			
	-4	Backer Rod			
079500	-1	Expansion Control			

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ROBERT BLACKBURN — LICENSED — 13435 — 4-15-15 — EXPIRES — KANSAS — INTERNATIONAL ASSOCIATION

DENNIS A. HAHN — LICENSED — 4-15-15 — 25621 — KANSAS — PROFESSIONAL ARCHITECT

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-0669
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

DETAILS

A-012651

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CONSTRUCTION DOCUMENTS

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2-2-2016
AHJC-16003

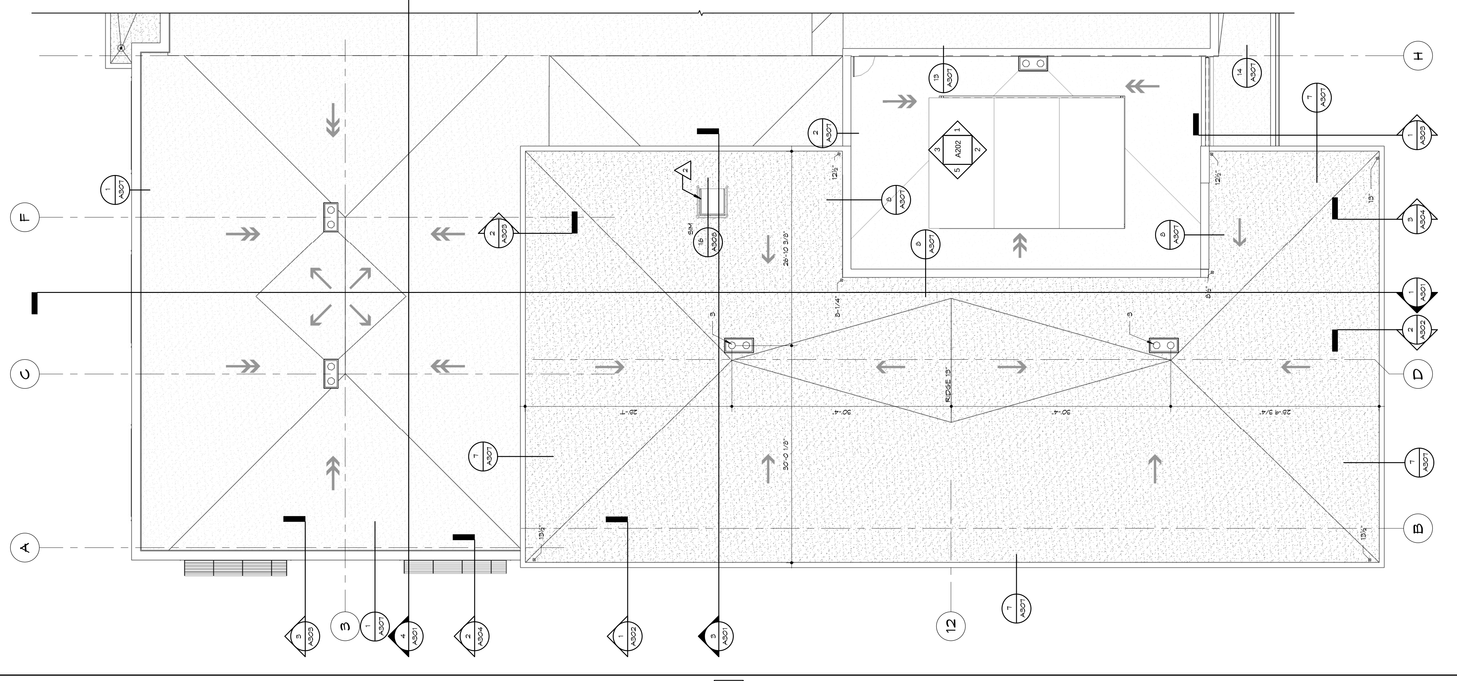
ROOF PLAN LEGEND

- INDICATES SLOPED STRUCTURE
- INDICATES TAPERED INSULATION 1/4"/FT. U.N.O.
- TOTAL THICKNESS OF INSULATION + ROOF SYSTEM ABOVE DECK, U.N.O.
- TPO MEMBRANE OVER 1/2" DENSGLASS GOARDBOARD AND 5" BASE POLYISO INSULATION.
- TPO MEMBRANE OVER 1/2" DENSGLASS GOARDBOARD AND 3" BASE POLYISO INSULATION.
- TPO MEMBRANE OVER 1/2" DENSGLASS GOARDBOARD AND 2" BASE POLYISO INSULATION.

ROOF PLAN NOTES

GENERAL: COORDINATE WITH WORK SHOWN ON STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. REF. ITE SHEET FOR EQUIP. COORDINATION

1. ROOF HATCH.
2. ROOF HATCH WITH INTEGRAL GUARD RAIL.
3. ROOF DRAIN W/ OVERFLOW.
4. ROOF DRAIN.
5. PREFINISHED METAL GUTTER WITH PREFINISHED LEADER TO DOWNSPOUT BOOT.
6. 2" BUILDING EXPANSION JOINT.



2 ROOF PLAN- UPPER
1/8" = 1'-0"

1 ROOF PLAN- LOWER
1/8" = 1'-0"

NORTH

HTK ARCHITECTS PA

900 S. KANSAS AVE., SUITE 200 TOPEKA, KANSAS 66612 P 785.266.5373

9300 W 110TH ST. STE. 150 OVERLAND PARK, KANSAS 66210 P 913.663.5373

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DATE:
- 4-15-15

REVISED DATE:
- 12.18.14
- 2.9.15
- 3.10.15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 1730.00038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

ROOF PLAN

A012651

A401

CONSTRUCTION DOCUMENTS

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DOOR AND FRAME SCHEDULE

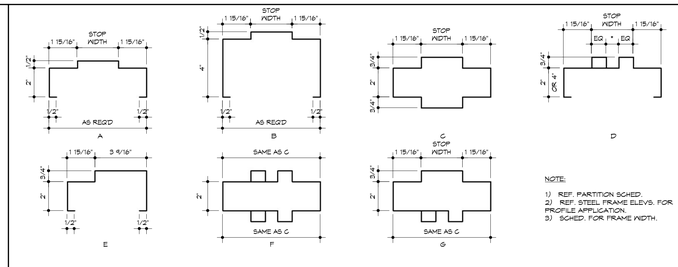
PLAN MARK	DOOR OPENING SIZE W	DOOR OPENING SIZE H	DOOR TYPE (A)	DOOR MATERIAL (B)	FRAME MATERIAL (B)	FRAME TYPE (C)	DETAILS HEAD (D)	DETAILS JAMB (D)	DETAILS OTHER (D)	RATING	NOTES
100.1	6'-0"	7'-2"	FG	A	A	A7	3	1b	5		
100.2	6'-0"	7'-2"	FG	A	A	A8	2	2			
101.1	3'-0"	7'-2"	F	A	HM	S1	2	2		(60)	
101.2	3'-0"	7'-2"	F	A	HM	S1	2	2		(60)	
102.1	3'-0"	7'-2"	F	A	HM	S1	2	2			
102.2	6'-6"	OCGD	S				SIM 10	21	13	(60)	
103	2'-8"	7'-2"	F	A	HM	S1	2	2			
104	3'-0"	7'-2"	F	A	HM	S1	2	2			
105	3'-0"	7'-2"	F	A	HM	S1	2	2			
106	3'-0"	7'-2"	F	A	HM	S1	2	2			
107	3'-0"	7'-2"	F	A	HM	S1	2	2			
108	3'-0"	7'-2"	F	A	HM	S1	2	2			
109	3'-0"	7'-2"	F	A	HM	S1	2	2			
110.1	3'-0"	7'-2"	F	A	HM	S1	2	2			
110.2	3'-0"	7'-2"	F	A	HM	S1	2	2			
111	3'-0"	7'-2"	F	A	HM	S1	2	2			
112	3'-0"	7'-2"	F	S	HM	S1	1	1			
115	3'-0"	7'-2"	F	A	HM	S1	2	1 4 2			
116	3'-0"	7'-2"	F	A	HM	S1	2	1 4 2			
117	3'-0"	7'-2"	F	A	HM	S1	1	1			
118	3'-0"	7'-2"	F	A	HM	S1	2	1 4 2			
120	3'-0"	7'-2"	F	A	HM	S1	2	2			
121	3'-0"	7'-2"	F	A	HM	S1	2	2			
123.1	3'-0"	7'-2"	F	S	HM	S1	1	1			
123.2	6'-0"	7'-2"	F	S	HM	S2	2	2			
123.3	3'-0"	7'-2"	F	S	HM	S1	2	2			
124	3'-0"	7'-2"	F	S	HM	S1	2	2			
125.1	3'-0"	7'-2"	FG	S	HM	S1	2	2			
125.2	3'-0"	7'-2"	FG	S	HM	S1	2	2			
125.3	3'-0"	7'-2"	F	S	HM	S1	2	2			
126.1	6'-0"	7'-2"	F	S	HM	S2	2	2			
126.2	3'-0"	7'-2"	F	S	HM	S1	2	2			
127.1	3'-0"	7'-2"	F	FRP	A	S1 SIM	3	1f	5		
127.2	12'-0"	10'-0"	SCHD	A			20	22			
129	6'-0"	7'-2"	F	S	HM	S2	2	2			
129.1	6'-0"	7'-2"	FG	A	A	A11	3	1b	5		
129.2	6'-0"	7'-2"	FG	A	A	S2 SIM	2 SIM	2 SIM			
130.1	3'-0"	7'-2"	F	A	HM	S1	2	2		(60)	
130.2	3'-0"	7'-2"	F	A	HM	S1	2	2		(60)	
131.1	3'-0"	7'-2"	F	FPR	A	A1	3	1f	5		
131.2	10'-0"	12'-0"	OHCD	S		OHCD	10	11	12		
132.1	3'-0"	7'-2"	F	S	HM	S1	2	2			
132.2	3'-0"	7'-2"	F	S	HM	S1	2	2			
133.1	3'-0"	7'-2"	F	S	HM	S1	2	2			
133.2	3'-0"	7'-2"	F	S	HM	S1	2	2			
134	3'-0"	7'-2"	F	S	HM	S1	2	2			
135.1	3'-0"	7'-2"	F	S	HM	S1	2	2			
135.2	3'-0"	7'-2"	F	FPR	A	A4	3	1f	5		
136.1	3'-0"	7'-2"	F	FPR	A	A4	3	1f	5		
136.2	10'-0"	10'-0"	OHCD	S		OHCD	10	11	12		
138	3'-0"	7'-2"	F	S	HM	S1	2	2			
139	6'-0"	7'-2"	F	FRP	A	A10	3	1f	5		
140	3'-0"	7'-2"	F	S	HM	S1	2	2			
141.1	3'-0"	7'-2"	F	FPR	A	A4	3	1f	5		
141.2	10'-0"	10'-0"	OHCD	S		OHCD	10	11	12		
141.3	3'-0"	7'-2"	F	S	HM	S1	2	2			
142.1	3'-0"	7'-2"	F	A	HM	S1	2	2		(60)	
142.2	3'-0"	7'-2"	F	A	HM	S1	2	2		(60)	
143	3'-0"	7'-2"	F	S	HM	S1	2	2			
144	3'-0"	7'-2"	FG	A	HM	S1	1	1			
145	3'-0"	7'-2"	F	A	HM	S1	2	2			
146	6'-0"	7'-2"	F	A	S	S2	1	2	N/A		
200	3'-0"	7'-2"	F	A	HM	S1	1	1			
201	3'-0"	7'-2"	F	A	HM	S1	1	1			
202	3'-0"	7'-2"	F	A	HM	S1	1	1			
203	3'-0"	7'-2"	F	S	HM	S1	1	1			
204	3'-0"	7'-2"	F	S	HM	S1	2	2			
205	3'-0"	7'-2"	F	FRP	A	S1	1	1	17		
206	3'-0"	7'-2"	F	A	HM	S1	2	2			
207	3'-0"	7'-2"	F	A	HM	S1	2	2			
208	3'-0"	7'-2"	F	A	HM	S1	2	2			
209	3'-0"	7'-2"	F	A	HM	S1	2	2			
210	3'-0"	7'-2"	F	A	HM	S1	2	2			
212	6'-0"	7'-2"	F	A	HM	S2	2	2			
214	3'-0"	7'-2"	F	A	HM	S1	2	2			
215	3'-0"	7'-2"	F	A	HM	S1	2	2			
217	3'-0"	7'-2"	F	A	HM	S1	2	2			
218	3'-0"	7'-2"	F	A	HM	S1	2	2			
219	3'-0"	7'-2"	F	S	HM	S1	2	2			
221	4'-0"	7'-2"	F	S	HM	S1	2	2			
222	4'-0"	7'-2"	F	S	HM	S1	2	2			
223	3'-0"	7'-2"	F	S	HM	S1	2	2			
224	3'-0"	7'-2"	F	S	HM	S1	2	2			
228	3'-0"	7'-2"									2
5100	2'-8"	8'-0"	F	S	HM	S1	1	1			
5102	3'-0"	7'-2"	F	S	HM	S1	2	2			
5103	3'-0"	7'-2"	F	S	HM	S1	2	2			1
5104	6'-0"	7'-2"	F	S	HM	S2	2	2			

DOOR & FRAME SCHEDULE NOTES

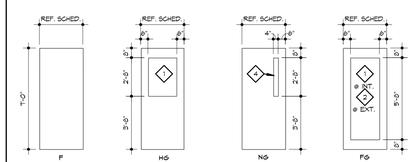
- Field verify conditions at all exist. openings & modify as req'd to fit.
- All alum. frames are 4 1/2" deep and 2" wider- u.n.o.
- All steel welded frames are 3/4" wider than the nominal wall width - u.n.o
- All doors are 1 3/4" thick unless noted otherwise.
- Letters in parentheses ( ) A, B, C, D, E, & F at top of various columns in the schedule are for column identification & are clarified as follows:

(A) To identify DOOR TYPES refer to DOOR TYPES this sheet.
(B) For DOOR MATERIAL and FRAME MATERIAL:
S = Steel
A = Aluminum
W = Wood
(C) To identify FRAME TYPES refer to STEEL FRAME ELEVATIONS & ALUM. FRAME ELEVS.
(D) FRAME DETAILS are referenced and shown as follows, unless noted otherwise:
Frame Details are referenced in Door and Frame Schedule, and shown on this sheet. Steel Frame Profiles are referenced on Steel Frame Elevations, and shown on this sheet.
Glass types are shown on Frame Elevations.
(E) SCHEDULE NOTES:
1. EXISTING DOOR, FRAME, HARDWARE, AND TRIM TO BE RELOCATED.
2. NIKE PARTITION DOOR. SEE SPECIFICATIONS FOR HARDWARE.

STEEL FRAME PROFILES



DOOR TYPES

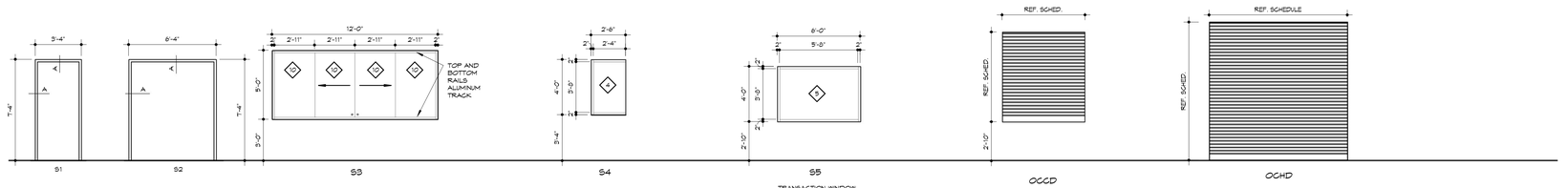


GLASS SCHEDULE

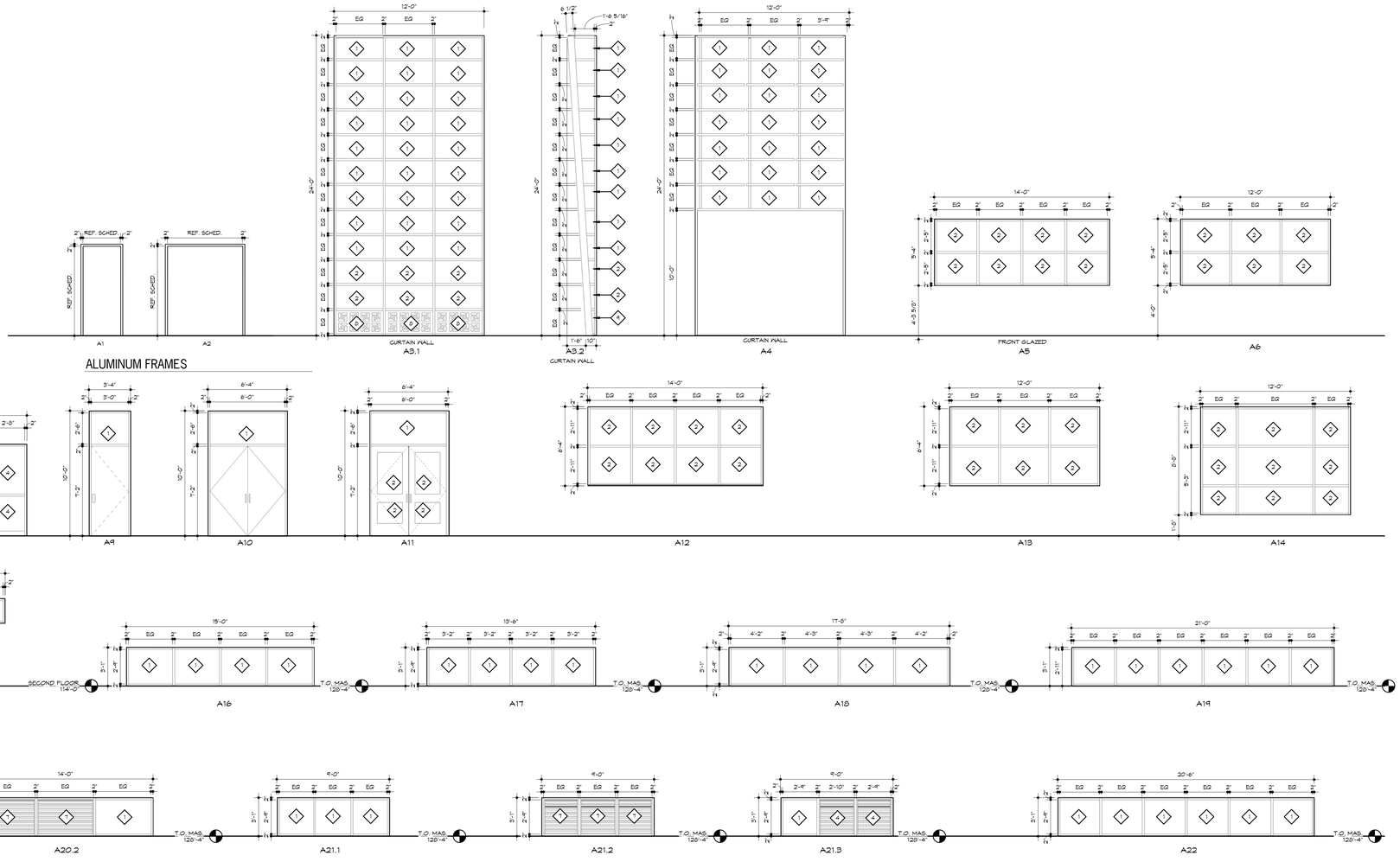
MARK	TYPE
1	1" INSULATING: A) Exterior - 1/4" Tinted B) Interior - 1/4" Clear Low-E
2	1" INSULATING TEMPERED: A) Exterior - 1/4" Tinted B) Interior - 1/4" Clear Low-E
3	1/4" CLEAR
4	1/4" CLEAR TEMPERED
5	BALLISTIC GLAZING
6	1" INSULATING TEMPERED SPANDREL
7	LOUVER INSERT REF. MECH.
8	LOUVER INSERT REF. MECH. AND DECORATIVE METAL SCREEN IN FRONT (05/1500-1) PATTERN SHOWN OUT OF SCALE; GLAZING TYPE 2 AT SOUTH.
9	METAL INSERT.
10	3/16" CLEAR TEMPERED

* REF. PLANS FOR TRANSACTION FRAME GLAZING.

STEEL FRAMES



ALUMINUM FRAMES



HTK ARCHITECTS PA
9300 W 110TH ST. STE. 150
OVERLAND PARK, KANSAS 66210
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DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
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Department of Administration
Office of Facilities and
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800 SW Jackson, Suite 700
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Phone 785-296-2069
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DRAWN BY: Author CHECKED BY: Checker REV:
DATE: 4-15-15

DOOR, FRAME, & WINDOW SCHEDULES & DETAILS

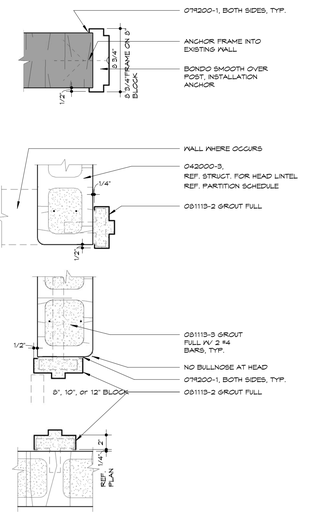
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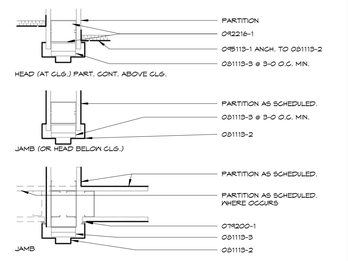
CONSTRUCTION DOCUMENTS

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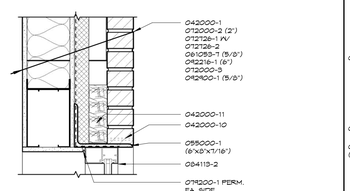
JCSBC
2-2-2016
Att.9C.-0044



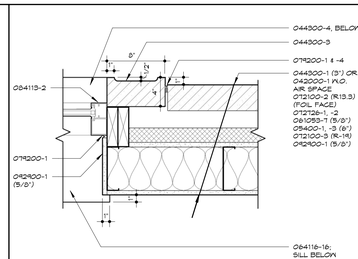
1 INT. MASONRY JAMB, HEAD SIM DETAIL
1 1/2" = 1'-0"



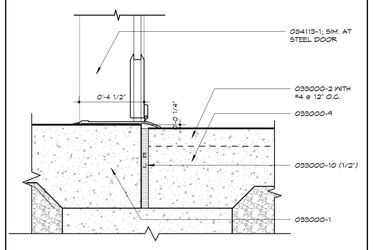
2 GYP. BD. PARTITION HEAD & JAMB DETAIL
1 1/2" = 1'-0"



3 ALUM. EXTERIOR HEAD @ BRICK
1 1/2" = 1'-0"



4 ALUMINUM JAMB- EXT.
1 1/2" = 1'-0"

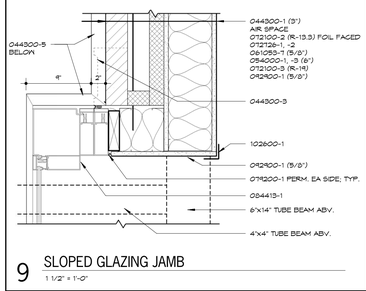


5 EXTERIOR THRESHOLD DETAIL
3" = 1'-0"

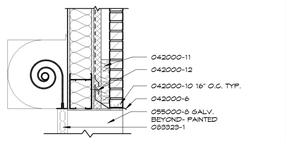
KEYNOTES

Note: Keynotes are drawn from a master list; # may not be sequentially numbered. Sizes (ex. 2x4) or other info. following keynote on drawings indicates criteria for those materials/locations which may differ from std. material specified.

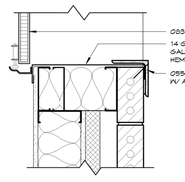
033000	-1	Concrete Structure	081113	-1	Steel Door
	-2	Concrete Floor Slab		-2	Steel Frame
	-3	Vapor Barrier		-3	Frame Anchor
	-4	Welded Wire Fabric		-4	Louver
	-5	Steel Reinforcing Bar		-5	Plaster Guard
	-6	Rustication Joint		-6	FPR Door
	-7	Waterstop	081416	-1	Flush Wood Door
	-8	Expansion Anchor	083113	-1	Access Door
	-9	Sidewalk		-2	Access Door Frame
	-10	Premolded Joint Filler		-3	Floor Access Door
035000	-1	Concrete Topping	083323	-1	Overhead Coiling Door
042000	-1	Face Brick		-2	Coiling Counter Door
	-2	Concrete Masonry Unit - Normal Weight (")	083613	-1	Sectional Overhead Door
				-2	Sectional Overhead Door Track
	-3	Concrete Masonry Unit - Lightweight (")		-3	Weatherstripping
	-4	Wire Reinforcing	084113	-1	Aluminum Entrance Door
	-5	Metal Tie/Anchor		-2	Aluminum Entrance Frame
	-6	Through Wall Flashing		-3	Sunshade
	-7	Control Joint Strip		-4	Aluminum Bubsill
	-8	Bond Beam (")	084413	-1	Glazed Aluminum Curtain Wall
	-9	Compressible Filler		-2	Threshold
	-10	Cavity Drainage Material		-3	Sunshade Louver
	-11	Termination Bar		-4	Aluminum Bubsill
044300	-1	Stone Masonry	087100	-1	Track Hardware
	-2	Anchor	088000	-1	Glazing (as scheduled)
	-3	Stone Jamb	088080	-1	Security Glazing (as scheduled)
	-4	Stone Sill	089116	-1	Louvers and Vents
	-5	Belt Course	092216	-1	Steel Stud (")
041200	-1	Cast Stone		-2	Steel Stud Runner (")
051200	-1	Steel Beams		-3	Furring Channel (")
	-2	Steel Column	092400	-1	Portland Cement Plastering
	-3	Steel Tube		-2	Metal Lath
	-4	Steel Channel		-3	Casing Bead
052100	-1	Steel Joist	092900	-1	Gypsum Board (")
	-2	Joist - Extended End		-2	Fire Rated Gypsum Board (")
	-3	Joist - Ceiling Extension			
053100	-1	Steel Decking		-3	Cementitious Tile Backer Plank
	-2	Flexible Closure Strips			
054000	-1	Structural Steel Studs		-4	Metal Suspension System
	-2	Structural Steel Joists		-5	Acoustical Sealant
	-3	'C' Closure		-6	Acoustical Insulation (")
055000	-1	Steel Angle		-7	Metal Edge Trim
	-2	Steel Channel		-8	Auxiliary Supports Framing
	-3	Steel Lintel		-9	Metal Control Joint
	-4	Steel Pipe		-10	High Impact Gypsum Board
	-5	Steel Tube		-11	Concrete Interior Finishing Compound
	-6	Steel Plate		-12	Stiffener
	-7	Steel Ladder	093000	-1	Porcelain Wall Tile
	-10	Steel Bollard			
055100	-1	Steel Stairs		-2	Shower Pan
	-2	Steel Pan Stringer		-3	Shower Pan Flashing
	-3	Steel Embed Plate		-4	Porcelain Floor Tile
055213	-1	Steel Pipe Handrail		(" x ")	
	-2	Steel Pipe Railings		-5	Tile Base
	-3	Steel Handrail Wall Bracket		-6	Tile Cap
	-4	Steel Rod		-7	Setting Bed
055300	-1	Steel Grating		-8	Uncoupling water-proof membrane
	-2	Steel Frame		-9	Shower Splashguard
057500	-1	Decorative Metal Railings		-10	Shower Niche
057500	-1	Ornamental Metal Stamped Grille		-11	Acoustical Panel (x) (F = Fire Rated)
061053	-1	2x Wood Nailer (")	095113	-1	Acoustical Ceiling System
	-2	2x Wood Blocking (")		-2	Ceiling Suspension System
	-3	1x Wood Continuous (")		-3	Edge Mold Trim
	-4	Plywood (")		-4	Resilient Support Framing
	-5	450 Psi		-5	Resilient Tile Flooring
	-6	Treated (")	096813	-1	Resilient Wall Base
	-7	Sheathing (")		-2	Resilient Pad
064116	-1	Interior Architectural Woodwork		-3	Edge Strip
	-2	High Pressure Laminate		-4	Tactile Warning Surface
	-3	Cabinet Liner Laminate		-5	Resilient Stair Tread
	-4	Particle Board		-6	Resilient Stair Riser
	-5	Plywood		-7	Resilient Stringer Skirt
	-6	Trim Edge Molding		-8	Resilient Stair Nose
	-7	Solid Wood Blocking	096813	-1	Carpet Tile
	-8	Hardwood	096900	-1	Access Flooring
	-9	Steel Tube/Leg Frame	099113	-1	Exterior Painting
	-10	Door Hinge	099123	-1	Interior Painting
	-11	Door/Drawer Pull	099635	-1	Secondary Containment Coating System
	-12	Magnetic Catch	101400	-1	Signage
	-13	Grommet	102113	-1	Toilet Partition
	-14	Shelf Supports		-2	Toilet Screen
	-15	Countertop	102213	-1	Wire Mesh Partitions
	-16	Solid-Surfacing Material	102600	-1	Impact-Resistant Corrugated
071113	-1	Bituminous Dampproofing	102800	-1	Tissue Dispenser
071326	-1	Self-Adhering Sheet Waterproofing		-2	Framed Mirror
072100	-1	Foundation Wall or Under Slab Insulation (R-)		-3	Sanitary Napkin Disposer
	-2	Cavity Wall Insulation (R-)		-4	Grab Bar
	-3	Building Insulation - Unfaced (R-)		-5	Shower Seat
	-4	Building Insulation - Faced (R-)		-6	Shower Curtain Rod
	-5	Sill Sealer		-7	Coat/Robe Hook
	-6	Batt Insulation		-8	Shower Curtain
072126	-1	Fluid Applied Membrane Air Barrier		-9	Fire Extinguisher Cabinet
	-2	Flashing Tape		-10	Fire Extinguisher
074213	-1	Metal Wall Panel (Type 1)		-11	Personnel Locker
	-2	Trim		-12	Locker
	-3	J-Furring (")		-13	Bench
	-4	Metal Wall Panel (Type 2)			Pre- Manufactured Canopies
	-5	Metal Soffit Panel		-2	Flagpole
075420	-1	Thermoplastic Polyolefin (TPO) Roofing		-3	Deterrent Spikes
	-2	Roof Insulation Flat		-4	Roller Window Shades
	-3	Roof Insulation Tapered		-5	Spray Painting Booth
	-4	Roof Expansion Joint		-6	Hydraulic Elevator
	-5	Coverboard		-7	Silo Cleaning
	-6	Walkway Protection Board		-8	Earth Moving
	-7	Sound Deadening Board		-9	Interior Fill
	-8	Roof Edge Flashing and Counterflashing		-10	Exterior Fill
	-9	Pre-Finished Roof Edge		-11	Granular Drainage Course
	-10	Pre-Finished Coping		-12	Subbase Course
	-11	Sheet Metal Reglet		-13	Concrete Paving
	-12	Sheet Metal Gutter		-14	Perforated Wall Pipe & Fittings
	-13	Sheet Metal Downspout		-15	Geotextile Filter Fabric (Flat Sock)
	-14	Sheet Metal Scupper		-16	Drainage Panel
077124	-1	Roof Expansion Joint			
077200	-1	Roof Hatch/Ladder			
078413	-1	Penetration Firestopping			
078443	-1	Joint Firestopping			
079200	-1	Sealant - Rake where required			
	-2	Joint Filler			
	-3	Sealant			
	-4	Backer Rod			
079500	-1	Expansion Control			



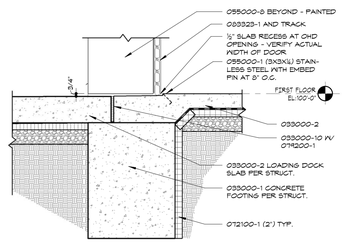
9 SLOPED GLAZING JAMB
1 1/2" = 1'-0"



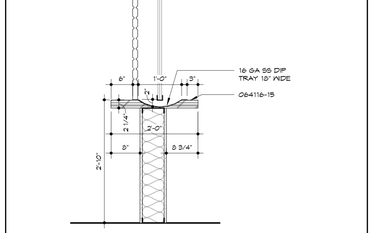
10 OVERHEAD COILING DOOR HEAD - EXT.
3/4" = 1'-0"



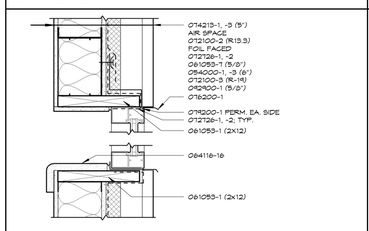
11 OVERHEAD COILING DOOR JAMB
1 1/2" = 1'-0"



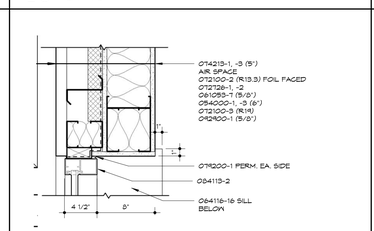
12 OVERHEAD COILING DOOR SILL
3/4" = 1'-0"



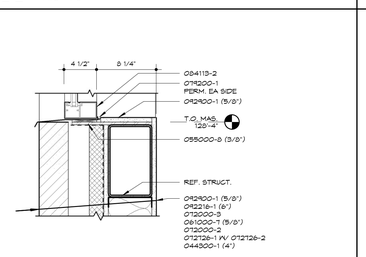
13 ALUM. AT COUNTER
3/4" = 1'-0"



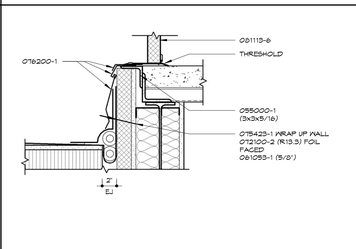
14 ALUM. HEAD AND SILL AT METAL PANEL
1 1/2" = 1'-0"



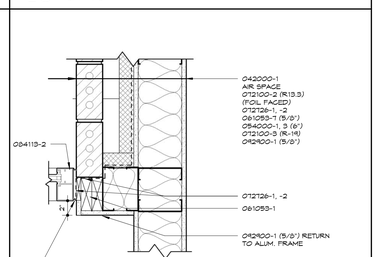
15 ALUM. JAMB AT METAL PANEL
1 1/2" = 1'-0"



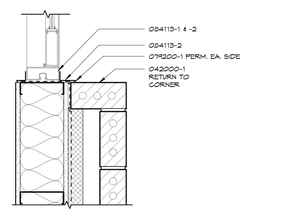
16 CLERESTORY ALUM. WINDOW SILL
1 1/2" = 1'-0"



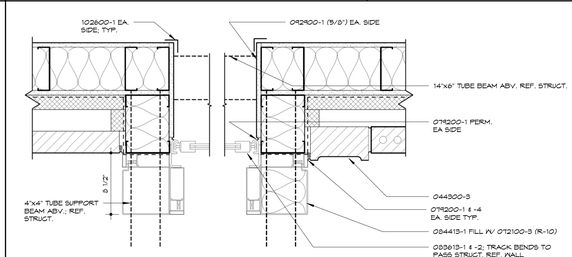
17 DOOR 205 SILL
1 1/2" = 1'-0"



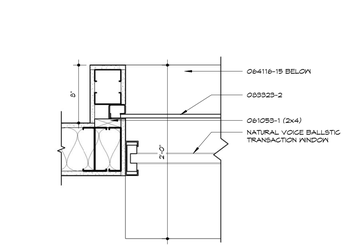
18 DOOR 100.1 JAMB
1 1/2" = 1'-0"



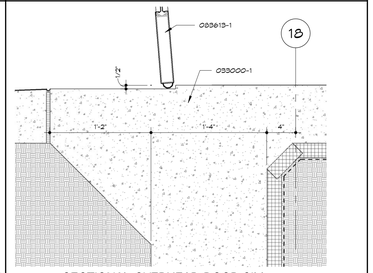
19 EXTERIOR DOOR JAMB
1 1/2" = 1'-0"



20 SLIDING GARAGE DOOR JAMB
1 1/2" = 1'-0"



21 INTERIOR OCCD JAMB
1 1/2" = 1'-0"



22 SECTIONAL OVERHEAD DOOR SILL
1 1/2" = 1'-0"

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

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HTK ARCHITECTS PA
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TOPEKA KANSAS 66612
P 785.266.3939
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DENNIS A. HAGEN — LICENSED — 4-15-15 — 25621 — KANSAS — PROFESSIONAL ARCHITECT

ROBERT B. MCCLAUGHLIN — LICENSED — 13435 — 4-15-15 — KANSAS — PROFESSIONAL ENGINEER

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone: 785-296-8899
FAX: 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 173000038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

DOOR, FRAME, & WINDOW DETAILS

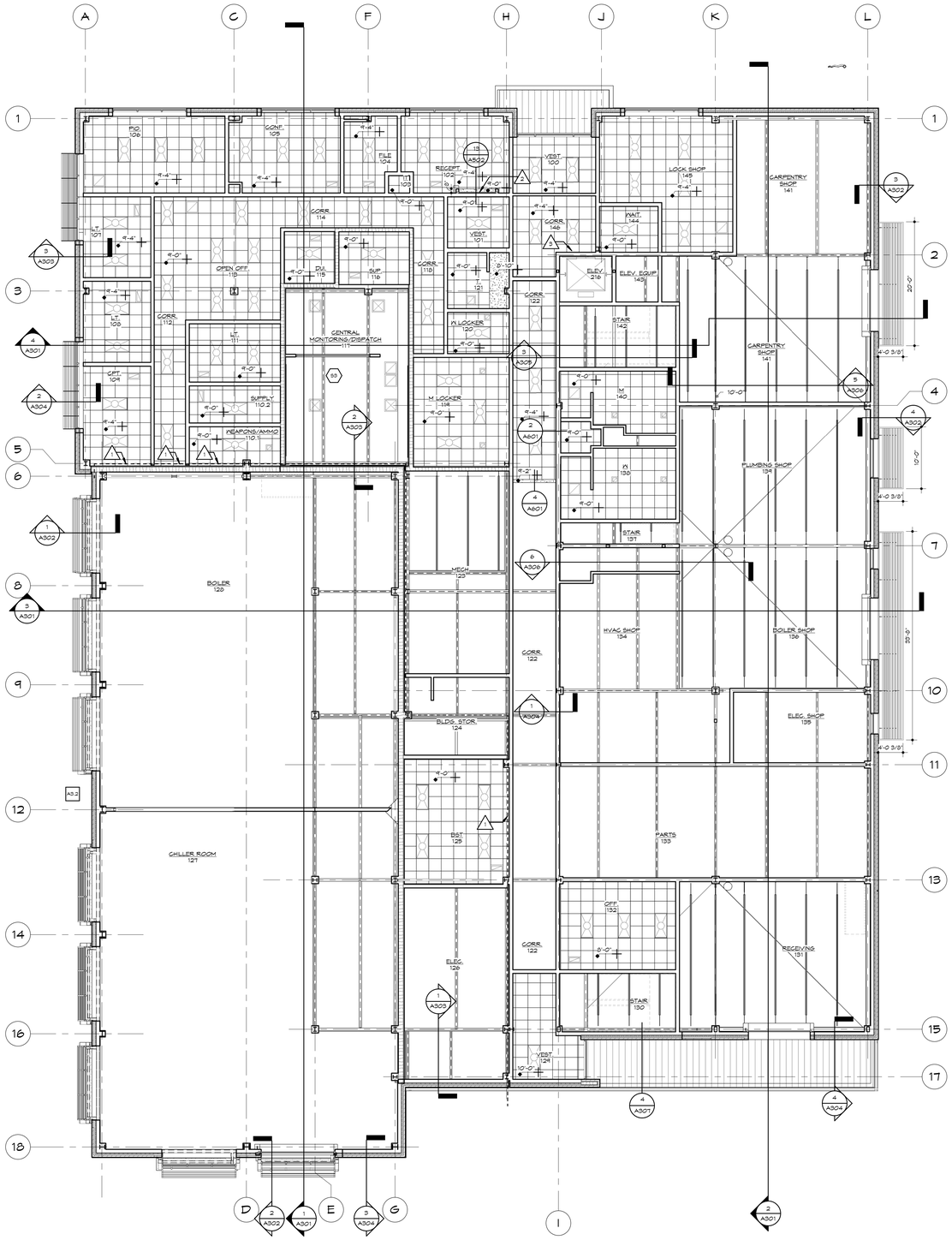
A-012651

A502

CONSTRUCTION DOCUMENTS

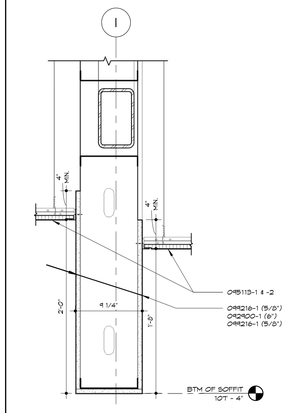
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JCSBC
2-2-2016
Att.9C--0045

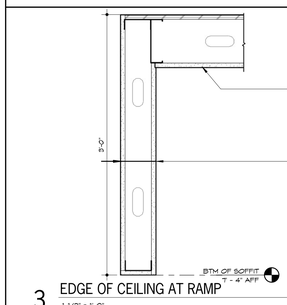


1 FIRST FLOOR
1/8" = 1'-0"

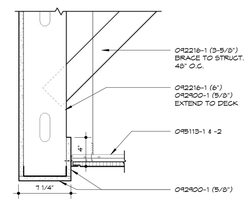
NORTH



2 CEILING AT RESTROOM ENTRIES
1 1/2" = 1'-0"



3 EDGE OF CEILING AT RAMP
1 1/2" = 1'-0"



4 TYP. BULKHEAD
1 1/2" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- 2'-0" X 2'-0" ACOUSTICAL CEILING TILE & GRID
- PAINTED GYP. BD. & MTL. STUD SOFFIT
- 2'-0" X 2'-0" LIGHT FIXTURE, REF. ELEC.
- 2'-0" X 4'-0" LIGHT FIXTURE, REF. ELEC.
- CEILING RESISTER, REF. MECH.
- CEILING RETURN, REF. MECH.
- METAL PANEL SOFFIT
- 0' - 0" CEILING HEIGHT OFF FLOOR.

