INFECTION CONTROL NOTES

LOW ASSESMENT AREA:

NO WORK SHALL COMMENCE WITHOUT PRIOR SCHEDULING WITH AND APPROVAL OF CONSTRUCTION MANAGER. ALL FURNITURE, SHELVING AND EQUIPMENT TO REMAIN IN PLACE DURING CONSTRUCTION SHALL BE PROTECTED WITH PLASTIC SHEETING, SEALED WITH TAPE.

EQUIPMENT REQUIRING AIR CIRCULATION OR VENTILATION SHALL NOT HAVE AIR FLOW RESTRICTED WITH PLASTIC SHEETING.

TO MINIMIZE DUST AND DEBRIS, VACUUM TOP OF CEILING TILES TO EXTENT POSSIBLE BEFORE REMOVING FROM GRID. CLEAN WITH DAMP CLOTH ALL SPRINKLER PIPE PRIOR TO REMOVAL FROM CEILING SPACE.

CONTAIN ALL DEMOLITION PRODUCT IN SEALED BAGS OR SEALED PLASTIC SHEETING PRIOR TO REMOVAL FROM CONSTRUCTION AREA.

ALL CEILING TILES REMOVED FOR DUCTWORK INSTALLATION SHALL BE REINSTALLED AT THE END OF EVERY WORK SHIFT TO MAINTAIN SMOKE BARRIER. VACUUM CEILING TILES PRIOR TO REINSTALLATION.

VACUUM AREA OF CONSTRUCTION WITH HEPA FILTERED VACUUM AT THE END OF EVERY WORK SHIFT. DAMP MOP FLOOR.

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

MEDIUM ASSESMENT AREA:

NO WORK SHALL COMMENCE WITHOUT PRIOR SCHEDULING WITH AND APPROVAL OF CONSTRUCTION MANAGER AND SUITE, FLOOR OR DEPARTMENT PERSONNEL. ALL FURNITURE, SHELVING AND EQUIPMENT TO REMAIN IN PLACE DURING CONSTRUCTION SHALL BE PROTECTED WITH PLASTIC SHEETING, SEALED WITH TAPE.

EQUIPMENT REQUIRING AIR CIRCULATION OR VENTILATION SHALL NOT HAVE AIR FLOW RESTRICTED WITH PLASTIC SHEETING.

AREA OF CONSTRUCTION SHALL BE ISOLATED TO PREVENT DIRT AND DEBRIS FROM CONTAMINATING ADJACENT SPACES DURING CONSTRUCTION.

IF ISOLATION CANNOT BE ACCOMPLISHED BY CLOSING OF DOORS, INSTALL TEMPORARY FIRE–RETARDANT POLYSTYRENE BARRIER WALL (MINIMUM 6 MIL THICKNESS), FULL HEIGHT, FLOOR TO CEILING. TAPE FULL PERIMETER OF SHEETING AT BOTH CEILING AND FLOOR TO PROVIDE DUST TIGHT SEAL BETWEEN BARRIER WALL, CEILING AND FLOOR. ALTERNATE TEMPORARY WALL SUPPORT/HEADER SYSTEM WHICH PROVIDES DUST TIGHT SEAL IS ACCEPTABLE FOR USE WITH PRIOR APPROVAL OF HOSPITAL INFECTION CONTROL REPRESENTATIVE. PROVIDE ZIPPER ACCESS THROUGH TEMPORARY WALL AND MINIMUM 24" X 30" MULTI–SHEET, DISPOSABLE TACK MAT AT POINT OF ENTRY TO CONSTRUCTION AREA.

PROVIDE PORTABLE AIR SCRUBBER(S) WITH HEPA FILTRATION TO MAINTAIN NEGATIVE AIR PRESSURE WITHIN THE CONSTRUCTION AREA. PROVIDE ELECTRONIC DIFFERENTIAL PRESSURE MONITOR WITH CONTINUOUS READ–OUT AND PROGRAMMABLE ALARM SETPOINTS. FILTERED AIR SHALL DISCHARGE TO OUTSIDE THE BUILDING OR ABOVE CEILING.

