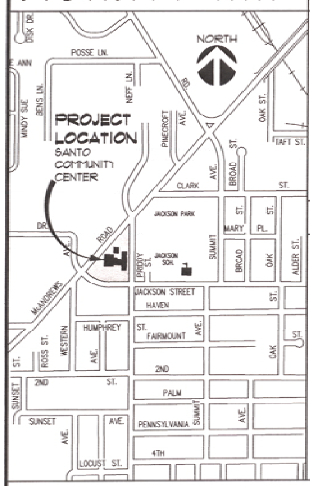
SANTO COMMUNITY CENTER PHASE 3
GYMNASIUM ADDITION

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. ENTITIES PERFORMING WORK OF THIS PROJECT SHALL VERIFY EXISTING SITE CONDITIONS WITH THOSE SHOWN ON THE DRAWINGS. SUCH ENTITIES SHALL OBTAIN CLARIFICATION OR DIRECTION FROM THE ARCHITECT PRIOR TO PROCEEDING IF DISCREPANCIES ARE FOUND.
2. ENTITIES PERFORMING WORK OF THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK AND SITE ACCESSIBILITY FOR THE WORK. SUCH ENTITIES ARE REMINDED THAT THE PROJECT DOCUMENTS DESCRIBE CONDITIONS OF THE SITE AS IT EXISTED AT THE TIME OF DRAWING. CLARIFICATION OF DIRECTION FROM THE ARCHITECT SHALL BE OBTAINED PRIOR TO PROCEEDING WITH THE WORK FOR DEVIATIONS FOUND DURING THIS FAMILIARIZATION.
3. ENTITIES PERFORMING WORK OF THIS PROJECT ARE RESPONSIBLE FOR THE PROTECTION OF EXISTING SITE AND BUILDING ELEMENTS THAT REMAIN IN THE FINISHED WORK FROM DELETERIOUS EFFECTS OF WEATHER WHEN SUCH ELEMENTS ARE EXPOSED BEYOND THEIR NORMAL CONDITION BY WORK OF THIS PROJECT. SUCH ENTITIES SHALL, AT NO EXPENSE TO ANYONE EXCEPT THE RESPONSIBLE ENTITY, RETURN TO PRE-CONSTRUCTION CONDITIONS ALL ELEMENTS DAMAGED BY FAILURE TO PROTECT THESE ELEMENTS.
4. DAMAGE TO EXISTING SITE AND BUILDING ELEMENTS AS WELL AS NEW IN-PLACE CONSTRUCTION--TO INCLUDE MECHANICAL, PLUMBING, LANDSCAPING, IRRIGATION AND ELECTRICAL SYSTEMS--SHALL BE REPAIRED TO CONDITIONS EXISTING PRIOR TO DAMAGE OCCURRING.
5. WORK OF THIS PROJECT SHALL BE PERFORMED AND COMPLETED IN COMPLIANCE WITH FIRE AND LIFE SAFETY CODES IN EFFECT AT THE TIME OF CONSTRUCTION.
6. CONSTRUCTION MATERIALS AND METHODS, UNLESS SHOWN SPECIFICALLY BY THE DRAWINGS, ARE TO BE SELECTED AND INSTALLED BY ENTITIES PERFORMING WORK OF THIS PROJECT IN COMPLIANCE WITH BUILDING CODE AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT. WHERE MATERIALS AND FINISHES ARE SPECIFIED BY THE DOCUMENTS, COMPLY WITH THE INSTALLATION AND FINISHING REQUIREMENTS OF THE MANUFACTURERS AND/OR SUPPLIERS OF SUCH MATERIALS AND FINISHES.
7. WHERE THE WORK OF THIS PROJECT INVOLVES WORK IN RIGHTS-OF-WAY, PERFORM SUCH WORK IN COMPLIANCE WITH CITY OFFICIALS HAVING JURISDICTION. ERECT AND MAINTAIN SAFETY BARRIERS AND SIGNALS AS NEEDED TO PROTECT PUBLIC INDIVIDUALS. PERFORM CLEANING TO MAINTAIN EXISTING RIGHTS-OF-WAY CONDITIONS AS CLOSE TO PRE-CONSTRUCTION CONDITIONS AS POSSIBLE.

VICINITY MAP



GOVERNING CODES

THE DESIGN OF THIS PROJECT IS BASED ON THE FOLLOWING CODES:

- THE 2004 OREGON STRUCTURAL SPECIALTY CODE BASED ON THE 2003 INTERNATIONAL BUILDING CODE
- THE OREGON STATE FIRE CODE, BASE ON THE 2003 INTERNATIONAL FIRE CODE
- THE OREGON ELECTRICAL SPECIALTY CODE, LATEST EDITION
- THE OREGON MECHANICAL SPECIALTY CODE, LATEST EDITION
- THE OREGON PLUMBING SPECIALTY CODE, LATEST EDITION
- NFPA 13, INSTALLATION OF FIRE SPRINKLER SYSTEMS

SITE INFORMATION

MAP: 37 2W 24 CC,
TAX LOT: 3100
ADDRESS: 701 COLUMBUS AVENUE NORTH
ZONE: SFR 10
CURRENT USE: COMMUNITY CENTER
PROPOSED USE: COMMUNITY CENTER

LEGEND AND SYMBOLS

MATCH LINE CUT — BUILDING OR SEGMENT IDENTIFICATION; DWG. NUMBER WHERE SEGMENT IS DRAWN

DETAIL — DETAIL IDENTIFICATION; DWG. NUMBER WHERE DETAIL IS DRAWN

WALL CROSS SECTION — SECTION IDENTIFICATION; DWG. NUMBER WHERE SECTION IS DRAWN

BUILDING CROSS SECTION — SECTION IDENTIFICATION; DWG. NUMBER WHERE SECTION IS DRAWN

GRID LINE — TOP TO BOTTOM, LETTERS; LEFT TO RIGHT, NUMBERS

ROOM IDENTIFICATION — OFFICE: ROOM NAME; 1234: ROOM NUMBER; DETAIL NUMBER ON INTERIOR ELEVATION SHEET; DWG. NUMBER WHERE INT ELEVATION IS DRAWN

BUILDING ELEVATION — ELEVATION IDENTIFICATION; DWG. NUMBER WHERE ELEVATION IS DRAWN

NORTH — **NORTH ARROW** — ARROW INDICATES PLAN NORTH

SEE INDIVIDUAL SHEETS FOR ADDITIONAL LEGENDS AND SYMBOLS

DOOR IDENTIFICATION — ROOM NUMBER OF DOOR

WINDOW IDENTIFICATION — WINDOW NUMBER; GLAZING TYPE MODIFIER

TYPICAL SUITE IDENTIFICATION — SUITE TYPE

EQUIPMENT IDENTIFICATION — EQUIPMENT NUMBER

OFCI ITEM — ITEM NUMBER (SEE OFCI LIST)

WALL TYPE IDENTIFICATION — WALL TYPE MODIFIERS; WALL TYPE

LOUVER IDENTIFICATION — LOUVER NUMBER

HVAC EXHAUST
HVAC RETURN
HVAC SUPPLY
LIGHTING SYMBOL
LIGHTING SYMBOL
LIGHTING SYMBOL
CENTER LINE
F.O.M. — FACE OF MASONRY
F.O.C. — FACE OF CONCRETE
F.O.S. — FACE OF STUD / STRUC
F.O. FIN. — FACE OF FINISH
TARGET POINT OR + LEVEL LINE + ELEVATION

MATERIALS LEGEND

LARGE SCALE DETAIL MATERIALS

- EARTH
- GRAVEL, ROCK
- SAND GROUT
- CONCRETE
- METAL
- DIMENSIONAL LUMBER
- BLOCKING SHIM
- FINISH WOOD
- PLYWOOD
- CEILING/ ACOUSTIC TILE/ PANEL
- BATT INSULATION
- CONCRETE BLOCK

NOTE: ALL MATERIAL SYMBOLS ABOVE MAY NOT NECESSARILY BE USED IN THIS PROJECT

SEE INDIVIDUAL SHEETS FOR ADDITIONAL LEGENDS AND SYMBOLS

JOB LOCATION MUST HAVE ADDRESS, APPROVED PLANS AND JOB CARD ON SITE.

CITY OF MEDFORD
REVIEWED PLANS
THESE PLANS AS AMENDED BY THE ATTACHED PLANS EXAMINATION CHECKLIST, HAVE BEEN REVIEWED FOR CONFORMANCE WITH STATE AND CITY CODES. ANY PROPOSED CHANGES FROM REVIEWED PLANS SHALL BE SUBMITTED FOR REVIEW BEFORE CONSTRUCTION. NO AUTHORIZATION IS IMPLIED FOR ANY CONSTRUCTION WHICH IS IN VIOLATION OF ANY OF THE PROVISIONS OF STATE AND CITY CODES. THIS PLAN REVIEW SHALL NOT PREVENT THE CORRECTION OF ERRORS OR VIOLATIONS THAT ARE FOUND TO EXIST IN THE SUBJECT CONSTRUCTION.
PLANS CHECKED BY [signature] DATE 5/13/2008