REFLECTED CEILING PLAN NOTES

GENERAL: COORDINATE WITH WORK SHOWN ON STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, REF. FE SHEET FOR EQUIP. COORDINATION

1. PROVIDE EXPANSION JOINT COVER.
2. PROVIDE OPENING IN GYP. SOFFIT FOR COILING FIRE DOOR.
3. PROVIDE OPENING FOR SMOKE CURTAIN.

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DANIEL R. WEATH BLACKLUN
LICENSED ARCHITECT
13435
4-15-15
KANSAS
INTERNATIONAL ARCHITECTS

DENNIS A. HAIGH
LICENSED
4-15-15
25R
KANSAS
PROFESSIONAL ARCHITECT

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone: 785-296-0538
FAX: 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DRAWN BY: Author CHECKED BY: Checker REV:

DATE: 4-15-15

REFLECTED CEILING PLAN
FIRST FLOOR

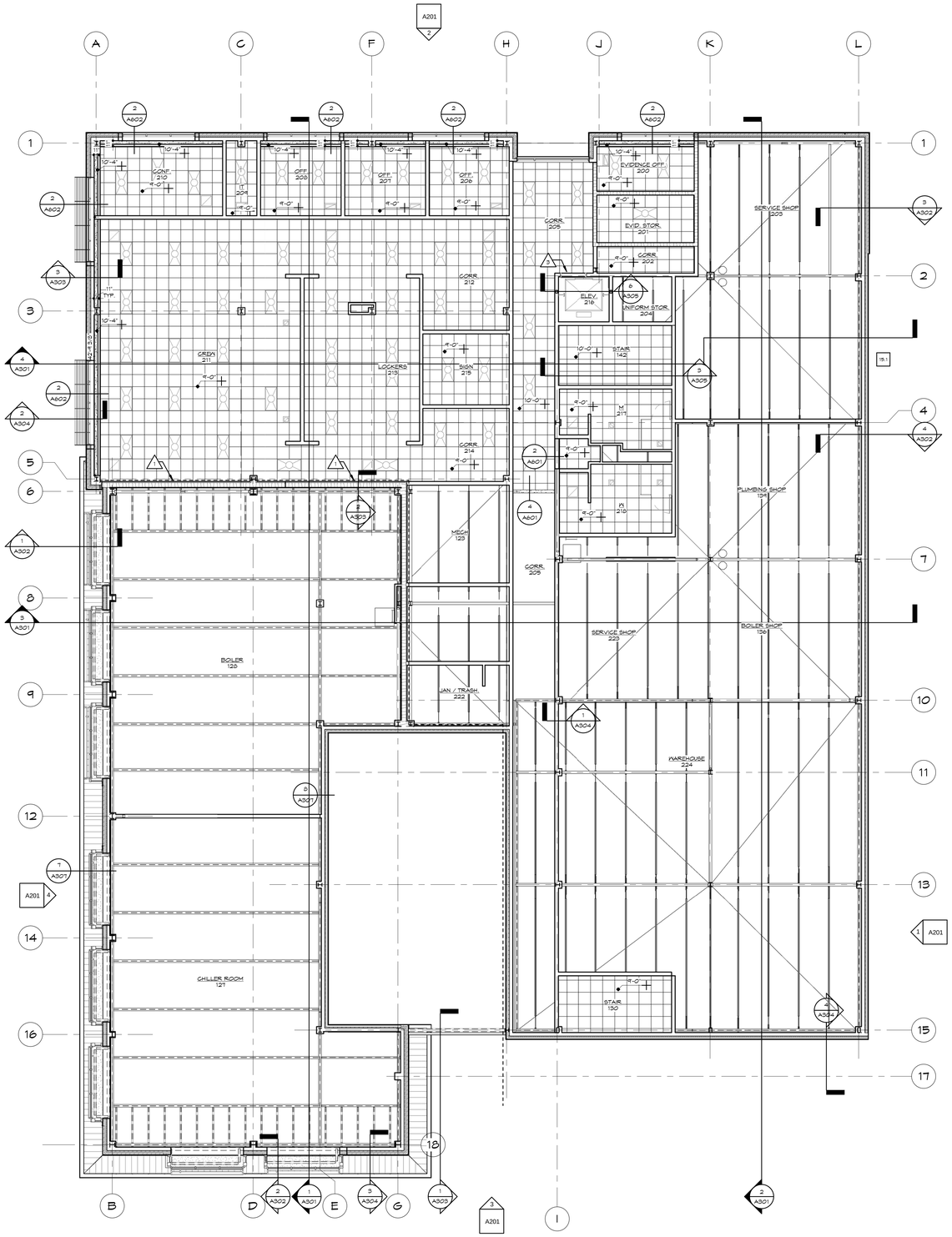
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CONSTRUCTION DOCUMENTS

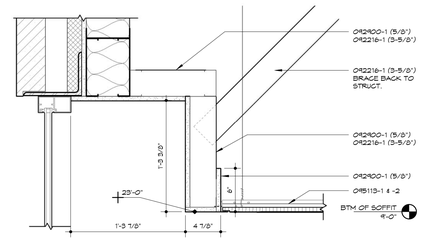
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JCSBC
2-2-2016
Att.9C.--0046



1 SECOND FLOOR
1/8" = 1'-0"

NORTH



2 CEILING AT OFFICE WINDOW
1 1/2" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- 2'-0" X 2'-0" ACOUSTICAL CEILING TILE & GRID
- PAINTED GYP. BD. & MTL. STUD SOFFIT
- 2'-0" X 2'-0" LIGHT FIXTURE, REF. ELEC.
- 2'-0" X 4'-0" LIGHT FIXTURE, REF. ELEC.
- CEILING REGISTER, REF. MECH.
- CEILING RETURN, REF. MECH.
- METAL PANEL SOFFIT
- 0' - 0" CEILING HEIGHT OFF FLOOR.

REFLECTED CEILING PLAN NOTES

GENERAL: COORDINATE WITH WORK SHOWN ON STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, REF. FE SHEET FOR EQUIP. COORDINATION

1. PROVIDE EXPANSION JOINT COVER.
2. PROVIDE OPENING IN GYP. SOFFIT FOR COILING FIRE DOOR.
3. PROVIDE OPENING FOR SMOKE CURTAIN.

NOTE: REFER TO STRUCTURAL DRAWINGS FOR REINFORCING STEEL IN EXTERIOR WALLS AND CONCRETE NOT SHOWN

NOTE: REFER TO ALL DETAILS (DETAILS LOCATED ON THIS SHEET, PRECEEDING SHEETS AND FOLLOWING SHEETS) FOR APPLICABLE NOTES NOT SHOWN

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DENNIS A. HAUGH R-13435 LICENSED 4-15-15 KANSAS PROFESSIONAL ARCHITECT

DENNIS A. HAUGH LICENSED 4-15-15 25611 KANSAS PROFESSIONAL ARCHITECT

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15
-

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and Procurement Management
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DRAWN BY: Author CHECKED BY: Checker REV:

DATE: 4-15-15

REFLECTED CEILING PLAN
SECOND FLOOR

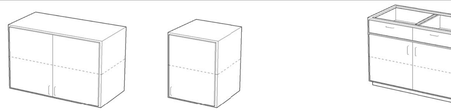
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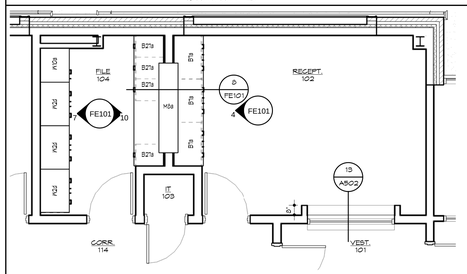
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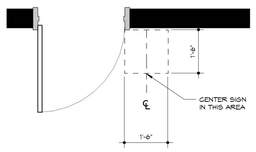
CONSTRUCTION DOCUMENTS

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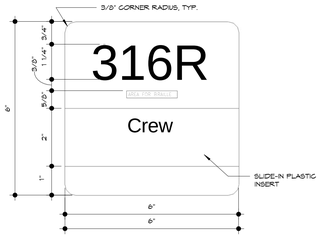
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2-2-2016
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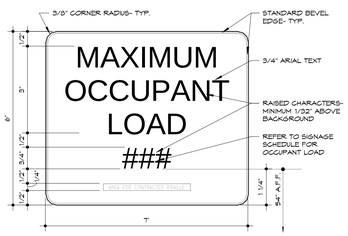

FILE
104
RECEPT.
102
FE101
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VEST.
101
CORR.
114
B27a
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M28
K24
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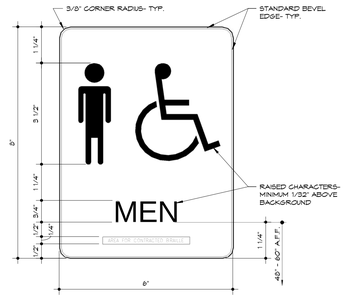
1 SIGN LOCATION DETAIL
1/2" = 1'-0"



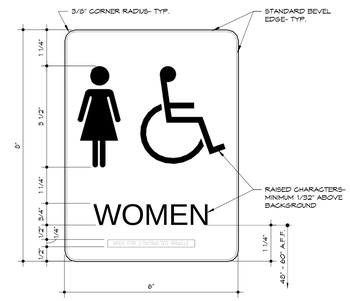
2 OFFICE SIGN WITH SLIDE
6" = 1'-0"



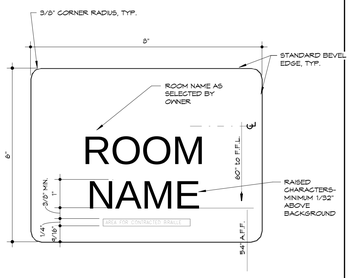
3 SIGN - OCCUPANCY
6" = 1'-0"



4 SIGN - TOILET - MEN
6" = 1'-0"



5 SIGN - TOILET - WOMEN
6" = 1'-0"



6 ROOM SIGN
6" = 1'-0"



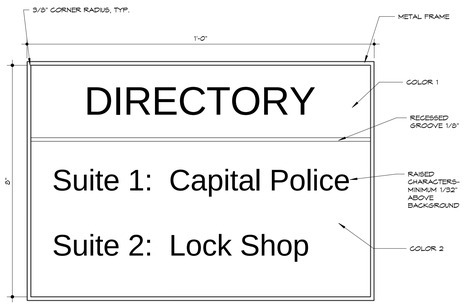
7 STAIR SIGN
6" = 1'-0"



8 UNISEX TOILET
6" = 1'-0"

PANEL SIGN SCHEDULE

ARCH. PLAN NUMBER/ SIGN PLAN MARK/ ROOM NUMBER-TEXT	ROOM NAME-TEXT	ARCH. PLAN NAME	SIGN TYPE	QTY.
100		VEST.	9	1
101	CAPITAL POLICE	VEST.	6	1
102		RECEPT.	-	-
103		IT	6	1
104		FILE	6	1
105		CONF.	6	1
106		PIO.	2	1
107		LT.	2	1
108		LT.	2	1
109		CPT.	2	1
110.1		WEAPONS/AMMO	6	1
110.2		SUPPLY	6	1
111		LT.	2	1
112		CORR.	-	-
113		OPEN OFF.	6	2
114		CORR.	-	-
115		DUI.	2	1
116		SUP.	6	1
117		CENTRAL MONITORING/DISPATCH	2	6
118		CORR.	-	-
119		M LOCKER	6	1
120		W LOCKER	6	1
121		T.	7	1
122		CORR.	-	-
123		MECH.	6	2
124		BLDG. STOR.	6	2
125		BST	6	2
126		ELEC.	6	2
127		CHILLER ROOM	6	1
128		BOILER	6	1
129		VEST.	-	-
130		STAIR	8	2
131		RECEIVING	2	2
132		OFF.	3	1
133		PARTS	6	2
134		HVAC SHOP	-	-
135		ELEC. SHOP	6	2
136		BOILER SHOP	6	2
137		STAIR	8	2
138		W	5	1
139		PLUMBING SHOP	-	-
140		M	4	-
141		CARPENTRY SHOP	-	-
142		STAIR	8	2
143		ELEV. EQUIP.	6	1
144	LOCK SHOP	WAIT.	6	1
145		LOCK SHOP	2	1
146		CORR.	8	1
200		EVIDENCE OFF.	2	1
201		EVID. STOR.	6	1
202		CORR.	-	-
203		SERVICE SHOP	6	1
204		UNIFORM STOR.	6	1
205		CORR.	-	-
206		OFF.	2	1
207		OFF.	2	1
208		OFF.	2	1
209		IT	6	1
210		CONF.	6	1
211		CREW	2,3	2,2
212		CORR.	-	-
213		LOCKERS	-	-
214		CORR.	-	-
215		SIGN	6	1
216		ELEV.	7	1
217		M	4	1
218		W	5	1
219		IT RM..	6	1
221		MEZZANINE	-	-
222		JAN / TRASH.	6	1
223		SERVICE SHOP	6	2
224		WAREHOUSE	1	1
EXT		Exterior	-	-
S100		OFF.	2	1
S101		CORR.	2	1
S102		CORR.	2	1
S103		SW MAIN SHOP	6	1



9 DIRECTORY
6" = 1'-0"

SIGN SCHEDULE GENERAL NOTES

1) THE TEXT-NUMBER AND TEXT-NAME ARE THE CHARACTERS TO BE PRINTED ON THE SIGN AS INDICATED BY THE SIGN TYPE.

2) ALL SIGNS ADJACENT TO DOORS OR OPENINGS TO BE LOCATED ACCORDING TO DETAIL 1/FE501

3) REFER TO FIXED EQUIPMENT PLANS FOR SIGN LOCATION PLAN MARKS UNLESS OTHERWISE NOTED. SIGN PLAN MARKS ARE INDICATED AS:

4) PROVIDE ONE AT EACH DOOR INTO ALL ROOMS WITHIN THE FACILITY NOT OTHERWISE SCHEDULED TO RECEIVE OTHER ROOM SIGNAGE. ROOMS WITH MULTIPLE DOORS WILL REQUIRE ONE SIGN AT EACH DOOR. NOTE THAT THIS INCLUDES ALL CLOSETS NOT OTHERWISE LISTED AS A ROOM.

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TOPEKA, KANSAS 66612
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DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone: 785-296-8899
FAX: 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DRAWN BY: Author CHECKED BY: Checker REV:
DATE: 4-15-15

SIGNAGE

A-012651

FE201

CONSTRUCTION DOCUMENTS

4/16/2015 11:13:03 AM C:\Users\jms\Documents\REVIT\State of Kansas Energy_Central_jms.rvt

JCSBC
2-2-2016
Att.9C.--0049

GENERAL NOTES - STRUCTURAL

1. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.

2. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. All conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.

3. All design and construction work for this project shall conform to the requirements of the 2012 International Building Code, as amended by the City of Topeka, Kansas.

4. These drawings are for this specific project and no other use is authorized.

5. Structural Design Load Criteria:

A. Roof = 20 psf Live Load.
B. Floor: Office= 60 psf Live + 15psf partition
Corridor= 80 psf Live
Public Spaces/Stairs= 100 psf Live
Floor Collateral Dead Load= 10psf
C. Snow Pg = 20 psf, Is = 1.0
D. Lateral Loads:
1.) Wind V =120 mph
Exposure C, Fully Exposed
Occupancy (Risk) Category III; GCpi=+/-0.18
Design wind pressures to be used for the design of exterior component & cladding materials on the designated zones of wall and roof surfaces shall be per section 30,7 & Table 30.7-2 of ASCE/SEI 7-05. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable.
2.) Seismic= Ss = 0.155, S1 = 0.054, IE = 1.0
Occupancy (Risk) Category III, Site Classification D
Sds=0.165, Sd1=0.086, Ie=1.25
Seismic Design Category B
Basic Seismic Force-Resisting System:
Steel Systems Not Specifically Detailed for Seismic Resistance
Equivalent Lateral Force Procedure
(R=3.0, V=0.103W; Omega=3.0; Cd=3.0)
E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the 2012 International Building Code.

6. Concrete:

A. All concrete except exterior flat work shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
B. All concrete for interior flat work shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 560 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.0 gallons of water per 100 pounds of cement and not over 4 inches of slump.
C. Concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
D. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
E. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
F. Aggregates for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves.
G. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
H. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
I. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 150 square feet, or 12 feet on any side.
J. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
K. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
L. No aluminum items shall be embedded in any concrete.

7. Reinforcing Steel:

A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
B. Clear minimum coverage of concrete over reinforcing steel shall be as follows:

Concrete placed against earth	3"
Formed concrete against earth	2"
Slabs	1"
Beams or Columns	1-1/2"
Other	2"

All coverage shall be nominal bar diameter minimum.
C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
G. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
H. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 40 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
I. Allow 1 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions (labor for placing same to be included).

8. Structural Steel:

A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel. Hollow Structural Sections (HSS) shall be ASTM A500, grade B. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
B. All welding shall conform to the recommendations of the AWS.
C. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, Vn/Omega, shown in the maximum total uniform load tables, whichever is greater; and, shall account for eccentricity when the bolt line is more than 2" from the center of the support. All connections must be two bolt minimum. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his seal.
D. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise.
E. Design, fabrication and erection of all open-web bar joists shall comply with the recommendations of the Steel Joist Institute (SJI). Joists shall be designed to support loads given in the standard load tables of SJI Specs and Tables plus an additional point load of 200 lbs. on the top or bottom chord at any location without additional web reinforcing.
F. All K-series joists shall bear 2-1/2" minimum on structural steel beams and be welded to the beams with 1 1/2" of 1/8" fillet weld each side (minimum).
G. All K-series joists bearing on masonry walls shall have 6" x 3/8" x 6" bearing plates welded to bulbtees set in bond beams with 1 1/2" of 1/8" fillet weld each side (minimum). Bearing plates shall be located not more than 1/2" from the face of the wall on the bearing side. Joists shall bear 4" minimum on bearing plates and be welded to beams or bearing plates with 1 1/2" of 3/8" fillet weld each side (minimum).
H. All steel joists shall have horizontal bar or angle bridging per Steel Joist Institute Specifications. Provide rigid x-bridging in addition to and matching horizontal bridging where joists are discontinuous unless horizontal bridging is anchored to wall top and bottom. Joist sweep allowance shall comply with AISC Standard Practice.
I. Joists shall be designed for 25 psf net uplift resulting from wind loading as measured 10 ft from a building corner, 20 psf net uplift as measured from the building edge, and 15 psf otherwise.
J. All openings in steel joist roof to have 3 x 3 x 1/4" angle frame set between joists. Support mechanical equipment with 4 x 4 x 5/16" angles laid between joists framed to 4 x 4 x 5/16" angles (length equals mechanical unit dimension plus distance each end to next panel point) laid parallel to and welded to top and/or bottom cord of joists to distribute load to joist panel points.
K. All steel joists shall have a midspan camber approximately equal to that recommended by the Steel Joist Institute Specifications.
L. Design and installation of steel decking shall comply with the recommendations of the Steel Deck Institute (SDI). All decking shall be galvanized unless noted otherwise.
M. Allow 2 tons structural steel to be used as directed in field for special conditions by the engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included. 50% of structural steel allowance shall be bid as miscellaneous galvanized angle and plate.

9. Post-Installed Anchors:

A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. Drawings shall show anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post-installed anchors.
B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions.
E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions.
F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

10. Foundations:

A. The soil investigation was prepared by GeoSource. The report number is D14G1399 and the telephone number is 785-272-7200.
B. Spread footings, grade beams, and retaining walls are designed to bear on rammed aggregate piers designed by supplier to stiffen surrounding soils to safely sustain 5,000 psf.
C. Retaining structures are designed for a lateral load of 60 pcf equivalent fluid pressure.
D. Contractor shall provide for dewatering at excavations from either surface water or seepage.
E. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
F. All concrete in retaining walls shall have attained its design strength prior to being backfilled.
G. All basement walls shall not be backfilled until the first floor slab or wood decking is installed or the wall is temporarily braced by the contractor and the concrete has reached of its design strength.
H. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials have become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

11. Concrete Block Masonry:

A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 3050 psi and laid up using type "S" mortar such that f'm equals 2000 psi. Mortar shall be volume proportion based cement lime mortar. Proportioning shall be completed by box measure. Any block in contact with earth shall be normal weight units, laid using type "S" mortar and grouted solid.
B. The contractor shall provide adequate temporary bracing for all masonry walls during construction.
C. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder or truss) per architectural drawings and specifications (16" maximum vertical spacing).
D. Cavity wall construction shall be reinforced as designed for specific concrete block used. The horizontal joint reinforcing shall be of the ladder or truss style per specification and continuous between brick and block, as prescribed by architectural drawings.
E. Concrete block shall be reinforced as follows in 6", 8", 10", and 12" walls:
1.) Vertical reinforcing shall be a minimum of 1 - #5 bar in 6" and 8" walls at 48" on center and 2 - #5 bars in 10" and 12" walls at 16" on center, at each corner, at each door and window jamb, each side of control joints and in the end void of each length of wall. Lap splices for masonry vertical reinforcing shall be 48 bar diameters or 24" minimum.
2.) Horizontal reinforcing:
A.) Horizontal joint reinforcing as noted above.
B.) Continuous horizontal bars shall be included per section or detail in bond beam or optional running bond be where noted. Where bond beams are continuous at corners of walls, supply corner bars matching size of horizontal bars (minimum 2'-0" or 48 bar diameters in each direction).
F. Grout, where noted above, shall have a minimum design ultimate compressive strength of 3000 psi at 28 day test and 3/8" maximum aggregate size.
G. Non-load bearing concrete block walls shall be isolated from adjacent structural elements with vertical 3/8" control joints and at the top of the wall with 1" air space or compressible material and support per architectural detail.
H. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall.

Joints shall be spaced at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All bond beam horizontal reinforcing shall be continuous through control joints.
I. Lintels over all openings in walls not otherwise covered shall be one 5" x 3-1/2" x 5/16" angle for each 4" of masonry. All exterior lintels to be galvanized.
J. Walls shall be anchored top and bottom by dowels matching wall vertical reinforcing (unless noted otherwise) from floor slab bottom and bracing angles at the top, per details on the drawings.

12. Light Gage Structural Stud Framing:

A. All load bearing, light gage structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans.
B. All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi.
C. All properties, fabrication, and erection shall be in accordance with latest editions of the AISI "Specifications for the Design of Cold-Formed Structural Members."
D. All framing components shall be cut squarely or at an angle to fit squarely against abutting members. Splicing of axially loaded members is not permitted. Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted.
E. Tracks shall be securely anchored to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on the plans.
F. Multiple studs supporting beams or headers shall be fastened together with (2) - #10 self-drilling screws at 12" on center.
G. Prior to fabrication and/or erection, the contractor shall submit shop drawings complete with detail of erection, fabrication, attachments, anchorages, lintels, etc., for review by the architect/engineer.

14. Shop Drawing Review:

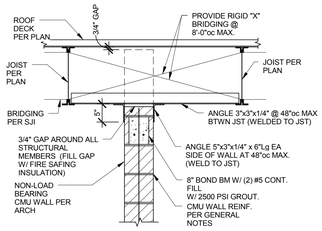
A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
B. Prior to submittal of a shop drawing of any related material to Bob D. Campbell and Company, Inc., the GC shall:
1) Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
2) Review and approve each submission.
3) Stamp each submission as approved.
C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
D. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
1) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
2) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
3) Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing.
4) Grout mix designs (for CMU).
5) Construction and control joint plans and/or elevations.
6) Structural steel shop drawings including erection drawings and piece details. Include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
7) Structural steel connection design calculations.
8) Miscellaneous anchors shown on the structural drawings.
9) Standard details and bridging information for light gage metal framing. Erection plans and details for light gage metal joists and lintels spanning more than 6'-0" shall be submitted. Standard wall framing need not be submitted.

15. Structural Special Inspection:

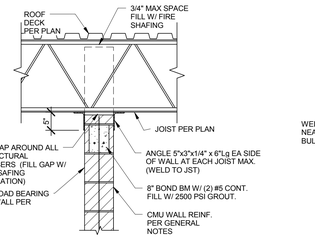
A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the 2012 International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
B. Special Inspections shall be required for the items indicated below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
1) Placement of Concrete
2) Testing of Concrete
3) Bolts in Concrete
4) Placement of Reinforcing Steel
5) Verification of Soil Bearing Capacities
6) Drilled Piers / Piles / Caissons
7) High Strength Bolting
8) Post-Installed Anchors
9) Structural Welding
10) Steel Frame Inspection
11) Structural Masonry
12) Shop Fabrication of Structural Steel
C. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
D. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
E. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.

16. Copyright and Disclaimer:

A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
B. I, Clark A. Basinger, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.



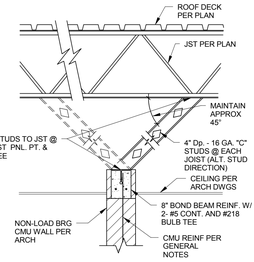
WALL PARALLEL TO JOIST

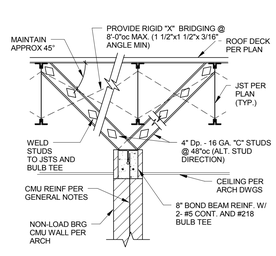


WALL PERPENDICULAR TO JOIST

TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING WALLS THAT EXTEND TO ROOF DECK (REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

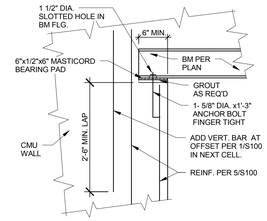
1 SECTION
3/4" = 1'-0"





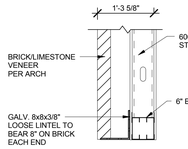
TYPICAL BRACING DETAILS FOR NON-LOAD-BEARING WALLS THAT DO NOT EXTEND TO ROOF DECK (REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION)

2 SECTION
3/4" = 1'-0"



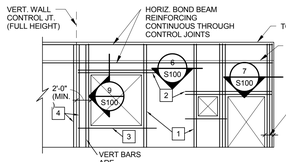
TYPICAL AT STEEL LINTELS

3 TYPICAL BEAM BEARING ON CMU DETAIL
3/4" = 1'-0"



TYPICAL BRICK LOOSE LINTEL

4 TYPICAL LOOSE LINTEL
3/4" = 1'-0"



TYPICAL WALL REINFORCING AT OPENINGS

8/S100 LEGEND:

1 FULL HEIGHT VERTICAL BARS AS JAMB REINFORCING IN FIRST 2 CELLS ADJACENT TO OPENING. REINFORCE EACH CELL WITH SIZE & QUANTITY OF BAR TO MATCH WALL REINFORCING (1 BAR TYPICAL IN 8" WALLS AND 2 BARS TYPICAL IN 12" WALLS).

2 LINTEL REINFORCING PER SECTION 10/S100. EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).

3 2-#5 CONTINUOUS HORIZONTAL BARS AS SILL REINFORCING IN 8" COURSE BELOW OPENING (U.N.O.). EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).

4 FULL HEIGHT VERTICAL BARS PER MASONRY VERTICAL REINFORCING SCHEDULE LOCATED IN END CELL AT EACH SIDE OF VERTICAL WALL CONTROL JOINTS.

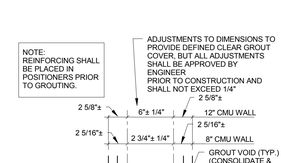
GENERAL CRITERIA: (SECTION 8/S100 CONT.)

1.) VERTICAL REINF. BARS SHALL BE DOWELED TO FOUNDATION WITH A DOWEL OF MATCHING SIZE AND SPACING.

2.) CONTRACTOR SHALL COORDINATE AND VERIFY OPENINGS IN MASONRY WALLS. OPENINGS SHALL BE DETAILED ON REINFORCING STEEL SHOP DRAWING ELEVATIONS.

3.) VERTICAL CONTROL JOINTS IN MASONRY WALLS SHALL BE 3/8" WIDE, FULL HEIGHT OF WALL. JOINTS SHALL BE SPACED AT A MAXIMUM OF 24'-0" o.c. AND NOT LESS THAN 2'-0" FROM THE EDGE OF ANY OPENING. ALL HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS. ALL BOND BEAM HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. CONTRACTOR SHALL COORDINATE AND VERIFY ALL CONTROL JOINT LOCATIONS.

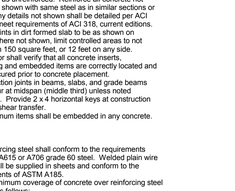
5 TYPICAL CMU WALL REINFORCING
1 1/2" = 1'-0"



NOTE:
ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUTED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUTING. ANY MASONRY W/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.

TYPICAL REBAR POSITIONING DETAIL

6 SECTION
1 1/2" = 1'-0"

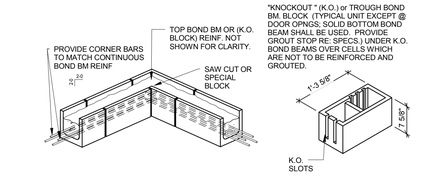


7 SECTION
3/4" = 1'-0"

"KNOCKOUT " (K.O.) or TROUGH BOND BM. BLOCK (TYPICAL UNIT EXCEPT @ DOOR OPNGS; SOLID BOTTOM BOND BEAM SHALL BE USED. PROVIDE GROUT STOP RE: SPECS.) UNDER K.O. BOND BEAMS OVER CELLS WHICH ARE NOT TO BE REINFORCED AND GROUTED.

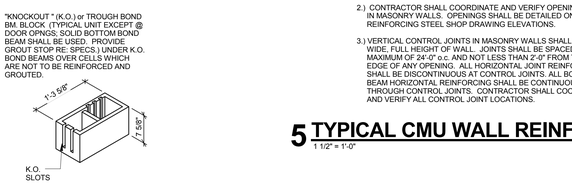
TYPICAL MASONRY REINFORCING NOTE:

ALL INTERIOR & EXTERIOR MSRY WALLS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE TO BE REINFORCED HORIZONTALLY WITH BOND BEAMS (2 - #5 BOTTOM) AT BOTTOM COURSE, TOP COURSE, JOIST BEARING ELEVATION AND AT 8'-0" MAXIMUM O.C. AND VERTICALLY AS INDICATED ON DRAWINGS. THESE WALLS ARE TO BE ANCHORED TOP AND BOTTOM TO THE FOUNDATION, FLOOR, OR ROOF PER TYPICAL DETAILS. THE VERTICAL REINFORCING IS CONTINUOUS (IN 6'-6" MAXIMUM LENGTHS, LAPPED 2'-6" MINIMUM). FILL BLOCK CELLS AND BOND BEAMS WITH 2,500psi GROUT.



TYPICAL MASONRY COLUMN

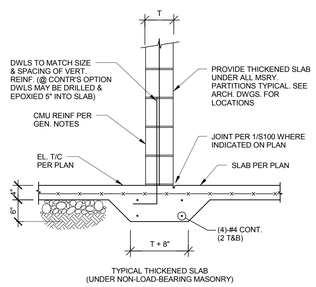
8 SECTION
3/4" = 1'-0"



NON-LOAD BRG WALLS | OPENINGS UP TO 6'-0" | OPENINGS GREATER THAN 6'-0" TO 8'-0"

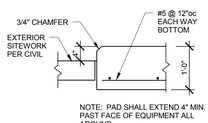
TYPICAL LINTELS AT ALL CMU WALLS

9 TYPICAL CMU LINTEL REINFORCING
1 1/2" = 1'-0"



TYPICAL THICKENED SLAB (UNDER NON-LOAD-BEARING MASONRY)

10 TYP. NON-LOAD BRG CMU WALL FOOTING
3/4" = 1'-0"



NOTE: PAD SHALL EXTEND 4" MIN. PAST FACE OF EQUIPMENT ALL AROUND

11 MECHANICAL EQUIPMENT PAD
3/4" = 1'-0"

LEGEND

...SPAN DIRECTION OF DECK
...FOOTING SIZE MARK
...COLUMN SIZE MARK
...DENOTES MOMENT CONNECTION

SOG-1 ...5" CONCRETE SLAB REINFORCED WITH 6x6-W2.9xW2.9 WWF ATOP VAPOR BARRIER PER GENERAL NOTES ATOP 4" COMPACTED GRANULAR MATERIAL ATOP 24" LOW VOLUME CHANGE MATERIAL

SOG-2 ...4" CONCRETE SLAB REINFORCED WITH 6x6-W2.9xW2.9 WWF ATOP VAPOR BARRIER PER GENERAL NOTES ATOP 4" COMPACTED GRANULAR MATERIAL ATOP 24" LOW VOLUME CHANGE MATERIAL

RD-1 ...DENOTES 1½"Dp x 22ga GALV. WIDE RIB ROOF DECK ATTACHED TO STRUCTURE TO ACHIEVE 300 PLF DIAPHRAGM SHEAT CAPACITY

RD-2 ...DENOTES 1½"Dp x 18ga GALV. WIDE RIB ROOF DECK ATTACHED TO STRUCTURE TO ACHIEVE 300 PLF DIAPHRAGM SHEAT CAPACITY

NCD-1 ...DENOTES 3" CONCRETE SLAB REINF. W/ 6x6-W2.9xW2.9 WWF ATOP 9/16" x 26ga GALV. FORM DECK

CD-1 ...DENOTES 5" CONCRETE SLAB REINF. W/ 6x6-W2.9xW2.9 WWF ATOP 2" x 18ga GALV. COMPOSITE DECK (5" TOTAL THICKNESS)

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GENERAL NOTES & SECTIONS

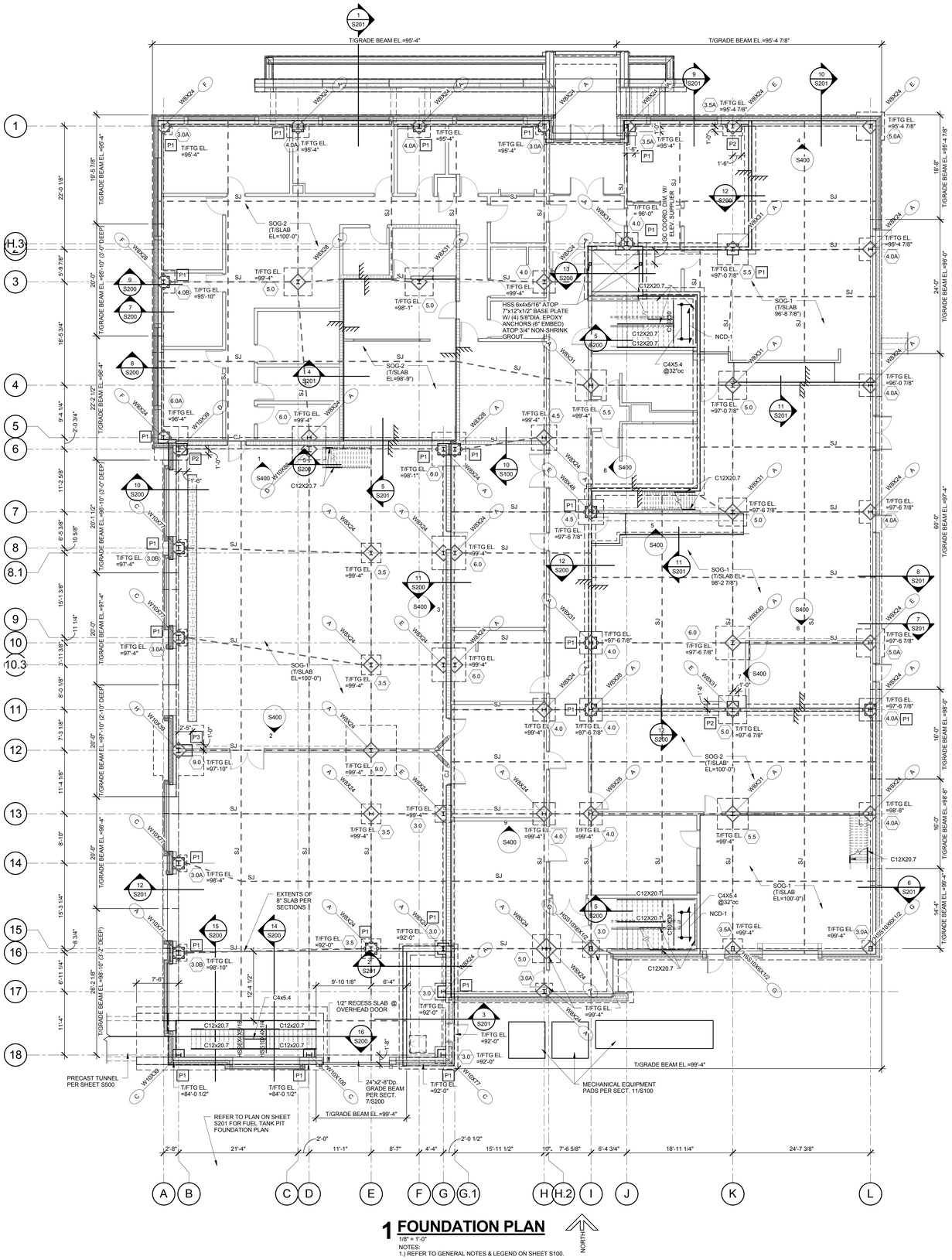
A-012651

S100

CONSTRUCTION DOCUMENTS

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2-2-2016
Att.9C.--0050



COLUMN PILASTER SCHEDULE

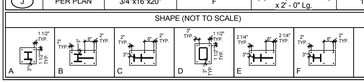
CONCRETE (PSI): 4000		REBAR (KSI): 60		
TYPE	PILASTER SIZE (DEPTHxWIDTH)	VERTICAL REINFORCING	TIES	SHAPE
P1	24"x24"	(8) #6	(2) #3 @12"oc	
P2	30"x24"	(10) #6	(4) #3 @12"oc	
P3	36"x24"	(12) #6	(5) #3 @12"oc	

1.) ALL PILASTER SHALL HAVE (3) ADDITIONAL SETS OF TIES AT TOP 5".
2.) ALL PILASTERS ARE CENTERED ON STEEL COLUMN UNLESS NOTED OTHERWISE PER PLAN.

COLUMN BASE PLATE SCHEDULE

TYPE	COLUMN	BASE PLATE	BASE PLATE TYPE	ANCHOR BOLTS	GROUT
A	PER PLAN	3/4"x14"x14"	A	(4) 3/4" Ø x 1' - 6" Lg.	1"
B	PER PLAN	1"x16"x16"	A	(4) 3/4" Ø x 1' - 6" Lg.	1"
C	PER PLAN	3/4"x16"x16"	A	(4) 3/4" Ø x 1' - 6" Lg.	1"
D	PER PLAN	3/4"x16"x20"	B	(6) 1" Ø (GRADE 105) x 2' - 0" Lg.	1"
E	PER PLAN	3/4"x16"x20"	C	(6) 1" Ø (GRADE 105) x 2' - 0" Lg.	1"
F	PER PLAN	1"x14"x14"	A	(4) 3/4" Ø x 1' - 6" Lg.	1"
G	PER PLAN	3/4"x12"x16"	D	(4) 3/4" Ø x 1' - 6" Lg.	1"
H	PER PLAN	3/4"x19"x24"	E	(6) 1 1/8" Ø (GRADE 105) x 2' - 0" Lg.	
J	PER PLAN	3/4"x16"x20"	F	(6) 1" Ø (GRADE 105) x 2' - 0" Lg.	1"

SHAPE (NOT TO SCALE)



NOTES:
1. COLUMNS SHALL BE CONTINUOUS WITH NO SPLICES UNLESS INDICATED OTHERWISE.
2. SEE PLAN FOR ORIENTATION OF COLUMNS.
3. ANCHOR BOLT LENGTH INCLUDES 4" OF PROJECTION AND 3" HOOK.

CONCRETE FOOTING SCHEDULE

SOIL PRESSURE (PSF): 5000	CONCRETE (PSI): 3500	REBAR (KSI): 60
TYPE	FOOTING SIZE (FT.) THICKNESS (IN.)	BAR SIZE/EA. WAY SPACING (IN.) BOTTOM
3.0	3'-0"x3'-0"x16"Dp	#4 @10"oc
3.0A	3'-0"x3'-0"x32"Dp	#4 @10"oc
3.5	3'-6"x3'-6"x16"Dp	#4 @10"oc
3.5A	3'-6"x3'-6"x32"Dp	#4 @10"oc
4.0	4'-0"x4'-0"x16"Dp	#4 @10"oc
4.0A	4'-0"x4'-0"x32"Dp	#4 @10"oc
4.5	4'-6"x4'-6"x18"Dp	#4 @10"oc
5.0	5'-0"x5'-0"x18"Dp	#5 @10"oc
5.5	5'-6"x5'-6"x18"Dp	#5 @10"oc
6.0	6'-0"x6'-0"x20"Dp	#5 @10"oc
6.0A	6'-0"x6'-0"x32"Dp	#5 @10"oc
9.0	9'-0"x9'-0"x36"Dp	#5 @10"oc T&B

NOTES:
1. EXTERIOR FOOTINGS OR FOOTING AT GRADE BEAM SHALL MATCH GRADE BEAM DEPTH AND BE PLACED WITH GRADE BEAM.
2. PROVIDE #4 @12"oc EACH WAY IN TOP OF FOOTING AT ALL BRACED BAY COLUMNS.
3. CENTER FOOTINGS ON COLUMNS AND/OR WALL CENTERLINES PER PLAN UNLESS NOTED OTHERWISE.