CONTAIN ALL DEMOLITION PRODUCT IN SEALED BAGS OR SEALED PLASTIC SHEETING PRIOR TO REMOVAL FROM CONSTRUCTION AREA.

ALL CEILING TILES REMOVED FOR DUCTWORK INSTALLATION SHALL BE REINSTALLED AT THE END OF EVERY WORK SHIFT TO MAINTAIN SMOKE BARRIER. VACUUM CEILING TILES PRIOR TO FINAL REINSTALLATION.

VACUUM AREA OF CONSTRUCTION WITH HEPA FILTERED VACUUM AT THE END OF EVERY WORK SHIFT. DAMP MOP FLOOR.

DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL SYSTEM HAS BEEN TESTED AND COMPLETED PHASE IS INSPECTED BY THE VA COTR, INFECTION CONTROL REPRESENTATIVE, AND SAFETY DEPARTMENT. CLEAN AREA THOROUGHLY BEFORE SCHEDULING INSPECTION.

CLEAN TEMPORARY BARRIER AND REMOVE CAREFULLY TO MINIMIZE SPREAD OF DIRT AND DEBRIS.

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

HIGH ASSESMENT AREA:

NO WORK SHALL COMMENCE WITHOUT PRIOR SCHEDULING WITH AND APPROVAL OF CONSTRUCTION MANAGER AND SUITE, FLOOR OR DEPARTMENT PERSONNEL. ALL FURNITURE, SHELVING AND EQUIPMENT TO REMAIN IN PLACE DURING CONSTRUCTION SHALL BE PROTECTED WITH PLASTIC SHEETING, SEALED WITH TAPE.

EQUIPMENT REQUIRING AIR CIRCULATION OR VENTILATION SHALL NOT HAVE AIR FLOW RESTRICTED WITH PLASTIC SHEETING.

AREA OF CONSTRUCTION SHALL BE ISOLATED TO PREVENT DIRT AND DEBRIS FROM CONTAMINATING ADJACENT SPACES DURING CONSTRUCTION.

ALL PERSONNEL ARE REQUIRED TO WEAR CLOTH OR PAPER COVERALLS AND SHOE COVERS IN AREA OF CONSTRUCTION. NEW SHOE COVERS SHALL BE USED EVERY TIME A WORKER ENTERS THE CONSTRUCTION AREA.

INSTALL TEMPORARY FIRE–RETARDANT POLYSTYRENE BARRIER WALL (MINIMUM 6 MIL THICKNESS), FULL HEIGHT, FLOOR TO CEILING. TAPE FULL PERIMETER OF SHEETING AT BOTH CEILING AND FLOOR TO PROVIDE DUST TIGHT SEAL BETWEEN BARRIER WALL, CEILING AND FLOOR. ALTERNATE TEMPORARY WALL SUPPORT/HEADER SYSTEM WHICH PROVIDES DUST TIGHT SEAL IS ACCEPTABLE FOR USE WITH PRIOR APPROVAL OF HOSPITAL INFECTION CONTROL REPRESENTATIVE. PROVIDE ZIPPER ACCESS THROUGH TEMPORARY WALL.

WHEN CEILING IS REMOVED, EXTEND TEMPORARY BARRIER WALL UP TO STRUCTURE ABOVE TO PREVENT INFILTRATION THROUGH CEILING SPACE.

PROVIDE MINIMUM 24" X 30" MULTI–SHEET, DISPOSABLE TACK MAT AT POINT OF ENTRY TO CONSTRUCTION AREA. REFRESH MAT FREQUENTLY DURING EVERY WORK SHIFT.