ABBREVIATIONS

NOTE: ABBREVIATIONS BELOW MAY NOT INCLUDE ALL FOUND WITH DRAWINGS

ABV	ABOVE
AC	ASPHALTIC CONCRETE
ACT	ACOUSTIC CEILING TILE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ASW	AREA SEPARATION WALL
BD	BOARD
BLDG	BUILDING
B.O.	BOTTOM OF
BM	BEAM
CBC	CALIFORNIA BUILDING CODE
C.F.C.I.	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET
CR	CLASSROOM
CTB	COMPUTER TERMINAL BOARD
CTSK	COUNTERSUNK
DBL	DOUBLE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIMS	DIMENSIONS
DW	DISHWASHER
D.P.	DISABLED PERSON
EA	EACH
ELE	ELECTRICAL
ELECT	ELECTRICAL
EM	ENTRANCE MATTING
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL(Y)
EX	EXISTING
EXT	EXTERIOR
E.J.	EXPANSION JOINT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FHSMS	FLAT HEAD SHEET METAL SCREWS
FIN	FINISH(ED)
FRMG	FRAMING
FRZR	FREEZER
FTG	FOOTING
F.E.C.	FIRE EXTINGUISHER CABINET
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD/ STRUCTURE
F.R.	FIRE RESISTANT
GA	GAUGE
GA	GYPSUM ASSOCIATION
GALV.	GALVANIZED
GYPBD	GYPSUM BOARD
G.B.	GRAB BAR
G.I.	GALVANIZED IRON
G.S.	GALVANIZED STEEL
	HIGH
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HGT	HEIGHT
HR	HOUR
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HW	HOT WATER
H.C.	HANDICAP
INSUL	INSULATION
IR	INSIDE RADIUS
JST	JOIST
KS	KNEE SPACE
LPG	LIQUID PROPANE GAS
	MIRROR
MAX	MAXIMUM
MB	MACHINE BOLT
MB	MARKER BOARD
MDL	MODEL
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MPH	MILES PER HOUR
MW	MICROWAVE
N.I.C.	NOT IN CONTRACT
OCC	OCCUPANCY
OPNG	OPENING
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
P	PAINT
P LAM	PLASTIC LAMINATED
PSF	POUNDS PER SQUARE FOOT
PWC	PLASTIC WALL COVERING
PWD	PLYWOOD
PWP	PLASTIC WALL PANEL
P.T.	PRESSURE TREATED
REF	REFRIGERATOR
RM	ROOM
R.O.	ROUGH OPENING
SEP	SEPARATION
SF	SQUARE FEET
SQ. FT.	SQUARE FEET
SHTG	SHEATHING
SIM	SIMILAR
SM	SHEET METAL
SMS	SHEET METAL SCREWS
SPECS	SPECIFICATIONS
STB	SIGNAL TERMINAL BACKBOARD
STL	STEEL
STRUCT	STRUCTURAL/STRUCTURE
S.S.	STAINLESS STEEL
TRSFR	TRANSFORMER/ TRANSFER
TS	TUBE STEEL
TTB	TELEPHONE TERMINAL BACKBOARD
TVB	CATV TERMINAL BACKBOARD
TYP	TYPICAL
T.H.	THRESHOLD
T.O.	TOP OF
UL	UNDERWRITERS LABORATORY
UTIL	UTILITY
U.O.N.	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
V-NR	TYPE 5, NON-RATED
V-1HR	TYPE 5, 1 HOUR
VWC	VINYL WALL COVERING
WBG	WALL BUMPER GUARD
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
W.C.	WATER CLOSET
W.S.	WOOD SCREW
W/	WITH

BUILDING CODE DATA

(BASED ON THE 2004 OREGON STRUCTURAL SPECIALTY CODE

CONSTRUCTION TYPE: III-B

OCCUPANCY GROUPS: A3 (NEW GYMNASIUM AND EXISTING DRILL ROOM)
B (NEW LOBBY AND EXISTING COMMUNITY CENTER

FIRE SPRINKLING: YES (NEW GYMNASIUM ONLY)
STORIES: ONE
HEIGHT: 32 FEET (TO CENTER OF SLOPED ROOF)
YARDS: ALL PERIMETERS ARE GREATER THAN 60'
SEPARATED USES: 2-HOUR BETWEEN A3 AND B OCCUPANCIES
INCIDENTAL USES: NONE

GROUND FLOOR GFA: EXISTING COMMUNITY CENTER, DRILL HALL AND GARAGE: 16,865 SF
NEW GYMNASIUM: 11,776 SF
NEW LOBBY: 493 SF
TOTAL ACTUAL GFA: TOTAL HABITABLE AREA: 29,134 SF

BASIC ALLOWABLE AREA (GYMNASIUM): 9,500 SF
AREA INCREASE FOR YARDS: 57.5 PERCENT
TOTAL ALLOWABLE AREA: 14,962.5 SF

THE NEW GYMNASIUM SHALL BE PROTECTED WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH NFPA 13. ALL CONCEALED SPACES, INCLUDING CONCEALED SPACES ABOVE FINISHED CEILINGS AND BELOW FINISHED FLOORS, STAIRS, RAMPS, LANDINGS, AND PLATFORMS, SHALL BE SPRINKLED ENTIRELY OR FILLED ENTIRELY WITH NONCOMBUSTIBLE INSULATION.

CONCEALED SLEEPER SPACES (EXCEPT FOR GYMNASIUM) SHALL BE FIREBLOCKED AT 100 SQUARE FOOT MAXIMUM INTERVALS WITH MINERAL WOOL INSULATION.

SPRINKLER SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION. SPRINKLER SYSTEM SHALL BE SUBMITTED AS A DEFERRED APPROVAL TO THE MEDFORD BUILDING DEPT. AND MEDFORD FIRE DEPT. FOR APPROVAL PRIOR TO INSTALLATION OF THE SYSTEM.

PROVIDE FIRE ALARM & DETECTION SYSTEM IN ACCORDANCE WITH NFPA 72. MANUAL PULL-BOXES ARE NOT REQUIRED WHEN THE ALARM SYSTEM NOTIFICATION APPLIANCES ARE ACTIVATED UPON SPRINKLER WATER FLOW.

DRAWING INDEX

ARCHITECTURAL

0.1	COVER SHEET	REVISED
0.2	CODE COMPLIANCE	REVISED
0.3	SPECIFICATION	REVISED
1.1	SITE DEMOLITION PLAN	
2.1	SITE PLAN	
2.2	SITE PLAN DIMENSIONED	
2.3	BOILER ROOM DEMO PLAN	ADDED
3.1	FLOOR PLAN	
3.2	PAINTED FLOOR LINES	
3.3	ADMIN FLOOR PLANS	ADDED
4.1	ENLARGED PLAN & SCHEDULES	ADDED
6.1	DOORS, WINDOWS, FRAMES, DETAILS	
7.1	EXTERIOR ELEVATIONS	
7.2	EXTERIOR ELEVATIONS	
8.1	BUILDING SECTIONS	
8.2	BUILDING SECTIONS	ADDED
10.1	ROOF PLAN	
12.1	DETAILS	
12.2	DETAILS	ADDED

STRUCTURAL

S1	STRUCTURAL DETAILS
S2	FOUNDATION PLAN
S3	ROOF FRAMING PLAN & DETAILS
S4	FOUNDATION PLAN AND DETAILS
S5	MECHANICAL UNIT SUPPORT

PLUMBING

P1	ADMIN PLUMBING PLAN	ADDED

ELECTRICAL

E1	ELECTRICAL COVER SHEET	REVISED
E2	ELECTRICAL SITE PLAN	
E2.1	ADMIN DETAILS AND ONE LINE	ADDED
E3	ELECTRICAL POWER PLAN	
E4	ELECTRICAL LIGHTING PLAN	
E5	ELECTRICAL RISER DIAGRAM	
E6	ELECTRICAL SCHEDULE SHEET	
E7	ADMIN DEMOLISION PLAN	ADDED
E8	ADMIN ELECTRICAL PLAN	ADDED

MECHANICAL

M1	MECHANICAL HVAC SYMBOLS & ABBREVIATIONS	REVISED
M2	MECHANICAL HVAC GYMNASIUM FLOOR PLAN AND DETAILS	
M3	MECHANICAL HVAC LOBBY FLOOR PLAN, ROOF PLAN AND DETAILS	
M4	MECHANICAL HVAC DETAILS AND SCHEDULES	
M5	HVAC BUILDING SECTION AND DETAILS	
M6	DRILL HALL DEMOLITION PLAN	
M7	ADMIN MECHANICAL PLAN	ADDED

CIVIL

C1	GRADING AND DRAINAGE PLAN
C2	SECTIONS AND SITE DETAILS
C3	MEDFORD STANDARD DETAILS

LANDSCAPE

L-1	PLANTING PLAN

RECEIVED
JUN 05 2008
City of Medford
Building Safety Dept.

REGISTERED ARCHITECT
KENNETH J. OGDEN
ASHLAND, OREGON
STATE OF OREGON

OgdenRoemerWilkerson Architecture AIA
COLLABORATIVE APPROACH • HONEST DESIGN
2950 east barnett road
medford oregon 97504
541 779.5237
541 772.8172
www.ORWarchitecture.com

SANTO COMMUNITY CENTER PHASE 3
GYMNASIUM ADDITION
MEDFORD, OREGON

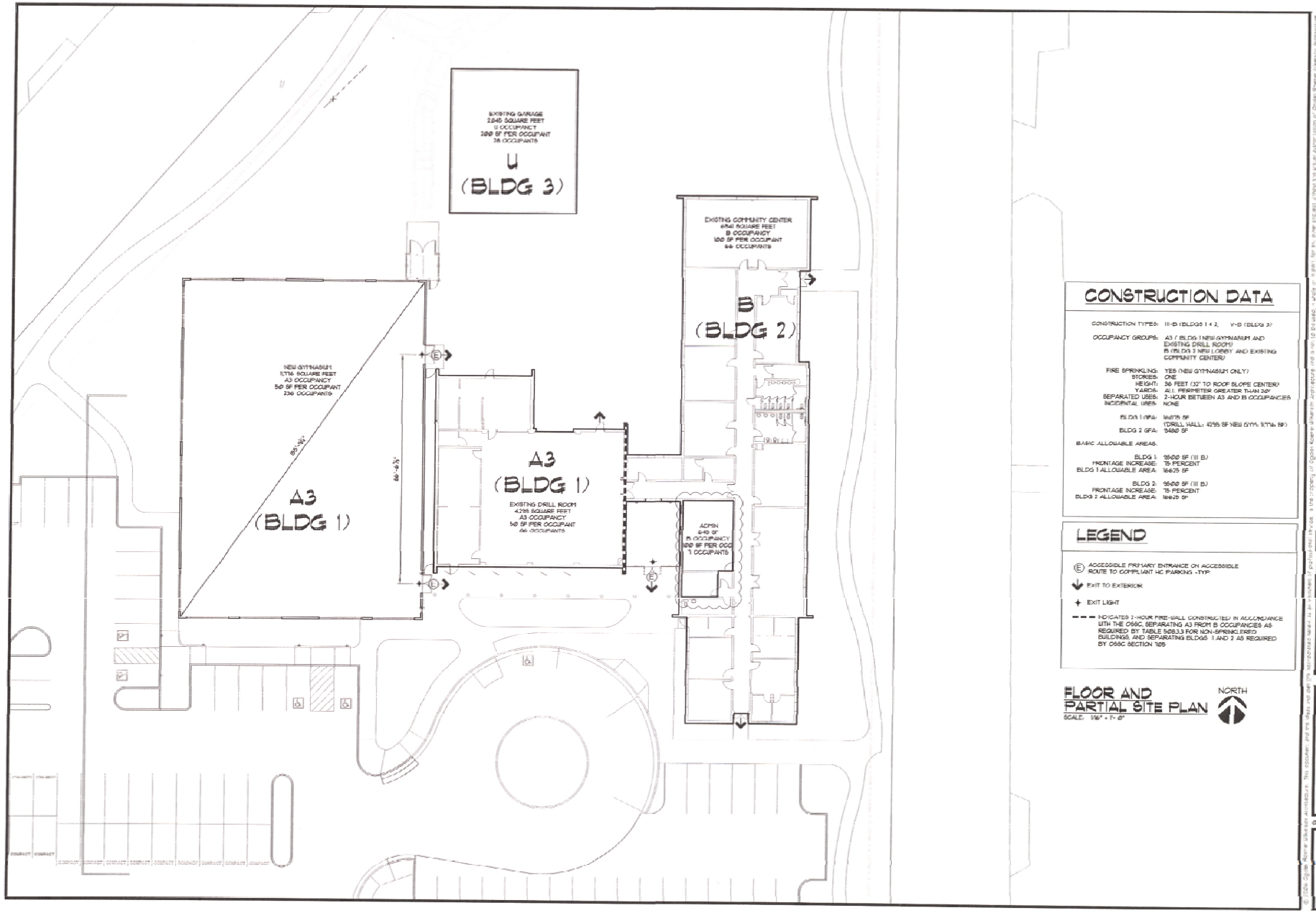
COVER SHEET
REV. 7.25.07
REV. 06/05/08

SCALE: NONE
3.13.07
x0627CD1

0.1

© 2005 Ogden Roemer Wilkerson Architecture. This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of Ogden Roemer Wilkerson Architecture and is not to be used in whole or in part, for any other project without the written authorization of Ogden Roemer Wilkerson Architecture