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FOUNDATION PLAN

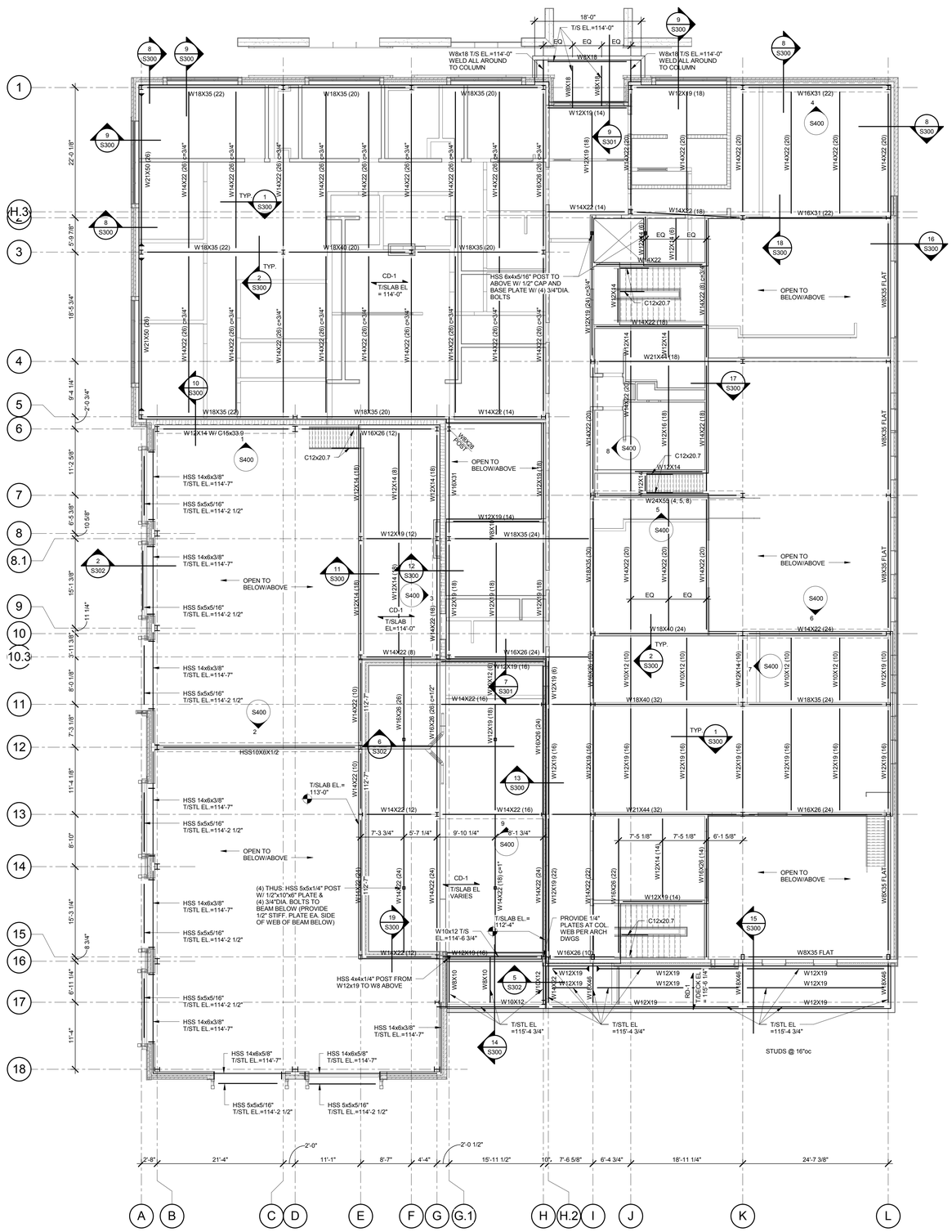
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S101

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2-2-2016
Att.9C—0051



1 SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

NOTES:
1.) REFER TO GENERAL NOTES & LEGEND ON SHEET S100.
2.) NUMBER IN PARENTHESIS REPRESENTS QUANTITY OF 3/4"DIAMETER x4"Lg. HEADED SHEAR CONNECTORS.
3.) C=X" DENOTES MAGNITUDE OF UPWARD CAMBER AT BEAM MIDSPAN.

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SECOND FLOOR FRAMING PLAN

A-012651

S102

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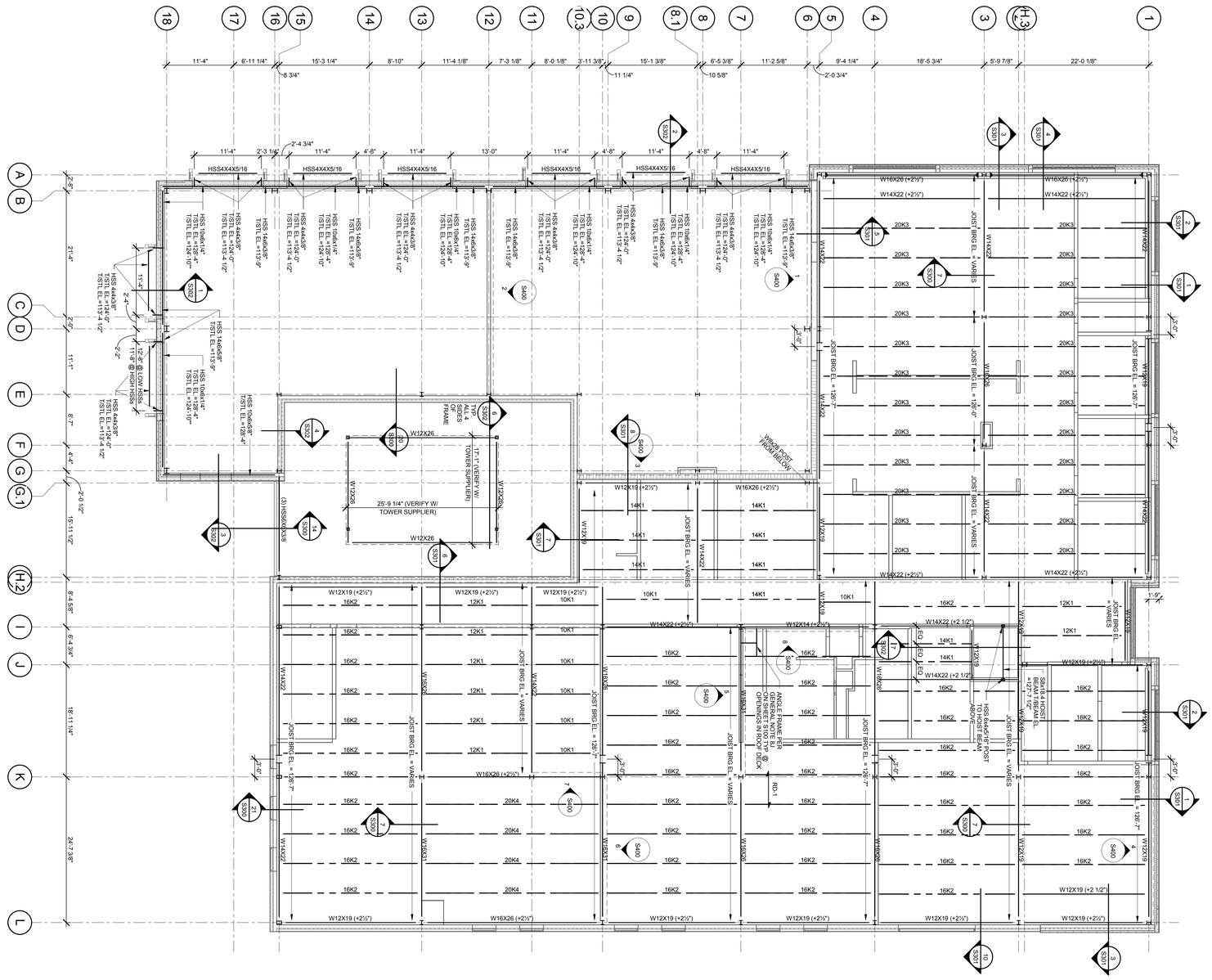
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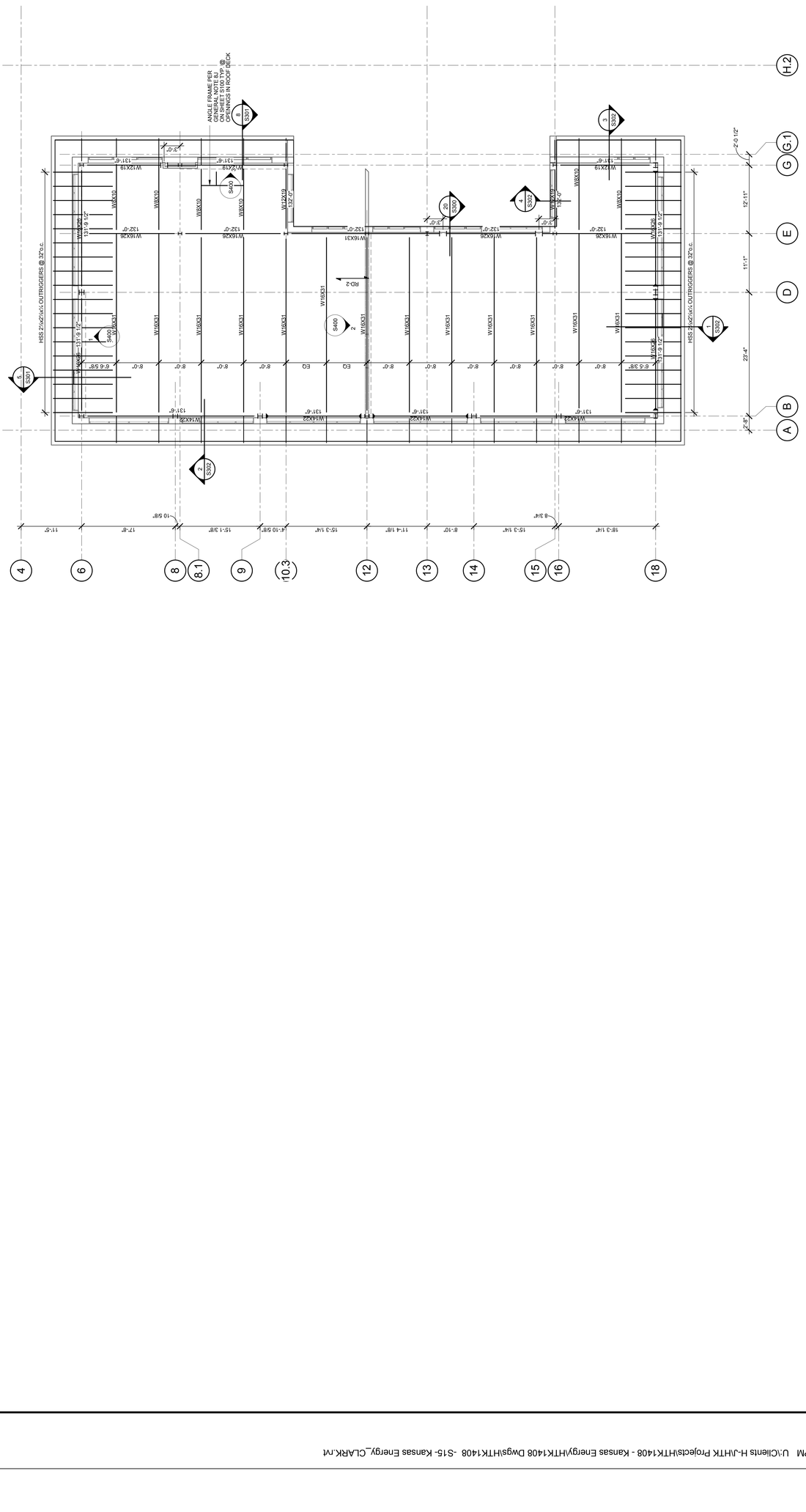
1 LOW ROOF FRAMING PLAN

1/8" = 1'-0"

1) REFER TO GENERAL NOTES & LEGEND ON SHEET S100.

NORTH


18 17 16 15 14 13 12 11 10.3 10 9 8.1 8 7 6 5 4 3 H.3 H.2 1
A B C D E F G G.1 H.2 I J K L
11'-4" 6'-11 1/4" 15'-3 1/4" 8'-10" 11'-4 1/8" 7'-3 1/8" 8'-0 1/8" 3'-11 3/8" 15'-1 3/8" 6'-5 3/8" 11'-2 5/8" 9'-4 1/4" 18'-5 3/4" 5'-9 7/8" 22'-0 1/8"
8 3/4" 11 1/4" 10 5/8" 2'-0 3/4"
HSS4X4X5/16
W16X26 (+2½") W14X22 (+2½")
W12X19 (+2½") W14X22 (+2½")
W14X22 (+2 1/2") W12X14 (+2½")
W12X19 (+2 1/2")
20K3 20K4 16K2 14K1 12K1 10K1
JOIST BRG EL = VARIES
JOIST BRG EL = 126'-7"
JOIST BRG EL = 126'-0"
HSS 10x6x1/4 TSTL EL =128'-4"
HSS 14x6x5/8 TSTL EL =124'-10"
HSS 14x6x5/8 TSTL EL =113'-9"
HSS 14x6x5/8 TSTL EL =113'-4 1/2"
HSS 4x4x3/8 TSTL EL =124'-0"
HSS 4x4x3/8 TSTL EL =113'-4 1/2"
12'-8" @ LOW HSS
11'-8" @ HIGH HSS
W12X26
25'-9 1/4" (VERIFY W/ TOWER SUPPLIER)
17'-11" (VERIFY W/ TOWER SUPPLIER)
(3) HSS5X5X3/8
W16X26 (+2½")
W12X19 (+2½")
W14X22 (+2½")
W12X19 (+2½") 16K2 12K1 10K1
W16X26 (+2½") 20K4
W12X19 (+2½") 16K2
W14X22 (+2½")
W12X19 (+2½") 16K2
W14X22 (+2½")
W12X19 (+2½") 16K2
W14X22 (+2½")



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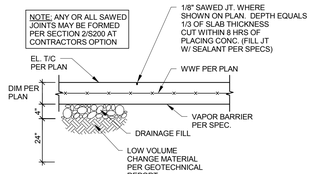
HIGH ROOF FRAMING PLAN

A-012651

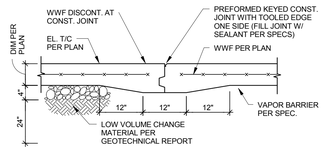
S104

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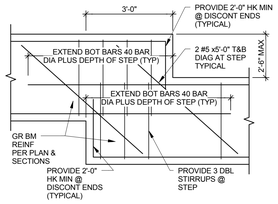
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2-2-2016
AE/JC-56004



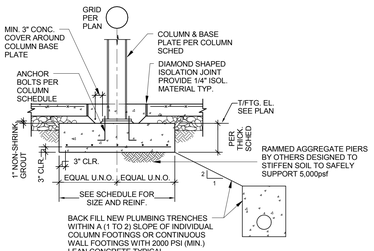
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3/4" = 1'-0"



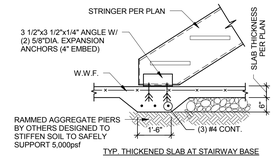
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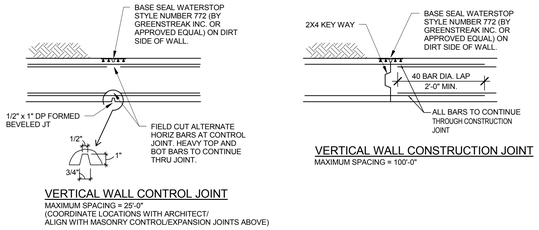
3 SECTION
1/2" = 1'-0"



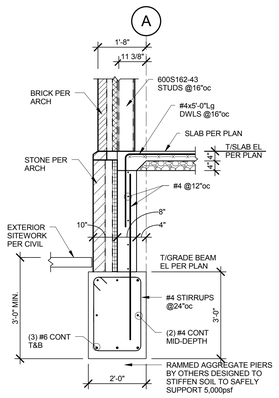
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1/2" = 1'-0"



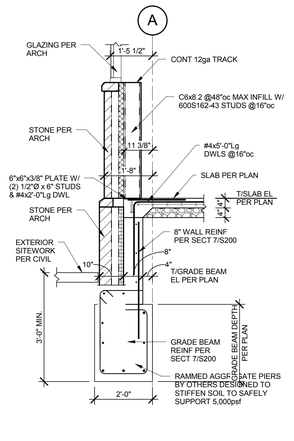
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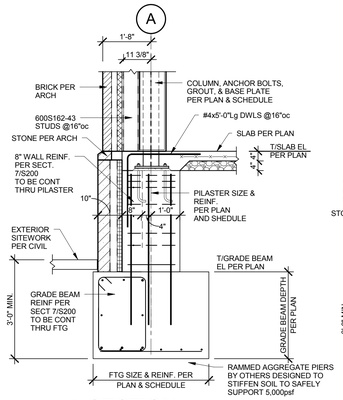
6 VERTICAL WALL CONTROL JOINT
3/4" = 1'-0"



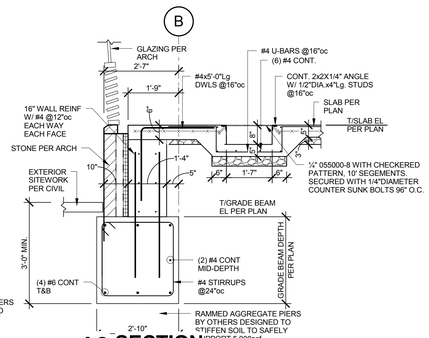
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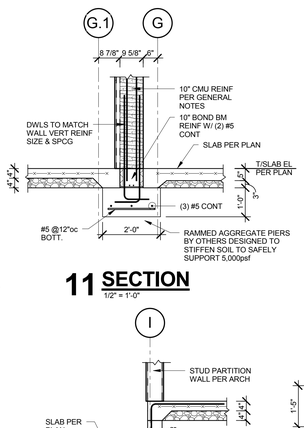
8 SECTION
1/2" = 1'-0"



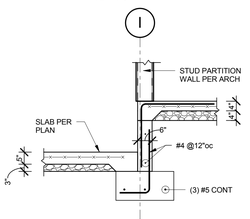
9 SECTION
1/2" = 1'-0"



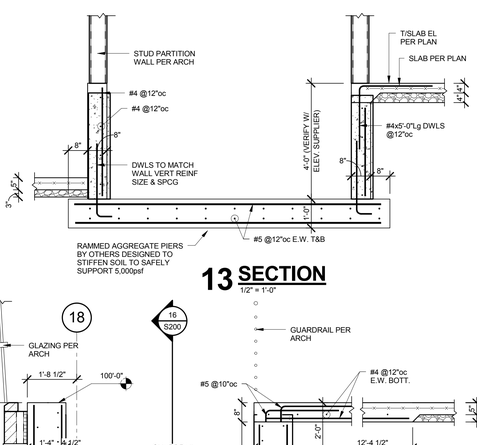
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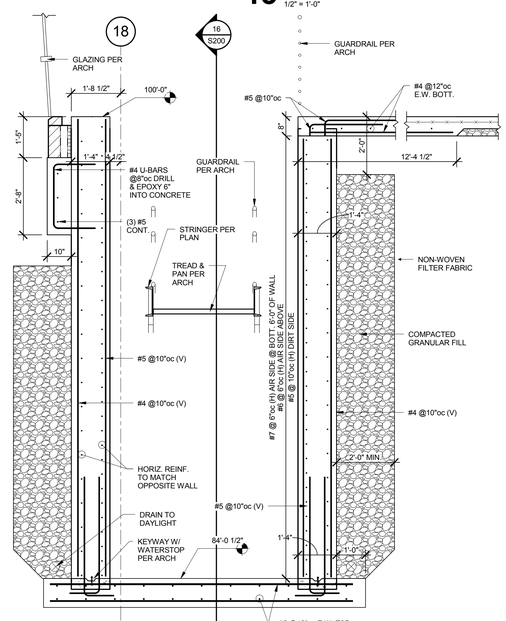
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1/2" = 1'-0"



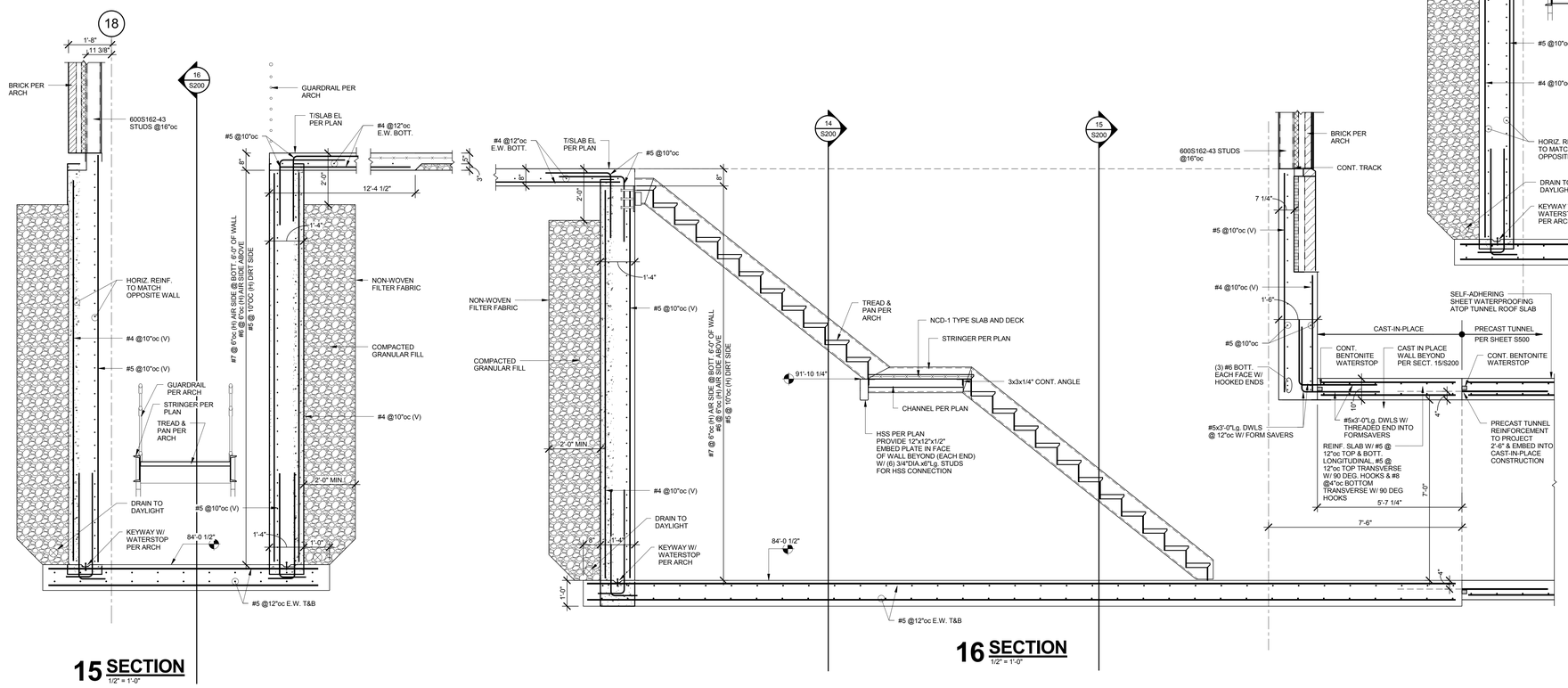
12 SECTION
1/2" = 1'-0"



13 SECTION
1/2" = 1'-0"



14 SECTION
1/2" = 1'-0"



15 SECTION
1/2" = 1'-0"

16 SECTION
1/2" = 1'-0"

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ANDREW BASHAM 2006 PROFESSIONAL ENGINEER

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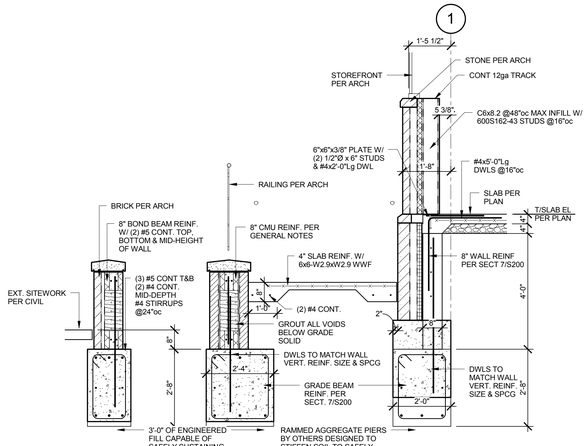
A-012651

S200

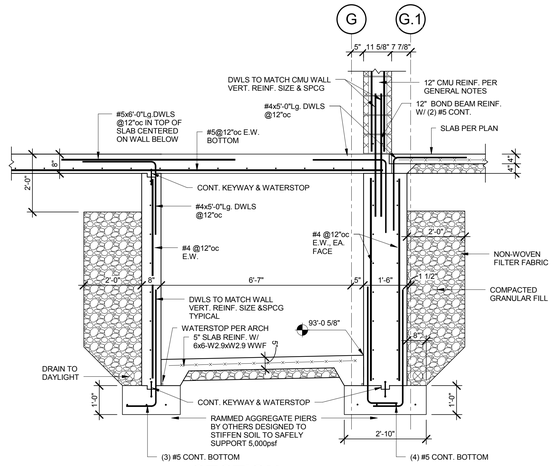
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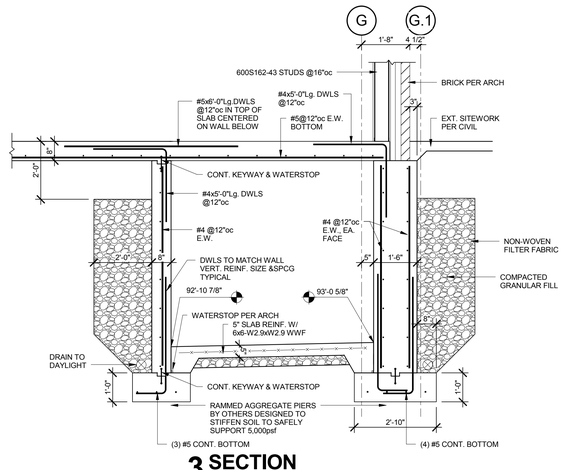
JCSBC
2-2-2016
Att.9C.--0055



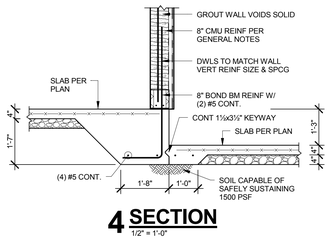
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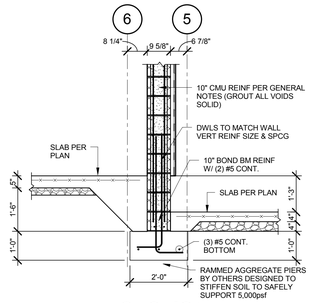
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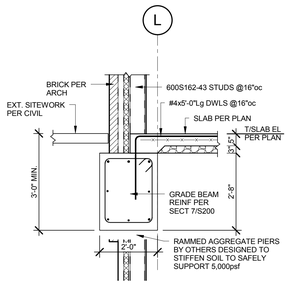
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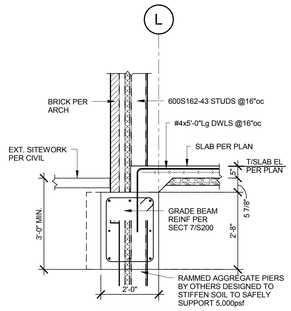
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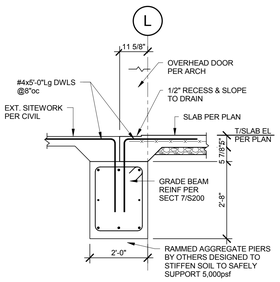
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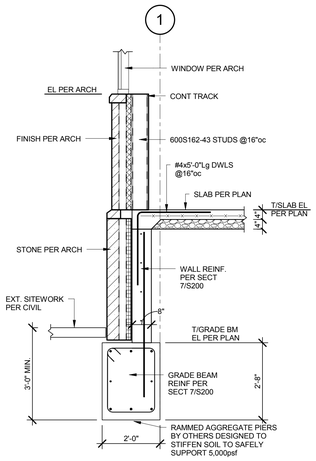
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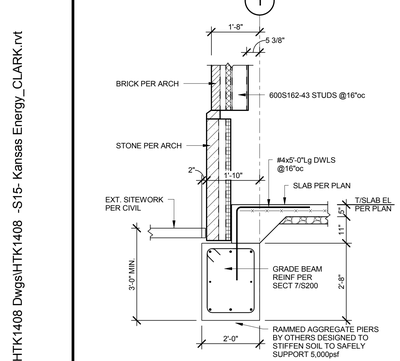
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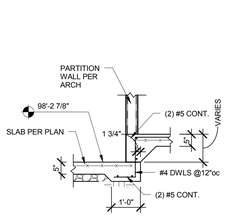
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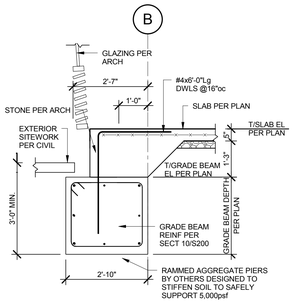
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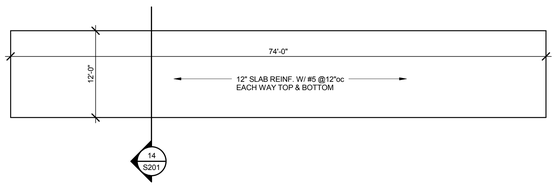
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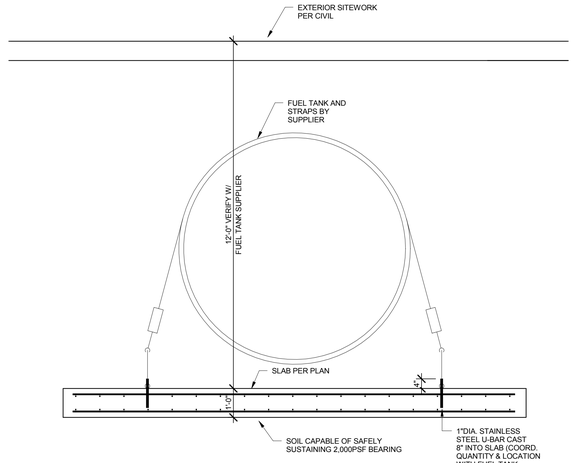
11 SECTION
1/2" = 1'-0"



12 SECTION
1/2" = 1'-0"



13 FUEL STORAGE TANK FOUNDATION PLAN
1/8" = 1'-0"



14 SECTION
1/2" = 1'-0"

HTK ARCHITECTS PA
900 S. KANSAS AVE., SUITE 200 TOPEKA, KANSAS 66612
9300 W 110TH ST. STE 150 OVERLAND PARK, KANSAS 66210
P 785.232.8227 F 785.232.8237
www.htkarchitects.com

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-3-15
- 3-10-15
-

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

FOUNDATION SECTIONS

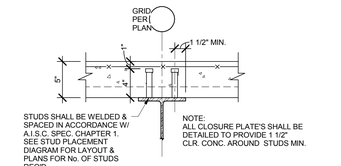
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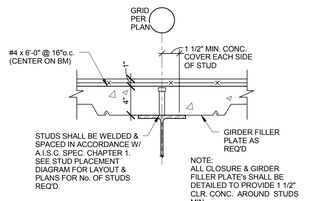
CONSTRUCTION DOCUMENTS

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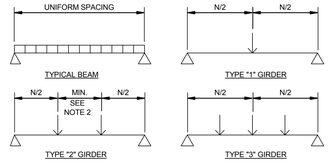
JCSBC
2-2-2016
Att.9C - -0056



1 TYPICAL COMPOSITE BEAM
1 1/2" = 1'-0"

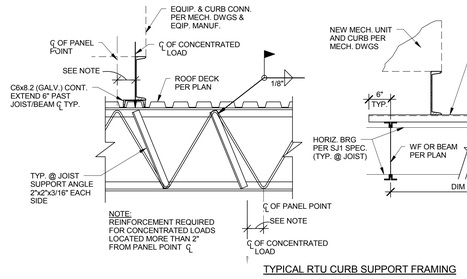


2 TYPICAL COMPOSITE GIRDER
1 1/2" = 1'-0"



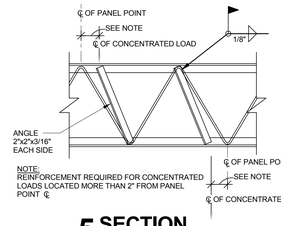
1. ALL DIAGRAMS REPRESENT IDEALIZED CONDITIONS. ACTUAL FRAMING CONFIGURATIONS MAY REQUIRE ADDITIONAL INTERPRETATION.
2. MAXIMUM SPACING OF STUDS SHALL BE 36"o.c. IF STUD SPACING EXCEEDS 12" O.C. PROVIDE 5/8" DIA. PUDDLE WELD ATTACHMENT SUCH THAT THE MAXIMUM AVERAGE SPACING OF STUD/WELD ATTACHMENTS IS 12"o.c., AND MAXIMUM SPACING BETWEEN ATTACHMENTS IS 18".
3. THE NUMBER OF STUDS PER BEAM SHOWN ON THE DRAWINGS IS BASED ON AN ASSUMED DESIGN VALUE OF 13.3 KIPS/STUD. THE ACTUAL NUMBER OF STUDS PER BEAM [N] MAY VARY BASED ON RIB WIDTH, DECK DEPTH, NUMBER OF STUDS PER CELL, DECK RIB ORIENTATION, ETC. AS PER AISC SPECIFICATIONS FOR COMPOSITE CONSTRUCTION. METAL DECK CONTRACTOR SHALL SUBMIT ALL CALCULATIONS VERIFYING THE HORIZONTAL SHEAR CAPACITY OF SHEAR STUDS DETAILED ON SHOP DRAWINGS AND PROVIDE THE STUDS REQUIRED.
4. SHEAR CONNECTOR PLACEMENT SHALL BE FULLY DETAILED ON THE METAL DECK SHOP DRAWINGS.

3 TYPICAL SHEAR STUD PLACEMENT DETAIL
3/4" = 1'-0"

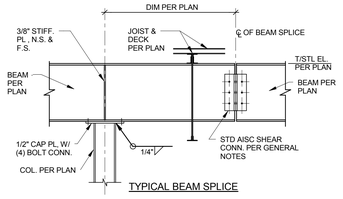


TYPICAL RTU CURB SUPPORT FRAMING

4 SECTION
3/4" = 1'-0"

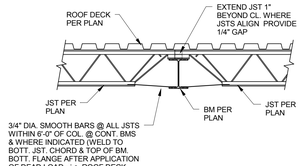


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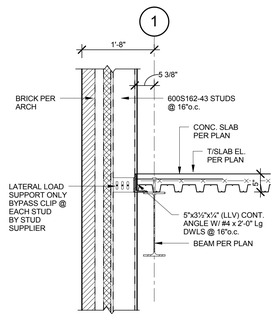


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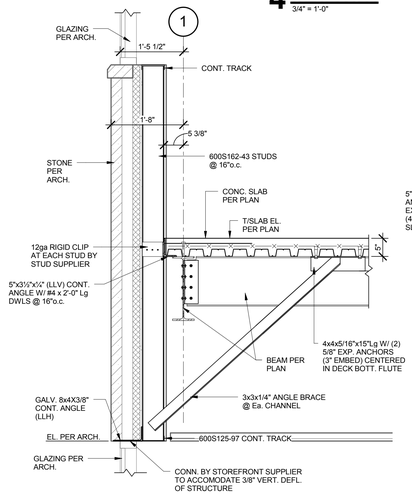
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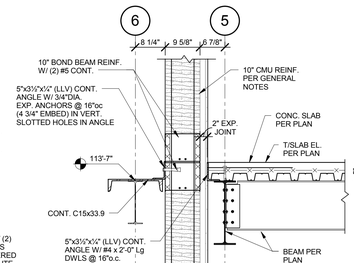
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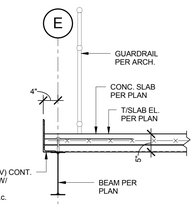
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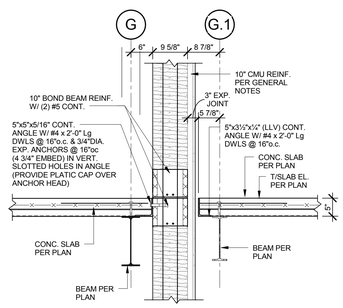
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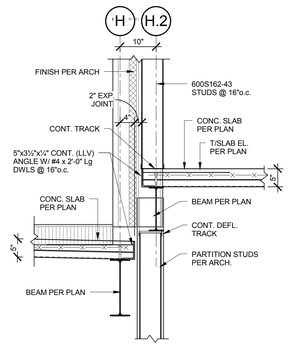
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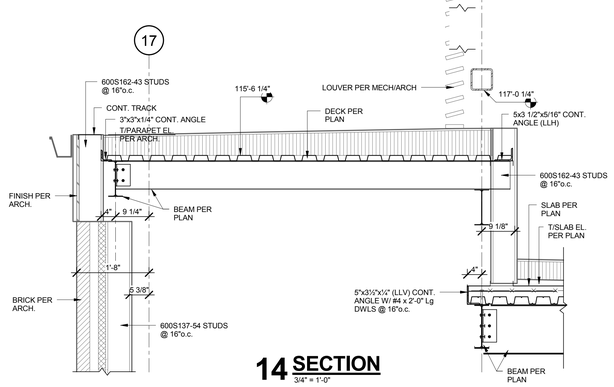
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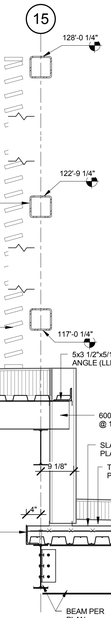
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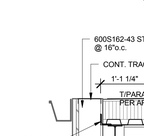
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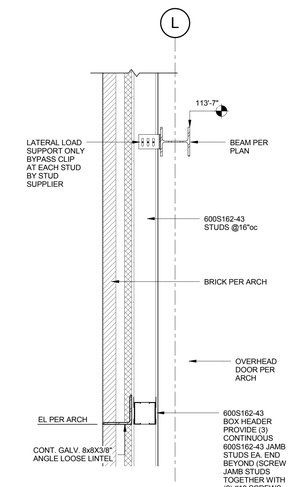
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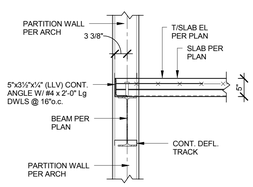




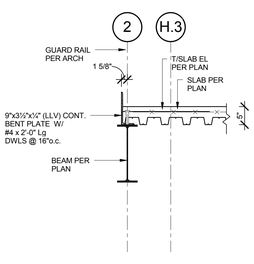
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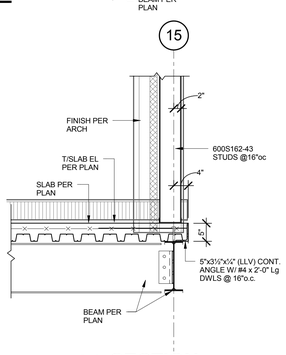
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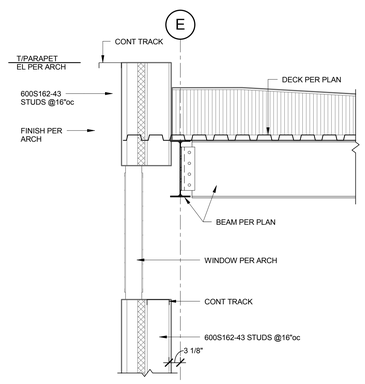
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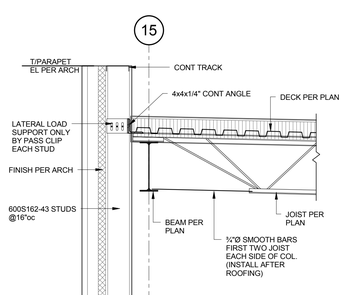
18 SECTION
3/4" = 1'-0"



19 SECTION
3/4" = 1'-0"



20 SECTION
3/4" = 1'-0"



21 SECTION
3/4" = 1'-0"

HTK ARCHITECTS PA
900 S. KANSAS AVE., SUITE 200 TOPEKA, KANSAS 66612 P (785)233-0036
9300 W 110TH ST. STE 150 OVERLAND PARK, KANSAS 66210 P (913)663-3223
www.htkarchitects.com

JEFFREY ANDREW SKINNER — LICENSED PROFESSIONAL ENGINEER — 2006 — KANSAS — 4-15-15 — EXPIRATION DATE

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038

DRAWN BY: Author CHECKED BY: Checker REV:
DATE: 4-15-15

FRAMING SECTIONS

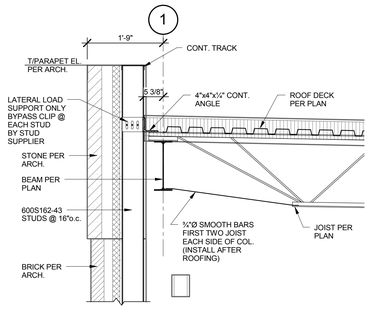
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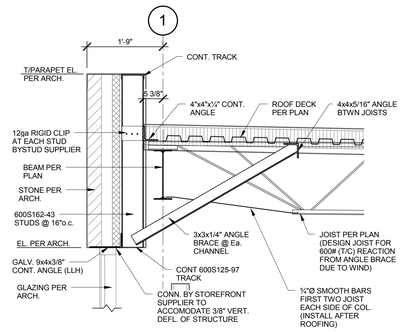
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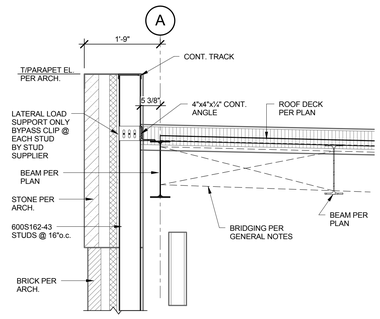
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2-2-2016
Att.9C.--0057