PROVIDE PORTABLE AIR SCRUBBER(S) WITH HEPA FILTRATION TO MAINTAIN NEGATIVE AIR PRESSURE WITHIN THE CONSTRUCTION AREA. PROVIDE ELECTRONIC DIFFERENTIAL PRESSURE MONITOR WITH CONTINUOUS READ–OUT AND PROGRAMMABLE ALARM SETPOINTS. FILTERED AIR SHALL DISCHARGE TO OUTSIDE THE BUILDING WHERE POSSIBLE.

INDOOR AIR QUALITY SHALL BE MONITORED BY THE HOSPITAL INFECTION CONTROL DEPARTMENT. ANY VIOLATIONS SHALL BE ADDRESSED IMMEDIATELY AND APPROVED BY THE HOSPITAL PRIOR TO PROCEEDING WITH WORK.

CONTAIN ALL DEMOLITION PRODUCT TIGHTLY COVERED CONTAINERS, SEALED BAGS OR SEALED PLASTIC SHEETING PRIOR TO REMOVAL FROM CONSTRUCTION AREA.

ALL CEILING TILES REMOVED FOR DUCTWORK INSTALLATION SHALL BE REINSTALLED AT THE END OF EVERY WORK SHIFT TO MAINTAIN SMOKE BARRIER. VACUUM CEILING TILES PRIOR TO FINAL REINSTALLATION.

VACUUM AREA OF CONSTRUCTION WITH HEPA FILTERED VACUUM AT THE END OF EVERY WORK SHIFT. DAMP MOP FLOOR.

DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL SYSTEM HAS BEEN TESTED AND COMPLETED PHASE IS INSPECTED BY THE VA COTR, INFECTION CONTROL REPRESENTATIVE, AND SAFETY DEPARTMENT. CLEAN AREA THOROUGHLY BEFORE SCHEDULING INSPECTION.

CLEAN TEMPORARY BARRIER AND REMOVE CAREFULLY TO MINIMIZE SPREAD OF DIRT AND DEBRIS.

REFER TO SPEICIFCATIONS FOR ADDITIONAL REQUIREMENTS.

MECHANICAL GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS, AND ALL BUILDING SERVICES.
2. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
3. SUPPORTS, ANCHOR BOLTS, AND HANGERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 23 SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT SPECIFIED IN DIVISION 23 SHALL BE FURNISHED AS PART OF SCOPE OF WORK OF DIVISION 23.
4. DIFFUSERS, REGISTERS, AND GRILLES SHOWN ON THE MECHANICAL DRAWINGS SHALL BE IN ACCORDANCE WITH THE DIFFUSER AND GRILLE SCHEDULE. BRANCH DUCTS TO AIR DEVICES SHALL BE IN ACCORDANCE WITH THE SCHEDULE UNLESS NOTED OTHERWISE.
5. CEILING DIFFUSER LOCATIONS SHALL BE AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
6. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE.
7. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES. REFER TO SPECIFICATIONS FOR SERVICE PRIORITY.
8. COORDINATE ANY DEVICE REQUIRING AN ACCESS PANEL WITH THE ARCHITECT.
9. WHERE WORK IN RENOVATED AREAS AFFECTS SYSTEMS IN OTHER AREAS OF THE HOSPITAL, THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE OWNER. THIS WORK SHALL BE DONE TO FIT HOSPITAL OPERATIONAL SCHEDULE AND MINIMIZE DISRUPTION/DISCOMFORT TO OCCUPIED AREAS. PROVIDE 48 HOURS WRITTEN NOTICE WITH ANTICIPATED DURATION OF OUTAGE.
10. COORDINATE WITH ALL TRADES FOR REQUIRED CEILING REMOVAL IN EXISTING BUILDING. NOTIFY THE ARCHITECT AND OWNER PRIOR TO COMMENCING REMOVAL. REMOVE ONLY THAT PORTION OF CEILING NECESSARY TO ACCESS AND COMPLETE THE NEW WORK. UPON COMPLETION OF THE ABOVE CEILING WORK, CEILING IS TO BE REINSTALLED. REPLACE ANY DAMAGED CEILING TILES WITH NEW TILES TO MATCH EXISTING.