701 N. Columbus Ave
08-1176



CONSTRUCTION DATA

CONSTRUCTION TYPES:	III-B (BLDGS 1 & 2, V-B (BLDG 3)
OCCUPANCY GROUPS:	A3 (BLDG 1 NEW GYMNASIUM AND EXISTING DRILL ROOM) B (BLDG 2 NEW LOBBY AND EXISTING COMMUNITY CENTER)
FIRE SPRINKLING:	YES (NEW GYMNASIUM ONLY)
STORIES:	ONE
HEIGHT:	36 FEET (32" TO ROOF SLOPE CENTER)
YARDS:	ALL PERIMETER GREATER THAN 30'
SEPARATED USES:	2-HOUR BETWEEN A3 AND B OCCUPANCIES
INCIDENTAL USES:	NONE
BLDG 1 GFA:	16,075 SF (DRILL HALL: 4,299 SF NEW GYM: 11,776 SF)
BLDG 2 GFA:	9480 SF
BASIC ALLOWABLE AREAS:	
BLDG 1:	9500 SF (III B)
FRONTAGE INCREASE:	75 PERCENT
BLDG 1 ALLOWABLE AREA:	16625 SF
BLDG 2:	9500 SF (III B)
FRONTAGE INCREASE:	75 PERCENT
BLDG 2 ALLOWABLE AREA:	16625 SF

LEGEND

(E) ACCESSIBLE PRIMARY ENTRANCE ON ACCESSIBLE ROUTE TO COMPLIANT HC PARKING -TYP

EXIT TO EXTERIOR

EXIT LIGHT

INDICATES 2-HOUR FIRE-WALL CONSTRUCTED IN ACCORDANCE WITH THE OSSC, SEPARATING A3 FROM B OCCUPANCIES AS REQUIRED BY TABLE 508.3.3 FOR NON-SPRINKLERED BUILDINGS, AND SEPARATING BLDGS 1 AND 2 AS REQUIRED BY OSSC SECTION 705

FLOOR AND PARTIAL SITE PLAN

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

REGISTERED ARCHITECT
KENNETH J OGDEN
KENLAND, OREGON
STATE OF OREGON

OgdenRoemerWilkerson
Architecture
COLLABORATIVE APPROACH - HEALTH DESIGN
2950 east barnett road
medford oregon 97504
541.779.5237
541.772.8472
www.ORWarchitecture.com

SANTO COMMUNITY CENTER PHASE 3
NEW GYMNASIUM
MEDFORD, OREGON

CODE COMPLIANCE
REV. 06/05/08

SCALE: 1/16"=1'-0"
10.19.07

0627CD3

0.2

© 2006 Ogden Roemer Wilkerson Architecture. This document and the ideas and designs incorporated herein as an instrument of professional service, is the property of Ogden Roemer Wilkerson Architecture and is not to be used, in whole or in part, for any other project without the written authorization of Ogden Roemer Wilkerson Architecture.

PROJECT INFORMATION

PROJECT: SANTO COMMUNITY CENTER GYMNASIUM PROJECT
OWNER: CITY OF MEDFORD
411 WEST 8TH STREET
MEDFORD, OREGON, 97501
(541) 774-2400

ARCHITECT: ORW ARCHITECTURE, AIA
2950 E. BARNETT RD.
MEDFORD, OR 97504
(541) 779-5237 FAX: 772-8472

BIDDING INFORMATION

INVITATION TO BIDDERS: SEE "CONSTRUCTION MANAGER/GENERAL CONTRACTOR REQUEST FOR PROPOSALS, BID NUMBER 4-5-076/PR" ISSUED BY THE CITY OF MEDFORD.

INFORMATION FOR BIDDERS:
TOPOGRAPHICAL SURVEY: A TOPOGRAPHICAL SURVEY OF THE PROJECT SITE HAS BEEN PREPARED BY HARDEY ENGINEERING, MEDFORD, OREGON, AND IS ON FILE IN THE OFFICE OF THE OWNER. THE SURVEY MAY BE EXAMINED BY APPOINTMENT. THE SURVEY WAS OBTAINED BY THE OWNER FOR USE IN DESIGN AND IS NOT PART OF THE CONTRACT DOCUMENTS.

GEOTECHNICAL DATA: A SOILS INVESTIGATION REPORT HAS BEEN PREPARED BY FERRERO GEOLOGIC, ASHLAND, OREGON. THIS REPORT IS ON FILE IN THE OFFICE OF THE OWNER AND MAY BE EXAMINED BY APPOINTMENT. THE REPORT WAS OBTAINED FOR THE OWNER'S USE IN DESIGN AND IS NOT A PART OF THE CONTRACT DOCUMENTS. THE REPORT IS AVAILABLE FOR INFORMATION BUT IS NOT A WARRANTY OF THE SITE SUBSURFACE CONDITIONS.

SITE VISITATION: BIDDERS ARE ENCOURAGED TO VISIT THE SITE AND ACQUAINT THEMSELVES WITH ALL EXISTING CONDITIONS.

CONTRACT DOCUMENTS: THE CONTRACT DOCUMENTS FOR THIS PROJECT INCLUDE DRAWINGS AND DOCUMENTS. THE CONTRACT DRAWINGS HAVE BEEN PREPARED BY ORW ARCHITECTURE, A.I.A., MEDFORD, OREGON, AND ARE LISTED ON THE COVER DRAWING OF THIS SET OF DRAWINGS AND SPECIFICATIONS. THE CONTRACT DOCUMENTS HAVE BEEN PREPARED BY THE CITY OF MEDFORD, AND INCLUDE THE NOTICE TO BIDDERS, THE INSTRUCTIONS TO BIDDERS, THE PROPOSAL, THE PROPOSAL SCHEDULE, THE SAMPLE BID BOND, THE CONTRACT REQUIREMENTS AND THE GENERAL REQUIREMENTS.

INTERPRETATIONS OF THE CONTRACT DOCUMENTS: ADDRESS ALL QUESTIONS REGARDING INTERPRETATIONS OF THE CONTRACT DOCUMENTS TO THE ARCHITECT.

APPLICABLE CODES: WORK PERFORMED UNDER THESE CONTRACT DOCUMENTS SHALL BE IN FULL COMPLIANCE WITH ALL GOVERNING CODES, LAWS HAVING JURISDICTION OVER THE WORK AND LOCATION OF THE WORK, AND IN EFFECT AT THE DATE OF BID SUBMISSION, TO INCLUDE THE INTERNATIONAL BUILDING CODE (OREGON REVISED LATEST EDITION), AMERICANS WITH DISABILITIES ACT REQUIREMENTS AND THE CITY OF MEDFORD ORDINANCES.

CONFLICTS: IF A BIDDER ENCOUNTERS CONFLICT OR AMBIGUITY IN OR BETWEEN CONTRACT DOCUMENTS, OBTAIN CLARIFICATION FROM THE ARCHITECT IMMEDIATELY AND BEFORE SUBMITTING A BID OR CONTINUING WITH THE WORK.

GENERAL

CONSTRUCTION FACILITIES PROVIDED BY GENERAL CONTRACTOR:
TEMPORARY POWER
WATER
TEMPORARY HEAT
SANITARY FACILITIES
FIELD ENGINEERING
SECURITY SYSTEM

SITEWORK

SITE CLEARING: CLEAR SITE OF PLANT MATERIALS AND DEBRIS. PROTECT BENCH MARKS AND EXISTING WORK FROM DAMAGE.

ROUGH GRADING: EXCAVATE SUBSOIL AND REMOVE EXCESS FROM SITE. GRADE AND CONTOUR SITE. PROTECT BENCH MARKS, EXISTING WORK AND EXISTING UTILITIES. REPAIR DAMAGE AT NO COST TO OWNER.

EXCAVATION: EXCAVATE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS REPORT. EXCAVATE SUBSOIL FOR BUILDING FOUNDATIONS, CONSTRUCTION OPERATIONS, UTILITIES, SITE IMPROVEMENTS AND OTHER WORK. EXCAVATION SHALL NOT COMPROMISE REQUIRED 30 DEGREE SOIL BEARING SPLAY OF ANY FOOTING. CORRECT AS DIRECTED BY THE ARCHITECT OVER-EXCAVATION OR UNAUTHORIZED EXCAVATION AT NO COST TO OWNER.

BACKFILLING: BACKFILL AND COMPACT FILL IN FULL ACCORDANCE WITH THE SOILS REPORT. REDENSIFY EXISTING SUBGRADES AS REQUIRED BY THE SOILS REPORT.

FILLING

BACKFILLING: BACKFILL AND COMPACT FILL IN FULL ACCORDANCE WITH THE SOILS REPORT. REDENSIFY EXISTING SUBGRADES AS REQUIRED BY THE SOILS REPORT.