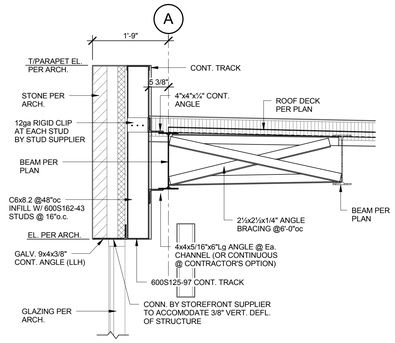
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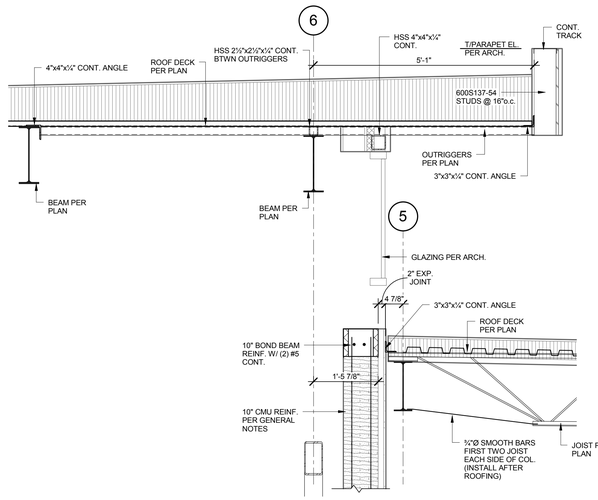
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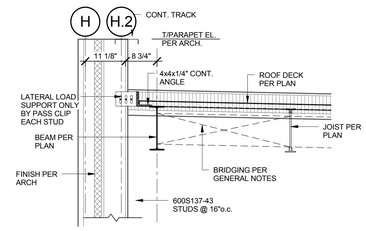
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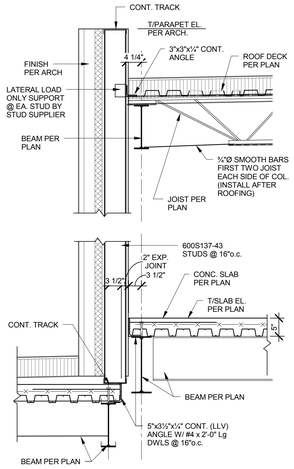
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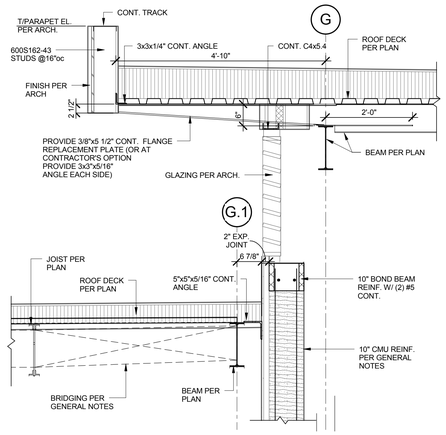
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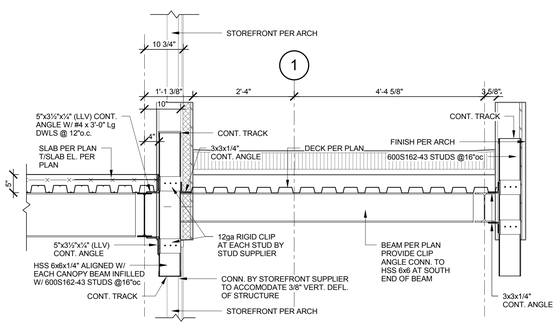
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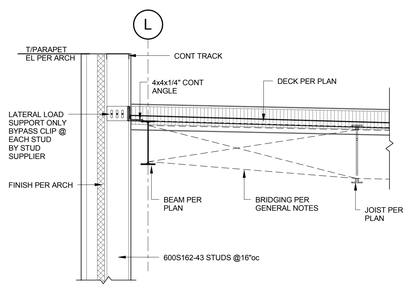
7 SECTION
3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"

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900 S. KANSAS AVE., SUITE 200 TOPEKA, KANSAS 66612 P 785.233.0333
9300 W 110TH ST. STE 150 OVERLAND PARK, KANSAS 66210 F 913.663.0333
www.htkarchitects.com

ANDREW BASHAW 2008 REGISTERED PROFESSIONAL ENGINEER

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15
-

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Procurement Management
800 SW Jackson, Suite 706
Topeka, Kansas 66612-2216
Phone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
BUILDING NUMBER 17300-0038
DATE: 4-15-15 DRAWN BY: Author CHECKED BY: CheckerREV:

FRAMING SECTIONS

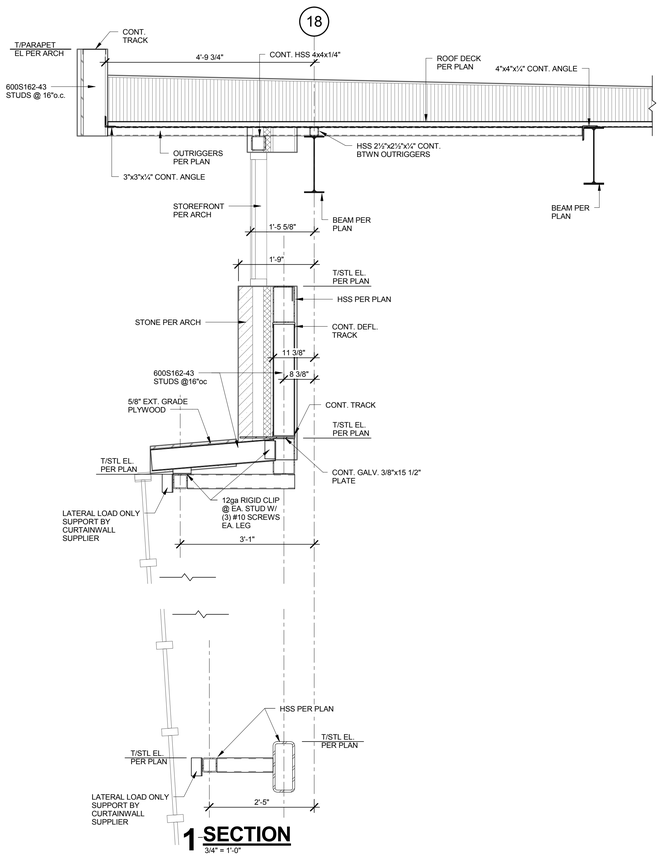
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S301

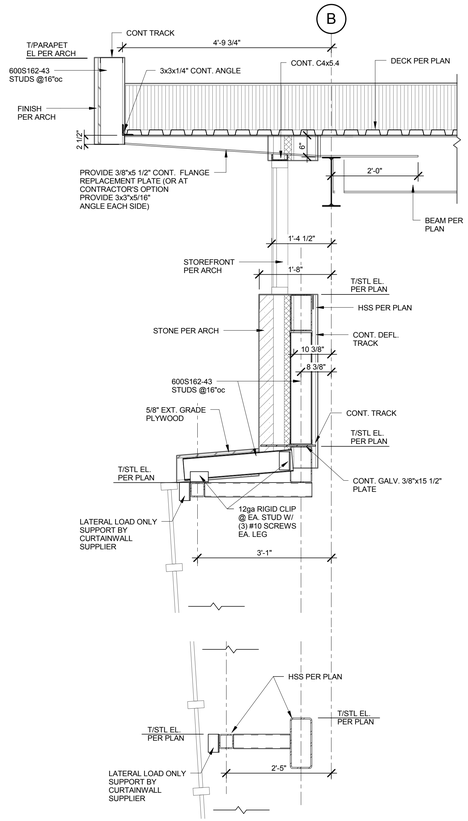
CONSTRUCTION DOCUMENTS

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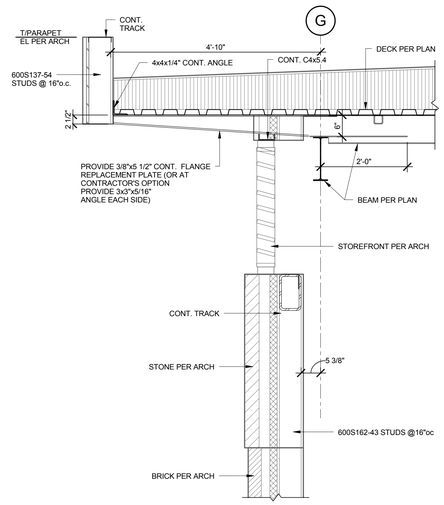
JCSBC
2-2-2016
Att.9C.--0058



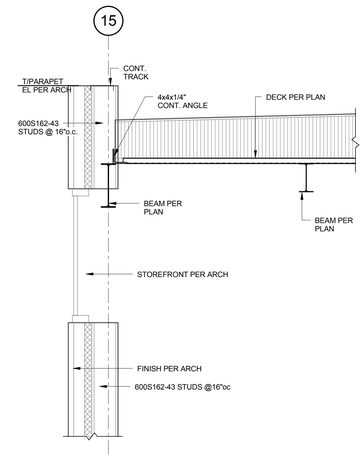
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3/4" = 1'-0"



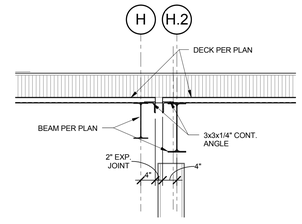
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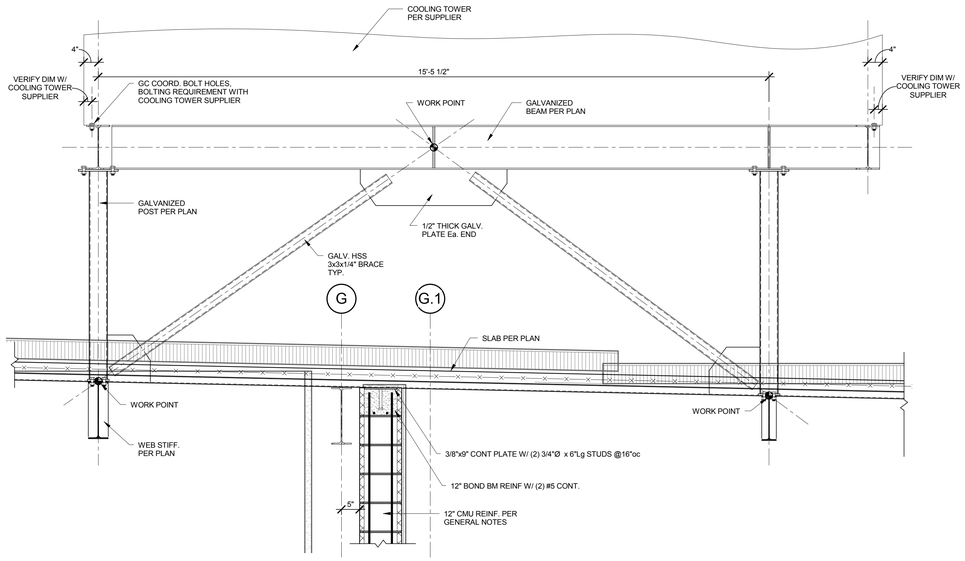
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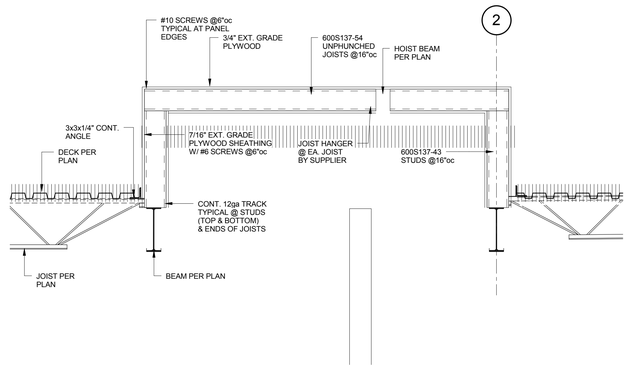
4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"

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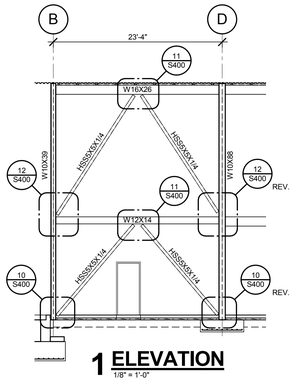
A-012651

S302

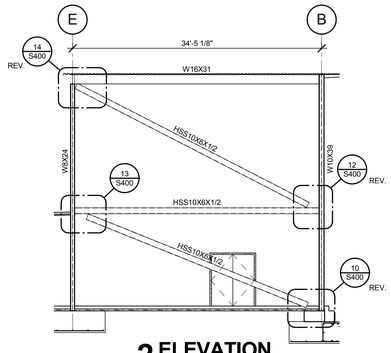
CONSTRUCTION DOCUMENTS

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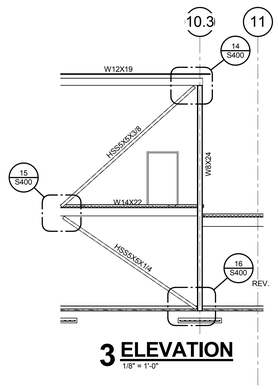
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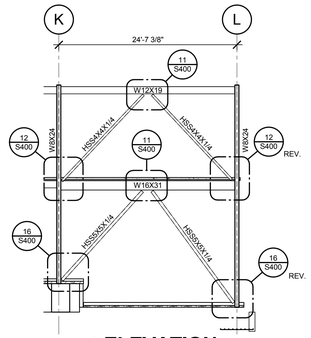
1 ELEVATION
1/8" = 1'-0"



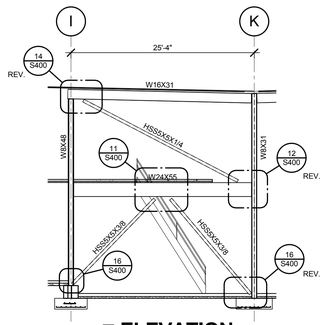
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1/8" = 1'-0"



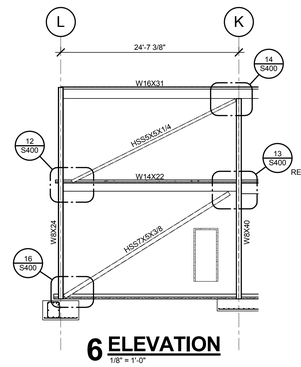
3 ELEVATION
1/8" = 1'-0"



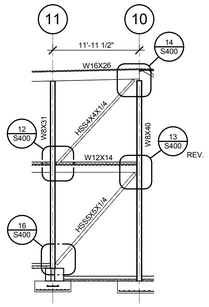
4 ELEVATION
1/8" = 1'-0"



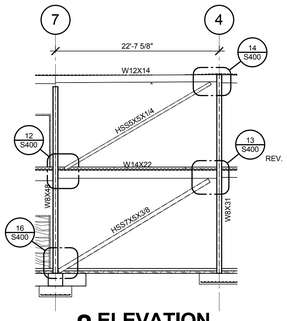
5 ELEVATION
1/8" = 1'-0"



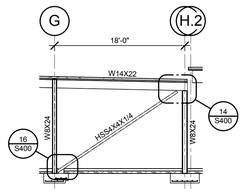
6 ELEVATION
1/8" = 1'-0"



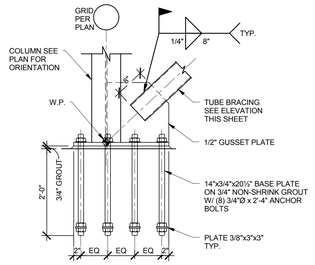
7 ELEVATION
1/8" = 1'-0"



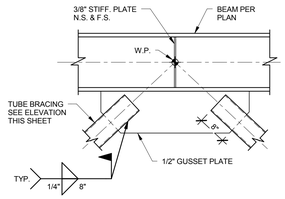
8 ELEVATION
1/8" = 1'-0"



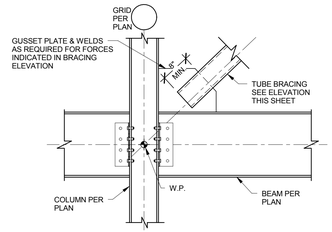
9 ELEVATION
1/8" = 1'-0"



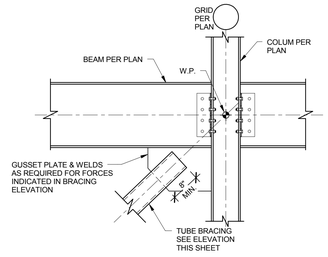
10 SECTION
3/4" = 1'-0"



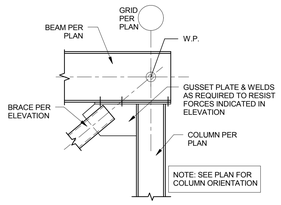
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3/4" = 1'-0"



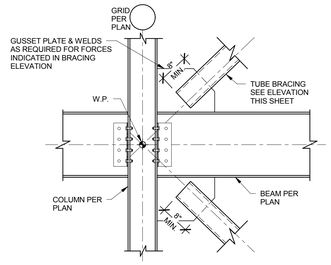
12 SECTION
3/4" = 1'-0"



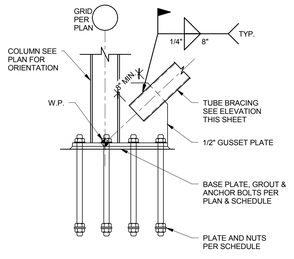
13 SECTION
3/4" = 1'-0"



14 SECTION
3/4" = 1'-0"



15 SECTION
3/4" = 1'-0"



16 SECTION
3/4" = 1'-0"

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STATE OF KANSAS ENERGY & SERVICE CENTER
221 SW 7th Street
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DATE: 4-15-15 DRAWN BY: Author CHECKED BY: Checker REV:

FRAMING ELEVATIONS

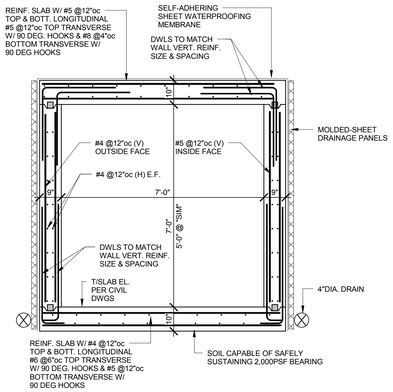
A-012651

S400

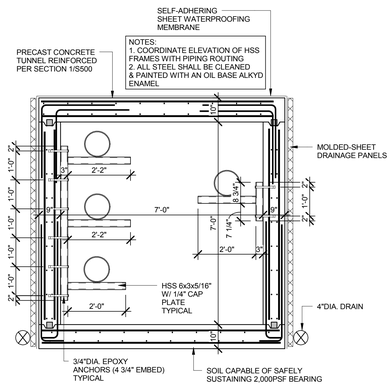
CONSTRUCTION DOCUMENTS

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2-2-2016
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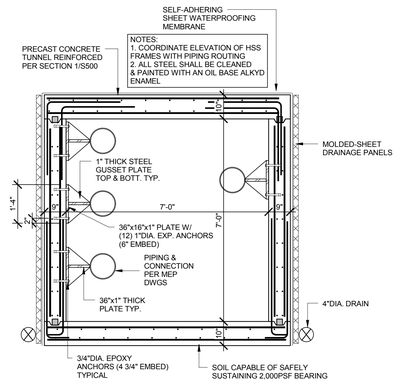


1 TYPICAL PRECAST TUNNEL SECTION
1/2" = 1'-0"



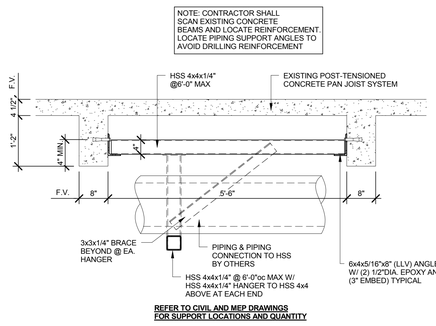
REFER TO CIVIL AND MEP DRAWINGS FOR SUPPORT LOCATIONS AND QUANTITY

2 TYPICAL PIPING SUPPORT FRAMING @ TUNNEL
1/2" = 1'-0"



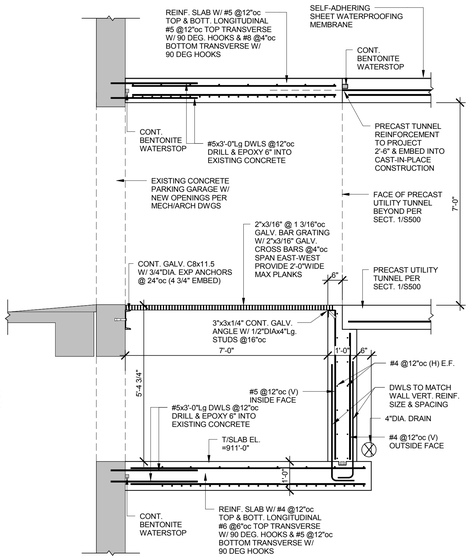
REFER TO CIVIL AND MEP DRAWINGS FOR SUPPORT LOCATIONS AND QUANTITY

3 TYPICAL PIPING EXPANSION COMPENSATING SUPPORT FRAMING
1/2" = 1'-0"

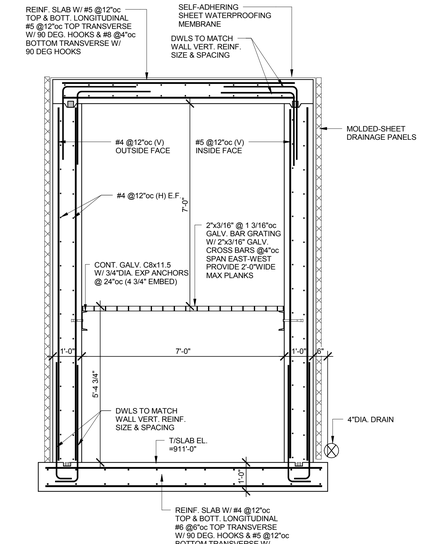


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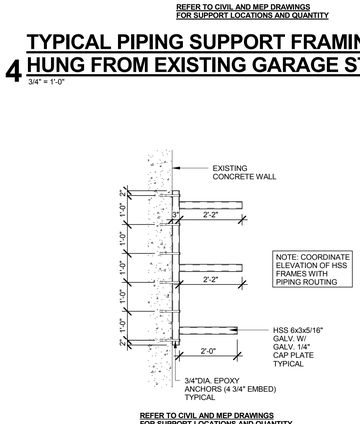
TYPICAL PIPING SUPPORT FRAMING 4 HUNG FROM EXISTING GARAGE STRUCTURE ABOVE
3/4" = 1'-0"



6 UTILITY TUNNEL SECTION
1/2" = 1'-0"

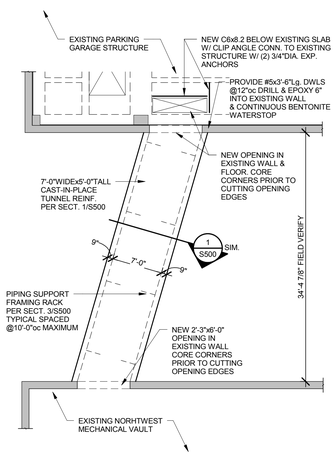


7 UTILITY TUNNEL SECTION
1/2" = 1'-0"

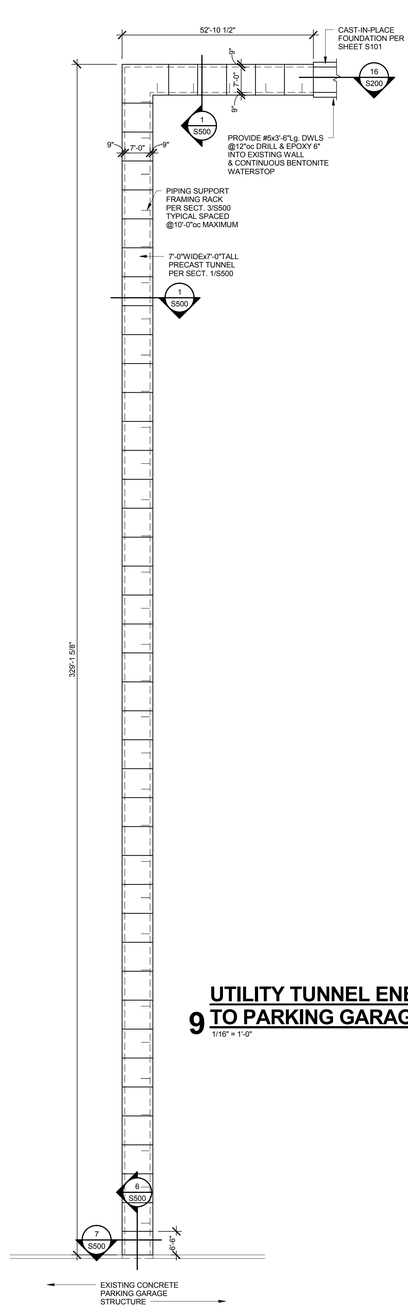


REFER TO CIVIL AND MEP DRAWINGS FOR SUPPORT LOCATIONS AND QUANTITY

TYPICAL PIPING SUPPORT FRAMING 5 @ EXISTING CONCRETE WALL
1/2" = 1'-0"



UTILITY TUNNEL PARAKING GARAGE 8 TO STATEHOUSE FRAMING PLAN
1/8" = 1'-0"



UTILITY TUNNEL ENERGY BUILDING 9 TO PARKING GARAGE FRAMING PLAN
1/16" = 1'-0"

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TUNNEL AND PIPING SUPPORT PLAN

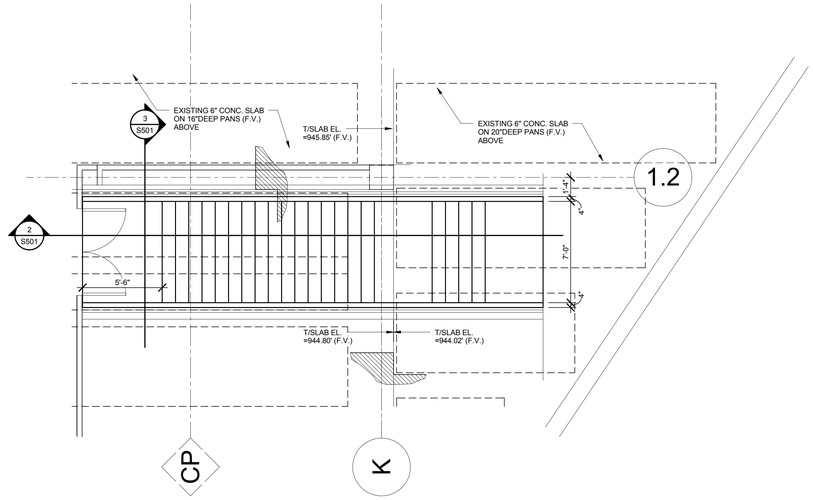
A-012651

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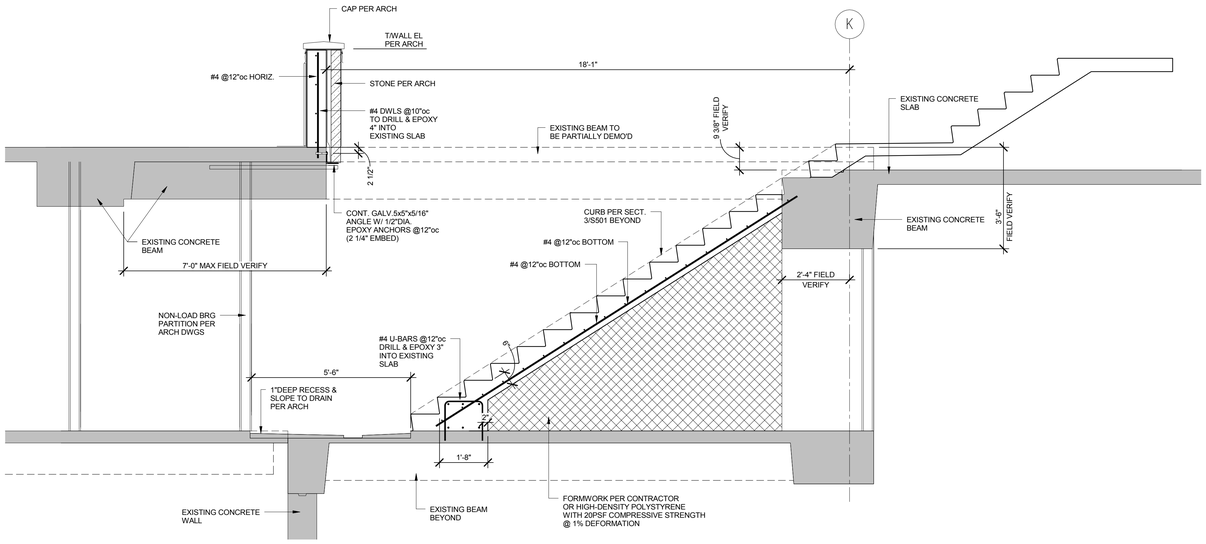
CONSTRUCTION DOCUMENTS

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2-2-2016
Att.9C.--0061



1 STAIR FRAMING PLAN
1/4" = 1'-0"



2 SECTION
1/2" = 1'-0"

3 SECTION
1/2" = 1'-0"

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STAIR FRAMING AND SECTIONS

A-012651

S501

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2-2-2016
Att.9C.--0062

MECHANICAL LEGEND

HVAC

	DIRECTION OF FLOW
	ELBOW DOWN
	ELBOW UP
	TEE UP
	TEE DOWN
	CAP
	UNION
	FLANGE
	REDUCER (OR INCREASER)
	PIPE FLEXIBLE CONNECTION
	"Y" TYPE STRAINER
R	RISE IN PIPING
D	DROP IN PIPING
	GUIDE
	ANCHOR
	PRESSURE GAUGE WITH GAUGE COCK
	TEMPERATURE GAUGE
	FLOW INDICATOR
	THERMOMETER
	SITE GLASS
	EXPANSION JOINT
FD	FILTER-DRIER
	DRIP ASSEMBLY
	BASKET TYPE STRAINER
	GATE TYPE VALVE
	BALL TYPE VALVE
	PLUG TYPE VALVE
	GLOBE TYPE VALVE
	BUTTERFLY TYPE VALVE
	BALANCING TYPE VALVE
	GAS (LUBRICATED) TYPE PLUG VALVE
	NEEDLE TYPE VALVE
	PRESSURE REDUCING TYPE VALVE
	QUICK (TYPE) OPENING VALVE
	QUICK (TYPE) CLOSING VALVE
	CHECK TYPE VALVE
	TRIPLE DUTY TYPE VALVE
S	SOLENOID TYPE VALVE
	CONTROL TYPE VALVE (2-WAY)
	CONTROL TYPE VALVE (3-WAY)
	SELF CONTAINED TYPE VALVE
	RELIEF/SAFETY TYPE VALVE
	CIRCUIT SETTER
	MOTOR OPERATED TYPE VALVE
PS	PRESSURE SWITCH
FS	FLOW SWITCH
EP	ELECTRIC PNEUMATIC CONTROL SWITCH
PE	PNEUMATIC ELECTRIC CONTROL SWITCH
	FLOW CONTROL
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
HWS	HOT WATER HEATING SUPPLY
HWR	HOT WATER HEATING RETURN
CTS	COOLING TOWER SUPPLY
CTR	COOLING TOWER RETURN
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM - NO'S GIVE GAUGE PRESSURE IN P.S.I.
PR	PUMPED CONDENSATE RETURN
SPD	SUMP PUMP DISCHARGE

PLUMBING

CW	DOMESTIC COLD WATER
HCW	NON-POTABLE COLD WATER
HW	DOMESTIC HOT WATER
HWR	RECIRCULATING DOMESTIC HOT WATER
SW	SOFT DOMESTIC COLD WATER
SW-HW	SOFT DOMESTIC HOT WATER
SW-HWR	SOFT RECIRCULATING HOT WATER
LI	LAWN IRRIGATION
SAN	SOIL OR WASTE ABOVE GRADE OR FLOOR
SAN	SOIL OR WASTE BELOW GRADE OR FLOOR
ST	STORM ABOVE GRADE OR FLOOR
ST	STORM BELOW GRADE OR FLOOR
ST/O	STORM OVERFLOW ABOVE GRADE OR FLOOR
ST/O	STORM OVERFLOW BELOW GRADE OR FLOOR
V	PLUMBING VENT
W	WATER SERVICE
G	GAS (NATURAL)
PG	PROPANE (LIQUEFIED PETROLEUM)
F	FIRE SPRINKLER PIPING
HB	HOSE BIBB
WH	WALL HYDRANT
WCO	FLUSH WALL CLEAN OUT
CO	CLEAN OUT
GCO	YARD CLEANOUT OR GRADE CLEANOUT
FCO	FLUSH FLOOR CLEAN OUT
	FLOOR DRAIN, AREA DRAIN, FLOOR SINK
RD / ORD	ROOF DRAIN, OVERFLOW ROOF DRAIN
	SHOWER HEAD.
	DOUBLE CHECK BACKFLOW PREVENTER
P / #	PLUMBING VENT RISER CALL-OUT NUMBER
W or HW / 300	VALVE SYSTEM AND NUMBER
SK	UP TO PLUMBING FIXTURE

ELECTRICAL LEGEND

CONDUIT AND WIRE

	ARROWS INDICATE CONDUIT & WIRE HOME RUN(S) TO PANEL WITH 2-#12 AWG CONDUCTORS UNLESS NOTED OR OTHERWISE REQUIRED.
	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
	CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB.
T	TELEPHONE CONDUIT
LV	LOW VOLTAGE CONDUIT AND WIRING
	CONDUIT DROP, CONDUIT RISE (ALL TYPES)

LIGHTING

	BATTERY OPERATED EMERGENCY LIGHT (WALL MOUNTED)
	BATTERY OPERATED EMERGENCY LIGHT (CEILING MOUNTED)
	SURFACE/RECESSED LIGHT FIXTURE
	FLUORESCENT LIGHT FIXTURE
	FLUORESCENT STRIP FIXTURE
	POLE MOUNTED LIGHT FIXTURE
	EXIT LIGHT - DOUBLE FACE - ARROWS AS SHOWN
	EXIT LIGHT - SINGLE FACE - ARROWS AS SHOWN
	LIGHTING SWITCHES-SINGLE POLE, 3-WAY, 4-WAY, KEY, LOW VOLTAGE, PILOT LIGHT
$D	DIMMER WITH SINGLE POLE SWITCH
$D3	DIMMER WITH THREE WAY SWITCH (WATTAGE NOTED)
$M	WALL MOUNTED MOTION SENSOR
(A)	CEILING MOUNTED MOTION SENSOR (LETTER DENOTES TYPE)
	DENOTES A WALL MOUNTED FIXTURE
$b	SINGLE POLE SWITCH, "b" = SWITCHLEG

COMMUNICATIONS

	TELEPHONE OUTLET
	LINE THRU DEVICE INDICATES ABOVE COUNTER
	DATA OUTLET
	1 TELEPHONE AND 1 DATA OUTLET
2-2	1ST # INDICATES # OF TELEPHONE OUTLETS; 2ND # INDICATES # OF DATA OUTLETS IN SAME BOX. (SINGLE GANG OUTLET BOX WITH 4" X 4" BACK BOX.)
	FLOOR BOX WITH COMMUNICATIONS OUTLET
	TELEVISION ANTENNA OUTLET
	TELEPHONE CABINET OR PLYWOOD BOARD

PROVIDE 4" SQ. BACKBOX WITH A SINGLE GANG RING AND 1" TO WIRE BASKET

WIRING DEVICES

	DUPLEX RECEPTACLE.
	LINE THRU DEVICE INDICATES ABOVE COUNTER
IG	DUPLEX RECEPTACLE WITH ISOLATED GROUND (SINGLE AND FOURPLEX SIMILAR)
S	DUPLEX RECEPTACLE - TOP HALF SWITCHED - BOTTOM HALF TO HAVE POWER AT ALL TIMES
EM	DUPLEX RECEPTACLE ON EMERGENCY POWER (SINGLE AND FOURPLEX SIMILAR)
	FOURPLEX RECEPTACLE
CR	FOURPLEX RECEPTACLE - 1/2 NORMAL POWER, 1/2 ISOLATED GROUND COMPUTER POWER
	SINGLE RECEPTACLE
	CEILING MOUNTED RECEPTACLE
	MULTI-SERVICE FLOOR BOX
	DIVIDED POWER POLE
	FLOOR BOX W/DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE W/NEMA CONFIGURATION AS NOTED
	CLOCK RECEPTACLE
	MULTI-OUTLET ASSEMBLY

POWER DEVICES AND CONTROLS

	THERMOSTAT
	DISCONNECT SWITCH. 30A-3P, NON-FUSED EXCEPT AS NOTED
	MANUAL MOTOR STARTER
	MAGNETIC MOTOR STARTER
	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH
	SINGLE-PHASE MOTOR
	THREE-PHASE MOTOR
	PANELBOARD (SEE ONE-LINE)
	DISTRIBUTION PANELBOARD
	CONTACTOR
	AUTOMATIC TRANSFER SWITCH
	PHOTOCELL
J	JUNCTION BOX
	PUSHBUTTON
T	TRANSFORMER
VAV	JUNCTION BOX FOR 120 VOLT VAV BOX (VARIABLE AIR VOLUME CONTROL BOX)

ONE-LINE DIAGRAM/RISER DIAGRAM

30/3 25	FUSE (30 AMPERE, 3 POLE CLIPS, 25 AMPERE FUSES)
30/3 25	FUSIBLE DISCONNECT (30 AMPERE, 3 POLE CLIPS, 25 AMPERE FUSES)
M	METER
	TRANSFORMER
60A/3P	CIRCUIT BREAKER (60 AMPERE TRIP, 3 POLE)
2000 AF 1600 AT, LSIG	DRAW-OUT CIRCUIT BREAKER (2000 AMPERE FRAME, 1600 AMPERE TRIP SETTING) (LSIG = LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT SETTINGS AVAILABLE)
	EQUIPMENT GROUND
#/#	CONDUCTOR AND CONDUIT SIZE DESIGNATOR
	BUS DUCT TO WIRE TRANSITION BOX
	MOTOR STARTER OVERLOAD
NEMA X	MOTOR STARTER (NEMA X = STARTER SIZE)
VFD	VARIABLE FREQUENCY DRIVE

UNLESS OTHERWISE NOTED, MOLDED CASE CIRCUIT BREAKERS SHALL HAVE THE FOLLOWING MINIMUM FRAME SIZES:
15A TO 100A - 100AF
110A TO 250A - 250AF
300A TO 400A - 400AF
450A TO 600A - 600AF
700A TO 800A - 800AF
900A TO 1200A - 1200AF

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REGISTERED PROFESSIONAL ENGINEER 10530 STATE OF KANSAS
4.15.15

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15
-

HTK PROJECT NUMBER:
- 1410.03

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STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 1730000038

DATE: 4-15-15 DRAWN BY: CAD CHECKED BY: WRB REV: WRB

MECHANICAL AND ELECTRICAL SYMBOLS LIST

A-012651

ME001

CONSTRUCTION DOCUMENTS

... ME001_Mechanical and Electrical Symbols List.dwg 96 04/14/15 GTC List.dwg 96 04/14/15 GTC List.dwg 96 02/24/15 GTC List.dwg 96 02/24/15 GTC GTC GTC

JCSBC
2-2-2016
Att.9C.--0063

ELECTRICAL ABBREVIATIONS

(SOME ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED. REFER TO FLOOR PLANS FOR ALL ABBREVIATIONS.)