MECHANICAL DEMOLITION NOTES

1. CONTRACTOR SHALL TAKE AIR READINGS OF ALL GRILLES, REGISTERS, AND DIFFUSERS IN PROJECT AREAS PRIOR TO DEMOLITION. RECORD AND SUBMIT TO ARCHITECT/ENGINEER.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CONDITION OF ALL EXISTING EQUIPMENT, EXACT SIZES OF EXISTING DUCT AND PIPING, ETC. BEFORE DEMOLITION WORK IS BEGUN. REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS TO ARCHITECT AND ENGINEER PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK.
3. REMOVE THE INDICATED HVAC ITEMS AS SHOWN ON PLANS. THIS INCLUDES ALL HANGERS, STRAPS AND RELATED MATERIAL. AS DIRECTED FROM THE OWNER THIS MATERIAL SHALL BE REMOVED FROM THE SITE OR TURNED OVER TO THE OWNER.
4. CAP AND SEAL AIR TIGHT ALL POINTS AT WHICH DUCTWORK IS REMOVED FROM DUCTWORK THAT WILL REMAIN. RE–INSULATE REMAINING DUCTWORK TO MAINTAIN VAPOR BARRIER.
5. PATCH OPENINGS IN WALLS TO MAINTAIN THE INTEGRITY OF THE WALL WHERE AIR DEVICES HAVE BEEN REMOVED.
6. CONTRACTOR SHALL VERIFY CLEARANCE REQUIREMENTS AND INDICATE ROUTING OF NEW DUCTWORK BEFORE FABRICATION BEGINS AS RISES AND DROPS MAY BE NECESSARY DUE TO EXISTING FIELD CONDITIONS.

SPS SECURITY REQUIREMENTS

1. ACCESS TO SPS/SPD UNIT SHALL BE THROUGH SECURED ENTRANCE ANTE–ROOM WITH STAFF NOTIFICATION AND APPROVAL.
2. CONTRACTORS SHALL BE FULLY GOWNED WITH PROTECTIVE DISPOSABLE COVERALLS AND SHOE COVERS WHILE WORKING IN THE SDS/SPD DEPARTMENT. PROTECTIVE WEAR SHALL BE REMOVED WHEN EXITING THE DEPARTMENT AND ENTERING THE GENERAL HOSPITAL. GOWNING SHALL TAKE PLACE IN THE DEPARTMENT ANTE–ROOM(S) UPON ENTERING AND EXITING THE DEPARTMENT.
3. WORKERS WORKING EITHER IN THE SUBBASEMENT OR IN ROOM BA 113, SPS DECONTAMINATION CANNOT GO DIRECTLY TO ROOM BA 110, SPS PREPERATION. THEY MUST REMOVE ANY GOWN UP PPR (DECON) OR WIPE DOWN CLOTHING AND BOOTS (SUBBASEMENT), BEFORE GOING TO THE SPS PREP ANTE–ROOM (B) FOR STERILE GOWN UP PPE.