FILL TYPES:
FREE-DRAINING CRUSHED ROCK (TYPE "A"): 1/4 TO 3/4 INCH CRUSHED GRAVEL OR CRUSHED ROCK, FREE OF ORGANIC MATERIAL, SAND AND FINES.
SAND (TYPE "B"): ANSI/ASTM C136. NATURAL RIVER OR BANK FINE GRANULAR MATERIAL, NATURALLY PRODUCED BY ROCK DISINTEGRATION AND FREE FROM ORGANIC MATERIAL, MICA, LOAM, CLAY AND OTHER DELETERIOUS SUBSTANCES, AS APPROVED. MAXIMUM PARTICLE SIZE OF 1/4 INCH, WITH A GRADATION WHICH ALLOWS 50 PERCENT TO 100 PERCENT BY WEIGHT TO PASS A NO. 4 SIEVE AND NOT MORE THAN 5 PERCENT TO PASS A NO. 200 SIEVE (WET SIEVE ANALYSIS).
STRUCTURAL FILL (TYPE "C"): 3 INCH MINUS PIT-RUN SHALE FROM PITS APPROVED BY THE ARCHITECT. MAXIMUM SIZE OF INDIVIDUAL AGGREGATE PIECES SHALL NOT EXCEED 50% OF THE COMPACTED THICKNESS OF EACH LIFT. THE AGGREGATE FRACTION PASSING A 1/4" SIEVE SHALL NOT BE LESS THAN 10% NOR MORE THAN 50% OF THE WHOLE, BY WEIGHT. NOT MORE THAN 8% OF THE TOTAL AGGREGATE SHALL PASS A NO. 200 SIEVE WITHIN THE SAME LIMITS. THE AGGREGATE SHALL BE SO GRADED THAT THE MATERIALS WILL BE DENSE AND FIRM WHEN COMPACTED.
TOPSOIL (TYPE "D"): BEAR CREEK VALLEY SANDY LOAM OR OTHER NATURAL FERTILE SANDY LOAM, FREE OF VEGETATION, ROCKS IN EXCESS OF 2-INCHES IN THE LARGEST DIMENSION, AND OTHER DELETERIOUS MATERIALS.
ON-SITE EARTH FILL (TYPE "E"): APPROVED ON-SITE EXCAVATED EARTH FILL MATERIALS, FREE OF VEGETATION, ROCKS AND OTHER DELETERIOUS MATERIALS. MAINTAIN MATERIAL MOISTURE CONTENT ABOUT 3% ABOVE OPTIMUM.
FILTER AGGREGATE (TYPE "F"): CLEAN, WELL GRADED, 1 TO 1-1/2 INCH NATURAL WASHED RIVER RUN SMOOTH-FACED GRAVEL FREE FROM SHALE, CLAY, ORGANIC MATERIALS AND DEBRIS.
GEOTEXTILE FABRIC: PHILLIPS FIBER ENGINEERED NON-WOVEN GEOTEXTILE SUPAC 4NP OR APPROVED, WITH A 36 INCH LAP. PROVIDE UNDER BASE FOR ASPHALTIC CONCRETE PAVING AND WHERE OTHERWISE SHOWN.
MOISTURE BARRIER: 6-MIL CROSS-LAMINATED POLYETHYLENE SHEET 12-FEET WIDE. PROVIDE AS A CONTINUOUS MEMBRANE WITH JOINTS TAPED WITHIN PERIMETERS OF FOUNDATION WALLS UNDER CONCRETE FLOORS OF BUILDINGS BETWEEN BASE FILL FOR CONCRETE SLAB AND A 2-INCH SAND LAYER DIRECTLY UNDER SLABS.

SITE DRAINAGE

FOUNDATION AND UNDER-SLAB DRAINS: PERFORATED PVC, TYPE ASTM D2729, 4-INCH DIAMETER PIPE WITH COUPLINGS AND FITTINGS AS NEEDED FOR A CONTINUOUS CONDUIT AROUND OUTSIDE OF BUILDING FOOTINGS. PLACE DRAIN AT BOTTOM OF FOOTING AND PROVIDE MINIMUM 8-INCH DEEP COVER OF TYPE "F" FILTER AGGREGATE FILL OVER. WRAP FILTER AGGREGATE WITH SOIL CLOTH TO PREVENT PENETRATION OF ADJOINING SOIL AND FILL MATERIALS THRU AGGREGATE. CONNECT DRAIN WITH SITE STORM DRAIN PIPE WITH UNPERFORATED PVC PIPE OF SAME TYPE AND DIAMETER OF FOOTING DRAIN. PROVIDE CLEANOUTS TO GRADE AT FOOTING DRAIN CHANGES IN DIRECTION.

RAIN DRAIN LEADERS AND STORM DRAIN SYSTEM: NON-PERFORATED PVC, TYPE ASTM D2729, 4-INCH DIAMETER OR SIZES AS NOTED. PROVIDE COUPLINGS AND FITTINGS. PROVIDE CLEANOUTS TO GRADE AT HIGH INVERTS OF PIPE RUNS.

ASPHALTIC CONCRETE PAVING

PAVING: OREGON STATE HIGHWAY CLASS "C" MIX WITH 1/2-INCH MAXIMUM SIZED AGGREGATE.
SOIL STERILANT: 25-PERCENT SODIUM CHLORATE: APPLY TO TOP OF EXCAVATED SURFACE.
PAINT: "NORLINE" FAST-DRY TRAFFIC PAINT, 4-INCH WHITE LINES GENERAL, 3-INCH BLUE LINES FOR WHEELCHAIR SYMBOL.
SEE CIVIL DRAWINGS FOR FURTHER SPECIFICATIONS

CONCRETE

WORK INCLUDED: FORM WORK, SHORING, BRACING, REINFORCING, EMBEDDED ITEMS AND CAST-IN-PLACE CONCRETE.
COOPERATE WITH OWNER'S MATERIALS TESTING ACTIVITIES.

CONCRETE AND REINFORCING: SEE STRUCTURAL SPECIFICATIONS
FINISHES:
EXPOSED FOUNDATIONS: SACKED FORM FINISH.
SIDEWALKS AND OTHER EXTERIOR CONCRETE PAVING: LIGHT BROOM FINISH.
STAIR TREADS: HEAVY BROOM FINISH FOR NON-SLIP SURFACE.
EXPOSED INTERIOR SLABS: SMOOTH STEEL TROWEL.
INTERIOR SLABS SCHEDULED FOR APPLIED FINISHES: IN ACCORDANCE WITH FINISH MANUFACTURER REQUIREMENTS.
DEFECTIVE CONCRETE: REMOVE AND REPLACE DEFECTIVE CONCRETE WORK, TO INCLUDE THAT WITH EXCESSIVE CRACKS, WIDE CRACKS, SLABS WHICH DO NOT DRAIN PROPERLY, SPALLING OR OTHER DEFECTIVE CONCRETE.
CONCRETE FLOOR FLATNESS: GYMNASIUM CONCRETE FLOOR: LEVEL WITHIN 1/8 INCH PLUS OR MINUS TOLERANCE IN 10-FOOT RADIUS AT ANY POINT ON FLOOR.

STEEL

WORK INCLUDED: STRUCTURAL STEEL FRAMING MEMBERS, STEEL SUPPORTS AND MISCELLANEOUS STEEL CONNECTIONS AND SUPPORTS WITH REQUIRED BRACING, WELDS AND FASTENERS.

REFERENCES: PERFORM ALL WORK IN ACCORDANCE WITH THE STRUCTURAL SPECIFICATIONS BOUND HEREIN.

SHOP DRAWINGS: PROVIDE SHOP DRAWINGS FOR ALL STRUCTURAL STEEL WORK. FABRICATION: FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND AWS D1.1, STRUCTURAL WELDING CODE. SHOP PRIME ALL WORK.

METAL FABRICATIONS (SEE ALSO STRUCTURAL DRAWINGS)

WORK INCLUDED: SHOP FABRICATED MISCELLANEOUS METAL FABRICATIONS.

REFERENCES: PERFORM ALL WORK IN ACCORDANCE WITH STRUCTURAL SPECIFICATION, AISC SPECIFICATIONS AND AWS D1.1, STRUCTURAL WELDING CODE.
SHOP DRAWINGS: PROVIDE FOR ALL FABRICATED STEEL WORK.

WHERE STEEL FABRICATIONS AND ELEMENTS ARE EXPOSED TO WEATHER IN THE FINISHED WORK, GALVANIZE G90 AFTER FABRICATION.

MATERIALS:
ASTM A36 - STRUCTURAL STEEL
ASTM A53 - GRADE A, TYPE S WELDED STEEL TUBING
ASTM A307 - BOLTS, NUTS AND WASHERS.
SHOP PRIME ALL FABRICATED WORK.

ROUGH CARPENTRY

WORK INCLUDED: ROUGH CARPENTRY, LUMBER, FRAMING, ROUGH HARDWARE.
REFERENCES: PERFORM ALL WORK IN ACCORDANCE WITH STRUCTURAL SPECIFICATIONS AND AS NOTED HEREIN. PLYWOOD AND STRUCTURAL PANELS SHALL COMPLY WITH AMERICAN PLYWOOD ASSOCIATION (APA) STANDARDS. LUMBER SHALL COMPLY WITH GRADING RULES OF WESTERN WOOD PRODUCTS ASSOCIATION (WWPA).

MATERIALS:
SEE STRUCTURAL SPECIFICATIONS.
ROUGH LUMBER EXPOSED IN THE FINISHED WORK: #2 OR BETTER DOUGLAS FIR SPECIE, SELECTED FOR STRAIGHTNESS, WITHOUT CHECKS, CRACKS, SPLITS, KNOTS OVER 1/2 INCH IN LARGEST DIMENSION, AND CLEANED OF ALL NON-WOOD DISCOLORATION AND GRADE MARKS.
WHERE ROOF SHEATHING UNDERSIDE IS EXPOSED TO VIEW IN THE FINISHED WORK PROVIDE MDO-FACED PLYWOOD.
INFILTRATION BARRIER: DUPONT "TYVEK"
WEATHER BARRIER: 15 LB. ASPHALT IMPREGNATED FELTED FIBROUS SHEET.
ROUGH HARDWARE:
NAILS AND BOLTS: SIZE AND SPACING IN ACCORDANCE WITH IBC REQUIREMENTS. GALVANIZED FOR EXTERIOR LOCATIONS.
STEEL HARDWARE: DESIGN BASIS IS "SIMPSON". OBTAIN APPROVAL FOR OTHER HARDWARE.
SILL GASKET: 1/4 INCH THICK PLATE WIDTH POLYETHYLENE FOAM STRIP.
WOOD TREATMENT: PROVIDE PRESERVATIVE TREATED WOOD FOR ALL MEMBERS IN CONTACT WITH CONCRETE, MASONRY AND WHERE NOTED.

GLU-LAMINATED TIMBER

GLUE LAMINATED MEMBERS
GLUE-LAMINATED BEAMS ("GLB"): AITC "PREMIUM" GRADE WHERE EXPOSED IN THE FINISHED WORK. AITC INDUSTRIAL GRADE WHERE CONCEALED.
LAMINATED VENEER LUMBER (LVL) MEETING STANDARDS OF NATIONAL EVALUATION SERVICE (NES) REPORT NO. NER-481. WATERPROOF ADHESIVES.
PARALLEL STRAND LUMBER (PSL) WITH WATERPROOF ADHESIVE.