A	
A	AMPERE/AMBER
AC	ALTERNATING CURRENT
A/C	AIR CONDITIONING
ACT	ABOVE COUNTER TOP
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
A-HR	AMPERE HOUR
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
ANSI	AMERICAL NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT/ARCHITECTURAL
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
B	
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BM	BENCH MARK
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTU/HR	BTU PER HOUR
C	
C	CONDUIT
°C	DEGREE CENTIGRADE
CAB	CABINET
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
CLG	CEILING
CO	CONVENIENCE OUTLET
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONST	CONSTRUCTION
CONTR	CONTRACT/CONTRACTOR
CP	CONTROL PANEL
CR	CONTROL RELAY
CRT	CATHODE-RAY TUBE
CS	CONTROL STATION
CSA	CANADIAN STANDARDS ASSOCIATION
CSW	CONTROL SWITCH
CT	CURRENT TRANSFORMER
CTR	CENTER
CTRL	CONTROL
CU	COPPER/CONDENSER UNIT
CW	COOL WHITE
CWP	CHILLED WATER PUMP
D	
DB	DECIBEL
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DF	DRINKING FOUNTAIN
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DPDT	DOUBLE-POLE DOUBLE-THROW
DPR	DAMPER
DPST	DOUBLE-POLE SINGLE-THROW
DTL	DETAIL
DWG	DRAWING
E	
E	EAST
EA	EACH
EC	EMPTY CONDUIT
EDP	ELECTRONIC DATA PROCESSING
EEMC	ELECTRICAL AND ELECTRONIC MANUFACTURERS ASSOCIATION OF CANADA
EF	EXHAUST FAN
EG	ENGINE-GENERATOR
EIA	ELECTRONIC INDUSTRIES ASSOCIATION
ELEC	ELECTRIC/ELECTRICAL
ELEV	ELEVATION
EMT	ELECTRICAL METALLIC TUBING CONDUIT
ENCL	ENCLOSURE
EP	ELECTRIC PANELBOARD
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXG	EXISTING
EXH	EXHAUST
EXT	EXTERIOR
F	
F	FUSE/FUSED
°F	DEGREE FAHRENHEIT
FA	FIRE ALARM
FAAN	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FD	FIRE DAMPER
FFE	FINISHED FLOOR ELEVATION
FIXT	FIXTURE
FLA	FULL LOAD AMPERES
FLEX	FLEX METAL CONDUIT
FLR	FLOOR
FLUR	FLUORESCENT
FM	FACTORY MUTUAL
FND	FOUNDATION
FPC	FIRE PROTECTION CONTRACTOR
FTG	FOOTING
FUT	FUTURE
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
FW	FENDER WASHER
FWD	FORWARD
G	
G	GREEN
GA	GAUGE
GC	GENERAL CONTRACTOR
GD	GENERAL DUTY/GRADE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GPDW	GYPSUM DRYWALL
GRD	GROUND
GRMC	GALVANIZED RIGID METAL CONDUIT
GV	GALVANIZED
H	
H	HIGH/HEIGHT
HD	HEAVY DUTY
HDW	HARDWARE
HGT	HEIGHT
HHMB	HEX HEAD MACHINE BOLT
HO	HIGH OUTPUT
H-O-A	HAND-OFF-AUTO
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HOR	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HWCP	HOT WATER CIRCULATING PUMP
HZ	HERTZ
I	
IC	INTERCOM
ICAND	INCANDESCENT
ID	INSIDE DIMENSION
IEC	INTERNATIONAL ELECTROTECHNICAL COMMISSION
IF	INSIDE FROSTED
IMC	INTERMEDIATE METAL CONDUIT
INCAN	INCANDESCENT
INSUL	INSULATED
INT	INTERIOR
J	
JB	JUNCTION BOX
JIC	JOINT INDUSTRIAL COUNCIL
K	
°K	DEGREE KELVIN
KO	KNOCKOUT
KVA	KILOVOLT-AMP
KW	KILOWATT
KWH	KILOWATT-HOUR
L	
LA	LIGHTNING ARRESTOR
LC	LIGHTING CONTRACTOR
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LOA	LENGTH OVER ALL
LP	LIGHTING PANEL/LIGHTING PANELBOARD
LPF	LOW POWER FACTOR
LRA	LOCKED ROTOR AMPERE
LTG	LIGHTING
LV	LOW VOLTAGE
LW	LOCK WASHER
M	
MAG	MAGNETIC
MAN	MANUAL
MAX	MAXIMUM
MCP	MOTOR CIRCUIT PROTECTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MOTOR-GENERATOR
MIC	MICROPHONE
MIN	MINIMUM
MH	METAL HALIDE/MANHOLE
MOG	MOGUL
MPS	MANUAL PULL STATION
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTS	MANUAL TRANSFER SWITCH
MV	MERCURY VAPOR
N	
N	NORTH/NEUTRAL
NA	NOT APPLICABLE
NATS	NON-AUTOMATIC TRANSFER SWITCH
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER(S)
OD	OUTSIDE DIMENSION/ OUTSIDE DIAMETER
OH	OVERHEAD
OL	OVERLOAD
P	
P	POLE/PUMP
PA	PUBLIC ADDRESS
PB	PULL BOX/PUSH BUTTON
PC	PLUMBING CONTRACTOR
PE	PROFESSIONAL ENGINEER
PEC	PHOTO ELECTRIC CELL
PF	POWER FACTOR
PL	PILOT LIGHT/PROPERTY LINE
PNL	PANEL
PNLBD	PANELBOARD
POS	POSITION
PP	POWER PANEL/POWER PANELBOARD
PREFAB	PREFABRICATED
PSI	POUNDS PER SQUARE INCH
PT	POTENTIAL TRANSFORMER/POINT
P/T	PAN AND TILE
PVC	RIGID POLYVINYL CHLORIDE CONDUIT
PVMT	PAVEMENT
PWD	PLYWOOD
PWR	POWER
Q	
QTY	QUANTITY
R	
R	RED
RA	RETURN AIR
RAD	RADIUS
RAF	RETURN AIR FAN
RECEP	RECEPTACLE
REV	REVERSE/REVISION
RF	RETURN FAN
RLY	RELAY
RM	ROOM
RMC	RIGID METAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
S	
S	SOUTH
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SECT	SECTION
SC	SCREW COVER
SCH	SCHEDULE
SEL	SELECTOR
SF	SUPPLY FAN/SQUARE FEET
SHT	SHEET
SPDT	SINGLE-POLE DOUBLE-THROW
SPEC	SPECIFICATION
SPK	SPEAKER
SPST	SINGLE-POLE SINGLE-THROW
SQ	SQUARE
SST	STAINLESS STEEL
STD	STANDARD
ST-FLEX	SEALTITE (LIQUIDTIGHT) FLEXIBLE METAL CONDUIT
STL	STEEL
STR	STARTER
SURF	SURFACE
SUSP	SUSPEND
SWBD	SWITCHBOARD
SW	SWITCH
T	
TB	TERMINAL BOX
TBD	TERMINAL BOARD
TCP	TEMPERATURE CONTROL PANEL
TELE	TELEPHONE/TELEPHOTO
TS	TRANSFER SWITCH
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
U	
UL	UNDERWRITER LABORATORIES, INC.
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	
V	VOLTAGE
VA	VOLT-AMP
VAV	VARIABLE AIR VOLUME
VDT	VIDEO DISPLAY TERMINAL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VHO	VERY HIGH OUTPUT
W	
W	WEST/WIRE/WATT/WIDTH/ WIDE
WA	WIDE ANGLE
WD	WOOD
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WW	WARM WHITE/WIREWAY
X	
XFMR	TRANSFORMER
Y	
Y	WYE
Z	
Z	ZOOM

SYMBOLS

Φ	PHASE
Δ	DELTA
%	PERCENT
#	NUMBER
≈	APPROXIMATELY

MECHANICAL ABBREVIATIONS

(SOME ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED. REFER TO FLOOR PLANS FOR ALL ABBREVIATIONS.)

A	AMPS, AIR (COMPRESSED)	GV	GRAVITY VENTILATOR
A/C	AIR CONDITIONING	GW	GROUND WATER
AD	AREA DRAIN		
AFF	ABOVE FINISH FLOOR	H	HUMIDISTAT
AFC	ABOVE FINISH CEILING	HB	HOSE BIBB
AFG	ABOVE FINISH GRADE	HEX	HEAT EXCHANGER
AFS	AIR FLOW MEASURING STATION	HPS	HIGH PRESSURE STEAM
AHU	AIR HANDLING UNIT	HPR	HIGH PRESSURE CONDENSATE RETURN
AS	AIR SEPARATOR	HRU	HEAT RECOVERY UNIT
		HTG	HEATING
BBD	BOILER BLOWDOWN	HTR	HEATER
BDD	BACKDRAFT DAMPER	HVU	HEATING AND VENTILATING UNIT
BFP	BACKFLOW PREVENTER	HW	DOMESTIC HOT WATER
BFW	BOILER FEED WATER	HWR	HOT WATER HEATING RETURN
BOD	BOTTOM OF DUCT	HWP	DOMESTIC HOT WATER PUMP
BOP	BOTTOM OF PIPE	HWRP	DOMESTIC HOT WATER RECIRC. PUMP
BOS	BOTTOM OF STRUCTURE	HWS	HOT WATER HEATING SUPPLY
BTH	BRITISH THERMAL UNIT		
BFD	BOILER FEED LINE	IAQ	INDOOR AIR QUALITY SENSOR
		IE	INVERT ELEVATION
CFM	CUBIC FEET PER MINUTE	IG	ISOLATED GROUND
CHP	CHILLED WATER PUMP		
CHR	CHILLED WATER RETURN	KV	KILOVOLT
CHS	CHILLED WATER SUPPLY	KVA	KILOVOLT AMPS
CKT	CIRCUIT	KW	KILOWATT
CO	CLEANOUT / CARBON MONOXIDE		
CO2	CARBON DIOXIDE SENSOR	L	LOUVER
CTR	COOLING TOWER RETURN	LAT	LEAVING AIR TEMPERATURE
CTS	COOLING TOWER SUPPLY	LDB	LEAVING DRY BULB
CU	COPPER, CONDENSING UNIT	LP	LIQUEFIED PETROLEUM
CUH	CABINET UNIT HEATER	LPCP	LOW PRESSURE CONDENSATE PUMP
CW	DOMESTIC COLD WATER	LPS	LOW PRESSURE STEAM
CWP	DOMESTIC COLD WATER PUMP	LPR	LOW PRESSURE CONDENSATE RETURN
		LRA	LOCKED ROTOR AMPS
DDC	DIRECT DIGITAL CONTROL	LWB	LEAVING WET BULB
DDVAV	DUAL DUCT VARIABLE AIR VOLUME	LWT	LEAVING WATER TEMPERATURE
DN	DOWN		
DPR	DAMPER	MA	MAKE UP AIR
DSP	DUPLEX SUMP PUMP	MBH	1000 BTU PER HOUR
DWH	DOMESTIC WATER HEATER	MC	MECHANICAL CONTRACTOR
DX	DIRECT EXPANSION	MCC	MOTOR CONTROL CENTER
		MD	MANUAL DAMPER
EAT	ENTERING AIR TEMPERATURE	MFR	MANUFACTURER
EF	EXHAUST FAN	MH	MANHOLE
ER	EXHAUST REGISTER	MTD	MOUNTED
ESP	ELEVATOR SUMP PUMP	MTR	MOTOR
ET	EXPANSION TANK	MUAF	MAKE UP AIR FAN
ETR	EXISTING TO REMAIN	MZD	MOTORIZED DAMPER
EWB	ENTERING WET BULB		
EWC	ELECTRIC WATER COOLER	N	NITROGEN
EWT	ENTERING WATER TEMPERATURE	N/A	NOT APPLICABLE
EXH	EXHAUST	NIC	NOT IN CONTRACT
		N/C	NORMALLY CLOSED
F/S	COMBINATION FIRE AND SMOKE DAMPER	N/O	NORMALLY OPEN
FCO	FLUSH FLOOR CLEANOUT		
FCU	FAN COIL UNIT	OC	ON CENTERS
FD	FIRE DAMPER, FLOOR DRAIN	OA	OUTSIDE AIR
FL	FLOW LINE ELEVATION	ORD	OVERFLOW ROOF DRAIN
FLA	FULL LOAD AMPS		
FLR	FLOOR	PCHP	PRIMARY CHILLED WATER PUMP
FP	FIRE PROTECTION	PD	PUMP DISCHARGE
		PH	PHASE
GCO	FLUSH GRADE CLEANOUT	PHWP	PRIMARY HOT WATER PUMP
GMP	GLYCOL MAKE-UP PUMP	PIV	POST INDICATOR VALVE
GND	GROUND		
GPM	GALLONS PER MINUTE		

PP	PIT PUMP		
PRV	PRESSURE REDUCING VALVE		
QTY	QUANTITY		
R	RETURN		
RA	RETURN AIR		
RAD	RADIATOR		
RAF	RETURN AIR FAN		
RD	REFRIGERANT DISCHARGE, ROOF DRAIN		
REV	REVISION		
RF	REFRIGERANT		
RFS	REFRIGERANT SUCTION		
RG	RETURN GRILLE		
RH	RELATIVE HUMIDITY		
RHW	DOMESTIC RECIRCULATING HOT WATER		
RLA	RUNNING LOAD AMPS		
RFL	REFRIGERANT LIQUID		
RPM	REVOLUTIONS PER MINUTE		
RTN	LOW PRESSURE CONDENSATE RETURN		
RTU	ROOF TOP UNIT		
S	SOLENOID		
SA	SUPPLY AIR		
SAN	SANITARY		
SCHP	SECONDARY CHILLED WATER PUMP		
SD	SUPPLY DIFFUSER/SAN. OR COND. DRAIN		
SE	SEWAGE EJECTOR		
SHWP	SECONDARY HOT WATER PUMP		
SMP	SNOW MELT PUMP		
SMR	SNOW MELT RETURN		
SMS	SNOW MELT SUPPLY		
SPF	SMOKE PURGE FAN		
SP	STATIC PRESSURE		
SPD	SPLITTER DAMPER		
SR	SUPPLY REGISTER		
ST	STORM DRAIN		
ST/O	STORM OVERFLOW		
SW	STORM WATER		
SWC	SOFT DOMESTIC COLD WATER		
SWH	SOFT DOMESTIC HOT WATER		
TCV	TEMP. CONTROL VALVE		
TNK	TANK		
TSTAT	THERMOSTAT		
UH	UNIT HEATER		
UNO	UNLESS NOTED OTHERWISE		
UPS	UNINTERRUPTIBLE POWER SUPPLY		
V	VENT PIPE		
VAV	VARIABLE AIR VOLUME		
VD	VOLUME DAMPER		
VOC	VOLATILE ORGANIC COMPOUND SENSOR		
VTR	VENT THROUGH ROOF		
W/	WITH		
W/O	WITHOUT		
WB	WET BULB		
WCO	FLUSH WALL CLEANOUT		
WH	WALL HYDRANT		
WP	WEATHERPROOF		
WS	WATER SOFTENER		
XP	EXPLOSION PROOF		

GENERAL

NOT ALL SYMBOLS OR ABBREVIATIONS MAY BE USED

1	MECHANICAL NOTE REFERENCE
2	ELECTRICAL NOTE REFERENCE
3	DEMOLITION NOTE REFERENCE
4	REVISION NOTE REFERENCE
5	GENERAL CONSTRUCTION NOTE REFERENCE
	CONNECTION POINT BETWEEN NEW & EXISTING WORK
1 / M1	DETAIL REFERENCE – NO./SHEET NO.
A / M1	SECTION CUT – SECTION/SHEET NO.

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KANSAS 10530 REGISTERED PROFESSIONAL ENGINEER
7-15-15

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 1730000038
DRAWN BY: CAD CHECKED BY: WRB REV: WRB
DATE: 4-15-15

MECHANICAL AND ELECTRICAL ABBREVIATIONS LIST

A-012651

ME002

CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
Att.SC.--0064

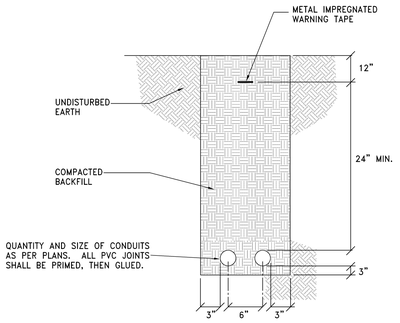
J:\2015 CTC Ltd\Dwg 96 02/24/15 CTC Ltd\Dwg 96 02/24/15 CTC Ltd\Dwg 96 04/14/15 CTC Ltd\Dwg 96 04/14/15 CTC Ltd\Dwg 96 04/14

SITE LIGHT FIXTURE SCHEDULE

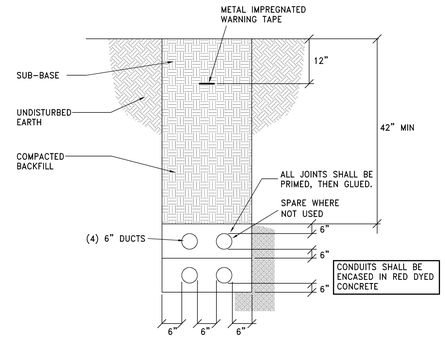
MARK	MANUFACTURER	MODEL NUMBER	MOUNTING			FINISH	LAMPS					REMARKS
			RECESS.	SURF.	WALL		LED	FLUOR.	HID.	LUM/WATT	WATTAGE	
"SL1"	MCGRAW EDISON	TLM-B05-LED-E1-SL4-**-8030		POLE		BRUSHED ALUM.	X			79.1	124	1, 2, 3, 4, 10
"SL2"	MCGRAW EDISON	TLM-B05-LED-E1-SLR-**-8030		POLE		BRUSHED ALUM.	X			75.7	124	1, 2, 3, 4, 7, 10
"SL3"	MCGRAW EDISON	ISS-B01-LED-E1-BL2-**-8030		X		BRUSHED ALUM.	X			80.6	27	4, 5, 10
"SL4"	WILLIAMS	LEDSQ60-PH11/830-CS-AC/CAL EDD*PH-277	X			SEMI SPECULAR	X			57.1	17	4, 10
"SL5"	US ARCHITECTURAL	8630-16LEDWW277-RAL-****-S-SF	X			BRUSHED ALUM.	X			–	19	4, 6, 10
"SL6"	KIM	LTV82SS-SP-18L-3K-UV-PL	X			STAINLESS STEEL	X			56.4	23	4, 9, 10, 11
"SL7"	KIM	LTV82SS-NF-18L-3K-UV-PL	X			STAINLESS STEEL	X			45.5	23	4, 8, 10, 11

REMARKS LEGEND:

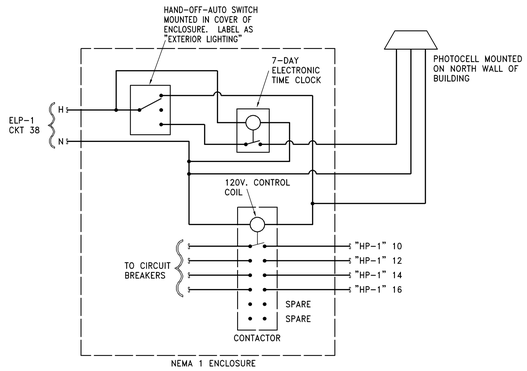
1 – PROVIDE WITH (1) HEAD.
2 – VERIFY EPA RATING OF POLE WITH MANUFACTURER.
3 – MOUNT ON 20' POLE.
4 – 277V.
5 – MOUNT AT 9'-10" AFF.
6 – MOUNT AT 2 FT. AFG, RECESSED IN CONCRETE WALL.
7 – NEW POLE MOUNTED ON EXISTING FOUNDATION. PROVIDE ANCHOR BOLT ADAPTER PLATE OR CUT EXISTING ANCHOR BOLTS OFF AND INSERT NEW ANCHOR BOLTS INTO EXISTING FOUNDATION. NEW ANCHOR BOLTS SHALL BE ADHERED TO FOUNDATION USING EPOXY ADHESIVE.
8 – NARROW FLOOD.
9 – SPOT FLOOD.
10 – ALL LED'S SHALL BE PROVIDED IN 3000°K COLOR TEMPERATURE.
11 – IN GROUND LUMINAIRE SPUN COPPER HOUSING, BRONZE CLAMPING RING WITH ACRYLIC–LENS.



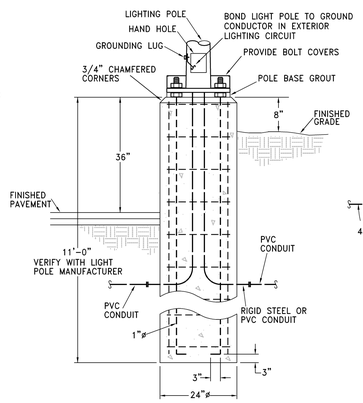
D3 Underground Secondary Service
NO SCALE



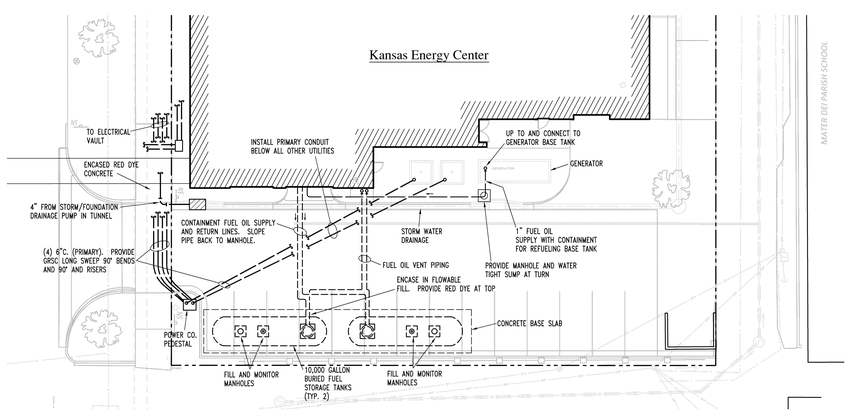
C3 Underground Primary Service
NO SCALE



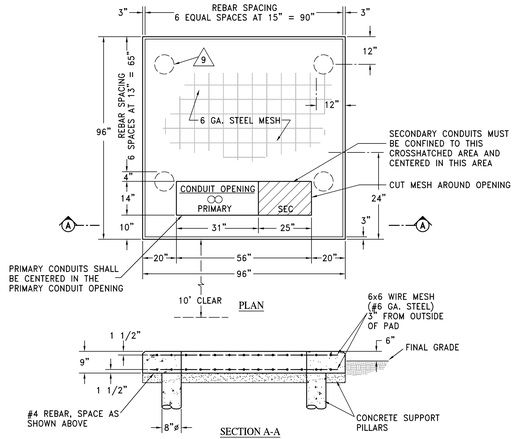
D2 Exterior Lighting Control Panel Schematic
NO SCALE



C2 Light Pole Base Detail
NO SCALE



D1 Partial Site Plan
1/16"=1'-0" MECH/ELEC
N.



B4 Transformer Pad Detail
1/2"=1'-0" 750-1000 KVA

NOTES:

1. THE PAD LOCATION AND SIZE SHALL BE APPROVED BY POWER COMPANY.
2. TRANSFORMER SHALL BE INSTALLED WHERE INDICATED ON PLANS.
4. CONTRACTOR SHALL EXTEND FORMS DOWN TO AT LEAST 3" BELOW AVERAGE GROUND LINE.
5. THE CONCRETE SHALL BE A MINIMUM OF 3,000 LB. MIX.
6. THE TOP OF THE TRANSFORMER PAD SHALL RECEIVE A SMOOTH TROWEL FINISH. THE CORNERS AND EDGES SHALL BE ROUNDED OR BEVELED.
7. THE CONDUIT OPENING SHALL BE FREE AND CLEAR OF CONCRETE.
8. THE TOPS OF THE CONDUITS SHALL BE FLUSH WITH THE TOP OF THE CONCRETE PAD.

9 PILLARS ARE FORMED BY AUGERING AN 8" DIAMETER HOLE TO A DEPTH OF UNDISTURBED EARTH. A SEPARATOR, SUCH AS TAR PAPER, SHOULD BE PLACED BETWEEN THE PILLAR AND THE PAD SO THAT THE PAD CAN BE LEVELED AT A LATER TIME IF NECESSARY

12. POWER COMPANY SHALL RESERVE THE RIGHT NOT TO ACCEPT THE CONDITION OF THE CONCRETE PAD IF IT FAILS TO MEET THE REQUIREMENTS STATED HERE–IN.

11 PAD DIMENSIONS AND CONDUIT OPENING DIMENSIONS SHALL BE VERIFIED WITH POWER COMPANY'S LOCAL SERVICE CENTER PRIOR TO INSTALLATION.



B1 Partial Site Plan
1"=20'-0" MECH/ELEC
N.

NOTE:

REFER TO SHEET PH101 FOR DOMESTIC WATER, WASTE, AND STORM WATER PIPING.

GENERAL NOTES:

1. SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
2. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
3. THE CONTRACTOR SHALL INCLUDE IN BASE BID ANY AND ALL FEES IMPOSED ON THE OWNER BY ANY UTILITY COMPANY FOR WORK ASSOCIATED WITH THIS PROJECT.
4. THE CONTRACTOR SHALL COORDINATE WITH LOCAL POWER COMPANY SO AS TO PROVIDE THE NEW PRIMARY SERVICE FOR THE NEW TENNIS COURTS AS INDICATED HERE–IN.

UTILITY NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH AND RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

UTILITY CONTACTS:

WESTAR:
WAYNE KLIEWER
785-575-1693
WAYNE.KLIEWER@WESTARENERGY.COM

KANSAS GAS SERVICE:
DAWN HECKER
ENGINEER III
785-431-4251
DAWN.HECKER@ONEGAS.COM

WATER:
JEFF HUNT
CITY ENGINEERING DIVISION
785-368-3842

SEWER:
DENNIS DUNBAR
WATER POLLUTION CONTROL
785-368-4344

HTK ARCHITECTS PA
3905 KANSAS AVE. 9300 W. 110TH ST. STE. 130
TOPEKA KANSAS 66619 OVERLAND PARK KANSAS 66210
P 785.266.5773 WWW.HTKARCHITECTS.NET P 913.663.5773

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CONSULTING ENGINEERS
3639 SW Summerfield Drive, Suite A
Topeka, Kansas 66614-3974
Telephone: (785) 233-3232
FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1402032

KANSAS 10530 REGISTERED PROFESSIONAL ENGINEER
4-15-15

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and Property Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
Phone 785-296-8899
FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 1730000038
DATE: 4-15-15 DRAWN BY: CAD CHECKED BY: MRB REV: MRB

SITE PLAN - MECH/ELEC

A-012651

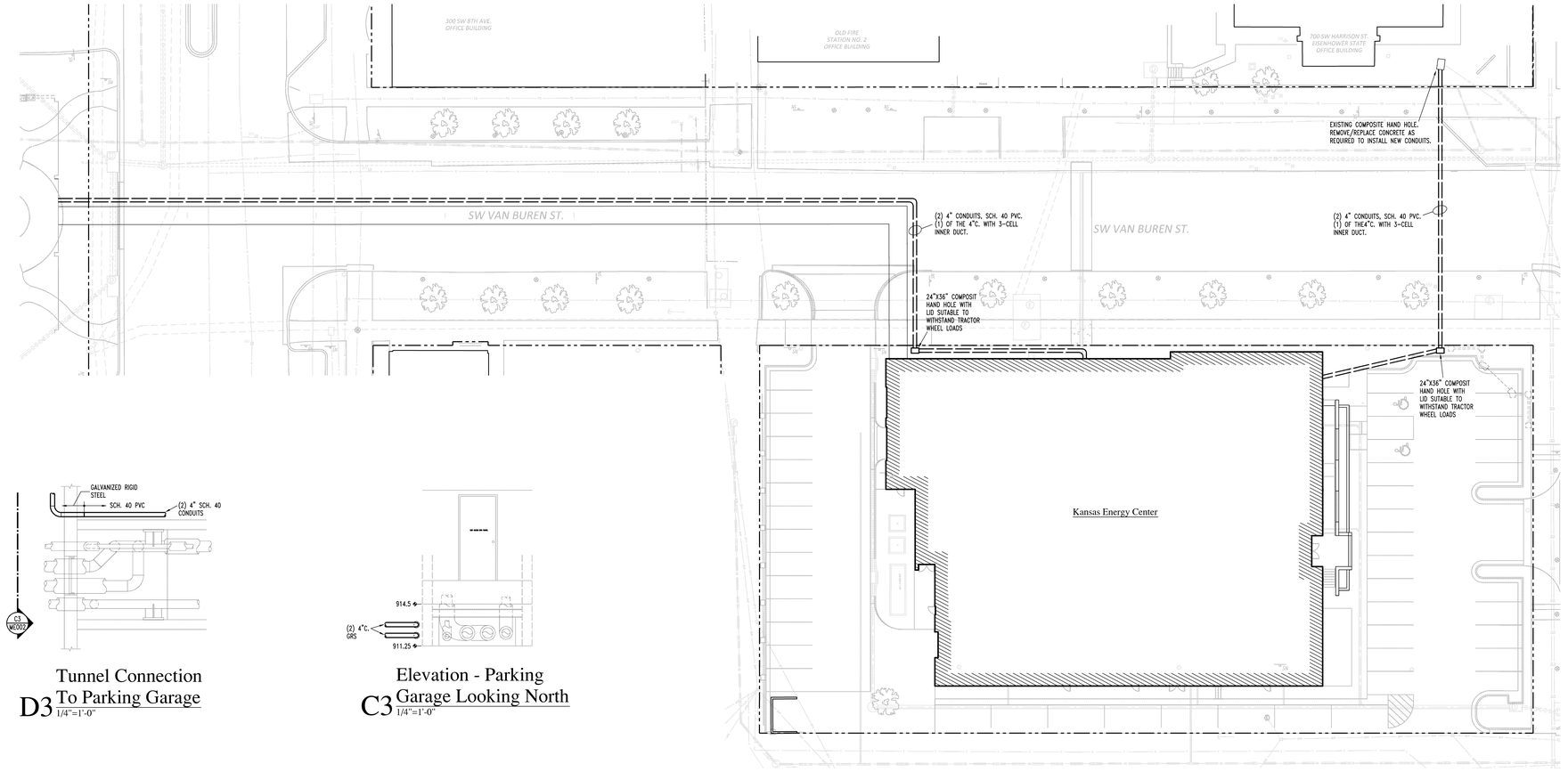
ME101

CONSTRUCTION DOCUMENTS

811 Know what's **below.** **Call** before you dig.
Call 811 in Kansas before you dig, or log on to http://www.kansasonecall.com/

ME101.dwg 1 04/14/15 DLS

JCSBC
2-2-2016
Att.9C.--0065



A3 Site Plan
1:20 — Fiber Optic Cabling

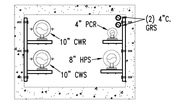
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FIBER OPTIC CABLING REQUIREMENTS:

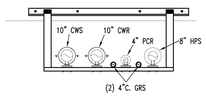
- PROVIDE 96 STRAND SM INDOOR/OUTDOOR RISER RATED FIBER CABLE. VERIFY FIBER REQUIREMENTS WITH OWNER.
- FROM DATA ROOM IN BASEMENT OF THE EISENHOWER STATE OFFICE BUILDING RUN THE NEW FIBER CABLE TO THE HAND HOLE LOCATED ON THE EAST SIDE OF THE EISENHOWER STATE OFFICE BUILDING (ESOB) USING EXISTING PATH WAYS.
- FROM THE HAND HOLE TO THE EAST SIDE OF THE ESOB FUN THE NEW FIBER CABLE TO THE DATA ROOM ON THE SECOND FLOOR OF THE NEW KANSAS ENERGY CENTER (KEC) RUN NEW FIBER CABLE IN ON OF THE NEW 4" CONDUITS PROVIDED AS PART OF THIS PROJECT.
- FROM THE NEW DATA ROOM ON THE SECOND FLOOR OF THE KEC EXTEND NEW CABLE TO THE DATA ROOM IN THE NORTH WEST VAULT OF THE KANSAS STATE HOUSE. RUN THE NEW FIBER CABLE IN ONE OF THE NEW 4" CONDUITS INSTALLED AS A PART OF THIS PROJECT AND EXISTING PATHWAYS PREVIOUSLY PROVIDED IN THE KSH.
- FROM THE DATA ROOM IN THE NORTH WEST MECHANICAL VAULT OF THE KSH EXTEND NEW FIBER CABLE TO THE DATA ROOM IN THE SOUTH EAST MECHANICAL VAULT OF THE KSH. RUN THE NEW CABLE IN EXISTING CONDUIT AND WIRE BASKET PREVIOUSLY INSTALLED IN THE KSH.

D3 Tunnel Connection To Parking Garage
1/4"=1'-0"

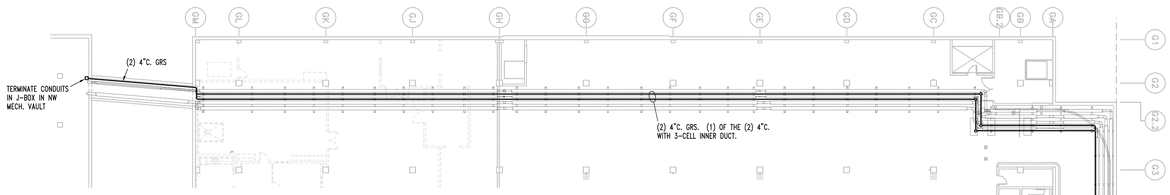
C3 Elevation - Parking Garage Looking North
1/4"=1'-0"



D2 Tunnel Section
1/2"=1'-0"

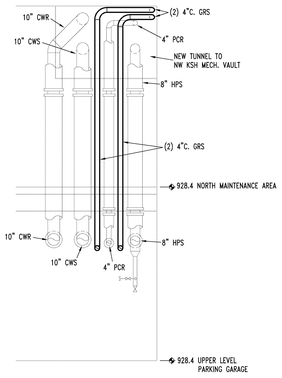


C2 Typical Pipe Support In Parking Garage
1/4"=1'-0"

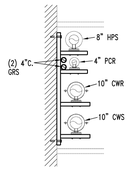


A2 Partial Parking Garage Plan
1:20 — Fiber Optic Cabling

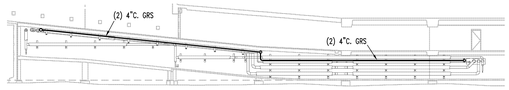
N.



D1 Elevation At South Wall KSH North Maintenance
1/2"=1'-0"



C1 Pipe Support - North Wall, Parking Garage
1/4"=1'-0"



A1 Elevation Parking Garage North Wall, West Ramp
1/4"=1'-0" — Fiber Optic Cabling

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3900 W 119TH ST, STE 150
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2905 KANSAS AVE.
TOPEKA KANSAS 66612
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Topeka, Kansas 66614-3974
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FAX: (785) 233-0647
Email: lsapa@lsapa.com
LSA PROJECT NO. 1402032

10530
4-15-15

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Property Management
800 SW Jackson, Suite 700
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FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 1730-000038
DRAWN BY: CAD CHECKED BY: WRB REV: WRB
DATE: 4-15-15

SITE PLAN - FIBER OPTIC CABLING

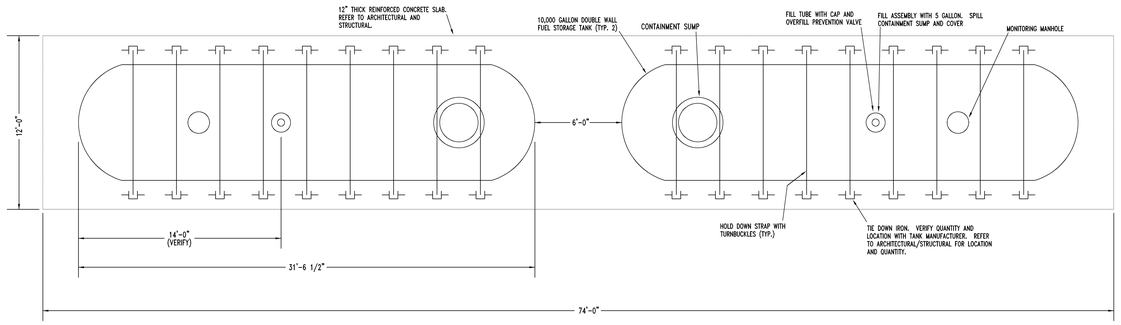
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ME102

CONSTRUCTION DOCUMENTS

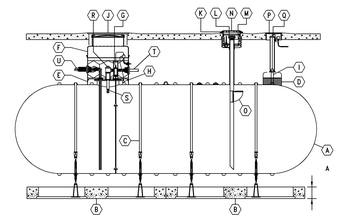
JCSBC
2-2-2016
Att.9C---0066

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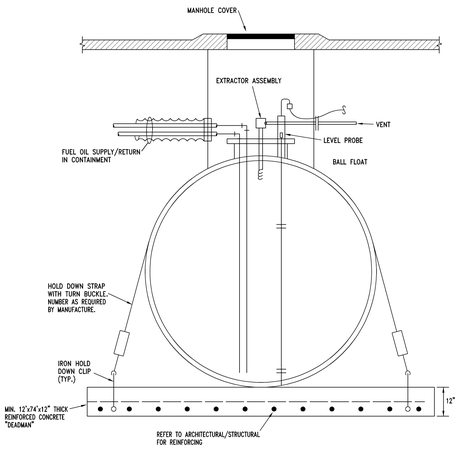


C4 Fuel Oil Storage Tanks
1/4"=1'-0"

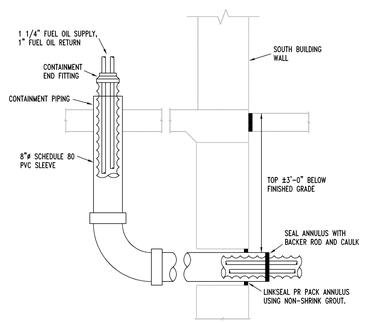
ITEM	EQUIPMENT LISTING	ITEM	EQUIPMENT LISTING	ITEM	EQUIPMENT LISTING
A	DOUBLE WALL FIBERGLASS STORAGE TANK	H	DISTINGUISHING LEAK SENSOR	P	MONITORING MANHOLE
B	CONCRETE SLAB	I	HYDROSTATIC MONITOR SENSOR	Q	4" SENSOR CAP
C	HOLD DOWN STRAP WITH TURNBUCKLE ASSY.	J	LARGE ROUND MANHOLE	R	EXTRACTOR ASSEMBLY
D	HYDROSTATIC MONITORING SYSTEM	K	FIVE GALLON SPILL FILL MANHOLE	S	BALL FLOAT
E	42"DIA FIBERGLASS CONTAINMENT COLLAR	L	FILL CAP	T	SINGLE WALL VENT PIPING
F	42"DIA FIBERGLASS 8 SIDED SW CONTAINMENT SUMP WITH 32"DIA WATERTIGHT TOP	M	FILL ADAPTER	U	DOUBLE WALL PRODUCT SUPPLY PIPING
		N	PRODUCT LABEL MARKER		
G	LEVEL PROBE	O	OVERFILL PREVENTION VALVE		



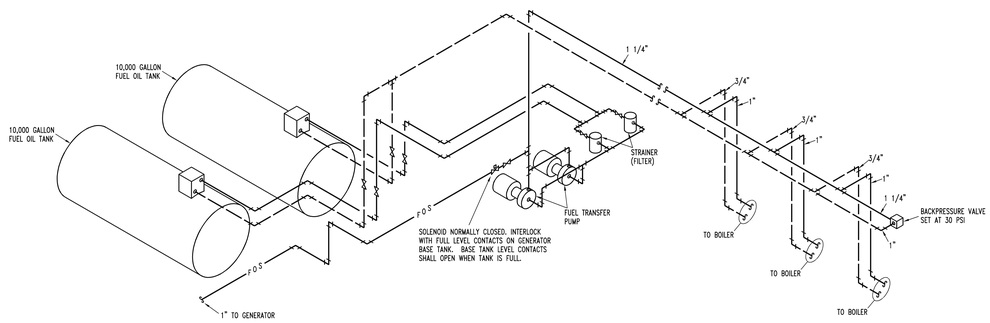
A4 Fuel Oil Storage Tank Connection Detail
No Scale



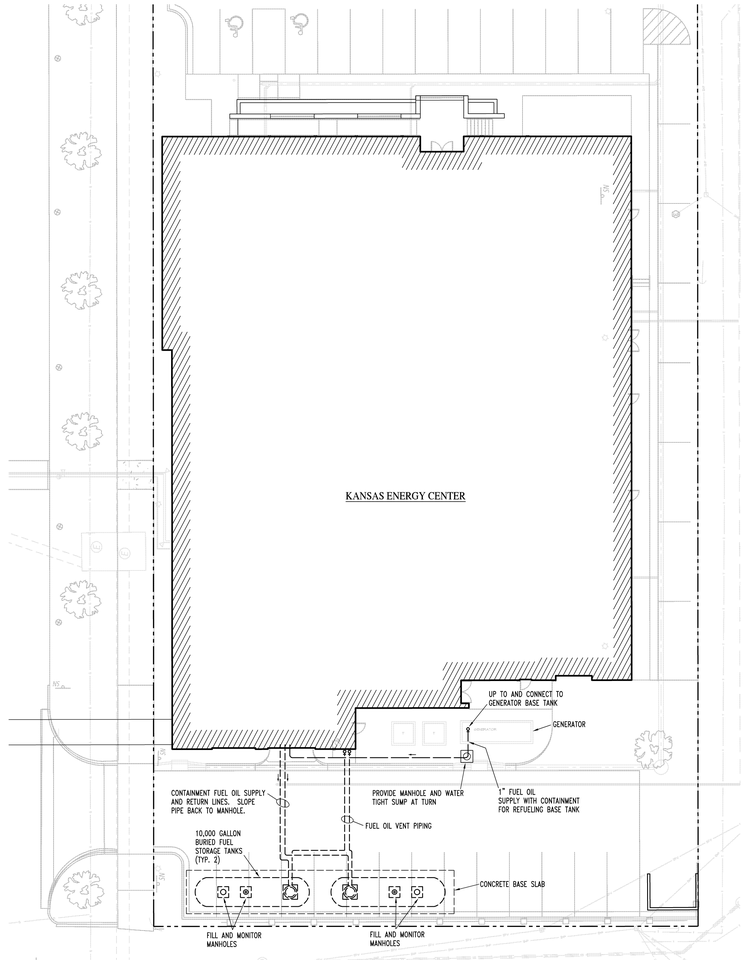
D3 Fuel Oil Storage Tank Elevation
1/2"=1'-0"



B3 Building Entrance - Fuel Oil Piping
1/4"=1'-0"



C1 Fuel Oil Piping Schematic
No Scale



A1 Partial Site Plan
1/16"=1'-0" Fuel Oil Storage Tanks

HTK ARCHITECTS PA
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LSA PROJECT NO. 1402032

KANSAS REGISTERED PROFESSIONAL ENGINEER 10530 4-15-15

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Department of Administration
Office of Facilities and Property Management
800 SW Jackson, Suite 700
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FAX 785-296-3456

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 173000-00038
DATE: 4-15-15 DRAWN BY: CAD CHECKED BY: MRB REV: MRB

PARTIAL SITE PLAN - FUEL STORAGE TANKS

A-012651

ME103

CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
Att.9C --0067

EXISTING EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MINIMUM COOLING TONS	EVAPORATOR OR COIL GPM	EVAPORATOR OR COIL PRESSURE DROP	EVAPORATOR OR COIL ENTERING WATER TEMP/ LEAVING WATER TEMP	CONDENSER GPM	CONDENSER PRESSURE DROP	CONDENSER ENTERING WATER TEMP/ LEAVING WATER TEMP	HEAT RECOVERY GPM	HEAT RECOVERY PRESSURE DROP	HEAT RECOVERY ENTERING WATER TEMP/ LEAVING WATER TEMP	PUMP GPM/ FAN CFM	TOTAL HEAD OR STATIC PRESSURE	ELECTRICAL CHARACTERISTICS					REMARKS
																KW/HP	MINIMUM * CIRCUIT AMPS	MAXIMUM OVERCURRENT PROTECTION	PHASE	VOLTAGE	
CHILLER 1	EXISTING HEAT RECOVERY CHILLER LOCATED IN DSOB	TRANE	CVHE 0360	400.0 TONS	800	14.2'	54°F/42°F	1144	18.05'	85°F/95°F	800	9'	96°F/109°F	N/A	N/A	253.7 KW	490A	800A	3	460 VOLT	2
CHILLER 2	EXISTING HEAT RECOVERY CHILLER LOCATED IN DSOB	TRANE	CVHE 0360	400.0 TONS	800	14.2'	54°F/42°F	1144	18.05'	85°F/95°F	800	9'	96°F/109°F	N/A	N/A	253.7 KW	490A	800A	3	460 VOLT	2
CHILLER 3	EXISTING HEAT RECOVERY CHILLER LOCATED IN DSOB	TRANE	CVHE 0360	400.0 TONS	800	14.2'	54°F/42°F	1144	18.05'	85°F/95°F	800	9'	96°F/109°F	N/A	N/A	253.7 KW	490A	800A	3	460 VOLT	3
EFDR-1	REFRIGERATOR ROOM EXHAUST FAN	GREENHECK	BCF 110	--	--	--	--	--	--	--	--	--	--	3500 CFM	.5" WG	3/4 HP	1.6 FLA	20A	3	460 VOLT	2
PCHWP-1	EXISTING PRIMARY CHILLED WATER PUMP	BELL & GOSSETT	SERIES VSC, 6x8x10-1/2A	--	--	--	--	--	--	--	--	--	--	2000 GPM	90'	60 HP	77 FLA	110A	3	460 VOLT	2
PCHWP-2	EXISTING PRIMARY CHILLED WATER PUMP	BELL & GOSSETT	SERIES VSC, 6x8x10-1/2A	--	--	--	--	--	--	--	--	--	--	2000 GPM	90'	60 HP	77 FLA	110A	3	460 VOLT	2
PCHWP-3	EXISTING PRIMARY CHILLED WATER PUMP	BELL & GOSSETT	SERIES VSC, 6x8x10-1/2A	--	--	--	--	--	--	--	--	--	--	2000 GPM	90'	60 HP	77 FLA	110A	3	460 VOLT	--

REMARKS:
1. 2-SPEED MOTOR. 2000 CFM LOW SPEED. PROVIDE MOTORIZED DAMPER IN EXHAUST DISCHARGE DUCTWORK.
2. HARVEST FROM DSOB SUB BASEMENT.
3. HARVEST FROM ESOB BASEMENT.