PENETRATIONS

1. LOCATIONS OF ALL NEW FLOOR PENETRATIONS SHALL BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO CORE DRILLING. NO PENETRATIONS ARE ALLOWED THROUGH THE EXISTING THICKENED SLAB WHICH EXTENDS APPROXIMATELY SIX FEET FROM EDGE OF COLUMNS. PIPING FOR FIXTURES LOCATED ABOVE THE THICKENED SLAB SHALL BE OFFSET ABOVE FLOOR IN WALL SPACE OR BELOW CASEWORK TO AVOID STRUCTURAL SLAB PENETRATION.
2. ALL PENETRATIONS MADE IN FLOORS, CEILINGS, FIRE/SMOKE BARRIERS, PARTITIONS, ETC. CREATED FOR THE PURPOSE OF INSTALLING/REMOVING PIPE, CONDUIT, CABLE, OR DUCTWORK, OTHER MODIFICATIONS INCLUDING INCIDENTAL DAMAGE, OR THE REMOVAL OF SUCH ITEMS WILL BE REPAIRED/SEALED WITH FIRE STOPPING MATERIAL UPON COMPLETION OF THE WORK AND DOCUMENTED AS REPAIRED. FIRE STOPPING MATERIAL MUST MEET NFPA 101 (2012) 8.3.5 AND 8.4.4 STANDARDS TO ENSURE THE ORIGINAL INTEGRITY AND RATING FOR THE PENETRATED SURFACE IS RESTORED. TEMPORATY METHODS OF SEALING SHALL BE USED IF WORK CANNOT BE COMPLETED WITHIN 24 HOURS. THIS POLICY APPLIES TO ALL VERTICAL AND HORIZONTAL PENETRATIONS AND TO ALL ECHCS STAFF AND CONTRACTORS. A PENETRATION PERMIT WILL BE OBTAINED 24 HOURS IN ADVANCE, FROM THE FACILITIES SAFETY OFFICE, PRIOR TO THE WORK. UPON COMPLETIONS OF ANY PENETRATION REPAIR, A VISUAL INSPRCTION FOR APPROVAL MUST BE REQUESTED FROM THE COTR AND SAFETY OFFICE.

INFECTION CONTROL RISK ASSESSMENT

BASEMENT (EXCLUDING SPS/SPD

LOW ASSESSMENT AREA

SPS/SPD DEPARTMENT:

HIGH ASSESSMENT AREA

MECHANICAL LEGEND

(NOT ALL SYMBOLS MAY BE USED)

PIPING

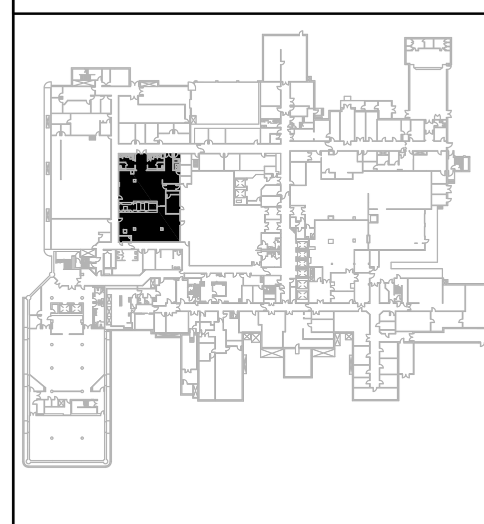
Symbol	Description
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
HPS	HIGH PRESSURE STEAM
MPS	MEDIUM PRESSURE STEAM
LPS	LOW PRESSURE STEAM
HPC	HIGH PRESSURE CONDENSATE
MPC	MEDIUM PRESSURE CONDENSATE
LPC	LOW PRESSURE CONDENSATE
PCR	PUMPED CONDENSATE RETURN
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
D	DRAIN LINE
	DIRECTION OF FLOW
	REDUCER
	SLOPE PIPE IN THIS DIRECTION
	RISE/DROP IN PIPE ELEVATION
	ELBOW UP
	ELBOW DOWN
	BRANCH PIPE CONNECTION
	TEE – OUTLET DOWN
	TEE – OUTLET UP
EOM	END OF MAIN DRIP
PRV	PRESSURE REDUCING VALVE
	GATE VALVE
	GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CONTROL VALVE, 2 WAY
	CONTROL VALVE, 3 WAY
	CHECK VALVE
	STRAINER
	STRAINER & BLOWDOWN VALVE
	PLUG COCK/BALANCING VALVE
	CIRCUIT SETTER
	PRESSURE REDUCING VALVE
	COMPANION FLANGE
	UNION
	GUIDE
	ANCHOR
	FLEXIBLE CONNECTOR
	THERMOMETER WELL
P	PETE'S PLUG
	VALVE WITH BLIND FLANGE
	PIPE CAP
	STEAM TRAP
	GAUGE & GAUGE COCK
	THERMOMETER