FINISH CARPENTRY

FINISH CARPENTRY
WORK INCLUDED: INTERIOR AND EXTERIOR WOOD TRIM AND FASCIAE
EXTERIOR MATERIALS: GRADE "C AND BETTER" CLEAR VERTICAL GRAIN CEDAR, KILN-DRIED, ROUGH-SAWN, W.I.C. CUSTOM GRADE.
EXTERIOR FASCIAE: CEMENT COMPOSITION BOARD 1-INCH ACTUAL THICKNESS. DESIGN BASIS: JAMES HARDIE SIDING PRODUCTS "HARDIETRIM".
INTERIOR MATERIALS: CLEAR VERTICAL GRAIN DOUGLAS FIR S4S
GYMNASIUM WALLS: 3/4" THICK MEDIUM DENSITY FIRE-RETARDANT FIBERBOARD WITH THERMOSET COATING, FLOOR TO 8-FEET ABOVE FLOOR.

BUILDING INSULATION

WORK INCLUDED: MINERAL FIBER THERMAL BATT INSULATION, AND 6-MIL THICK CLEAR POLYETHYLENE VAPOR RETARDER.
SCHEDULE OF MATERIAL LOCATIONS:
ROUGH LUMBER FRAMED ROOF/CEILINGS: R-38 UNFACED MINERAL FIBER BATTS.
METAL BUILDING: 6-INCH THICK MINERAL FIBER BATTS LAMINATED TO CONTINUOUS WHITE VINYL SHEET VAPOR RETARDER.
VAPOR RETARDER: PROVIDE AT INTERIOR FACE OF WALL AND ROOF/CEILING ROUGH LUMBER FRAMING FACING NON-AIR CONDITIONED SPACES AND BUILDING EXTERIOR. TAPE ALL ENDS AND EDGES FOR A COMPLETE MEMBRANE.

MEMBRANE ROOFING

WORK INCLUDED: SUBSTRATE PREPARATION, ROOF INSULATION, RECOVERY BOARD, FULLY-ADHERED MEMBRANE ROOFING, FLEXIBLE FLASHINGS, ALL MATERIALS AND INSTALLATION ACCEPTABLE FOR CLASS "A" ROOFING ASSEMBLY.
MATERIALS:
MEMBRANE: VERSICO "VERSIWELD" THERMOPLASTIC OLEFIN (TPO), 60 MIL THICK, MECHANICALLY-FASTENED, HEAT-WELDED SEAMS, WHITE FACTORY FINISH.
RECOVERY BOARD: PROVIDED BY OR ACCEPTABLE TO ROOFING MATERIALS MANUFACTURER.
ROOF INSULATION: RIGID POLYISOCYANURATE 4-INCHES THICK (R-26) EXCEPT AS DETAILED OTHERWISE.
MECHANICAL FASTENERS DISC-IN-SEAM SYSTEM.

ROOFING WARRANTY
ROOFING MATERIALS MANUFACTURER: FURNISH ROOFING MATERIALS MANUFACTURER'S TOTAL ROOFING SYSTEM WARRANTY WRITTEN IN FAVOR OF THE OWNER TO COVER REPLACEMENT OF ALL ROOFING MATERIALS AND INSTALLATIONS PROVIDED OR ACCEPTED BY THE ROOFING MATERIALS MANUFACTURER WHICH FAIL TO PROTECT AGAINST PENETRATION OF WATER INTO THE BUILDING(S) OR WHICH FAIL TO REMAIN INSTALLED UNDER FORCE OF WIND OF UP TO 80 MILES PER HOUR, WITH NO MONETARY LIMIT FOR SUCH REPLACEMENTS, FOR A DURATION OF FIFTEEN YEARS FROM THE DATE OF ACCEPTANCE OF THE WORK OF THIS SECTION BY THE ARCHITECT.

ROOFING INSTALLER: FURNISH ROOFING MATERIALS INSTALLER'S TOTAL ROOFING SYSTEM WARRANTY WRITTEN IN FAVOR OF THE OWNER TO COVER REPAIR AND/OR REPLACEMENT OF ALL ROOFING MATERIALS AND INSTALLATIONS PROVIDED OR ACCEPTED BY THE ROOFING INSTALLER WHICH FAIL TO PROTECT AGAINST PENETRATION OF WATER INTO THE BUILDING(S) OR WHICH FAIL TO REMAIN INSTALLED UNDER FORCE OF WIND OF UP TO 80 MILES PER HOUR, WITH NO MONETARY LIMIT FOR SUCH REPLACEMENTS, FOR A DURATION OF FIVE YEARS FROM THE DATE OF ACCEPTANCE OF THE WORK OF THIS SECTION BY THE ARCHITECT.

METAL ROOFING

WORK INCLUDED: SUBSTRATE PREPARATION, WEATHER BARRIER, SEAMED FACTORY-FINISHED METAL ROOFING WITH ALL SHEET METAL RIDGE, RAKE, WALL-TO-ROOF AND OTHER SUNDRY FLASHINGS.
MATERIALS: AEP/SPAN "DESIGN SPAN" 1-3/4 INCH HIGH 17-INCH WIDE PANEL SYSTEM. TURN EXPOSED PANEL ENDS BACK, 1 INCH, 180 DEGREES

SHEET METAL

SHEET METAL WORK
WORK INCLUDED: GENERAL SHEET METAL WORK, FLASHINGS, COUNTERFLASHINGS, GUTTERS, SHEET METAL DOWNSPOUTS.
REFERENCES: SMACNA ARCHITECTURAL SHEET METAL MANUAL.
WARRANTY: FIVE (5) YEAR WARRANTY, MATERIALS AND INSTALLATION. WARRANT THAT THE INSTALLATION WILL REMAIN INTACT AND PROTECT BUILDING INTERIOR FROM LEAKS FOR WARRANTY PERIOD.
MATERIALS: ASTM A525, G90, MINIMUM 24 GAGE CORE SHEET STEEL EXPOSED FACES FACTORY PREFINISHED WITH POLYVINYLIDENE FLUORIDE "KYNAR 500" COATING.

SKYLITES

SKYLIGHTS
WORK INCLUDED: METAL FRAMED SKYLIGHTS WITH INTEGRAL CURBS.
WARRANTY: MANUFACTURER'S STANDARD FIVE (5) YEAR WARRANTY COVERING REPLACEMENT OF THE DEFECTIVE UNIT, INCLUDING LOSS OF SEAL IN UNIT GLAZING.
DESIGN: DESIGN UNITS TO MEET LOADING REQUIREMENTS OF 25 POUNDS PER SQUARE FOOT LIVE LOAD AND WIND LOAD FOR AREA.
MATERIALS:
DESIGN BASIS: "KALWALL" ALUMINUM-FRAMED 2-3/4-INCH THICK INSULATED PANEL WITH THERMALLY BROKEN FRAME AND INTEGRAL PERIMETER FLASHING.
INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

SEALANTS

WORK INCLUDED: SEALANTS FOR EXTERIOR BUILDING SHELL AND INTERIOR FINISH WORK.
EXTERIOR EXPOSURE: 1-PART POLYURETHANE. DESIGN BASIS: SONNEBORNE "NP-1".
INTERIOR EXPOSURE:
GENERAL: ACRYLIC LATEX. DESIGN BASIS: SONNEBORNE "SONNOLAC".
WET AREAS: SILICONE. DESIGN BASIS: GE "SILPRUF".

WOOD DOORS

WORK INCLUDED: INTERIOR WOOD DOOR.
VENEERED PANEL: AWI CUSTOM-GRADE 5 OR 7-PLY WHITE BIRCH PLAIN-SAWN VENEER FOR TRANSPARENT FINISH. HARDWOOD EDGES.

ALUMINUM STOREFRONT SYSTEM

WORK INCLUDED: EXTERIOR STOREFRONT FRAMING, WINDOWS AND DOORS LOCATED IN BUILDING EXTERIOR WALLS EXCEPT AS TYPES NOTED OTHERWISE.
DESIGN BASIS: "KAWNEER" 451T ALUMINUM FRAMING, CLEAR ANODIZED MILL FINISH. "KAWNEER" ALUMINUM FRAMED DOORS, "KAWNEER" 350 "TUFFLINE" DOUBLE DOORS WITH ALL HARDWARE, EACH DOOR PANEL TO INCLUDE HINGES, CLOSERS, PANIC EXITING HARDWARE WITH EXTERIOR KEYED LOCKS, AUTOMATIC FLUSH BOLTS, WEATHERSTRIPPING, THREE-POINT INTERIOR LOCKING, FULL OPENING WIDTH THRESHOLD AND PULLS. FINISH SAME AS FRAMING. GLAZING: DOUBLE-PANE TEMPERED INSULATED.
INSTALLATION: COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

INSULATED WINDOWS

WORK INCLUDED: INSULATED WINDOWS, TYPE "A" IN METAL BUILDING.
TYPE: METAL FRAMED SKYLIGHTS WITH INTEGRAL CURBS.
WARRANTY: MANUFACTURER'S STANDARD FIVE (5) YEAR WARRANTY COVERING REPLACEMENT OF THE DEFECTIVE UNIT, INCLUDING LOSS OF SEAL IN UNIT GLAZING.
DESIGN: DESIGN UNITS TO MEET LOADING REQUIREMENTS OF 25 POUNDS PER SQUARE FOOT LIVE LOAD AND WIND LOAD FOR AREA.
MATERIALS:
DESIGN BASIS: "KALWALL" ALUMINUM-FRAMED 2-3/4-INCH THICK INSULATED PANEL WITH THERMALLY BROKEN FRAME AND INTEGRAL PERIMETER FLASHING.
INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

GLASS AND GLAZING

GLASS TYPES:
GENERAL: CLEAR FLOAT GLASS q3 QUALITY, TYPE I, CLASS I, THICKNESS TO WITHSTAND DESIGN PRESSURE OF 20 POUNDS PER SQUARE FOOT, EXCEPT 1/4-INCH THICK WHEN USED AS SINGLE PANE.
TEMPERED: CLEAR FLOAT GLASS, q3 QUALITY, TYPE I, CLASS I, FT, CONDITION A, STANDARD 16CFR1201 CI AND CII, THICKNESS TO WITHSTAND DESIGN PRESSURE OF 20 POUNDS PER SQUARE FOOT, EXCEPT 1/4-INCH THICK WHEN USED AS SINGLE PANE.
INSULATING: TWO PANES CLEAR FLOAT OR TEMPERED GLASS, FACTORY FABRICATED AND HERMETICALLY SEALED WITH INTERIOR PERIMETER DESICCANT, INTERIOR PANE CLEAR, EXTERIOR PANE WITH NEUTRAL COATING ON NUMBER 2 SURFACE, SPACE BETWEEN PANES FILLED WITH AIR OR ARGON GAS FOR MINIMUM WINTER NITETIME "U" VALUE OF .31, AND MINIMUM SHADING COEFFICIENT OF .43 IN AN UNSHADED EXPOSURE CONDITION.
LOCATIONS:
INSULATING: ALL GLASS EXPOSED TO EXTERIOR.
TEMPERED: ALL GLASS PANES LOCATED IN "HAZARDOUS LOCATIONS" AS DEFINED BY IBC SECTION 2406.3.
GENERAL: GLASS NOT OTHERWISE SHOWN IN ANOTHER LOCATION.