*OR FULL LOAD AMPS (FLA)

STOP VALVE SCHEDULE

SYSTEM STOP VALVE	TYPE	SIZE	BODY MATERIAL	BONNET/ PACKING GLAND DESIGN	DISC/BALL MATERIAL	STEM MATERIAL	PACKING MATERIAL LAND SEATS	PRESSURE RATING	REMARKS
DOMESTIC WATER	BALL FULL PORT	1/2" TO 2 1/2"	BRONZE, B-584 OR B-62 BRONZE	ADJUSTABLE WITHOUT REMOVING HANDLE	STAINLESS STEEL	STAINLESS STEEL	REINFORCED TEFLON	600 PSI CWP	PROVIDE THREADED OR SOLDERED ENDS AS REQUIRED BY PIPING SYSTEM
HEATING HOT WATER	BALL FULL PORT	1/2" TO 2 1/2"	BRONZE, B-584 OR B-62 BRONZE	ADJUSTABLE WITHOUT REMOVING HANDLE	STAINLESS STEEL	STAINLESS STEEL	REINFORCED TEFLON	600 PSI CWP	PROVIDE THREADED OR SOLDERED ENDS AS REQUIRED BY PIPING SYSTEM
HEATING HOT WATER	BUTTERFLY	3" AND UP	CAST OR DUCTILE IRON	FULL LUG BODY	STAINLESS STEEL	STAINLESS STEEL	EPDM	200 PSI CWP	FULL LUG BODY, STAINLESS STEEL TRIM, BRAY OR APPROVED EQUAL
COOLING CHILLED WATER	BALL FULL PORT	1/2" TO 2 1/2"	BRONZE, B-584 OR B-62 BRONZE	ADJUSTABLE WITHOUT REMOVING HANDLE	STAINLESS STEEL	STAINLESS STEEL	REINFORCED TEFLON	600 PSI CWP	PROVIDE THREADED OR SOLDERED ENDS AS REQUIRED BY PIPING SYSTEM
COOLING CHILLED WATER	BUTTERFLY	3" AND UP	CAST OR DUCTILE IRON	FULL LUG BODY	STAINLESS STEEL	STAINLESS STEEL	EPDM	200 PSI CWP	FULL LUG BODY, STAINLESS STEEL TRIM, BRAY OR APPROVED EQUAL
COMPRESSED AIR	BALL	1/2" TO 2 1/2"	CAST CARBON STEEL TWO PIECE, (4) BOLT DESIGN	ADJUSTABLE WITHOUT REMOVING HANDLE	STAINLESS STEEL	STAINLESS STEEL	REINFORCED TEFLON	250 PSI STEAM SERVICE	TREADED ENDS
CONDENSER WATER	GATE	3" AND UP	DUCTILE IRON	BOLTED BONNET OS AND Y DESIGN	DUCTILE IRON	STEEL	TFE-ARAMID	CLASS 150	FLANGED CONNECTIONS, STAINLESS STEEL TRIM
LOW PRESSURE STEAM	BALL	1/2" TO 2 1/2"	CAST CARBON STEEL TWO PIECE, (4) BOLT DESIGN	ADJUSTABLE WITHOUT REMOVING HANDLE	STAINLESS STEEL	STAINLESS STEEL	REINFORCED TEFLON	250 PSI STEAM SERVICE	THREADED ENDS
LOW PRESSURE STEAM	GATE	3" AND UP	DUCTILE IRON	BOLTED BONNET OS & Y DESIGN	DUCTILE IRON		TFE-ARAMID	CLASS 150	FLANGED CONNECTIONS, STAINLESS STEEL TRIM
HIGH PRESSURE STEAM	BALL	1/2" TO 2 1/2"	CAST CARBON STEEL TWO PIECE, (4) BOLT DESIGN	ADJUSTABLE WITHOUT REMOVING HANDLE	STAINLESS STEEL	STAINLESS STEEL	REINFORCED TEFLON	250 PSI STEAM SERVICE	THREADED ENDS
HIGH PRESSURE STEAM	GATE	3" AND UP	STEEL BODY	BOLTED BONNET OS & Y DESIGN	STEEL		TFE-ARAMID	CLASS 300	FLANGED CONNECTIONS, STAINLESS STEEL TRIM
GRAVITY CONDENSATE RETURN	BALL	1/2" TO 2 1/2"	CAST CARBON STEEL TWO PIECE, (4) BOLT DESIGN	ADJUSTABLE WITHOUT REMOVING HANDLE	STAINLESS STEEL	STAINLESS STEEL	REINFORCED TEFLON	250 PSI STEAM SERVICE	THREADED ENDS
GRAVITY CONDENSATE RETURN	GATE	3" AND UP	DUCTILE IRON	BOLTED BONNET OS & Y DESIGN	DUCTILE IRON		TFE-ARAMID	CLASS 150	FLANGED CONNECTIONS, STAINLESS STEEL TRIM
PUMPED CONDENSATE RETURN	BALL	1/2" TO 2 1/2"	CAST CARBON STEEL TWO PIECE, (4) BOLT DESIGN	ADJUSTABLE WITHOUT REMOVING HANDLE	STAINLESS STEEL	STAINLESS STEEL	REINFORCED TEFLON	250 PSI STEAM SERVICE	THREADED ENDS
PUMPED CONDENSATE RETURN	GATE	3" AND UP	DUCTILE IRON	BOLTED BONNET OS & Y DESIGN	DUCTILE IRON		TFE-ARAMID	CLASS 150	FLANGED CONNECTIONS, STAINLESS STEEL TRIM
CONDENSER WATER	BUTTERFLY								
CHILLED WATER	BALL								
CHILLED WATER	BUTTERFLY								
HOT WATER	BALL								
HOT WATER	BUTTERFLY								

NOTES:
1. ALL GATE VALVES IN MECHANICAL SPACES LOCATED AT ELEVATIONS ABOVE 9'-0" SHALL BE PROVIDED WITH CHAIN OPERATOR.
2. BUTTERFLY VALVES IN SIZE 3" THROUGH 6" SHALL BE PROVIDED WITH LEVER OPERATOR.
3. BUTTERFLY VALVES IN SIZES ABOVE 6" SHALL BE PROVIDED WITH GEAR OPERATORS.

BALANCE VALVES

SYSTEM	MANUFACTURER	MODEL	SIZE	BODY MATERIAL	TRIM	PRESSURE RATING	REMARKS
DOMESTIC WATER	BELL & GOSSET	CB-F	2 1/2" THRU 3 1/2"	CAST IRON	BRASS BALL	175 PSIG	THREADED ENDS
HOT WATER	BELL & GOSSET	CB-F	2 1/2" THRU 3 1/2"	CAST IRON	BRASS BALL	175 PSIG	THREADED ENDS
CHILLED WATER	BELL & GOSSET	CB-F	4" THRU 12"	FLANGED CAST IRON	BRASS DISC STAINLESS STEEL VALVE	175 PSIG	FLANGED ENDS
DOMESTIC WATER	BELL & GOSSET	CB	1 1/4" - 2"	BRONZE	.	.	.
CHILLED WATER	BELL & GOSSET	CB	1 1/4" - 2"	BRONZE	.	.	.
HOT WATER							

NOTES:
1. NO EQUIVALENTS ACCEPTED.

CHECK VALVE SCHEDULE

SYSTEM CHECK VALVES	TYPE	SIZE	BODY MATERIAL	CAP DESIGN	DISC MATERIAL	PRESSURE RATING AT 350°F	REMARKS
DOMESTIC WATER	"Y" PATTERN SWING CHECK	1/2" TO 2 1/2"	BRONZE, B-62 BRONZE	THREADED	BRONZE	CLASS 150	THREADED ENDS
HEATING HOT WATER	"Y" PATTERN SWING CHECK	1/2" TO 2 1/2"	BRONZE, B-62 BRONZE	THREADED	BRONZE	CLASS 150	THREADED ENDS
HEATING HOT WATER	FLANGE	3" AND UP	STEEL	NA	STAINLESS STEEL	CLASS 150	
COOLING CHILLED WATER	"Y" PATTERN SWING CHECK	1/2" TO 2 1/2"	BRONZE, B-62 BRONZE	THREADED	BRONZE	CLASS 150	THREADED ENDS
COOLING CHILLED WATER	FLANGE	3" AND UP	STEEL	NA	STAINLESS STEEL	CLASS 150	
CONDENSER WATER	FLANGE	3" AND UP	STEEL	NA	STAINLESS STEEL	CLASS 150	
GRAVITY CONDENSATE RETURN	STRAIGHT PATTERN SPRING LOADED	1/2" TO 2 1/2"	STAINLESS STEEL	THREADED	STAINLESS STEEL	250 PSI	THREADED ENDS, 1
GRAVITY CONDENSATE RETURN	STRAIGHT PATTERN SPRING LOADED	3" AND UP	STAINLESS STEEL	THREADED	STAINLESS STEEL	250 PSI	WAFFER STYLE
PUMPED CONDENSATE RETURN	STRAIGHT PATTERN SPRING LOADED	1/2" TO 2 1/2"	STAINLESS STEEL	THREADED	STAINLESS STEEL	250 PSI	THREADED ENDS, 1
PUMPED CONDENSATE RETURN	STRAIGHT PATTERN SPRING LOADED	3" AND UP	STAINLESS STEEL	THREADED	STAINLESS STEEL	250 PSI	WAFFER STYLE

REMARKS:
1. DURABLE OR IFC NO OTHER EQUIVALENTS ACCEPTED.

MAKE-UP AIR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	LOCATION	CFM	ESP	TST	HEATING	STEAM FLOW	EAT/LAT	ELECTRICAL CHARACTERISTICS	REMARKS
MUA B-1	GREENHECK	MSX-115-H22	BOILER ROOM	5600	.5"	.84	404.5 MBH	422#/HR	1/67	460 VAC 3PH., 3 HP.	.
MUA B-2	GREENHECK	MSX-115-H22	BOILER ROOM	5600	.5"	.84	404.5 MBH	422#/HR	1/67	460 VAC 3PH., 3 HP.	.
MUA B-3	GREENHECK	MSX-115-H22	BOILER ROOM	5600	.5"	.84	404.5 MBH	422#/HR	1/67	460 VAC 3PH., 3 HP.	.
MUA C-1	GREENHECK	MSX-115-H22	CHILLER ROOM	5600	.5"	.84	404.5 MBH	422#/HR	1/67	460 VAC 3PH., 3 HP.	.
MUA S-1	GREENHECK	MSX-118-H32	SHOP	7000	.	.	516.5 MBH	538#/HR	1/69	460 VAC 3PH., 3 HP.	.
.	.	.		.	.	.	.	.	.	.	.

NOTES:
1. PROVIDE DISTRIBUTING STEAM COIL.
2. STEAM PRESSURE 5 PSIG.

STEAM PRESSURE REDUCING STATION SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	INLET PRESSURE	OUTLET PRESSURE	REQUIRED CAPACITY (#/HR)	REMARKS
PRV-1	LESLIE	GPKP-3"	80 PSI	8 PSI	6180#/HR	125# FLANGES
PRV-2	LESLIE	GPKP-3"	80 PSI	10 PSI	6180#/HR	125# FLANGES
PRV-3	LESLIE	GPKP-1 1/2"	80 PSI	12 PSI	3090#/HR	125# FLANGES

NOTES:
1. VALVES SHALL BE PILOT ACTIVATED.

RELIEF VALVE SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	CAPACITY AT RELIEF SETTING	RELIEF SETTING	ORIFICE	DISCHARGE LINE FROM DRIP PAN ELL	REMARKS
RV-1	KNUCKLE	6252	13550	25 PSIG	"P" - 4"x6"	8"	PROVIDE DRIP PAN ELL
RV-2	KNUCKLE	6252	13550	25 PSIG	"P" - 4"x6"	8"	PROVIDE DRIP PAN ELL
RV-3	KNUCKLE	6252	9217	25 PSIG	"N" - 4"x6"	8"	PROVIDE DRIP PAN ELL

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LSA PROJECT NO. 1402032

KANSAS LICENSED PROFESSIONAL ENGINEER 10530 — 4-15-15

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and
Property Management
800 SW Jackson, Suite 700
Topeka, Kansas 66612-1216
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 17300-00038
DRAWN BY: CAD CHECKED BY: WRB REV: WRB
DATE: 4-15-15

MECHANICAL SCHEDULES

A-012651

ME201

CONSTRUCTION DOCUMENTS

JCSBC
2-2-2016
Att.9C--0068

J:\MEDIT_00_03_04_Mechanical Schedules.dwg 96 04/15/15 CDT CDT EAN EAN EAN

PIPING MATERIAL SCHEDULE

SYSTEM	PIPING						FITTINGS		MAXIMUM WORKING		MAXIMUM WORKING	
	SIZE	TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP (°F)	HYDRO STATIC PRESSURE (PSI)	TIME
HIGH PRESSURE STEAM	2" – 8"	ERW	40	–	A-53	CS BLK	CS	W	120	350	200	1 HR
LOW PRESSURE STEAM	1 1/2" – 2"	SL	40	–	A-53	CS BLK	CS	T	15	235	50	1 HR
LOW PRESSURE STEAM	2 1/2" – 8"	ERW	40	–	A-53	CS BLK	CS	W	15	235	50	1 HR
RELIEF VENT	1 1/2" – 2"	SL	40	–	A-53	CS BLK	CS	T	125	350	200	1 HR
RELIEF VENT	2" – 8"	ERW	40	–	A-53	CS BLK	CS	W	125	350	200	1 HR
STEAM CONDENSATE RETURN	1 1/2 – 2"	SL	80	–	A-53	CS BLK	CS	T	50	300	100	1 HR
STEAM CONDENSATE RETURN	2 1/2" – 6"	ERW	80	–	A-53	CS BLK	CS	W	50	300	100	1 HR
DRAIN PIPING	1/2" – 2 1/2"	L	–	–	B-88	CP	CP	SJ	0	200	15	1 HR
DRAIN PIPING	3" AND UP	L	–	–	B-88	CP	CP	V	0	200	15	1 HR
DOMESTIC COLD WATER	1/2"–6"	L	–	–	B-88	CP	CP	SJ	85	40 TO 65	150	1 HR
DOMESTIC HOT WATER	1/2"–6"	L	–	–	B-88	CP	CP	SJ	85	40 TO 65	150	1 HR
COMPRESSED AIR	1/2"–2 1/2"	L	–	–	B-88	CP	CP	B	150	80	175	1 HR
COMPRESSED AIR	3"–4"	ERW	40	–	A-53	CS	CS	W	150	80	175	1 HR
NATURAL GAS	ALL	ERW	40	–	A-53	CS	CS	W	10 PSIG	90	100	1 HR
HOT WATER	1/2"–2 1/2"	L	–	–	B-88	CP	CP	SJ	150	180	200	1 HR
HOT WATER	3" AND ABOVE	ERW	40	–	A-53	CS	CS	W	150	180	200	1 HR
CHILLED WATER	1/2"–2 1/2"	L	–	–	B-88	CP	CP	SJ	150	55	200	1 HR
CHILLED WATER	3" AND ABOVE	ERW	40	–	A-53	CS	CS	W	150	55	200	1 HR
CONDENSER WATER	5" AND ABOVE	CPVC	80	–	A-53	CPVC	CPVC	SW	75	95	150	1 HR

ABBREVIATIONS:

ACR – AIR CONDITIONING REFRIGERANT	ERW – ELECTRIC RESISTANT WELD	NH – NO HUB	SL – SEAMLESS
BLK – BLACK	F – FUSION WELD	P (PVC) – POLYVINYL CHLORIDE	SS – SILVER SOLDER
BS – BELL AND SPIGOT	GLV – GALVANIZED	PC – ROLLED GROOVED PIPE COUPLING	SV – SERVICE WEIGHT
CI – CAST IRON	MECH – MECHANICAL	PE – POLYETHYLENE	SW – SOLVENT WELD
CP – COPPER	MI – MALLEABLE IRON	PP – POLYPROPYLENE	T – THREADED
CS – CARBON STEEL	MJ – MECHANICAL JOINT	S – SOCKET JOINT	V – VICTUALIC
DI – DUCTILE IRON	NG – NEOPRENE GASKET	SJ – SOLDER JOINT 95-5 TIN-ANTIMONY	W – WELDED

NOTES:
1. "T" DRILL COPPER "TEES" WILL NOT BE PERMITTED.
2. "WELD-O-LETS" AND "THREAD-O-LETS" CAN BE USED FOR PIPING TAKE OFFS PROVIDED THE BRANCH LINE FOR WHICH EACH IS USED IS A MAXIMUM SIZE OF 1.
3. PIPE SIZE SMALLER THEN 1/2 OF THE MAIN SIZE OF WHICH IT CONNECTS.
4. THE OWNER RESERVES THE RIGHT TO "X-RAY" ANY WELD PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR AND WELD THAT FAILS TO PASS THE "X-RAY" PROCESS WITH NO ADDITIONAL COST TO THE OWNER. COST ASSOCIATED WITH X-RAY OF THE WELD AFTER REPAIRS HAVE BEEN MADE, TO PROVIDE THE ACCEPTABILITY OF THE WELD, SHALL BE BY THE CONTRACTOR.
5. ALL PIPING SHALL PASS PRESSURE TESTING PRIOR TO THE INSTALLATION OF INSULATION.
6. ALL FLANGES IN COPPER PIPING SYSTEMS SHALL BE RATED MINIMUM 150 PSI. NORMAL WORKING PRESSURE.
7. PIPE FLANGE GASKETS
   a. GASKETS FOR STEAM, STEAM CONDENSATE RETURN SHALL BE SPIRAL WOUND AS MANUFACTURED BY "FLEXITALLICTAULIC".
   b. GASKETS FOR CHILLED WATER AND HOT WATER SYSTEMS SHALL BE FULL FACE ASBESTOS FREE TYPE.
8. ALL GASKETS SHALL BE SPIRAL WOUND AND SHALL BE MANUFACTURED BY FLEXITALLIC.
9. ALL PIPE NIPPLES IN STEEL PIPING SHALL BE SCHEDULE 80 STEEL.

PIPING INSULATION SCHEDULE

SYSTEM	SIZE	TYPE	THICKNESS	JACKET	REMARKS
DOMESTIC COLD WATER	1/2" THRU 1"	1-PHC	1/2"	ASJ	–
DOMESTIC COLD WATER	1 1/4" THRU 2"	1-PHC	1/2"	ASJ	–
DOMESTIC COLD WATER	2 1/2" AND UP	1-PHC	1/2"	ASJ	–
CONDENSATE DRAIN	ALL SIZES	1-PHC	1/2"	ASJ	–
HEATING HOT WATER	1/2" – 3 1/2"	1-PHC	1"	ASJ	–
HEATING HOT WATER	4" AND UP	1-PHC	1 1/2"	ASJ	–
COOLING CHILLED WATER	1/2" – 1 1/4"	1-PHC	1/2"	ASJ	–
COOLING CHILLED WATER	1 1/2" – 4"	1-PHC	1"	ASJ	–
COOLING CHILLED WATER	5" AND UP	1-PHC	1 1/2"	ASJ	–
AIR SEPARATORS	–	1-EC	3/4"	–	1
STRAINERS	–	1-EC	3/4"	–	1
EXPANSION TANKS	–	1-EC	3/4"	–	1
DOMESTIC COLD WATER AND CHILLED WATER SYSTEM VALVES	–	1-EC	3/4"	–	1
HIGH PRESSURE STEAM	6" AND UP	1-PHC	3 1/2"	ASJ	1
HIGH PRESSURE STEAM	4"	1-PHC	2 1/2"	ASJ	2
CONDENSATE RETURN	4"	1-PHC	2"	ASJ	2
CONDENSATE RETURN	3"	1-PHC	2"	ASJ	2
CONDENSATE RETURN	2"	1-PHC	1 1/2"	ASJ	2
HOT WATER					

NOTES:
1. DURABLE OR IFC NO OTHER EQUIVALENTS ACCEPTED.

ABBREVIATIONS:
1-EC = FLEXIBLE CELLULAR FOAM, SHEET STOCK
1-PCH = PRE-MOLDED FIBERGLASS PIPE INSULATION.
ASJ = ALL SERVICE JACKET.

REMARKS:
1. PROVIDE WHITE LACQUER PAINT FINISH.
2. PROVIDE 0.016" THICK ALUMINUM INSULATION JACKETING ON ALL STEAM AND CONDENSATE PIPING IN TUNNEL.

GRILLES, REGISTERS AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	APPLICATION	DESCRIPTION	FINISH
Ⓐ	PRICE TBDI4100	LINEAR SLOT-SUPPLY	24" (1) 1" SLOTS 1-WAY BLOW 8" HIGH INSULATED PLENUM	OFF WHITE
Ⓑ	PRICE TBDI4100	LINEAR SLOT-SUPPLY	48" (2) 1" SLOTS 2-WAY BLOW 8" HIGH INSULATED PLENUM	OFF WHITE
Ⓒ	PRICE TBDI4100	LINEAR SLOT-SUPPLY	48" (2) 1" SLOT 2-WAY BLOW 11" HIGH INSULATED PLENUM	OFF WHITE
Ⓓ	PRICE TBDI4100	LINEAR SLOT-SUPPLY	24" (2) 1" SLOTS 2-WAY BLOW 11" HIGH INSULATED PLENUM	OFF WHITE
Ⓔ	PRICE TBDI4100	LINEAR SLOT-SUPPLY	48" (4) 1" SLOTS 2-WAY BLOW 11" HIGH INSULATED PLENUM	OFF WHITE
Ⓕ	PRICE SMD/3P/SR	SQUARE LOUVERED FACE SUPPLY	24"x24" CEILING PANEL WITH DROP-IN SQUARE DIFFUSER AND SQUARE-TO-ROUND ADAPTOR	OFF WHITE
Ⓖ	PRICE 535	LOUVERED RETURN	STEEL RETURN, 1/2" BLADE SPACING, NO SCREWHOLES	OFF WHITE
Ⓗ	PRICE 535	LOUVERED RETURN/EXHAUST	STEEL RETURN, 1/2" BLADE SPACING	OFF WHITE
Ⓙ	PRICE 96	RELIEF GRILLE	HEAVY DUTY GYM GRILLE 45° DEFLECTION, 3/4" BLADE SPACING	OFF WHITE
Ⓚ	PRICE 635	LOUVERED RETURN/EXHAUST	ALUMINUM RETURN, 1/2" BLADE SPACING	OFF WHITE
Ⓛ	PRICE 520	SUPPLY GRILLE	DOUBLE DEFLECTION, STEEL	OFF WHITE

FAN COIL UNIT SCHEDULE

MARK	MFR.	MODEL NUMBER	CFM	O/A CFM	ESP W.C.	TSP W.C.	FAN HP	COOLING CAPACITY							HEATING CAPACITY							ELECTRICAL VOLTS/PH	REMARKS
								EAT	LAT	TMBH	SMBH	GPM	EWT	WPD	ROWS	MBH	EAT	LAT	EWT	GPM	WPD	ROWS		
FCU-1	TRANE	FCDB04	295	–	.25	·	1/4	78/65	57	8.0	6.23	2.0	44	6.4	3	12.61	70	109	180	1.0	2.6	1	277V./1PH.	1–10
FCU-2	TRANE	FCDB04	295	–	.25	·	1/4	78/65	57	8.0	6.23	2.0	44	6.4	3	12.61	70	109	180	1.0	2.6	1	277V./1PH.	1–10
FCU-3	TRANE	FCDB08	560	–	.25	·	1/4	78/65	57	14.88	11.55	4.0	44	6.9	3	25.0	70	110	180	2.0	13.7	1	277V./1PH.	1–10
FCU-4	TRANE	FCDB08	560	–	.25	·	1/4	78/65	57	14.88	11.55	4.0	44	6.9	3	25.0	70	110	180	2.0	13.7	1	277V./1PH.	1–10
FCU-5	TRANE	FCDB08	560	–	.25	·	1/4	78/65	57	14.88	11.55	4.0	44	6.9	3	25.0	70	110	180	2.0	13.7	1	277V./1PH.	1–10
FCU-6	TRANE	FCDB020	190	–	.25	·	1/4	78/65	57	4.77	3.84	1.25	44	2.45	3	8.5	70	111	180	.75	1.35	1	277V./1PH.	1–10
FCU-7	TRANE	FCDB04	295	–	.25	·	1/4	78/65	57	8.0	6.23	2.0	44	6.4	3	12.61	70	109	180	1.0	2.6	1	277V./1PH.	1–10
FCU-8	TRANE	FCDB030	235	–	.25	·	1/4	78/65	57	5.66	4.59	1.5	44	3.4	3	10.12	70	109	180	1.0	2.2	1	277V./1PH.	1–10
FCU-9	TRANE	FCDB030	235	–	.25	·	1/4	78/65	57	5.66	4.59	1.5	44	3.4	3	10.12	70	109	180	2.0	2.2	1	277V./1PH.	1–10
FCU-10	TRANE	FCDB08	560	–	.25	·	1/4	78/65	57	14.88	11.55	4.0	44	6.9	3	25.0	70	110	180	1.0	13.7	1	277V./1PH.	1–10
FCU-11	TRANE	FCDB030	235	–	.25	·	1/4	78/65	57	5.66	4.59	1.5	44	3.4	3	10.12	70	109	180	1.0	2.2	1	277V./1PH.	1–10
FCU-12	TRANE	FCDB030	235	–	.25	·	1/4	78/65	57	5.66	4.59	1.5	44	3.4	3	10.12	70	109	180	1.0	2.2	1	277V./1PH.	1–10
FCU-13	TRANE	FCDB030	235	–	.25	·	1/4	78/65	57	5.66	4.59	1.5	44	3.4	3	10.12	70	109	180	1.0	2.2	1	277V./1PH.	1–10
FCU-14	TRANE	FCDB030	235	–	.25	·	1/4	78/65	57	5.66	4.59	1.5	44	3.4	3	10.12	70	109	180	1.0	2.2	1	277V./1PH.	1–10
FCU-15	TRANE	FCDB04	295	–	.25	·	1/4	78/65	57	5.66	6.23	2.0	44	6.4	3	12.61	70	109	180	1.0	2.6	1	277V./1PH.	1–10
FCU-16	TRANE	FCDB030	235	–	.25	·	1/4	78/65	57	5.66	4.59	1.5	44	3.4	3	10.12	70	109	180	1.0	2.2	1	277V./1PH.	1–10
FCU-17	TRANE	FCDB08	560	–	.25	·	1/4	78/65	57	14.88	11.55	4.0	44	6.9	3	25.0	70	110	180	2.0	13.7	1	277V./1PH.	1–10
FCU-18	TRANE	FCDB030	235	–	.25	·	1/4	78/65	57	5.66	4.59	1.5	44	3.4	3	10.12	70	109	180	1.0	2.2	1	277V./1PH.	1–10

REMARKS:
1. HORIZONTAL CABINET.
2. BOTTOM STAMPED RETURN LOUVER.
3. FRONT BAR GRILLE SUPPLY.
4. ECM FAN MOTOR.
5. MANUAL AIR VENT.
6. 1" MERV 8 FILTER.
7. 277V. 1PH. OPERATION.
8. PIPING BY CONTRACTOR.
9. CONTROL VALVE BY ATC.
10. STAINLESS STEEL DRAIN PAN.

VAV TERMINAL UNIT SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	SIZE		COOLING CFM		HOT WATER REHEAT COIL									ELEC	REMARKS
			INLET	OUTLET	MAX	MIN	HEATING CFM	HEAT MBH	EAT	LAT	MAX AIR ΔP	GPM	EWT	LWT	WATER ΔP	ROWS	
V1	PRICE	SDV5	4"	12"x8"	130	60	65	3.8	55	107.1	0.02	0.5	180	164.5	0.15	1	277/1	1–3
V2	PRICE	SDV5	5"	12"x8"	140	65	70	4.0	55	105.5	0.02	0.5	180	163.8	0.15	1	277/1	1–3
V3	PRICE	SDV5	4"	12"x8"	130	60	65	3.8	55	107.1	0.02	0.5	180	164.5	0.15	1	277/1	1–3
V4	PRICE	SDV5	5"	12"x8"	280	65	130	6.2	55	97.6	0.08	1.0	180	167.3	0.45	1	277/1	1–3
V5	PRICE	SDV5	5"	12"x8"	165	65	100	4.8	55	97.9	0.03	0.5	180	160.3	0.15	1	277/1	1–3
V6	PRICE	SDV5	4"	12"x8"	180	60	90	4.5	55	100.1	0.04	0.5	180	161.4	0.15	1	277/1	1–3
V7	PRICE	SDV5	6"	12"x8"	340	70	170	7.7	55	95.7	0.11	2.0	180	172.1	1.35	1	277/1	1–3
V8	PRICE	SDV5	5"	12"x8"	165	65	100	4.8	55	97.9	0.03	0.5	180	160.3	0.15	1	277/1	1–3
V9	PRICE	SDV5	5"	12"x8"	165	65	100	4.8	55	97.9	0.03	0.5	180	160.3	0.15	1	277/1	1–3
V10	PRICE	SDV5	14"	20"x17.5"	1410	440	800	55.3	55	116.9	0.27	4.0	180	151.7	2.21	2	277/1	1–3
V11	PRICE	SDV5	7"	12"x10"	480	100	240	17.9	55	121.9	0.26	2.0	180	161.6	0.79	2	277/1	1–3
V12	PRICE	SDV5	5"	12"x8"	210	100	105	4.9	55	96.9	0.05	0.5	180	159.8	0.15	1	277/1	1–3
V13	PRICE	SDV5	5"	12"x8"	175	65	90	4.5	55	100.1	0.03	0.5	180	161.4	0.15	1	277/1	1–3
V14	PRICE	SDV5	5"	12"x8"	100	65	65	3.8	55	107.1	0.01	0.5	180	164.5	0.15	1	277/1	1–3
V15	PRICE	SDV5	5"	12"x8"	120	65	65	3.8	55	107.1	0.02	0.5	180	164.5	0.15	1	277/1	1–3
V16	PRICE	SDV5	6"	12"x8"	370	70	200	14.0	55	117.5	0.28	1.5	180	160.9	0.40	2	277/1	1–3
V17	PRICE	SDV5	4"	12"x8"	130	60	65	3.8	55	107.1	0.02	0.5	180	164.5	0.15	1	277/1	1–3
V18	PRICE	SDV5	5"	12"x8"	240	65	220	14.7	55	114.8	0.13	1.5	180	159.9	0.40	2	277/1	1–3
V19	PRICE	SDV5	6"	12"x8"	300	70	175	7.9	55	95.2	0.09	2.0	180	171.9	1.35	1	277/1	1–3
V20	PRICE	SDV5	6"	12"x8"	320	70	230	15.0	55	113.6	0.21	1.5	180	159.4	0.40	2	277/1	1–3
V21	PRICE	SDV5	6"	12"x8"	350	70	175	7.9	55	95.2	0.12	2.0	180	171.9	1.35	1	277/1	1–3
V22	PRICE	SDV5	5"	12"x8"	150	65	110	5.0	55	96.0	0.03	0.5	180	159.4	0.15	1	277/1	1–3
V23	PRICE	SDV5	5"	12"x8"	150	65	110	5.0	55	96.0	0.03	0.5	180	159.4	0.15	1	277/1	1–3
V24	PRICE	SDV5	5"	12"x8"	180	60	90	4.9	55	100.1	0.03	0.5	180	161.4	0.15	1	277/1	1–3
V25	PRICE	SDV5	5"	12"x8"	150	65	110	5.0	55	96.0	0.03	0.5	180	159.4	0.15	1	277/1	1–3

REMARKS:
1. FIBER FREE ACOUSTICAL LINER.
2. BOX MANUFACTURER SHALL ACCEPT THE DDC CONTROLS FROM THE CONTROLS MANUFACTURER FOR FACTORY-MOUNTING AND WIRING PRIOR TO SHIPMENT OF THE BOXES.
3. PROVIDE 27724VAC TRANSFORMER.

DATA ROOM COOLING UNITS

MARK	MANUFACTURER	MODEL NUMBER		COOLING CAPACITY		ELECTRICAL CHARACTERISTICS		REFRIGERANT PIPE SIZE		PHYSICAL SIZE AND WT		MANUFACTURER
		INDOOR	OUTDOOR	TOTAL	SENSIBLE	INDOOR	OUTDOOR	LIQUID	GAS	INDOOR	OUTDOOR	
CRAC-1	MITSUBISHI	MSZ-FH15NA	MUZ-15NA	19000 BTUH	13300 BTUH	1.0A., 208VAC, 1PH.	16A., 208VAC, 1PH. MOCP = 20A.	1/4"	1/2"	36 7/16"x9 3/16"x12 11/16" 29#	33 1/16"x13"x34 5/8" 124#	PROVIDE INTERNET GATEWAY
CRAC-2	MITSUBISHI	MSZ-FH15NA	MUZ-15NA	19000 BTUH	13300 BTUH	1.0A., 208VAC, 1PH.	16A., 208VAC, 1PH. MOCP = 20A.	1/4"	1/2"	36 7/16"x9 3/16"x12 11/16" 29#	33 1/16"x13"x34 5/8" 124#	PROVIDE INTERNET GATEWAY
EEAC-1	MITSUBISHI	MSZ-FH09NA	MUZ-09NA	9000 BTUH	6480 BTUH	1.0A., 208VAC, 1PH.	12A., 208VAC, 1PH. MOCP = 15A.	1/4"	3/8"	31 3/8"x10 1/8"x11 5/8" 27#	31 1/2"x11 1/4"x 21 5/8" 80#	PROVIDE INTERNET GATEWAY

COOLING TOWER

MARK	MANUFACTURER	MODEL NUMBER	PERFORMANCE CONDITIONS	ELECTRICAL CHARACTERISTICS	DIMENSIONS	WEIGHTS OPERATING		CONTROL SYSTEMS	REMARKS
						PER CELL	TOTAL		
CT-1,2,3	SPX MARLEY	NC8403 RAN FACTORY ASSEMBLED (3) CELL CROSSFLOW COOLING TOWER	PER CELL 1144 GPM. TOTAL 3432 GPM.	(3) 25 HP (1) SPEED (1) WINDING MOTOR, 460 VAC, 3PH., INVERTER DUTY MOTOR	EACH CELL: 8'x4 3/4"x18'-2"x11'-11 1/4" HIGH PER 3 CELL TOWER: 31'-8"x18'-2"x15'-0 7/8" HIGH	17127	51381	MARLEY M-5-121-010 DPD1 MANUAL RESET VIBRATION CUT-OFF SWITCH	--

BASE TOWER CONSTRUCTION/EQUIPMENT:
GALVANIZED STEEL CASING.
GALVANIZED STEEL STRUCTURE.
STAINLESS STEEL COLLECTION BASIN. SERIES 300.
STAINLESS STEEL DISTRIBUTION BASIN. SERIES 300.
LOW SOUND FAN WITH ALUMINUM BLADES.
GEAREDUCER WITH 5 YEAR WARRANTY.
15 MIL. PVC FILM WITH INTEGRAL LOUVERS AND DRIFT ELIMINATORS.
DRIFT RATE GUARANTEED TO BE NO GREATER THAN .005% OF THE DESIGN FLOW RATE.
CTI CERTIFICATION PER STD-201.
FACTORY MUTUAL APPROVAL, INCLUDING FILL PACK PARTITION.
35 IN. FAN CYLINDER EXTENSION.
HDG STEEL FAN GUARD.

COLLECTION BASIN CONNECTIONS AND ACCESSORIES:
ALL FLANGES ARE TO CLASS 125 ANSI B16.1 STANDARD.
ALL THREADS ARE TO AMERICAN STANDARD PIPE TAPER THREAD.
(2) 8 IN. (203 MM) DIAMETER DEPRESSED SIDE SUMP OUTLET(S) WITH TRASH SCREEN(S) PER TOWER.

DISTRIBUTION BASIN INLET AND ACCESSORIES:
(1) SELF-BALANCING 8 IN. (203 MM) DIAMETER PVC BOTTOM INLET CONNECTION PER CELL.
ALL INTERNAL PIPING IS PVC. EXTERNAL PIPING IS PVC.

MAINTENANCE AND MAINTENANCE ACCESS FEATURES:
TOWER DESIGN IN ACCORDANCE WITH OSHA SAFETY STANDARDS WITH SAFE ACCESS ON THE FAN DECK WHILE THE FAN IS STILL OPERATING.
EXTERNAL LUBE WITH DIPSTICK.
FULL FACE HORIZONTALLY MOUNTED AIR INLET SCREENS.
LARGE ACCESS DOOR LOCATED ON EACH ENDWALL.
(1) ACCESS DOOR PLATFORM.
STAINLESS STEEL PLENUM WALKWAY IN EACH CELL.
FAN DECK EXTENSION.
PERIMETER GUARDRAIL, KNEERAIL AND TOEBOARD.
(1) CASED FACE LADDER.
LADDER(S) EXTEND 60 IN. BELOW BASE OF TOWER.
LADDER SAFETY CAGE(S).
SELF CLOSING SAFETY GATE(S) INCLUDED AT THE TOP OF THE ACCESS LADDER(S).

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ALL PAGES SHALL BEAR THIS EXPIRATION DATE UNLESS DIGITALLY SIGNED
10530
4-15-15

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15
-

HTK PROJECT NUMBER:
- 1410.03

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Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 1730000038
DRAWN BY: CAD
CHECKED BY: WRB
REV: WRB
DATE: 4-15-15

MECHANICAL SCHEDULES

A-012651

ME202

CONSTRUCTION DOCUMENTS

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HIGH PRESSURE STEAM BOILERS

MARK	MANUFACTURER	MODEL NUMBER	DESIGN	SIZE	TOTAL HEATING SURFACE	STEAM STORAGE	DESIGN PRESSURE	OPERATING WEIGHT	STEAM NOZZLE SIZE	BURNER						REMARKS
										MANUFACTURER	MODEL NO.	BURNER RATING	GAS INPUT	#2 FUEL OIL RATE	ELECTRICAL CHARACTERISTICS	
B-1	JOHNSON	PFTX 400-4	4 PASS WATER BACK HIGH PRESSURE STEAM BOILER WITH CORRUGATED FIRE TUBE.	400 HORSEPOWER	2026 SQ FT	74.8 CU FT	150 PSIG	46,000#	8"	LIMPSFIELD	LCNO53P	16.8 MuBTU	16,800 CFH	131.31 GAL/HR	25HP, 460VAC., 3PH.	1, 2
B-2	JOHNSON	PFTX 400-4	4 PASS WATER BACK HIGH PRESSURE STEAM BOILER WITH CORRUGATED FIRE TUBE.	400 HORSEPOWER	2026 SQ FT	74.8 CU FT	150 PSIG	46,000#	8"	LIMPSFIELD	LCNO53P	16.8 MuBTU	16,800 CFH	131.31 GAL/HR	25HP, 460VAC., 3PH.	1, 2
B-3	JOHNSON	PFTX 400-4	4 PASS WATER BACK HIGH PRESSURE STEAM BOILER WITH CORRUGATED FIRE TUBE.	400 HORSEPOWER	2026 SQ FT	74.8 CU FT	150 PSIG	46,000#	8"	LIMPSFIELD	LCNO53P	16.8 MuBTU	16,800 CFH	131.31 GAL/HR	25HP, 460VAC., 3PH.	1, 2

REMARKS:
1. PROVIDE WITH STAND-BY PRE-HEATER CLOSED PIPE WITH ALL REQUIRED VALVES. PIPE FITTING ETC. AND TRAP-DISCHARGED TO SURGE TANK. FULL AND COMPLETE OPERATING SYSTEM.
2. PROVIDE 5" ASME ANGLE STOP CHECK. ASME SPOOL PIECES ARE DETAILED ON DRAWINGS AND ASME OS&Y GATE VALVE.

SURGE TANK

MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	TANK	ACCESSORIES	PUMPS - TWO (2) REQUIRED						REMARKS
						GPM	TDH	# STAGES	CONSTRUCTION	ELECTRICAL CHARACTERISTICS	PUMP ACCESSORIES	
ST-1	BFS INDUSTRIES	G202855-5	DUPLEX SURGE TANK WITH 800 GALLON STAINLESS STEEL TANK ON 8' HIGH STRUCTURAL SUPPORT STAND WITH RECIRCULATION PIPING COMPLETE WITH ISOLATION GATE VALVES, CHECK VALVES AND ORIFICES.	800 GAL 304SS 42" DIAMETER 120" LONG	ELECTRIC WATER INLET CONTROL VALVE DP LEVEL TRANSMITTER. FOXBORO IDP10 WATER GLASS LEVEL GAUGE WITH PIPING WATER STORAGE THERMOMETER. HIGH WATER LEVEL ALARM SWITCH MM64. LOW WATER LEVEL ALARM/LOW LEVEL PUMP CUT OFF SWITCH MM64. TEMPERATURE TRANSMITTER FOXBORO.	120	92'	2	STAINLESS STEEL FITTED	5HP, 460VAC., 3PH., 3500 RPM	GATE ISOLATION VALVES. EXPANSION COUPLINGS. Y TYPE STRAINERS. DISCHARGE PRESSURE GAUGES. PRESSURE TRANSMITTER FOXBORO.	CONTROL PANEL - UL APPROVED AND LABELED IN NEMA 1 ENCLOSURE. (2) VFD'S, ONE FOR EACH PUMP WITH 3 PHASE PROTECTION, ON/OFF SWITCH FUSE BLOCK WITH FUSES. RUNNING LIGHTS. DISCONNECT WITH EXTERNAL OPERATOR CONTROL CIRCUIT TRANSFORMER . LOW WATER PUMP CUT-OFF. HIGH LOW LEVEL ALARM SYSTEM. HIGH LEVEL LIGHT. LOW LEVEL LIGHT. HORN. SILENCING SWITCH. PLC SHALL BE A B COMPACT LOGIX WITH PANELVIEW.