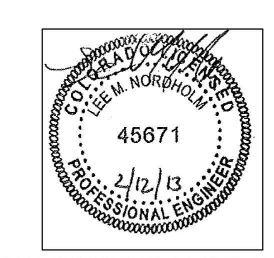
DUCTWORK

12"X12" FACE	24"X24" FACE	Description
100	100	SUPPLY DIFFUSER AND AIR QUANTITY. SHADED AREA INDICATES NO THROW IN THIS DIRECTION.
100R	100R	RETURN GRILLE AND AIR QUANTITY.
100E	100E	EXHAUST GRILLE AND AIR QUANTITY.
	100	LAMINAR FLOW SUPPLY DIFFUSER AND AIR QUANTITY.
	100	LINEAR DIFFUSER AND AIR QUANTITY.
		THERMOSTAT OR TEMPERATURE SENSOR
		HUMIDISTAT OR HUMIDITY SENSOR
	SD	SMOKE DETECTOR
	XXX XX	REHEAT BOX WITH IDENT. & CFM
	RHC–XX	REHEAT COIL WITH IDENT.
		ACCESS DOOR
		3/4" UNDERCUT AT DOOR
	AD	ACCESS DOOR
	AFF	ABOVE FINISHED FLOOR
	ATC	AUTOMATIC TEMPERATURE CONTROL PANEL
	BDD	BACKDRAFT DAMPER
	BOD	BOTTOM OF DUCT
	BOP	BOTTOM OF PIPE
	CB	CIRCUIT BREAKER
	CCT	CONTROL CIRCUIT TRANSFORMER
	DDC	DIRECT DIGITAL CONTROL
	EXH	EXHAUST
	ML	MARINE LIGHT
	MVD	MANUAL VOLUME DAMPER
	OA	OUTSIDE AIR
	OBD	OPPOSED BLADE DAMPER
	RA	RETURN AIR
	SA	SUPPLY AIR
	SWR	SIDEWALL REGISTER
	UNO	UNLESS NOTED OTHERWISE
	VFD	VARIABLE FREQUENCY DRIVE

Symbol	Description
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	FIRE/SMOKE DAMPER
	SUPPLY DUCT– UP
	RETURN OR EXHAUST DUCT – UP
	SUPPLY DUCT – DOWN
	RETURN OR EXHAUST DUCT – DOWN
H–XX	HUMIDIFIER WITH IDENTIFICATION
MVD	MANUAL VOLUME DAMPER
M	MOTORIZED DAMPER
	TRANSITION
	RADIUS ELBOW
	SQUARE THROAT ELBOW WITH TURNING VANES
	BRANCH DUCT CONNECTION RECTANGULAR OR ROUND BRANCH. RECTANGULAR TRUNK. MVD REQUIRED TO 2 OR MORE AIR DEVICES.
R/D	RISE/DROP IN ELEVATION
X	SPLITTER WITH SPLIT SIZES SHOWN
X	SPLITTER WITH SPLIT SIZES SHOWN
	BRANCH DUCT CONNECTION CONICAL TEE. ROUND TRUNK.
	BRANCH DUCT CONNECTION STRAIGHT TEE. ROUND TRUNK. MVD REQUIRED TO 2 OR MORE AIR DEVICES.

KEY PLAN





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FULLY SPRINKLERED

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Drawing Title	MECHANICAL LEGEND AND NOTES
Approved: Project Director	
Project Title	SPS PIPING AND EQUIPMENT SITE PREP
Location	DENVER VA MEDICAL CENTER
Date	12 FEB, 2013
Checked	LMN
Drawn	SOH
Project Number	554-12-810
Building Number	BUILDING 1
Drawing Number	M000
Dwg.	8 of 19

Office of Construction and Facilities Management

Department of Veterans Affairs

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