DOOR HARDWARE

FINISH: MATCH EXISTING INTERIOR DOOR HARDWARE FINISH
MANUFACTURERS:

BUTT HINGES: STANLEY, McKINNEY, HAGER
LOCKSETS: SCHLAGE "D" SERIES EXIT DEVICES: SARGENT, VON DUPRIN
CLOSERS: SARGENT , LCN 4100, NORTON 7000, YALE 8500
BOLTS: IVES
STOPS: IVES, GLYNN JOHNSON
GASKETS: STEELCRAFT, PEMKO

PREPARE HARDWARE AND KEYING SCHEDULES. OBTAIN APPROVAL FROM OWNER PRIOR TO ORDERING ANY HARDWARE. PROVIDE COMPLETE HARDWARE FOR ALL DOORS AND GATES OF THIS WORK BASED ON APPROVED MANUFACTURERS AND HARDWARE SERIES, AND REQUIREMENTS FOR EXITING AND FIRE PROTECTION.

GYPSUM BOARD SYSTEMS

WORK INCLUDED: GYPSUM BOARD CLADDING, TAPING AND FINISHING.
REFERENCES: GA-216 RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM BOARD.
SYSTEM DESCRIPTION: MATERIALS AND INSTALLATION SHALL MEET IBC REQUIREMENTS FOR ONE-HOUR RATED FLOOR/CEILING, ROOF/CEILING AND WALL SYSTEMS.

MATERIALS
GYPSUM BOARD: USG, GOLDBOND, DOMTAR
FIRE-RATED GYPSUM BOARD: ANSI/ASTM C36 FIRE RESISTIVE TYPE, 5/8 INCH THICK UNLESS OTHERWISE NOTED.
ACCESSORIES: TYPE W BUGLE HEAD SCREWS, 1" PENETRATION TO WOOD. USG METAL TRIM.
INSTALLATION: INSTALL IN ACCORDANCE WITH GA-216.
TEXTURE: WHERE SURFACE IS EXPOSED IN THE FINISH WORK, PROVIDE EVENLY DISTRIBUTED SPRAYED "LIGHT FOG" TEXTURE.

CARPET

TYPE: DIRECT GLUE-DOWN TO CONCRETE SUBSTRATE. 12-FOOT WIDE BROADLOOM, TUFTED LEVEL LOOP, BASF ZEFTRON 2000 NYLON WITH STATIC CONTROL NYLON, SOLUTION DYED, 26 OUNCE PER SQUARE YARD, .136 INCH PILE THICKNESS, ULTRA PERFORMANCE SYSTEM BACKING, 25-POUND TUFT BIND, 20-YEAR WARRANTY AGAINST EDGE RAVEL AND ZIPPERING, CLASS I DIRECT GLUE-DOWN.
FLOOR BASE: 4" HIGH TOELESS RESILIENT, RUBBER OR VINYL.
PROVIDE CARPET FLOOR COVERING AND FLOOR BASE AT LOBBY 100

COMPOSITE GYMNASIUM FLOORING

FLOOR SUBSTRATE: CONCRETE, TOP FLAT TO WITHIN PLUS-OR MINUS 1/8-INCH IN 10-FOOT RADIUS AT ANY POINT ON FLOOR SURFACE. FILL CRACKS AND DEPRESSIONS, GRIND HIGH AREAS TO COMPLY WITH FLOORING MANUFACTURER'S REQUIREMENTS
FLOORING: ADHESIVE-APPLIED CONTINUOUS SHEET COMPOSITE WITH CLOSED-CELL FOAM SUPPORT, REINFORCED GRID, VINYL WEAR LAYERS, AND PROTECTANT. DESIGN BASIS: "TARAFLEX SPORT PERFORMANCE PLUS" BY GERFLOR OR APPROVED. FLOOR BASE: 4-INCH HIGH RUBBER, COVED TOE. PAINT GAME LINES WITH COMPOUNDED POLYURETHANE PAINT PROVIDED BY FLOORING MANUFACTURER. PROVIDE 5-YEAR WARRANTY AGAINST FLOORING FAILURE.

PAINTING

PAINTING AND FINISHING
FOR THE FOLLOWING SURFACES FINISH COAT SYSTEMS ARE DESCRIBED: PROVIDE FINISH COATING MANUFACTURER'S LONGEST-LASTING BEST-ADHERING PRIMER RECOMMENDED FOR SUBSTRATE AND FINISH COATS BETWEEN FINISH COAT SYSTEM AND SUBSTRATE.

EXTERIOR SURFACES AND MATERIALS: PROVIDE THESE COATINGS:
FERROUS METAL AND ALL SURFACES OF STEEL DOORS AND FRAMES: TWO COATS "PITT-TECH" 90-400 ACRYLIC LATEX DTM ENAMEL, SATIN.
WOOD AND WOOD PANELS: TWO COATS 72-LINE "SUN-PROOF" ACRYLIC LATEX, FLAT.
EXPOSED PORTIONS OF MECHANICAL DUCTS, PIPES, INSULATIONS COVERS, HANGERS, SUPPORTS, TIES, FASTENERS: AND EXPOSED ELECTRICAL ELEMENTS TO INCLUDE CONDUIT, RACEWAYS, BOXES, BENDS, FASTENERS, SUPPORTS AND ALL OTHER ASSOCIATED ITEMS: TWO COATS 72-LINE "SUNPROOF" ACRYLIC LATEX, FLAT.

INTERIOR SURFACES AND MATERIALS: PROVIDE THESE COATINGS:

METAL: TWO COATS 27-LINE "WALLHIDE" ALKYD, SEMI-GLOSS.
WOOD AND WOOD TRIM (SEMI-TRANSPARENT FINISH): TWO COATS REZ 77-460 STAIN.
WOOD DOORS AND FRAMES (SEMI-TRANSPARENT FINISH):
ONE COAT REZ 77-302 SEMI TRANSPARENT ALKYD OIL INTERIOR STAIN.
ONE COAT REZ 77-30 QUICK-DRYING SANDING SEALER.
TWO COATS REZ 77-9 POLYURETHANE, CLEAR, SATIN.
GYPSUM BOARD, GENERAL: TWO COATS 6-510 "SPEEDHIDE" LATEX ENAMEL, EGGSHELL.

ACOUSTIC CEILING TILE

WORK INCLUDED: SUSPENDED ACOUSTIC TILE CEILINGS.
MATERIALS:
CEILING TILE: SOUND REDUCING FISSURED WET-FELTED CELLULOSE, SQUARE EDGE 5/8 INCH THICK, 24 BY 48 INCHES NOMINAL PANEL DIMENSIONS. DESIGN BASIS: ARMSTRONG "FINE FISSURED", PRODUCT NUMBER 1728.
SUSPENSION GRID: FORMED METAL "T" SHAPE DESIGNED FOR INTERLOCKING IN 24x48 INCH PATTERN, WHITE ENAMEL PAINTED. DESIGN BASIS: ARMSTRONG "PRELUDE XL 15/16" EXPOSED TEE"
INSTALLATION: IN ACCORDANCE WITH MATERIALS MANUFACTURERS' INSTRUCTIONS FOR SUSPENDED CEILING GRID AND TILE AND OSSC SECTION 803.9

ADDED

SPECIALTIES

WORK INCLUDED:
BICYCLE RACKS
BASKETBALL BACKSTOPS
GYMNASIUM WALL PADDING
GYMNASIUM DIVIDER CURTAIN
FIRE EXTINGUISHER CABINETS
WALL LOUVERS
ACOUSTICAL WALL AND CEILING PANELS

SUBMITTALS: PROVIDE COMPLETE MANUFACTURERS' LITERATURE AND SPECIFICATIONS. PROVIDE SHOP DRAWINGS FOR COMPLETE INSTALLATION INFORMATION AND COORDINATION WITH OTHER TRADES.

BICYCLE RACKS: HITCHING POST BICYCLE RACK. 1-1/2" DIAMETER STEEL PIPE, ASTM A120 GRADE B. SANDBLAST AND POWDER COAT. COLOR AS SELECTED. PROVIDE SIX RACKS FOR (2) BICYCLES EACH.

BASKETBALL BACKSTOPS: DESIGN BASIS: PORTER ATHLETIC EQUIPMENT COMPANY. MODEL: AS DETERMINED BY BACKSTOP MANUFACTURER AS MOST SUITABLE FOR FASTENING AND OPERATION CONDITIONS OF PROJECT. MANUFACTURER PROVIDES ALL STRUCTURAL SUPPORTS AND FASTENERS NEEDED TO INSTALL BACKSTOPS TO BUILDING STRUCTURE.

OVERHEAD-MOUNTED:
CEILING-SUSPENDED FORWARD-FOLD, MANUAL OPERATION, PROVIDE (2) BACKSTOPS.

WALL MOUNTED: STATIONARY WALL MOUNTED EXTENDED FROM BUILDING WALL 7'-4". PROVIDE (4) BACKSTOPS.

BACKSTOPS: RECTANGULAR, 72x42 INCHES, FUSED MELAMINE ON 55 PSF PARTICLE BOARD.

GOALS: PORTER "POWER FLEX.

GYMNASIUM WALL PADDING: DESIGN BASIS: PORTER ATHLETIC EQUIPMENT COMPANY.
24" WIDE SECTIONS, FLOOR-TO-7' ABOVE FLOOR: 14-OZ. VINYL-COATED NYLON COVERING 2" POLYURETHANE FOAM BONDED TO 7/16" OSB PANEL, CONTINUOUS "Z" TRACK MOUNTING. PROVIDE IN LENGTHS SHOWN ON FLOOR PLAN. INCLUDE 7-FOOT HIGH COLUMN SURROUNDS AT ALL EXPOSED INTERIOR COLUMN FACES OF GYMNASIUM.

GYMNASIUM DIVIDER CURTAIN: DESIGN BASIS: PORTER ATHLETIC EQUIPMENT COMPANY. CURTAIN SUPPLIER PROVIDES ALL STRUCTURAL SUPPORT AND MOUNTING AND OPERATING HARDWARE AS APPROPRIATE FOR BUILDING CONDITIONS.