DEAERATOR

MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	STORAGE TANK	ACCESSORIES	PUMPS - TWO (2) REQUIRED						REMARKS
						GPM	TDH	# STAGES	CONSTRUCTION	ELECTRICAL CHARACTERISTICS	PUMP ACCESSORIES	
DA-1	BFS INDUSTRIES	#40MS-130 DUPLEX ZER-O-PAC	40,000 #/UR SPRAY TYPE DA UNIT WITH CAPACITY OF 1,024 GALLONS. (2) PUMPS ON 8' STRUCTURAL SUPPORT STAND. PUMP DISCHARGE PRESSURE OF 130 PSIG WITH RECIRCULATION PIPING COMPLETE WITH ISOLATION GATE VALVES, CHECK VALVES AND ORIFICES.	ASME STAMPED 50 PSIG 60"DIA.x128"LONG	(1) ELECTRIC WATER INLET CONTROL VALVE. (1) DP LEVEL TRANSMITTER; FOXBORO IDP10. (1) OVERFLOW TRAP SIZED TO PASS THE RATED CAPACITY OF FLASHING WATER AT DEAERATOR OPERATING PRESSURE. (1) ELECTRIC STEAM INLET PRESSURE REDUCING VALVE. (1) PRESSURE TRANSMITTER; FOXBORO IGP10. (1) RELIEF VALVES-CAPACITY GREATER THAN MAX. CAPACITY OF PRV AND SET AT 50 PSIG. (1) SET SAFETY TYPE WATER GLASS GAUGE. (1) WATER INLET PRESSURE GAUGE WITH PIGTAIL. (1) STEAM PRESSURE GAUGE WITH PIGTAIL. (1) STORAGE SECTION THERMOMETER. (1) MANUAL VENT VALVE. (1) VACUUM BREAKER. (1) HIGH LEVEL ALARM SWITCH; MM 64. (1) LOW LEVEL ALARM/LOW LEVEL PUMP CUT-OFF SWITCH; MM 64. (1) 304 SS CHEMICAL INJECTION QUILL. (1) TEMPERATURE TRANSMITTER, FOXBORO.	120	315'	6	STAINLESS STEEL FITTED	15HP, 460VAC., 3PH., 3500 RPM.	GATE VALVES. EXPANSION COUPLINGS. Y TYPE STRAINERS. DISCHARGE PRESSURE GAUGES. PRESSURE TRANSMITTER FOXBORO.	CONTROL PANEL - UL APPROVED AND LABELED IN NEMA 1 ENCLOSURE. (2) VFD CONTACTORS MAGNETIC ACROSSOTHE-LINE STARTERS, EACH HAVING: 3-PHASE PROTECTION ON/OFF SWITCH FUSE BLOCK WITH FUSES RUNNING LIGHT DISCONNECT SWITCH WITH EXTERNAL OPERATOR (1) CONTROL CIRCUIT TRANSFORMER. (1) LOW WATER PUMP CUT OFF. (1) HIGH/LOW LEVEL ALARM SYSTEM COMPLETE WITH HIGH LEVEL LIGHT, LOW LEVEL LIGHT, HORN, AND SILENCING SWITCH. (1) PLC; AB COMPACT LOGIX WITH PANELVIEW.

FUEL OIL PUMPING SYSTEM

MARK	MANUFACTURER	MODEL NUMBER	SERVICE	FLOW RATE	DISCHARGE PRESSURE	ELECTRICAL CHARACTERISTICS	ACCESSORIES	CONTROL PANEL	ALARMS	LOGIC CONTROL PANEL
FOP-1	CRITICAL FUEL SYSTEMS	LZ0780 DUPLEX ON INTEGRAL FORMED STEEL UNIT BASE WITH DRIP PAN	FUEL OIL	780 GPH/13 GPM.	50 PSIG	1HP, EACH PUMP 460VAC., 3PH.	(2) SIMPLEX INLET BASKET STRAINERS. (2) INLET FULL PORT BALL VALVES. (2) 2 1/2" SS CASE LIQUID FILLED COMPOUND GAUGE WITH SHUT OFF COCK. (2) EXTERNAL RELIEF VALVES. (2) OUTLET FULL PORT BALL VALVES. (2) CHECK VALVES. (1) 2 1/2" SS CASE LIQUID FILLED PRESSURE GAUGE WITH SHUT OFF COCK.	INTEGRAL MOUNTED ON SYSTEM BASE NEMA 4 ENCLOSURE. (2) FVNR MOTOR STARTERS. (2) RUNNING LIGHTS. (2) HOA SWITCHES. (2) FUSED DISCONNECT SWITCHES WITH EXTERNAL OPERATORS. (2) FUSE BLOCKS. (2) CONTROL CIRCUIT TRANSFORMER. (2) PUMP RUN TIME MONITORS.	SINGLE POINT ALARM SYSTEM WITH LIGHT AND HORN.	NEMA 4 ENCLOSURE. PLC WITH 6" TOUCHSCREEN. MOD BUS COMMUNICATION MODULE.

BLOW DOWN COOLER

MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	TANK	AFTERCOOLER	REMARKS
BDC-1	LATTNER	1800 WITH #625A AUTOMATIC AFTER COOLER	HEAVY DUTY ASME CODE STEAM BOILER BLOW DOWN SEPARATOR WITH AFTER COOLER AND CONTROL PANEL	UL STAMPED ASME CODE 150 PSIG AT 550°F WITH MOUNTING LEGS	AUTOMATIC AFTERCOOLER THAT TAKES DOMESTIC COLD WATER TO COOL BLOW DOWN EFFLUENT TO MAX OF 140°F	--

WATER SOFTENER

MARK	MANUFACTURER	MODEL NUMBER	CAPACITY	FLOW RATE	PEAK FLOW	TANK QUANTITY AND SIZE	BRINE TANK	CONTROLLERS	REMARKS
WS-1	WOOD BROS. IND	WB29T450-30	450,000 GRAINS	84 GPM	105 GPM	(2) 30" DIAMETER 72" TALL COMPOSITE	39"DIA.x48"POLY TANK	PROVIDE FLECK CONTROL VALVE	--

STEAM EXHAUST SILENCER

MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
ES-1	PENN	SP5-24-S	24" DIAMETER STEAM EXHAUST SILENCER WITH OVERALL LENGTH OF 6'-8". COMPLETE WITH INLET DIFFUSER, 150# ANSI FLANGE ON INLET WITH COMBINED ATTENUATION OF 26db.	--

CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	TOTAL CAPACITY	ELECTRICAL CHARACTERISTICS				REMARKS
				MCA	MOCP	VOLTAGE	PHASE	
CU-AHU-2	TRANE	4TTA3024	21 MBH	18A.	30A.	208/230	1	REFRIGERANT PIPE SIZING BY UNIT MANUFACTURER

AIR HANDLING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	TOTAL CFM	MIN. O/A CFM	TOTAL STATIC PRESSURE	EXTERNAL STATIC PRESSURE	ELECTRICAL CHARACTERISTICS	COOLING COIL									COOLING COIL									FILTERS	REMARKS
								TOTAL COOLING	SENSIBLE COOLING	EAT Db/Wb	LAT Db/Wb	GPM	AP AIR	EWT	LWT	AP WATER	TOTAL HEATING CAP	HEATING CFM	EAT	LAT	GPM	AP AIR	EWT	LWT	AP WATER		
AHU-1	TRANE	SIZE 12 PERFORMANCE CLIMATE CHANGER	6500	1950	4.0"	2.0"	7.5HP, 460 VAC, 3PH.	307.25 MBH	201.44 MBH	82.5/69	55.43/54	51	.75	42°F	54°F	6.9	282 MBH	6500	45°F	85°F	28.5	.13"	180	160	2.5	2" THICK MERV 8	PROVIDE INVERTER DUTY MOTOR
AHU-2	TRANE	BCVD SIZE 24	800	100	1.785"	.75"	1/2HP, 120 VAC, 1PH.	29.17 MBH	21.85 MBH	77.8/65	52.89/52.72	NA		NA	NA	NA	32.18 MBH	800	60°F	97.1°F	2.0	-	180	148	3.15	2" THICK MERV 8	VERTICAL CONFIGURATION COUNTER SWIRL FAN

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KANSAS LICENSED PROFESSIONAL ENGINEER 10530 4-15-15

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

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Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 1730000038
DATE: 4-15-15
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CHECKED BY: WRB
REV: WRB

MECHANICAL SCHEDULES

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ME203

CONSTRUCTION DOCUMENTS

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MARK	LOCATION	MANUFACTURER	MODEL NUMBER	EST/CFM	DESCRIPTION	ELECTRICAL CHARACTERISTICS	REMARKS
FSB-1	AEROVENT	24836618	.75"/7000	24"ø BELT DRIVE TUBE AXIAL FAN	2HP, 460 VAC., 3PH.	PROVIDE INVERTER DUTY MOTOR	
WE-1	AEROVENT	BSB401481052S	-	14"ø BELT DRIVE TUBE AXIAL FAN WITH BUTTERFLY DAMPER AND WIND BAND	3/4HP, 480 VAC., 3PH.	PROVIDE ELECTRONIC SPEED CONTROL	

WELDING AND PAINT SPRAY BOOTH EXHAUST

MARK	MANUFACTURER	MODEL NUMBER	CFM	SP	HP	ELECTRICAL CHARACTERISTICS	REMARKS
EF-1	GREENHECK	GB121-5	1210	.75	1/2	277V, 1 PH	2, 3, 4
EF-2	GREENHECK	G-097-B	100	.375	1/4	277V, 1 PH	1, 2, 3, 4
EF-3	GREENHECK	G-085-D	300	.375	1/20	277V, 1 PH	1, 2, 3, 4
EF-4	GREENHECK	G-097-B	130	.375	1/4	277V, 1 PH	1, 2, 3, 4
EF-5	GREENHECK	G-097-B	125	.5	1/4	277V, 1 PH	1, 2, 3, 4

EXHAUST FAN SCHEDULE

REMARKS:
1. SPEED DRIVE.
2. CURB
3. MOTORIZED BACKDRAFT DAMPER.
4. UNIT DISCONNECT.

MARK	LOCATION	MANUFACTURER	MODEL NUMBER	FLOW RATE	PRESSURE DROP	EWT/LWT	CAPACITY	STEAM LOAD	SIZE	REMARKS
HEAT X-1	MECHANICAL ROOM #123	BELL & GOSSETT	SU-8-3-2	80 GPM	0.4 FEET	160°F/180°F	781,766 BTU/HR	809/HR	85 1/8" DIAMETER 41 3/8" LONG	PROVIDE SUPPORT STAND
HEAT X-2	KSH-NW MECHANICAL VAULT	BELL & GOSSETT	QSU 14 6-2	450 GPM	1.8 FEET	150°F/180°F	6,604,355	6837/HR	14" DIAMETER 80 3/4" LONG	PROVIDE SUPPORT STAND

HEAT EXCHANGER SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL NUMBER	TYPE	FLOW	TOTAL DEVELOPED HEAD	ELECTRICAL CHARACTERISTICS	INVERTOR DUTY MOTOR	REMARKS
HWP-1	MECHANICAL ROOM #123	BELL & GOSSETT	SERIES E-1510	BASE MOUNTED END SUCTION	80 GPM	55'	3HP, 460VAC., 3PH., 1800 RPM	YES	PROVIDE "AEFIS" MOTOR SHAFT BEARING GROUDNING ASSEMBLY
HWP-2	MECHANICAL ROOM #123	BELL & GOSSETT	SERIES E-1510	BASE MOUNTED END SUCTION	80 GPM	55'	3HP, 460VAC., 3PH., 1800 RPM	YES	PROVIDE "AEFIS" MOTOR SHAFT BEARING GROUDNING ASSEMBLY
HWP-3	KSH-NW MECHANICAL VAULT	BELL & GOSSETT	SERIES E-1510 3GB	BASE MOUNTED END SUCTION	450 GPM	150'	30HP, 460VAC., 3PH., 1800 RPM	YES	PROVIDE "AEFIS" MOTOR SHAFT BEARING GROUDNING ASSEMBLY
HWP-4	KSH-NW MECHANICAL VAULT	BELL & GOSSETT	SERIES E-1510 3GB	BASE MOUNTED END SUCTION	450 GPM	150'	30HP, 460VAC., 3PH., 1800 RPM	YES	PROVIDE "AEFIS" MOTOR SHAFT BEARING GROUDNING ASSEMBLY
CWP-1	KSH-NW MECHANICAL VAULT	BELL & GOSSETT	SERIES E-1510 4GC	BASE MOUNTED END SUCTION	555 GPM	150'	40HP, 460VAC., 3PH., 1800 RPM	YES	PROVIDE "AEFIS" MOTOR SHAFT BEARING GROUDNING ASSEMBLY
CWP-2	KSH-NW MECHANICAL VAULT	BELL & GOSSETT	SERIES E-1510 4GC	BASE MOUNTED END SUCTION	555 GPM	150'	40HP, 460VAC., 3PH., 1800 RPM	YES	PROVIDE "AEFIS" MOTOR SHAFT BEARING GROUDNING ASSEMBLY
CONDENSER CP1	CHILLER ROOM #127	BELL & GOSSETT	MODEL VIT-CATM SIZE 12 CHC	VERTICAL TUBRIN 1 STAGE	1200 GPM	65'	30HP, 460VAC., 3PH., 1800 RPM	YES	PROVIDE "AEFIS" MOTOR SHAFT BEARING GROUDNING ASSEMBLY. REFER TO PLANS FOR BASIN DEPTH
CONDENSER CP2	CHILLER ROOM #127	BELL & GOSSETT	MODEL VIT-CATM SIZE 12 CHC	VERTICAL TUBRIN 1 STAGE	1200 GPM	65'	30HP, 460VAC., 3PH., 1800 RPM	YES	PROVIDE "AEFIS" MOTOR SHAFT BEARING GROUDNING ASSEMBLY. REFER TO PLANS FOR BASIN DEPTH
CONDENSER CP3	CHILLER ROOM #127	BELL & GOSSETT	MODEL VIT-CATM SIZE 12 CHC	VERTICAL TUBRIN 1 STAGE	1200 GPM	65'	30HP, 460VAC., 3PH., 1800 RPM	YES	PROVIDE "AEFIS" MOTOR SHAFT BEARING GROUDNING ASSEMBLY. REFER TO PLANS FOR BASIN DEPTH
BASIN FILTRATION FP4	CHILLER ROOM #127	BELL & GOSSETT	MODEL VIT-CATM SIZE 9 WAHC	VERTICAL TUBRIN 1 STAGE	270 GPM	65'	7 1/2HP, 460VAC., 3PH., 1800 RPM	YES	PROVIDE "AEFIS" MOTOR SHAFT BEARING GROUDNING ASSEMBLY. REFER TO PLANS FOR BASIN DEPTH

PUMP SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL NUMBER	RECEIVER TANK SIZE	RECEIVER TANK MATERIAL	GPM	DISCHARGE PRESSURE	ELECTRICAL CHARACTERISTICS	REMARKS
CRP-1	MECHANICAL ROOM #123	MESSPLAY MACHINERY CO.	CUSTOM	30"x30"x20" TALL WITH (1) 3" FLANGED RETURN	STAINLESS STEEL TYPE 304	12	57' THD	(2) GROUND FOS 1.25" MODEL SPK 4-15/3, 1/2HP, MOTOR 460 VAC, 3PH., WITH UNIT MOUNTED DISCONNECT SWITCH AND MOTOR STARTERS	1, 2, 3, 4, 5, 6

STEAM CONDENSATE RECEIVER SCHEDULE

REMARKS:
1. PROVIDE DUPLEX PUMPS WITH SQUARE D NEMA 1 #9038 MECHANICAL ALTERNATOR FLOAT AND ALARM CONTACTS. SWITCH WITH HIGH WATER ALARM CONTACTS.
2. PROVIDE WITH SINGLE POINT CONNECTION.
3. PROVIDE REMOTE NEMA 12 DUPLEX CONTROL PANEL WITH IEC STARTERS, FUSED DISCONNECT, 120V., CPT, HOA SWITCHES, RUN LIGHTS, ALARM LIGHT, ALARM HORN AND SILENCE BUTTON.
4. HIGH WATER ALARM. PROVIDE BINARY INPUT TO LOCAL JC PANEL.
5. PROVIDE BASKET STRAINER WITH STAINLESS STEEL BASKET.
6. PROVIDE STAINLESS STEEL DIAL THERMOMETER, BRONZE GAUGE VALVE SET WITH STAINLESS STEEL ISOLATION BALL VALVES, 1.5" BRONZE RATE SETTING VALVE.

MARK	MANUFACTURER	MODEL NUMBER	TOTAL TANK VOLUME	ACCEPTANCE VOLUME	REMARKS
EXTHW-1	MECHANICAL ROOM #123	AMTROL	AX60V	33.6 GAL.	11.5 GAL.	ASME CERTIFICATION REQUIRED
EXTHW-2	KSH-NW MECHANICAL VAULT	BELL & GOSSETT	SERIES B MODEL B-2000 #116933	52B GAL	52B GAL.	ASME CERTIFICATION REQUIRED. PROVIDE SEISMIC RESTRAINTS

EXPANSION TANK SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL NUMBER	FLOW RATE	PRESSURE DROP	EWT/LWT	CAPACITY	STEAM LOAD	SIZE	ACCESSORIES
ELEVATOR SUMP	WELL PUMP COMPANY	1411	50 GPM @ 20' TDH	2" DISCHARGE	1/2 HP, 120VAC, 1750 RPM.	#B341 K 1015 NEMA 4X HIGH WATER ALARM WITH #B230 HIGH LEVEL FLOAT SWITCH. #B245 TETHERED FLOAT SWITCHES. SEE WATER INC #05520 PB PB6 OIL SMART WATER PUMP SWITCH
FOUNDATION DRAINAGE SUMP	WELL PUMP COMPANY	-	75 GPM @ 30' TDH	2" DISCHARGE	1 1/2 HP, 460VAC, 3PH. 1750 RPM.	#2613-2 DUPLEX PUMP REMOVAL SYSTEM 1" GUIDE POLES BY OTHERS. #B230 DUPLEX ALARM FLOAT SYSTEM #B158 DUPLEX CONTROL PANEL #B251 NEMA 6P JUNCTION BOX

SUMP PUMP SCHEDULE

Department of Administration
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800 SW Jackson, Suite 700
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HTK PROJECT NUMBER:
● 1410.03

REVISED DATE:
● 12.18.14
● ● ● 2.9.15
3.10.15

DATE:
● 4.15.15

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I&A PROJECT NO. 1402002



4-15-15

STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 17300-00038

DRAWN BY: CAD CHECKED BY: WRB REV: WRB DATE: 4.15.15

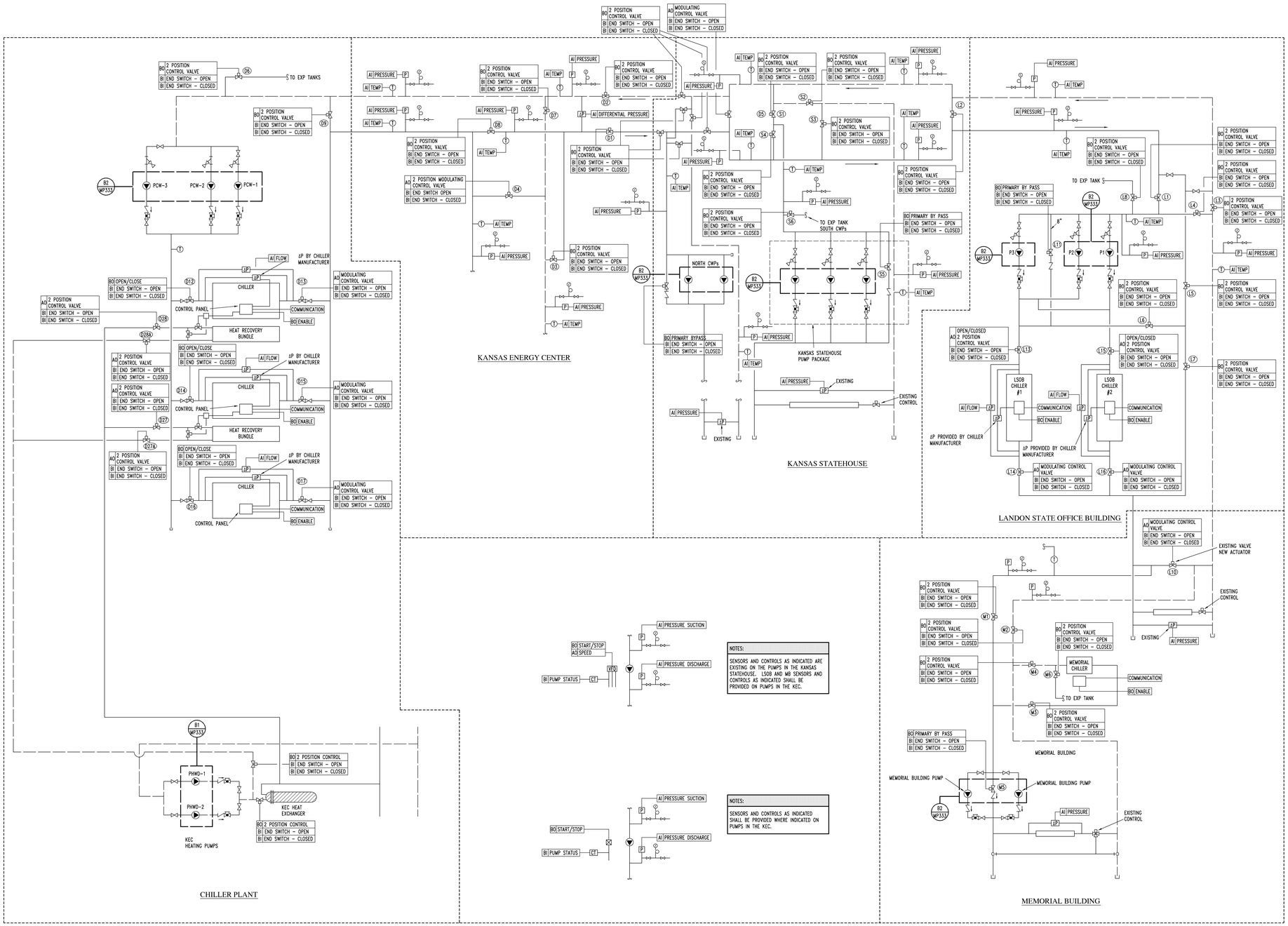
MECHANICAL SCHEDULES

A012651

ME204

CONSTRUCTION DOCUMENTS

WSBC
2-2-2016
AM 9C--0071



HTK ARCHITECTS PA
3900 W 119TH ST, STE 130
OVERLAND PARK KANSAS 66210
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LSA PROJECT NO. 1402032

KANSAS LICENSED PROFESSIONAL ENGINEER 10530 4-15-15

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

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Property Management
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 17300-00038
DATE: 4-15-15 DRAWN BY: CAD CHECKED BY: WRB REV: WRB

AUTOMATIC SYSTEM CONTROL DIAGRAM

A-012651

ME301

CONSTRUCTION DOCUMENTS

ME301_Automatic System Control Diagram.dwg 96 04/14/15 DTC 96 04/13/15 DTC 96 04/12/15 DTC 96 04/13/15 DTC Last Save 96 04/12/15 DTC 310 310 96 02/24/15 DTC Last Save 96 02/24/15 DTC 310 310

SEQUENCE OF OPERATION:

THE SYSTEM CONSISTS OF WATER COOLED CHILLERS, AN AIR COOLED CHILLER, CHILLED WATER PUMPS, CONDENSER WATER PUMPS, CONDENSER TOWER FANS, TWO POSITION CONTROL VALVES AND MODULATING CONTROL VALVES. A COMPLETE AND OPERATIONAL CHILLED WATER COOLING SYSTEM WILL BE PROVIDED IN EACH THE KANSAS ENERGY CENTER, THE LANDON STATE OFFICE BUILDING AND THE MEMORIAL BUILDING. EACH SYSTEM SHALL BE OPERATIONAL, DEPENDING ON THE POSITIONING OF CONTROL VALVES WITHIN THE SYSTEM, TO PROVIDE COOLING TO THE FOLLOWING BUILDINGS WITHIN THE CORE STATE OF KANSAS CAPITOL COMPLEX:

THE KANSAS ENERGY CENTER (KEC)
THE LANDON STATE OFFICE BUILDING (LSOB)
THE KANSAS STATE HOUSE (KSH)
THE MEMORIAL BUILDING (MB)

DEPENDING ON AMBIENT CONDITION AND INDIVIDUAL BUILDING INTERNAL LOAD CONDITIONS, THE CHILLED WATER SYSTEMS IN THE KEC AND THE LSOB CAN PROVIDE COOLING TO THE INDIVIDUAL BUILDING WITHIN WHICH IT RESIDES OR A COMBINATION OF BUILDINGS WITHIN THE CORE STATE OF KANSAS CAPITOL COMPLEX. THE AIR COOLED CHILLER, LOCATED IN THE MB, PROVIDES COOLING ONLY FOR THE MB.

THE SYSTEM LOCATED IN THE KANSAS ENERGY CENTER (KEC) CAN PROVIDE COOLING TO THE KEC; THE KEC AND KSH; THE KEC, KSH AND LSOB OR THE KEC, KSH, LSOB AND MB.

THE SYSTEM IN THE LANDON STATE OFFICE BUILDING CAN PROVIDE COOLING TO THE LSOB; THE LSOB AND MB; THE LSOB, MB AND KSH OR THE LSOB, MB, KSH AND KEC.

THE DECISION TO ENERGIZE A PARTICULAR CHILLED WATER SYSTEM OR A COMBINATION OF CHILLED WATER SYSTEMS AND WHICH BUILDINGS EACH SYSTEM SERVES SHALL BE MADE BY THE OPERATOR THROUGH THE BUILDING AUTOMATION SYSTEM (BAS).

1. THE OPERATOR SELECTS A CHILLER OR CHILLERS TO RUN FROM THE BAS. THE CHILLED WATER ISOLATION VALVE ON BOTH THE ENTERING AND LEAVING SIDE OF THE SELECTED CHILLER OR CHILLERS SHALL MODULATE OPEN.

   a. ONCE THE ISOLATION VALVES ON THE SELECTED CHILLER ARE EACH FULLY OPEN, AS INDICATED BY AN END SWITCH IN EACH RESPECTIVE CONTROL VALVE, THE PRIMARY CHILLED WATER PUMPING SYSTEM SHALL BE RELEASED TO START.

      i. NOTE THAT THERE ARE THREE PRIMARY PUMPS IN EACH THE KEC AND THE LSOB SYSTEM, EACH CONTROLLED BY A VARIABLE SPEED MOTOR CONTROLLER.

      ii. ANY TWO PUMPS IN EACH RESPECTIVE BUILDING WILL BE UTILIZED TO MAINTAIN A DIFFERENTIAL PRESSURE ACROSS THE SUPPLY AND RETURN MAINS IN THAT BUILDING AS INDICATED ON THE DRAWINGS. THE REQUIRED DIFFERENTIAL PRESSURES SHALL BE DETERMINED BY TAB. IN EACH BUILDING, ONE PUMP IS PROVIDED FOR STAND BY OPERATION.

      iii. THE BAS WILL AUTOMATICALLY ALTERNATE THE STAGING OF THE PUMPS IN ORDER TO EQUALIZE RUNTIME. THE MANUAL SELECTION OF THE OPERATING PUMP OR PUMPS SHALL ALSO BE POSSIBLE.

      iv. SHOULD A CHILLED WATER PUMP FAIL TO START UPON RECEIVING A START SIGNAL, THE BAS WILL THEN ACTIVATE A LOCKOUT ALARM FOR THAT PUMP AND SHALL TAKE THAT PUMP OUT OF THE START SEQUENCE. THE BAS WILL THEN START THE STAND-BY PUMP. THE OPERATOR MUST MANUALLY RESET THE LOCKOUT ALARM PRIOR TO THAT PUMP BEING PLACED BACK INTO SERVICE.

      v. THE MODULATING CONTROL VALVE PROVIDED IN A 'MINIMUM CHILLER FLOW' BY-PASS PIPE SHALL MODULATE TO THE FULL OPEN POSITION AND THE (2) POSITION VALVE PROVIDED IN THE PIPING THAT BY-PASSES THE PUMPS IN EACH BUILDING SHALL BE OPEN.

         1. NOTE THAT IF THE LSOB CHILLERS ARE OPERATIONAL TO PROVIDE COOLING TO ANY COMBINATION OF THE BUILDINGS IN THE SYSTEM, THE (2) POSITION VALVE IN THE BY-PASS AROUND THE LSOB CHILLER PUMPS SHALL REMAIN CLOSED.

      vi. DIFFERENTIAL PRESSURE SENSORS ARE EITHER EXISTING OR SHALL BE PROVIDED AS REQUIRED IN EACH EXISTING BUILDING FOR THE CONTROL OF THE PUMPING SYSTEM WITHIN THAT BUILDING.

         1. ONCE THE CHILLED WATER SYSTEM IN EACH RESPECTIVE BUILDING IS OPERATING, AS PROVEN BY THE DIFFERENTIAL PRESSURE SENSORS OUT IN THE SYSTEM OF EACH BUILDING, THE MODULATING CONTROL VALVE PROVIDED IN THE 'MINIMUM CHILLER FLOW' BY PASS SHALL BE RELEASED TO MODULATE AS REQUIRED TO MAINTAIN MINIMUM CHILLER FLOW.

         2. NOTE THAT THESE VALVES SHALL BE OPEN ONLY WHEN TOTAL FLOW IN THE SYSTEM IS AT OR BELOW THE MINIMUM CHILLER FLOW REQUIREMENT.

   b. AFTER THE OPERATOR SELECTS A CHILLER TO OPERATE; THE BAS WILL AUTOMATICALLY START THE COOLING TOWER SEQUENCE OF OPERATION AS REQUIRED TO PROVIDE THE REQUIRED CONDENSER WATER TEMPERATURE.

      i. KEC CHILLER PLANT

         1. THE CONDENSER WATER ISOLATION/BYPASS VALVE AT THE SELECTED CHILLER SHALL OPEN TO FULL BYPASS OF THE CONDENSER SHELL. NOTE THAT THIS CONTROL VALVE IS CONTROLLED BY THE RESPECTIVE CHILLER'S CONTROL SYSTEM, NOT BY THE BAS.

         2. THE BYPASS VALVE IN THE COOLING TOWER SHALL BE OPENED.

         3. AFTER THE END SWITCH CONFIRMS THAT THE CONDENSER WATER ISOLATION VALVES HAVE FULLY OPENED TO THE POSITION INDICATED ABOVE, A CONDENSER WATER PUMP SHALL BE STARTED. THE SELECTION OF WHICH CONDENSER WATER PUMP TO RUN WILL BE BY THE BAS BASED ON RUN TIME.

         4. SHOULD A CONDENSER WATER PUMP FAIL TO START UPON RECEIVING A START SIGNAL, THE BAS WILL THEN ACTIVATE A LOCKOUT ALARM FOR THAT PUMP AND SHALL TAKE THAT PUMP OUT OF THE START SEQUENCE. THE BAS WILL THEN START A SECOND PUMP. THE OPERATOR MUST MANUALLY RESET THE LOCKOUT ALARM PRIOR TO THAT PUMP BEING PLACED BACK INTO SERVICE.

         5. THE CONDENSER WATER FLOW CONTROL VALVE AT THE CHILLER CONDENSER SHALL REMAIN IN THE CONDENSER BYPASS POSITION UNTIL THE CHILLER'S REFRIGERANT PRESSURE ELEVATES INTO THE CONTROL RANGE. ONCE REFRIGERANT PRESSURE SO ELEVATES, THE CONTROL VALVE WILL BE RELEASED TO ALLOW CONTROL OF FLOW THROUGH THE CONDENSER SHELL. THIS FLOW SHALL BE MODULATED TO MAINTAIN REQUIRED REFRIGERANT PRESSURE DIFFERENTIAL BETWEEN THE EVAPORATOR AND CONDENSER SHELLS. NOTE THAT THIS CONTROL IS BY THE RESPECTIVE CHILLER'S CONTROL SYSTEM.

         6 CONDENSER WATER SHALL FLOW THROUGH THE COOLING TOWER BYPASS VALVE UNTIL THE TEMPERATURE OF THE CONDENSER WATER ELEVATES TO A PREDETERMINED TEMPERATURE AT WHICH TIME, THE CONDENSER WATER TOWER BYPASS VALVE SHALL BE MODULATED TO THE CLOSED POSITION AND THE ISOLATION VALVE FOR THE SELECTED TOWER CELL SHALL BE OPENED.

         7. CONDENSER WATER SHALL, INITIALLY, FLOW OVER THE TOWER AS THE FIRST STAGE OF CAPACITY CONTROL. AS THE CONDENSER WATER SUPPLY TEMPERATURE RISES, THE COOLING TOWER FANS SHALL BE CONTROLLED, VIA THE VARIABLE MOTOR SPEED DRIVE, BY THE BAS, IN ORDER TO MAINTAIN AN ADJUSTABLE CONDENSER WATER SUPPLY TEMPERATURE BETWEEN 75 DEG. (ADJUSTABLE) AND 85 DEG. (ADJUSTABLE). THE BAS WILL UTILIZE AN ALGORITHM IN ORDER TO DETERMINE THE MOST EFFICIENT SPEED OF THE RESPECTIVE TOWER FAN THAT WILL MAINTAIN THE CONDENSER WATER SUPPLY TEMPERATURE SET POINT. THIS ALGORITHM WILL TAKE INTO ACCOUNT THE APPROACH TEMPERATURE OF THE TOWERS, THE AMBIENT WET BULB TEMPERATURE, THE TEMPERATURE OF THE WATER IN THE SUMP AND THE ANTICIPATED LAG OF THE SYSTEM DUE TO THE VOLUME OF WATER IN THE SUMP. THE BAS SHALL THEN MAINTAIN THE CONDENSER WATER SUPPLY TEMPERATURE SET POINT BY VARYING THE SPEED OF THE FANS. THE MINIMUM SPEED OF THE FAN SHALL BE 25% OF FULL SPEED. IF THE FAN REMAINS AT MINIMUM SPEED FOR MORE THAN 3 MINUTES, THE FAN SHALL BE SHUT OFF WHILE WATER IS ALLOWED TO CONTINUE FLOWING OVER THE TOWER. THE FAN WILL BE RESTARTED BY THE BAS CALLING FOR A FAN SPEED OF GREATER THAN 25%.

         8. WHEN THE COOLING TOWER BYPASS VALVE IS OPENED TO ALLOW CONDENSER WATER FLOW TO BYPASS THE COOLING TOWER, THE COOLING TOWER FAN SHALL STOP (IF RUNNING). THE COOLING TOWER FAN OR FANS SHALL NOT OPERATE WHEN THE TOWER IS OPERATING IN THE BYPASS MODE OF OPERATION.

         9. WHEN A NEW TOWER IS BROUGHT ON LINE THE SPEED OF THE TOWER FAN MOTOR SHALL GRADUALLY INCREASE AND WILL THEN BE ADJUSTED. WHEN MULTIPLE CELLS ARE OPERATING, THE SPEED OF EACH FAN WILL BE THE SAME EXCEPT WHEN A FAN IS BEING STARTED OR STOPPED.

         10. THE BAS WILL AUTOMATICALLY ALTERNATE THE STAGING OF THE COOLING TOWER CELL AND ASSOCIATED FANS IN ORDER TO EQUALIZE THE RUNTIME ON EACH FAN OR TOWER CELL. THE SYSTEM WILL ALSO BE CAPABLE OF OPERATING IN THE MANUAL MODE WHERE THE MAINTENANCE STAFF SELECTS THE COOLING TOWER CELL THAT WILL OPERATE WITH A PARTICULAR CHILLER. THIS SELECTION SHALL OCCUR WHEN THE CHILLER IS STARTED. IF A FAN FAILS TO START UPON RECEIVING A SIGNAL TO START, THE BAS WILL THEN ACTIVATE A LOCKOUT ALARM FOR THAT FAN AND SHALL TAKE THAT FAN OUT OF THE START SEQUENCE. THE BAS WILL THEN START THE FAN WITH THE SECOND LOWEST AMOUNT OF CUMULATIVE RUN TIME. THE LOCKOUT ALARM SHALL BE MANUALLY RESET IN ORDER FOR THAT PIECE OF EQUIPMENT TO BE PUT BACK INTO THE OPERATING SEQUENCE.

      ii. LSOB CHILLER PLANT, CONTROL SHALL BE THE SAME AS THAT IDENTIFIED FOR THE KEC, EXCEPT THAT THERE IS ONE TOWER BYPASS VALVE TO SERVE THE TWO TOWERS AND NO BYPASS VALVE ON THE INDIVIDUAL CHILLER CONDENSER SHELL.

         1. WHEN CHILLERS ARE DEENERGIZED THE TOWER WATER BYPASS CONTROL VALVE SHALL BE OPEN TO FULL BYPASS OF THE COOLING TOWERS.

         2. THE ISOLATION VALVE ON THE CONDENSER SHELL FOR THE SELECTED CHILLER SHALL BE OPENED.

         3. AFTER THE END SWITCH CONFIRMS THAT THE CONDENSER WATER ISOLATION VALVES HAVE FULLY OPENED TO THE POSITION INDICATED ABOVE, A CONDENSER WATER PUMP SHALL BE STARTED. THE SELECTION OF WHICH CONDENSER WATER PUMP TO RUN AND WHICH COOLING TOWER TO FLOW WILL BE BY THE BAS BASED ON RUN TIME.

         4. SHOULD A CONDENSER WATER PUMP FAIL TO START UPON RECEIVING A START SIGNAL, THE BAS WILL THEN ACTIVATE A LOCKOUT ALARM FOR THAT PUMP AND SHALL TAKE THAT PUMP OUT OF THE START SEQUENCE. THE BAS WILL THEN START THE STAND-BY PUMP. THE OPERATOR MUST MANUALLY RESET THE LOCKOUT ALARM PRIOR TO THAT PUMP BEING PLACED BACK INTO SERVICE.

         5. THE COOLING TOWER BYPASS CONTROL VALVE SHALL REMAIN IN THE TOWER BYPASS POSITION UNTIL THE TEMPERATURE OF THE CONDENSER WATER ELEVATES TO A PREDETERMINED TEMPERATURE AT WHICH TIME THE CONTROL VALVE WILL BE RELEASED TO ALLOW CONTROL OF FLOW ACROSS BOTH COOLING TOWERS.

         6. CONDENSER WATER SHALL FLOW OVER THE TOWERS AS THE FIRST STAGE OF CAPACITY CONTROL. AS THE CONDENSER WATER SUPPLY TEMPERATURE RISES, THE COOLING TOWER FAN ON ONE TOWER SHALL BE CONTROLLED, VIA THE TWO SPEED MOTOR STARTER, BY THE BAS IN ORDER TO MAINTAIN AN ADJUSTABLE CONDENSER WATER SUPPLY TEMPERATURE BETWEEN 75 DEG. (ADJUSTABLE) AND 85 DEG. (ADJUSTABLE). THE BAS WILL UTILIZE AN ALGORITHM IN ORDER TO DETERMINE THE MOST EFFICIENT SPEED OF THE RESPECTIVE TOWER FAN THAT WILL MAINTAIN THE CONDENSER WATER SUPPLY TEMPERATURE SET POINT. THIS ALGORITHM WILL TAKE INTO ACCOUNT THE APPROACH TEMPERATURE OF THE TOWERS, THE AMBIENT WET BULB TEMPERATURE, THE TEMPERATURE OF THE WATER IN THE SUMP AND THE ANTICIPATED LAG OF THE SYSTEM DUE TO THE VOLUME OF WATER IN THE SUMP. THE BAS SHALL THEN MAINTAIN THE CONDENSER WATER SUPPLY TEMPERATURE SET POINT BY SEQUENTIALLY STARTING AND STOPPING THE TWO SPEED FAN ON EACH OF THE TWO TOWERS. IF A FAN FAILS TO START UPON RECEIVING A SIGNAL TO START, THE BAS WILL ACTIVATE A ALARM FOR THAT FAN. THE LOCKOUT ALARM SHALL BE MANUALLY RESET IN ORDER FOR THAT PIECE OF EQUIPMENT TO BE PUT BACK INTO THE OPERATING SEQUENCE.

         7. WHEN THE COOLING TOWER BYPASS VALVE IS OPENED TO ALLOW CONDENSER WATER FLOW TO BYPASS THE COOLING TOWERS, THE COOLING TOWER FAN OR FANS SHALL STOP (IF RUNNING). THE COOLING TOWER FAN OR FANS SHALL NOT OPERATE WHEN THE TOWER IS OPERATING IN THE BYPASS MODE OF OPERATION.

         8. THE SYSTEM WILL BE CAPABLE OF OPERATING IN THE MANUAL MODE WHERE THE MAINTENANCE STAFF SELECTS THE COOLING TOWER THAT WILL OPERATE WITH A PARTICULAR CHILLER. THIS SELECTION SHALL OCCUR WHEN THE CHILLER IS STARTED.

2. ONCE CHILLED WATER FLOW THROUGH THE EVAPORATOR OF A PARTICULAR CHILLER IS CONFIRMED, THE CHILLER SHALL BE SIGNALED BY THE BAS TO START. THE INDIVIDUAL CHILLER'S CONTROLS WILL VERIFY FLOW THROUGH THE EVAPORATOR VIA SEPARATE DIFFERENTIAL PRESSURE SWITCHES THAT ARE WIRED DIRECTLY INTO THE CHILLER'S CONTROL PANEL. ONCE FLOW IN THE EVAPORATOR IS PROVEN BY THE CHILLERS INDIVIDUAL CONTROLS, THE CHILLER CONTROL PANEL SHALL RELEASE THAT CHILLER TO START.