TYPE: ROOF-MOUNTED, BI-PARTING, SIDE STACKING, TOP TRACK GUIDED. PROVIDE STACKED POSITION KEEPERS.

CURTAIN: SOLID GREY VINYL TO 8' ABOVE GYM FLOOR, GREY VINYL MESH FROM 8' ABOVE GYM FLOOR TO TOP OF CURTAIN.

FIRE EXTINGUISHER CABINETS: J.L. INDUSTRIES "EMBASSY" SERIES NO. 5714, "OCCULT" SERIES NO. 0-3216 OR APPROVED EQUAL. ADA APPROVED, SOLID DOOR, VERTICAL "FIRE EXTINGUISHER" LETTERING. CONCEALED HINGE AND HANDLE. PROVIDE MOUNTING HARDWARE RECOMMENDED BY MANUFACTURER.

WALL LOUVERS: AIROLITE COMPANY, CARNES OR APPROVED EQUAL. 4 INCH FRAME, FIXED ZEE BLADE STEEL LOUVERS. 10 GAGE BLADES WELDED TO 16 GA. STEEL CHANNEL FRAME. BLADES FIXED AT 30 DEGREE SLOPE. BLADES 3 INCH O.C. PROVIDE PVC COATED 1/4 INCH SQUARE MESH BIRD SCREEN.

ACOUSTICAL WALL AND CEILING PANELS: 2-INCH THICK SQUARE-EDGE FABRIC-WRAPPED 7-POUND-PER-CUBIC-FOOT DENSITY RIGID MINERAL FIBER INSULATION. INSTALL WALL PANELS WITH "Z" CLIPS: TWO PART METAL CLIPS DESIGNED TO SUPPORT WEIGHT OF PANELS, ONE PART MECHANICALLY ATTACHED TO WALL SUBSTRATE ACCORDING TO MANUFACTURES STANDARD PATTERN AND OTHER PART FASTENED TO BACK OF PANEL. FACING MATERIAL: GUILFORD OF MAINE FR 701 - STYLE 2100 - 100% POLYESTER

DESIGN BASIS: ALPHASORB WALL PANELS
ACOUSTICAL SOLUTIONS, INC.
2852 EAST PARHAM RD.
RICHMOND, VA 23228
PH. (800) 782-5742
FAX (804) 346-8808

INSTALLATION: INSTALL SPECIALTIES SECURELY, PLUMB, LEVEL AND SQUARE AND IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.

METAL BUILDING

SEE STRUCTURAL SPECIFICATIONS.
DESCRIPTION: STRUCTURAL STEEL TAPERED RIGID FRAME, 2:12 ROOF PITCH, 8" STEEL GIRTS, ROOF AND WALL PURLINS, 4' NOMINAL CENTER-TO-CENTER SPACING.
ROOFING: AEP/SPAN "MULTI-LOC 24" STANDING RIB PANELS FASTENED WITH THERMAL-BLOCK TYPE CLIPS, WITH ROOFING MANUFACTURER SUPPLIED FLASHINGS, GUTTERS, END CAPS, COATED WITH POLY-VINYLIDENE FLUORIDE, COLORS TO BE SELECTED.
SIDING: 22 GAGE SHEET METAL PANELS, EXTERIOR AND INTERIOR EXPOSED SURFACES COATED WITH COATED WITH POLY-VINYLIDENE FLUORIDE, COLORS TO BE SELECTED:
UPPER WALL PANELS: AEP/SPAN "BOX RIB" VERTICAL PANELS.
MIDDLE BAND PANELS: METECHNO-BENCHMARK 2" THICK "DESIGNWALL" "2000R" PROFILED HORIZONTAL 22-GAGE SHEET METAL LAMINATED PANELS WITH INTEGRAL R14 ISOCYANURATE INSULATION.
LOWER WALL PANELS: METECHNO-BENCHMARK 2" THICK "DESIGNWALL" "2000V" VERTICAL 22-GAGE SHEET METAL LAMINATED PANELS WITH FACTORY-APPLIED ACRYLIC AGGREGATE FINISH AND WITH INTEGRAL R14 ISOCYANURATE INSULATION.
INSULATION (AT UPPER WALL PANELS AND ROOF): 6-INCH THICK MINERAL FIBER BLANKETS WITH CONTINUOUS WHITE VINYL FACING TAPED AT SEAMS WITH 6-INCH WIDE VINYL TAPE

CUSTOM CABINETRY

WORK INCLUDED: CABINETRY
MATERIALS:
PARTICLE BOARD: ANSI A208.1 TYPE 1, 45 POUND DENSITY, WATER-RESISTANT ADHESIVE.
MELAMINE COATED PARTICLE BOARD: THERMOSET MELAMINE COATING ON PARTICLE BOARD.
DECORATIVE LAMINATE: NEMA LD 3.
HARDWARE: (TO MATCH EXISTING)
HINGES: CONCEALED FOR FLUSH OVERLAY, 135-DEGREE DOOR OPENING WHERE FEASIBLE, TYPE TO SUIT INSTALLATION CONDITIONS.
SHELF SUPPORTS: KNAPE AND VOGT 346 NP, (4) PER SHELF.
DOOR CATCHES: CHILD-PROOF TYPE: ONE AT EACH BASE DOOR AND DRAWER.
DRAWER GUIDES: 100-POUND RATED.
BUMPERS: CLEAR PLASTIC, (2) EACH DOOR AND DRAWER.
FABRICATION:
GENERAL: IN ACCORDANCE WITH W.I.C. CUSTOM GRADE FOR FLUSH OVERLAY.
PLASTIC LAMINATE FACING: PROVIDE ON ALL EXPOSED SURFACES. EDGES OF EXPOSED AND SEMI EXPOSED SURFACES MAY BE FACED WITH 2 MILLIMETER THICK HEAT WELDED PLASTIC STRIPPING.
SHELVES AND DOOR AND DRAWER BACKS: CABINET LINER.
CABINET BACKS: 1/2-INCH THICK MELAMINE FACED PARTICLE BOARD.

REGISTERED ARCHITECT
KENNETH J OGDEN
ASHLAND, OREGON
STATE OF OREGON

OgdenRoemerWilkerson
Architecture AIA
COLLABORATIVE APPROACH · HONEST DESIGN
2950 east barnett road
medford oregon 97504
541.779.5237 t
541.772.8472 f
www.ORWarchitecture.com

SANTO COMMUNITY CENTER PHASE 3
GYMNASIUM ADDITION
MEDFORD, OREGON

SPECIFICATION

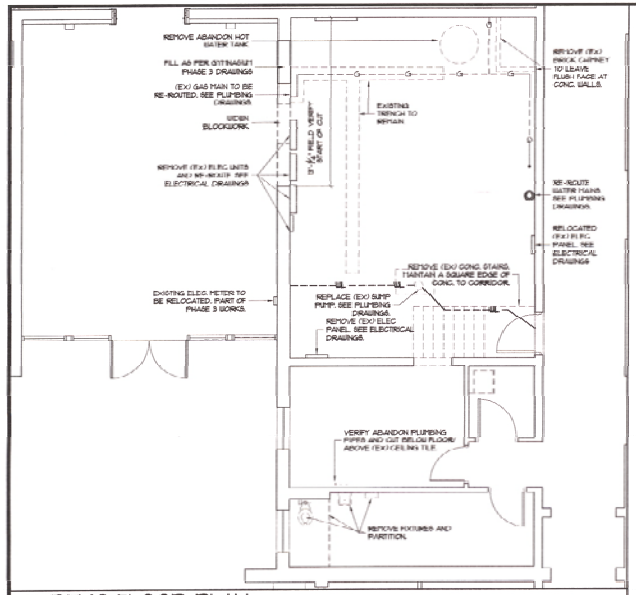
REV. 7.25.07
REV. 06/05/08

SCALE: NONE
3.13.07

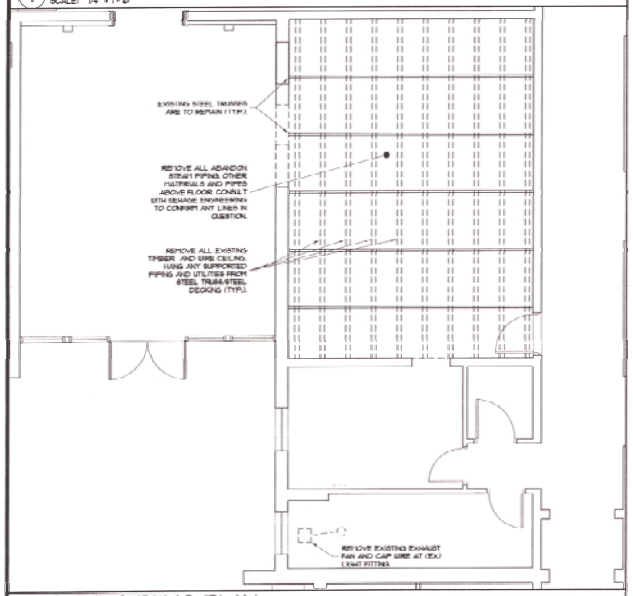
x0627CD3

0.3

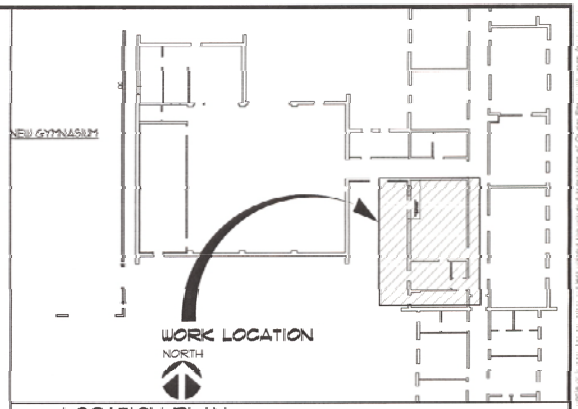
© 2008 Ogden Roemer Wilkerson Architecture. This document, and the ideas and designs incorporated herein as an instrument of professional service, is the property of Ogden Roemer Wilkerson Architecture and is not to be used, in whole or in part, for any other project without the written authorization of Ogden Roemer Wilkerson Architecture



1 DEMO FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 CEILING DEMO PLAN
SCALE: 1/4" = 1'-0"



3 LOCATION PLAN
SCALE: 1" = 20'-0"

REGISTERED ARCHITECT
KENNETH J OGDEN
ASHLAND, OREGON
STATE OF OREGON

OgdenRoemerWilkerson
Architecture
2950 east barnett road
medford oregon 97504
541 779.5237
541 772.8472
www.ORWarchitecture.com