3. IF THE OPERATOR DECIDES TO START ADDITIONAL CHILLERS, WITHIN THE SYSTEM, THE STARTUP SEQUENCE SHALL BE IDENTICAL EXCEPT THAT, IN THE KEC CHILLER PLANT, THE BAS SHALL SELECT THE COOLING TOWER CELL, ASSOCIATED FAN AND THE PUMP WITH THE NEXT LOWEST AMOUNT OF RUNTIME COMPARED TO THE EQUIPMENT THAT IS OPERATING. IN THE LSOB CHILLER PLANT, THE SECOND CONDENSER WATER PUMP SHALL BE STARTED.

   a. THE AUTOMATIC ISOLATION CONTROL VALVES IN THE CHILLER ENTERING AND DISCHARGE LINES SHALL MODULATE OPEN SLOWLY IN ORDER TO PROVIDE TIME FOR THE PRIMARY PUMP VARIABLE SPEED MOTOR CONTROLLERS TO RAMP THE PUMPS UP SO THAT MINIMUM FLOW IS MAINTAINED AT THE OPERATING CHILLER. THE RATE AT WHICH THESE VALVES OPEN SHALL BE ADJUSTABLE.

   b. IF THE DIFFERENTIAL PRESSURE ACROSS THE OPERATING CHILLER OR CHILLERS FALLS TO A POINT ASSOCIATED WITH A LOW FLOW CONDITION, THE BAS WILL SIGNAL THE MODULATING CONTROL VALVE IN THE 'MINIMUM CHILLER FLOW' BY-PASS LINE TO OPEN AS REQUIRED TO MAINTAIN MINIMUM FLOW THROUGH ALL OPERATING CHILLERS.

      i. ONCE THE FLOW RATE IN THE SYSTEM IS AT OR ABOVE THE MINIMUM FLOW OF ALL OPERATING CHILLERS, THE MODULATING CONTROL VALVE IN THE 'MINIMUM CHILLER FLOW' BY-PASS PIPE WILL BE MODULATED TO THE CLOSED POSITION.

      ii. A BALANCE VALVE SHALL BE PROVIDED IN THE DISCHARGE PIPING FROM ALL CHILLERS IN THE KEC IN ORDER TO ALLOW THE TAB TO EQUALIZE THE PRESSURE DROP THROUGH EACH PARALLEL CHILLER CIRCUIT IN THE CHILLER PLANT. THIS WILL ASSURE EQUAL DISTRIBUTION OF FLOW THROUGH THE OPERATING CHILLERS.

4. CHILLED WATER PIPING SYSTEM

   a. THE OPERATOR SHALL DETERMINE WHICH CHILLED WATER PLANT OR WHAT COMBINATION OF THE CHILLED WATER PLANTS WILL BE UTILIZED TO PROVIDE COOLING TO THE VARIOUS BUILDINGS WITHIN THE CORE STATE OF KANSAS CAPITOL COMPLEX.

   b. IF THE DECISION IS MADE TO CHANGE THE OPERATION OF THE CHILLED WATER SYSTEM FROM ONE 'CASE' TO ANOTHER, THE CHILLERS AND ALL PUMPS RUNNING IN THE CURRENT CONFIGURATION SHALL BE DE-ENERGIZED AND THE DESIRED 'CASE' SHALL BE SELECTED BY THE OPERATOR.

   c. THE TWO POSITION CONTROL VALVES IN THE PIPING SYSTEM SHALL BE ADJUSTED TO THE OPEN/CLOSED POSITION AS INDICATED IN THE VALVE POSITION SCHEDULE. END SWITCHES SHALL BE PROVIDED IN THE ACTUATOR OF EACH VALVE. INDICATION OF PROPER VALVE POSITION SHALL BE IDENTIFIED ON A GRAPHIC ON THE BAS HEAD END. SHOULD A CONTROL VALVE NOT CYCLE TO THE CORRECT POSITION, THE BAS SYSTEM GRAPHIC SHALL SO INDICATE BY 'ALARM' AND A RED ICON OVER ANY OF THE VALVES THAT ARE INCORRECTLY POSITIONED. ALL CHILLERS AND PUMPS WILL BE LOCKED OUT UNTIL SUCH TIME AS THE PROPER VALVE POSITION IS ACHIEVED AND PROVEN BY THE RESPECTIVE END SWITCHES IN EACH VALVE.

   d. THERE ARE MODULATING CONTROL VALVES IN 'CROSS OVER' PIPING LOCATED IN EACH THE KEC AND THE LSOB. THESE MODULATING VALVES, IDENTIFIED AS 'MINIMUM CHILLER FLOW' BY-PASS, ARE PROVIDED TO ACCOMMODATE MINIMUM CHILLER FLOW REQUIREMENTS WHEN CONDITIONS ARE SUCH THAT FLOW THRU THE SYSTEM IS LOWER THAN THE MINIMUM FLOW REQUIRED BY THE RESPECTIVE CHILLER.

   e. EACH NEW CHILLED WATER PRIMARY PUMP IN THE KEC AND THE EXISTING PRIMARY PUMPS IN THE LSOB ARE PROVIDED WITH VARIABLE SPEED MOTOR CONTROLLERS. THE EXISTING AND NEW CHILLED WATER BUILDING CIRCULATING PUMPS IN THE KSH AND THE MB ARE ALSO PROVIDED WITH VARIABLE SPEED MOTOR CONTROLLERS.

   f. WHEN THE KEC CHILLED WATER PLANT IS OPERATING, THE VARIABLE SPEED MOTOR CONTROLLER ON THE PRIMARY PUMPS IN THE KEC SHALL BE MODULATED TO MAINTAIN A PREDETERMINED DIFFERENTIAL PRESSURE (ESTABLISHED BY TAB) ACROSS THE SUPPLY AND RETURN MAINS.

   g. WHEN THE LSOB CHILLED WATER PLANT IS OPERATING, THE VARIABLE SPEED MOTOR CONTROLLER ON THE LSOB CHILLED WATER CIRCULATING PUMPS SHALL BE MODULATED TO MAINTAIN A PREDETERMINED DIFFERENTIAL PRESSURE (ESTABLISHED BY TAB) AT THE EXISTING DIFFERENTIAL PRESSURE SENSOR THAT IS LOCATED IN THE LSOB CHILLED WATER SYSTEM AT THE TOP FLOOR OF THE NORTH END OF THE BUILDING.

   h IN THE KEC, KSH AND LSOB.

   i. A TWO POSITION VALVE SHALL BE PROVIDED IN A PUMP BYPASS LINE LOCATED IN EACH BUILDING. THIS VALVE SHALL BE OPEN WHEN THE CHILLED WATER SYSTEM IS OPERATING TO ALLOW PRESSURE AND THUS FLOW DEVELOPED BY THE PRIMARY PUMPING SYSTEM TO BE UTILIZED TO THE FULLEST EXTENT TO CIRCULATE THE RESPECTIVE BUILDING'S CHILLED WATER SYSTEM. NOTE: THERE ARE NO BUILDING CIRCULATORY PUMPS IN THE KEC. CIRCULATION WITHIN THIS BUILDING WALL BE PROVIDED BY THE KEC CHILLER PLANT PRIMARY PUMPS.

      ii. DIFFERENTIAL PRESSURE SENSORS LOCATED ACROSS THE SUPPLY AND RETURN PIPING SYSTEM AT LOCATIONS IN EACH RESPECTIVE BUILDING'S CHILLED WATER PIPING SYSTEM ARE PROVIDED TO CONTROL THE VARIABLE SPEED PUMP CONTROL AS REQUIRED TO MAINTAIN REQUIRED FLOW IN THE RESPECTIVE BUILDING. THIS SENSOR WAS PREVIOUSLY INSTALLED AND IS LOCATED AT THE TOP OF THE NORTH END OF THE CHILLED WATER PIPING SYSTEM IN THE LSOB. MULTIPLE DIFFERENTIAL PRESSURE SENSORS HAVE PREVIOUSLY BEEN PROVIDED IN THE KSH. IN THE KSH, THE BAS SHALL CONTROL TO MAINTAIN MINIMUM DIFFERENTIAL PRESSURE AT EACH OF THE DIFFERENTIAL PRESSURE SENSORS. IN THE KEC A NEW DIFFERENTIAL PRESSURE SENSOR SHALL BE PROVIDED AT A LOCATION APPROXIMATELY 2/3 OF THE TOTAL PIPING SYSTEM DISTANCE FROM THE PRIMARY CHILLED WATER CIRCULATING PUMPS.

      iii. THE BAS WILL MODULATE THE VARIABLE SPEED OF THE CHILLED WATER PUMPS IN EACH RESPECTIVE BUILDING WHERE CHILLED WATER PUMPS ARE PROVIDED AS REQUIRED TO MAINTAIN MINIMUM SET PRESSURE AT ALL DIFFERENTIAL PRESSURE SENSORS WITHIN THE RESPECTIVE BUILDING DURING TIMES WHEN PRESSURES PROVIDED BY THE PRIMARY CHILLED WATER PUMPS DO NOT PROVIDE ADEQUATE PRESSURE IN THE BUILDING PIPING SYSTEM.

   J. MEMORIAL BUILDING CHILLER

      i. WHEN THE OPERATOR SELECTS THE MB CHILLER TO COOL THE MB, THE AUTOMATIC ISOLATION CONTROL VALVES IN THE PIPING FEEDING THE MB FROM THE LSOB SHALL BE CLOSED AND THE ISOLATION CONTROL VALVES IN THE SUPPLY AND RETURN PIPING TO THE MB CHILLER SHALL BE OPENED.

      ii. THE OPERATING CHILLED WATER PUMP SHALL BE ENERGIZED AND ONCE FLOW IS PROVEN AT THE MB CHILLER, THE CHILLER SHALL BE RELEASED TO OPERATE.

      iii. CHILLED WATER SUPPLY TEMPERATURE SHALL BE CONTROLLED BY THE INTEGRAL CHILLER CONTROLLER, LOCATED ON THE MB CHILLER.

   K. A TWO POSITION CONTROL VALVE IS PROVIDED IN THE PIPING FEEDING THE EXPANSION TANKS IN EACH THE LSOB AND THE KEC WHEN THE KEC CHILLERS ARE OPERATING THE CONTROL VALVE ON THE EXPANSION TANKS IN THE KEC SHALL BE OPEN. WHEN THE LSOB CHILLERS ARE OPERATING, THE CONTROL VALVE ON THE EXPANSION TANKS IN THE LSOB SHALL BE OPEN. WHEN THE CHILLERS IN EITHER THE KEC OR THE LSOB ARE DEENERGIZED, THE CONTROL VALVE IN THE PIPING FEEDING THE EXPANSION TANKS IN THE BUILDING WITH THE CHILLERS DEENERGIZED SHALL BE CLOSED.

5. HEAT RECOVERY CONTROL

   a. THE TWO KSH CHILLERS ARE EACH PROVIDED WITH AN ADDITIONAL 'HEAT RECOVERY' CONDENSER. IN THE HEAT RECOVERY MODE, THE HEAT RECOVERY CONDENSER AND THE PRIMARY CONDENSER REFRIGERANT FLOW SHALL BE MODULATED TO SATISFY THE PRIMARY FUNCTION OF THE CHILLER, MAINTAINING CHILLED WATER SET POINT FOR COOLING. DURING THE HEATING SEASON WHEN SIMULTANEOUS BUILDING MECHANICAL COOLING AND HEATING IS REQUIRED, HEAT GENERATED IN THE OPERATING HEAT RECOVERY CHILLER SHALL BE REJECTED TO THE HOT WATER HEATING SYSTEM. IF THERE IS AN OVERABUNDANCE OF REJECTED HEAT, THE EXCESS ENERGY SHALL BE REJECTED TO THE COOLING TOWER. A MODULATING BYPASS CONTROL VALVE SHALL BE PROVIDED SO THAT HEAT RECOVERY HOT WATER FLOW WILL BE CIRCULATED THROUGH THE HEAT RECOVERY BARREL OF THE OPERATING HEAT RECOVERY CHILLER OR WILL BYPASS THAT HEAT RECOVERY BARREL. AS PREVIOUSLY STATED, A MODULATING BYPASS CONTROL VALVE SHALL BE PROVIDED SO THAT CONDENSER WATER FLOW WILL BE CIRCULATED THROUGH THE CONDENSER BARREL OF THE OPERATING HEAT RECOVERY CHILLER OR WILL BYPASS THAT CONDENSER BARREL. THE INTERNAL CHILLER CONTROLS WILL CONTROL BOTH MODULATING 3 WAY CONTROL VALVES.

   b. THE HOT WATER HEATING SYSTEM WILL BE ENABLED WHEN THE OUTSIDE AIR TEMPERATURE IS AT OR BELOW 55 DEGREES F. (ADJUSTABLE) OR AS ENABLED BY BUILDING OPERATORS.

   c. THE KEC CONDENSER WATER SYSTEM SHALL BE STARTED AND FLOW VERIFIED AS PREVIOUSLY INDICATED. THE HOT WATER SYSTEM CIRCULATING PUMPS SHALL BE ENERGIZED AND FLOW SHALL BE VERIFIED BY DIFFERENTIAL PRESSURE SWITCH AT THE OPERATING CIRCULATING PUMP. THE 3 WAY HEAT RECOVERY CONTROL VALVE AND THE 3 WAY CONDENSER WATER CONTROL VALVE OF A SELECTED HEAT RECOVERY CHILLER SHALL EACH INITIALLY BE SET TO BYPASS THE HEAT RECOVERY BARREL AND THE CONDENSER BARREL RESPECTIVELY. THE BUILDING HEATING PUMP, SHALL BE STARTED AND FLOW VERIFIED BY DIFFERENTIAL PRESSURE SWITCH AT THE OPERATING PUMP. ONCE CONDENSER WATER FLOW AND HOT WATER SYSTEM FLOW IN BOTH THE BUILDING CIRCULATING SYSTEM AND IN THE HEAT RECOVERY CIRCULATING SYSTEM ARE VERIFIED, THE HEAT RECOVERY SYSTEM SHALL BE RELEASED TO OPERATE.

   d. THE SUPPLY AND RETURN HOT WATER TEMPERATURE ENTERING AND LEAVING THE HEAT RECOVERY BARREL OF THE HEAT RECOVERY CHILLER SHALL BE MONITORED BY THE BAS.

   e. THE UNITARY CONTROL ON THE HEAT RECOVERY CHILLER SHALL MODULATE BOTH THE HEAT RECOVERY FLOW AND THE CONDENSER WATER FLOW AS REQUIRED TO LIMIT THE HOT WATER SUPPLY TEMPERATURE TO A MAXIMUM OF 110 DEG. F (ADJUSTABLE).

   f. THE BAS SHALL MONITOR THE HEAT RECOVERY CONDENSER LEAVING WATER TEMPERATURE AND THE TEMPERATURE OF THE HOT WATER RETURN AT THE SUCTION OF THE HOT WATER CIRCULATING PUMPS. NOTE THAT THIS IS DOWNSTREAM OF THE POINT THAT THE HOT WATER SUPPLY FROM THE HEAT RECOVERY CHILLER CONNECTS TO THE BUILDING HOT WATER RETURN PIPING.

   g. IF THE HOT WATER TEMPERATURE AT THE SUCTION OF THE HOT WATER HEATING SYSTEM CIRCULATING PUMPS IS BELOW 110 DEG. F. (ADJUSTABLE) THE CONTROL VALVE ON ONE OR MORE OF THE EXISTING BUILDING HEATING SYSTEM HEAT EXCHANGERS SHALL BE MODULATED OPEN AS REQUIRED TO RAISE THE TEMPERATURE OF THE HOT WATER HEATING SYSTEM UP TO THE TEMPERATURE REQUIRED TO PROVIDE ADEQUATE HEAT TO THE BUILDING. IF THE HOT WATER TEMPERATURE AT THE SUCTION OF THE HOT WATER HEATING SYSTEM CIRCULATING PUMPS IS AT OR ABOVE 110 DEG. F. (ADJUSTABLE) THE CONTROL VALVE ON EACH OF THE EXISTING BUILDING HEATING SYSTEM HEAT EXCHANGERS SHALL BE MODULATED CLOSED PROVIDED THE TEMPERATURE OF THE HOT WATER HEATING SYSTEM IS OF A TEMPERATURE REQUIRED TO PROVIDE ADEQUATE HEAT TO THE BUILDING.

   h. THE CHILLER CONDENSER SHELL BYPASS CONTROL VALVE AND THE HEAT RECOVERY SHELL BYPASS CONTROL VALVE SHALL EACH BE MODULATED BY THE INDIVIDUAL CHILLER CONTROL SYSTEM AS REQUIRED TO MAINTAIN CHILLED WATER SET POINT, TO PREVENT THE TEMPERATURE OF THE HEAT RECOVERY HOT WATER FROM ELEVATING ABOVE THE MAXIMUM TEMPERATURE OF 110 DEG. F. (ADJUSTABLE) AND TO PREVENT THE CHILLERS FROM ENTERING SURGE CONDITIONS.

   i. THE CHILLER CONTROLLER WILL MODULATE THE FLOW OF REFRIGERANT THROUGH THE HEAT RECOVERY BARREL AND THE CONDENSER BARREL TO BEST MATCH THE DESIRED HOT WATER TEMPERATURE WITHOUT COMPROMISING THE CHILLED WATER SET POINT.

6. REFRIGERANT MONITORING AND EXHAUST

   a. THE REFRIGERANT MONITORING AND EXHAUST SYSTEM SHALL CONSIST OF A CENTRAL CONTROL PANEL, TEMPERATURE SENSOR, REFRIGERANT SENSOR (R123) AN OUTSIDE AIR INTAKE LOUVER WITH AUTOMATIC DAMPER, AN EXHAUST FAN WITH TWO (2) SPEED MOTOR AND EXHAUST DAMPER AN ALARM HORN AND BEACON, AN EMERGENCY POWER OFF (EPO) PUSHBUTTON AND A REMOTE HIGH FAN SPEED OVERRIDE PUSHBUTTON.

   b. UPON A SIGNAL FROM THE REFRIGERANT MONITORING PANEL THAT REFRIGERANT LEVELS, ABOVE THE PREDETERMINED THRESHOLD LIMIT VALUE (TLV) AS SENSED BY THE REFRIGERANT SENSOR, INTAKE AND EXHAUST DAMPERS SHALL BE OPENED AND THE EXHAUST FAN SHALL BE ENERGIZED AT HIGH SPEED. THE CHILLERS SHALL BE SHUT DOWN AND THE ALARM HORN/LIGHT SHALL AUDIBLY AND VISUALLY NOTIFY BUILDING OCCUPANTS. A HIGH TLV ALARM SHALL BE MAPPED ON THE JCI HEAD END.

   c. A REMOTE EMERGENCY POWER OFF "EPO" SWITCH SHALL BE PROVIDED ON THE EXTERIOR OF THE ROOM WHERE INDICATED ON PLANS. DEPRESSING THIS PUSHBUTTON SHALL OPEN INTAKE AND EXHAUST DAMPERS, START THE EXHAUST FAN ON HIGH SPEED SHALL SHUT DOWN ALL CHILLERS.

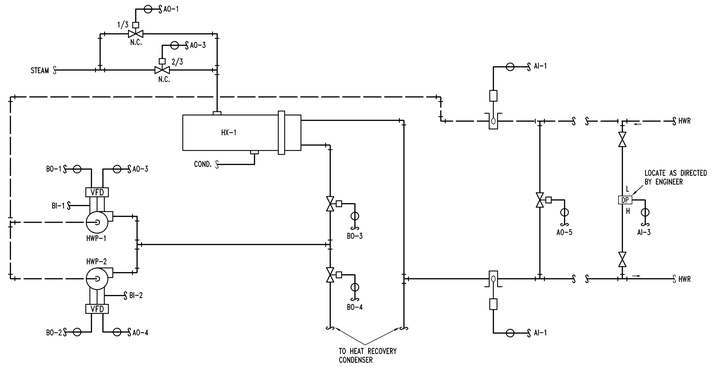
   d. A TWO POSITION "AUTO"/"HIGH FAN SPEED" SWITCH SHALL BE PROVIDED ON THE EXTERIOR OF THE ROOM IN LOCATION AS INDICATED ON THE PLANS. SWITCHING THE CONTROL TO THE "HIGH FAN SPEED" SETTING SHALL OPEN THE INTAKE AND EXHAUST DAMPERS AND SHALL START THE FAN ON HIGH SPEED. MANUAL CONTROL OF THE EXHAUST FAN SHALL BE INDICATED AT THE JCI HEAD END.

   IT IS NOT THE INTENT OF THE DRAWINGS TO REPLACE OR REWORK THIS CONTROLS THAT ARE EXISTING.

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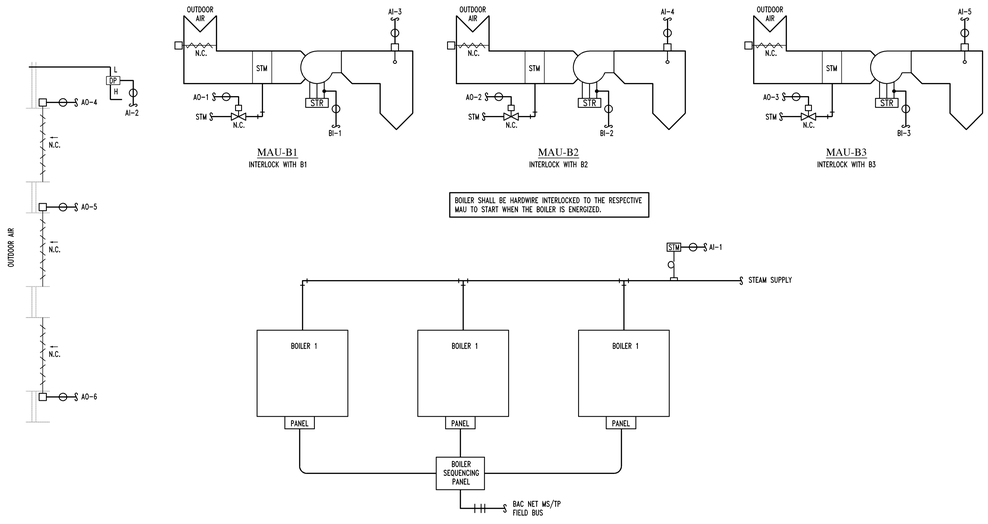
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HOT WATER SYSTEM INPUT/OUTPUT SCHEDULE			
ANALOG INPUTS		BINARY INPUTS	
AI-1	HOT WATER RETURN TEMPERATURE	BI-1	HOT WATER PUMP 1 STATUS
AI-2	HOT WATER SUPPLY TEMPERATURE	BI-2	HOT WATER PUMP 2 STATUS
AI-3	SYSTEM DIFFERENTIAL PRESSURE		
ANALOG OUTPUTS		BINARY OUTPUTS	
AO-1	HX 1/3 VALVE CONTROL	BO-1	HOT WATER PUMP 1 START/STOP
AO-2	HX 2/3 VALVE CONTROL	BO-2	HOT WATER PUMP 2 START/STOP
AO-3	HOT WATER PUMP 1 VFD CONTROL	BO-3	OPEN TO HEAT EXCHANGER FLOW
AO-4	HOT WATER PUMP 2 VFD CONTROL	BO-4	OPEN TO HEAT RECOVERY CONDENSER FLOW
AO-5	HOT WATER BY-PASS VALVE CONTROL		



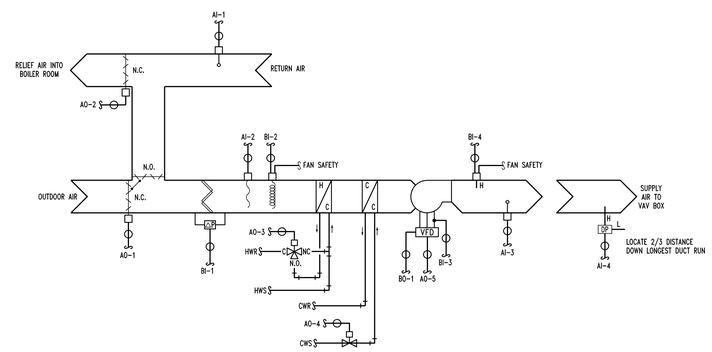
C3 Hot Water System Schematic
No Scale
New Hot Water System in KSH NW Mech Vault - Sim.

BOILER ROOM/MAU INPUT/OUTPUT SCHEDULE			
ANALOG INPUTS		BINARY INPUTS	
AI-1	BOILER COMMON HEADER PRESSURE	BI-1	MAU-B1 STATUS
AI-2	BOILER ROOM STATIC PRESSURE	BI-2	MAU-B2 STATUS
AI-3	MAU-B1 DISCHARGE AIR TEMPERATURE	BI-3	MAU-B3 STATUS
AI-4	MAU-B2 DISCHARGE AIR TEMPERATURE		
AI-5	MAU-B3 DISCHARGE AIR TEMPERATURE		
ANALOG OUTPUTS		BINARY OUTPUTS	
AO-1	MAU-B1 STEAM VALVE CONTROL		
AO-2	MAU-B2 STEAM VALVE CONTROL		
AO-3	MAU-B3 STEAM VALVE CONTROL		
AO-4	RELIEF DAMPER 1 CONTROL		
AO-5	RELIEF DAMPER 2 CONTROL		
AO-6	RELIEF DAMPER 3 CONTROL		



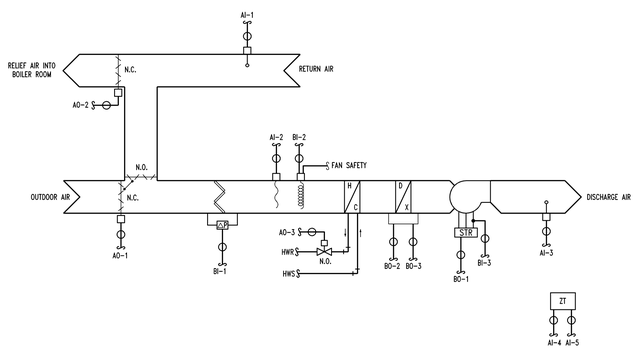
A3 Boiler Room Schematic
No Scale

AIR HANDLING UNIT 1 INPUT/OUTPUT SCHEDULE			
ANALOG INPUTS		BINARY INPUTS	
AI-1	RETURN AIR TEMPERATURE	BI-1	FILTER STATUS
AI-2	MIXED AIR TEMPERATURE	BI-2	LOW TEMPERATURE SWITCH STATUS
AI-3	DISCHARGE AIR TEMPERATURE	BI-3	SUPPLY FAN STATUS
AI-4	DUCT STATIC PRESSURE	BI-4	HIGH STATIC SWITCH STATUS
ANALOG OUTPUTS		BINARY OUTPUTS	
AO-1	OUTDOOR & RETURN AIR DAMPER CONTROL	BO-1	SUPPLY FAN START/STOP
AO-2	RELIEF AIR DAMPER CONTROL		
AO-3	HOT WATER VALVE CONTROL		
AO-4	CHILLED WATER VALVE CONTROL		
AO-5	SUPPLY FAN VFD CONTROL		



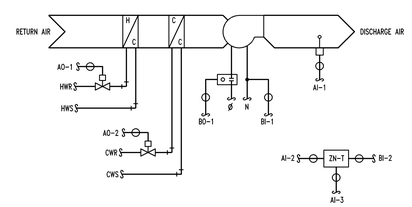
C1 AHU-1 Control Schematic
No Scale

AIR HANDLING UNIT 2 INPUT/OUTPUT SCHEDULE			
ANALOG INPUTS		BINARY INPUTS	
AI-1	RETURN AIR TEMPERATURE	BI-1	FILTER STATUS
AI-2	MIXED AIR TEMPERATURE	BI-2	LOW TEMPERATURE SWITCH STATUS
AI-3	DISCHARGE AIR TEMPERATURE	BI-3	SUPPLY FAN STATUS
AI-4	ZONE TEMPERATURE		
AI-5	ZONE TEMPERATURE SETPOINT		
ANALOG OUTPUTS		BINARY OUTPUTS	
AO-1	OUTDOOR & RETURN AIR DAMPER CONTROL	BO-1	SUPPLY FAN START/STOP
AO-2	RELIEF AIR DAMPER CONTROL	BO-2	DX STAGE 1 ENABLE
AO-3	HOT WATER VALVE CONTROL	BO-3	DX STAGE 2 ENABLE



B1 AHU-2 Control Schematic
No Scale

FAN COIL UNITS INPUT/OUTPUT SCHEDULE			
ANALOG INPUTS		BINARY INPUTS	
AI-1	DISCHARGE AIR TEMPERATURE	BI-1	SUPPLY FAN STATUS
AI-2	ZONE TEMPERATURE	BI-2	OCCUPANCY OVERRIDE SWITCH STATUS
AI-3	ZONE TEMPERATURE SETPOINT		
ANALOG OUTPUTS		BINARY OUTPUTS	
AO-1	HOT WATER VALVE CONTROL	BO-1	SUPPLY FAN START/STOP
AO-2	CHILLED WATER VALVE CONTROL		



A1 Fan Coil Schematic
No Scale

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- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 17300-00038
DRAWN BY: CAD CHECKED BY: WRB REV: WRB
DATE: 4-15-15

BUILDING AUTOMATION SYSTEM DIAGRAMS

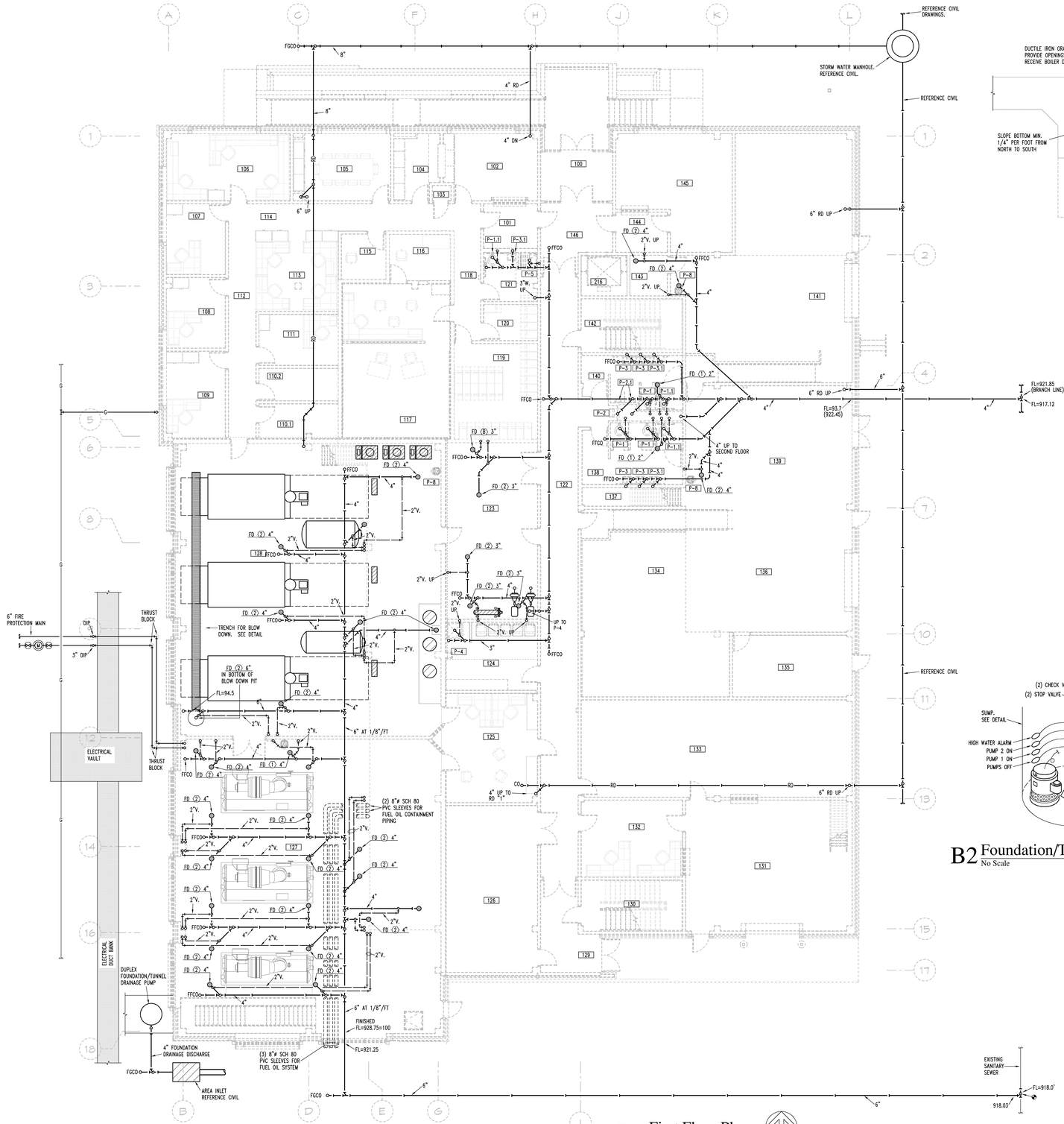
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ME303

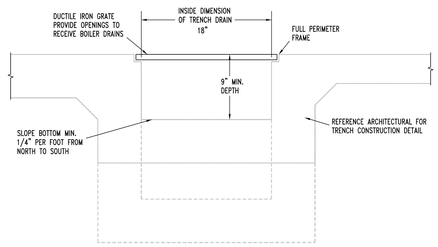
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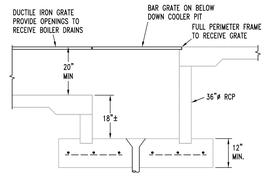
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2-2-2016
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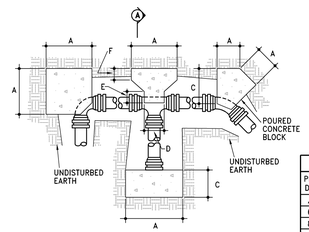
B1 First Floor Plan
1/8"=1'-0" Below-Grade Plumbing



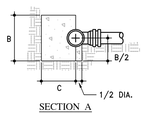
B4 Trench Drain
1 1/2" = 1'-0"



A4 Trench Connection to Blow Down Cooler Pit
1/2" = 1'-0"



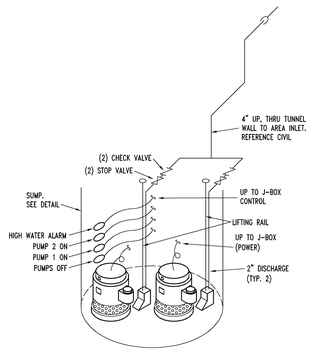
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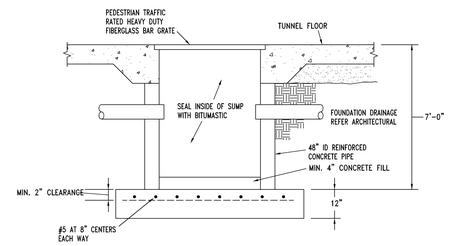
SECTION A

BLOCKING DIMENSIONS IN INCHES																				
PIPE DIA.	TEES						PLUGS			90° BEND			45° BEND			22.5° BEND				
	A	B	C	D	E	F	A	B	C	A	B	C	A	B	C	A	B	C		
4"	13	22	9	13	–	–	13	22	9	18	12	9	9	12	12	6	12	12		
6"	24	30	16	16	6	6	24	30	12	24	18	16	10	24	12	7	18	12		
8"	34	32	21	18	7	6	34	32	18	30	26	21	13	36	18	9	24	18		
10"	40	42	23	22	8	6	40	42	24	35	34	24	18	38	27	12	30	27		

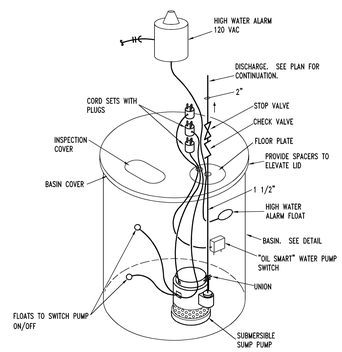
A3 Concrete Blocking Detail
No Scale



B2 Foundation/Tunnel Drainage Sump
No Scale



A2 Foundation/Tunnel Drainage Pump
No Scale
Elevator Sump - Similar Except 24" I.D. and 3'-0" deep



A1 Sump Pump Detail
No Scale Elevator Pit

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KANSAS
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PROFESSIONAL
ENGINEER
4-15-15

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- 4-15-15

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- 2-9-15
- 3-10-15

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DATE: 4-15-15

FIRST FLOOR PLAN - BELOW-GRADE PLUMBING

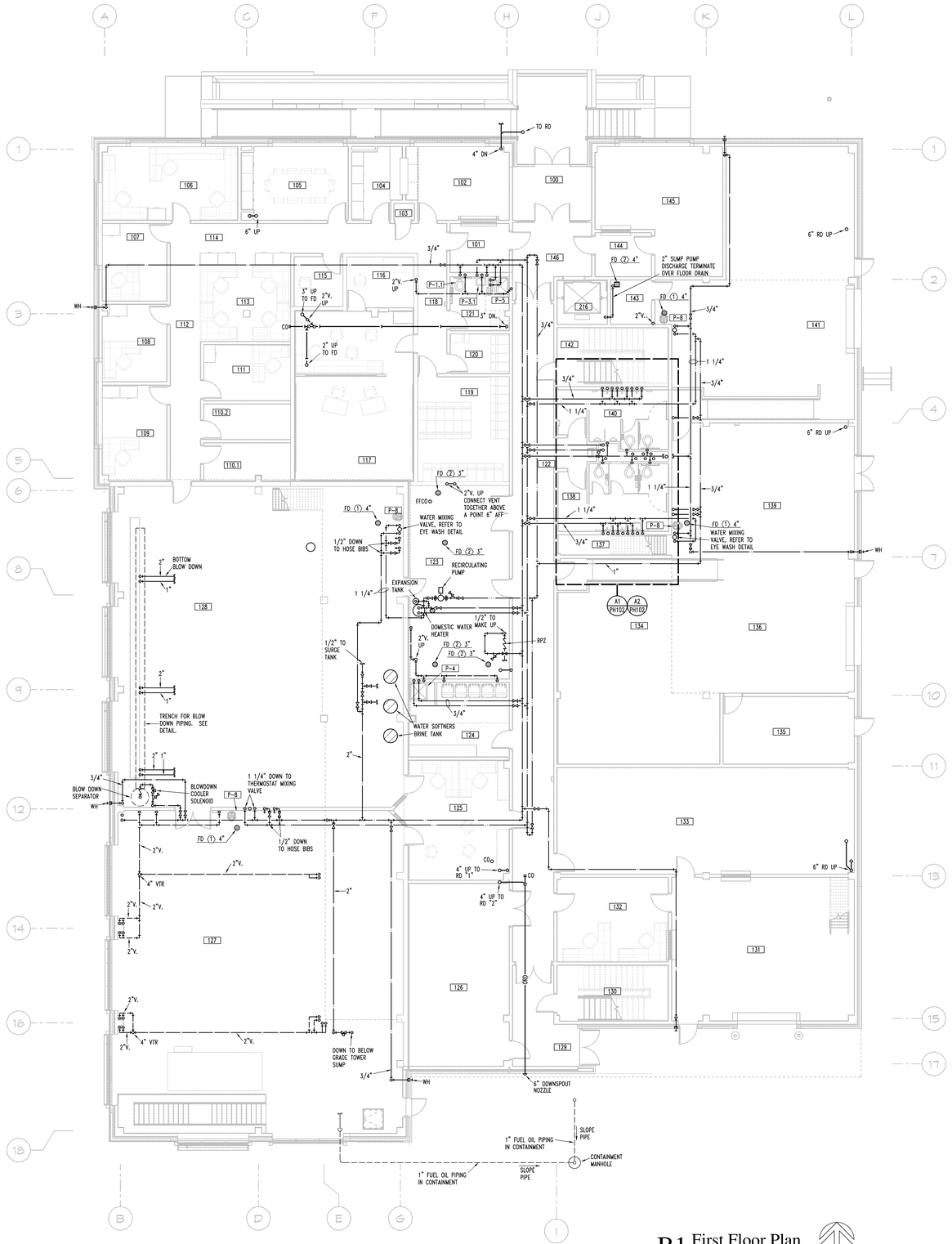
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PH101

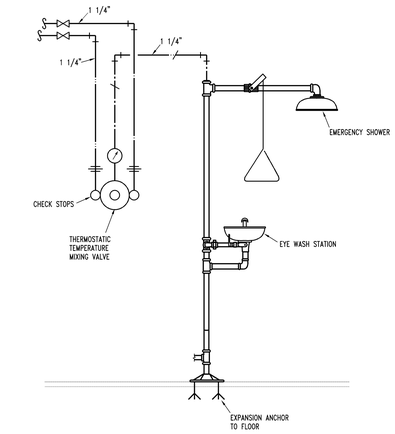
CONSTRUCTION DOCUMENTS

PH101.dwg 04/14/15 DJD

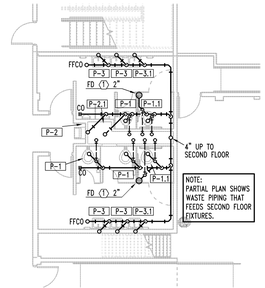
JCSBC
2-2-2016
Att.9C--0075



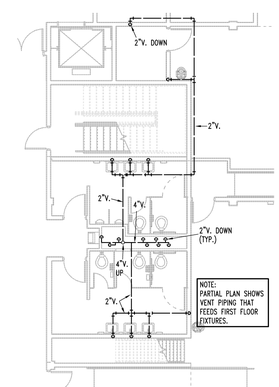
B1 First Floor Plan
1/8"=1'-0" Plumbing N.



A3 Emergency Shower and Eyewash Detail
No Scale



A2 Partial First Floor Plan
1/8"=1'-0" Plumbing N.



A1 Partial First Floor Plan
1/8"=1'-0" Plumbing N.

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LSA PROJECT NO. 1402032

LICENSED PROFESSIONAL ENGINEER 10530 4-15-15

DATE:
- 4-15-15

REVISED DATE:
- 12-18-14
- 2-9-15
- 3-10-15

HTK PROJECT NUMBER:
- 1410.03

Department of Administration
Office of Facilities and Property Management
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Topeka, Kansas 66612-1216
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STATE OF KANSAS
STATE OF KANSAS ENERGY & SERVICE CENTER
Seventh & Van Buren Street, Topeka, Kansas
BUILDING NUMBER 1730000038
DATE: 4-15-15 DRAWN BY: CAD CHECKED BY: WRB REV: WRB

FIRST FLOOR PLAN - PLUMBING

A-012651

PH102

CONSTRUCTION DOCUMENTS

... PH102.dwg 1 04/15/15 dtc

JCSBC
2-2-2016
Att.9C.--0076