SANTO COMMUNITY CENTER PHASE 3
ADMINISTRATOR REMODEL
MEDFORD, OREGON

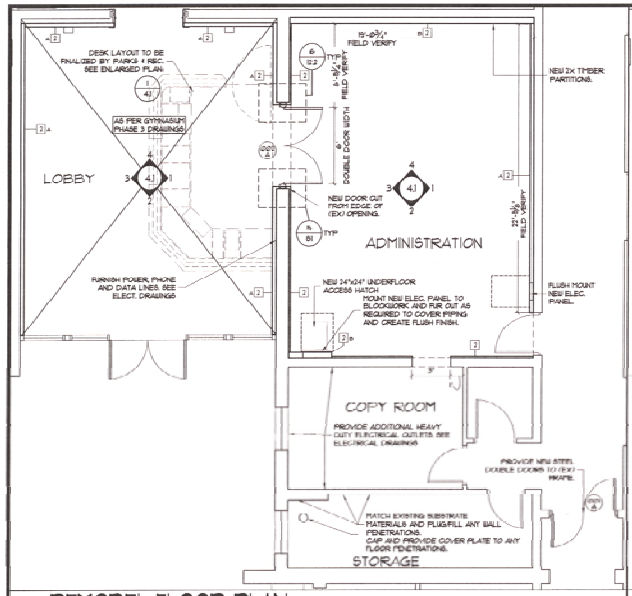
Demo Floor Plan
Demo Ceiling Plan

Location Plan

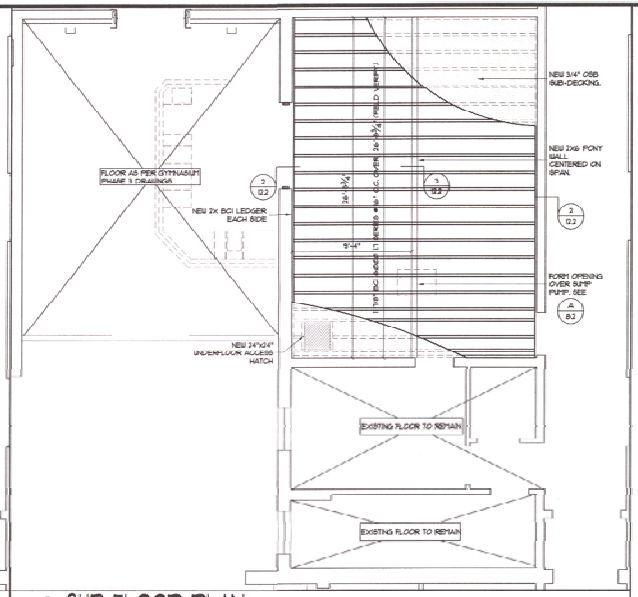
SCALE: 1/4"=1'-0"
REV 06/05/08

x000-TM

2.3



1 REMODEL FLOOR PLAN
SCALE: 1/4" = 1'- 0"



3 SUB FLOOR PLAN
SCALE: 1/4" = 1'- 0"

GENERAL NOTES:
1. ALL DIMENSIONS TO EXISTING STRUCTURE AND UTILITIES ARE TO BE FIELD VERIFIED.

ROOM FINISHES

LOBBY 100

SEE DRAWING 3.1

ADMINISTRATION

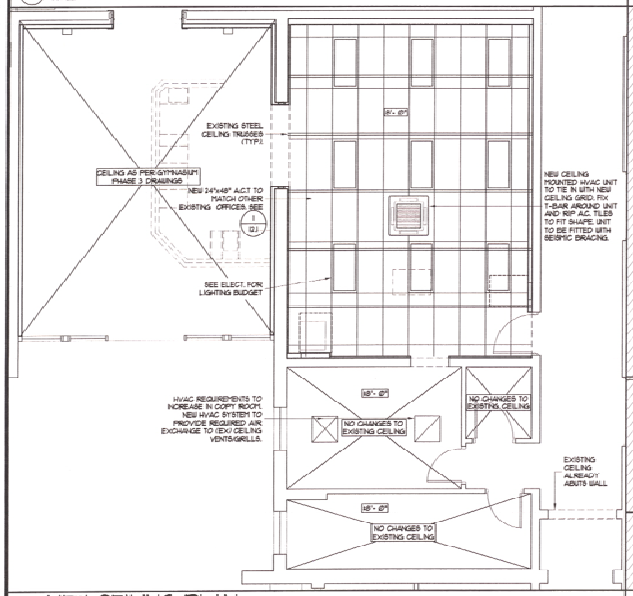
FLOOR SUBSTRATE: OSB DECKING
FLOORING: COMMERCIAL-GRADE ADHESIVE-APPLIED CARPET WITH 4-INCH HIGH RESILIENT TOE-LESS BASE SET ON 3/4-INCH THICK, 4-INCH HIGH WOOD BACKING.
WALLS: NEW FRAMING: 5/8-INCH THICK GYPSUM BOARD, PAINTED WITH PRIMER AND (2) TOP COATS ACRYLIC PAINT.
CEILING: 5/8-INCH THICK GYPSUM BOARD, PAINTED WITH PRIMER AND (2) TOP COATS ACRYLIC PAINT.

COPY ROOM

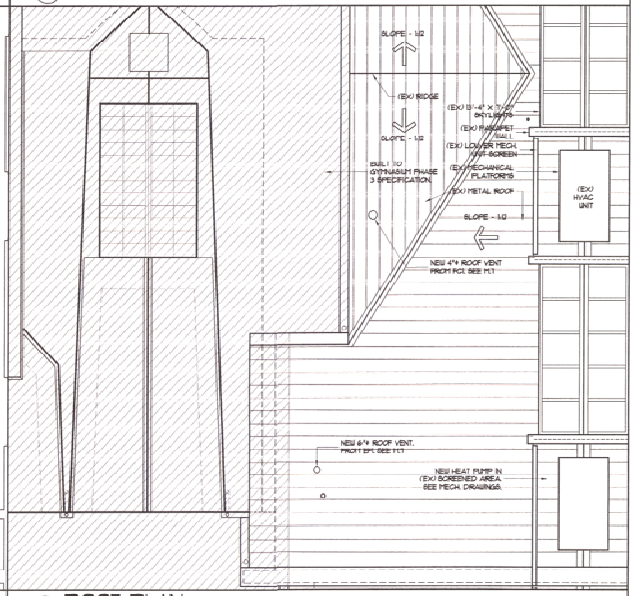
FLOOR SUBSTRATE: CONCRETE DECKING
FLOORING: COMMERCIAL-GRADE ADHESIVE-APPLIED CARPET WITH 4-INCH HIGH RESILIENT TOE-LESS BASE SET ON 3/4-INCH THICK, 4-INCH HIGH WOOD BACKING.
WALLS: CMU PAINTED WITH PRIMER AND (2) TOP COATS ACRYLIC PAINT.
CEILING: AS EXISTING

STORAGE

FLOOR SUBSTRATE: CONCRETE DECKING
FLOORING: AS EXISTING
WALLS: AS EXISTING
CEILING: AS EXISTING



2 NEW CEILING PLAN
SCALE: 1/4" = 1'- 0"



4 ROOF PLAN
SCALE: 1/4" = 1'- 0"

REGISTERED ARCHITECT
KENNETH J. OGDEN
ASHLAND, OREGON
STATE OF OREGON

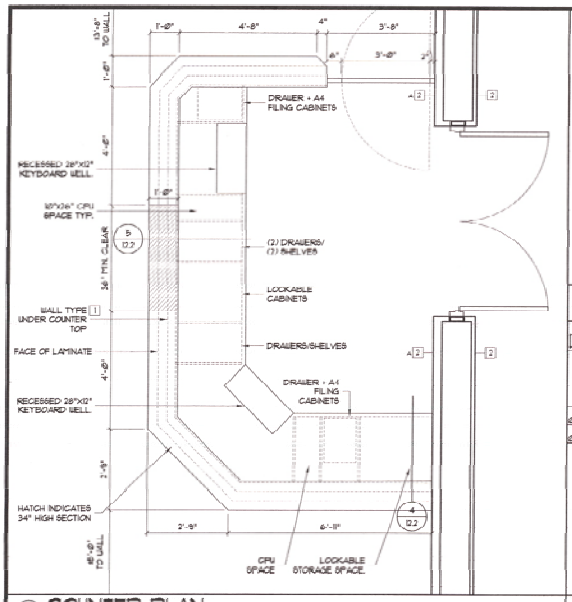
OgdenRoemerWilkerson Architecture
2950 east barnett road
medford, oregon 97504
541 772 8727
541 772 8727
www.ORWarchitecture.com

SANTO COMMUNITY CENTER PHASE 3
ADMINISTRATOR REMODEL
MEDFORD, OREGON

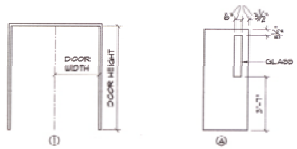
Floor Plan
Ceiling Plan
Subfloor Plan
Roof Plan

SCALE: 1/4" = 1'- 0"
REV. 06/05/08

© 2007 Ogden Roemer Wilkerson Architecture. This document, and the ideas and designs incorporated herein, as an instrument of professional service, is the property of Ogden Roemer Wilkerson Architecture and shall not be used in part for any project without their written authorization.



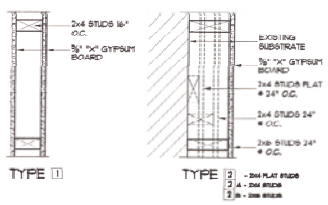
1 COUNTER PLAN
SCALE: 1/2" = 1'-0"



GLASS PANELS IN DOORS LOCATED IN AN INTERIOR WALL ARE ¼-INCH THICK CLEAR "SAFETY GLAZING" TYPE AS DEFINED BY THE OSSC.

FRAME TYPES
SCALE: 3/4" = 1'-0"

DOOR TYPES
SCALE: 3/4" = 1'-0"



WALL TYPES
SCALE: 1 1/2" = 1'-0"

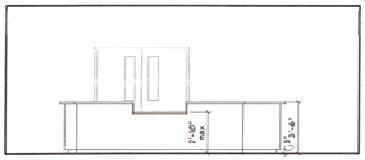
DOOR SCHEDULE

SYM		DOOR SIZE	DOOR MAT.	DOOR TYPE	DOOR FIN.	DOOR GLASS	FRAME MAT.	FRAME TYPE	FRAME FIN.	FIRE RATING	HDWR GROUP	DETAILS JAMB	DETAILS HEAD	DETAILS THSHLD	REMARKS
Ø01	A	Ø'- Ø" X Ø'-Ø" x 1 3/4"	STL	WD	P	TG	STL	EXISTING	P	NR	A5 (PER SANTO PHASE 3	6/12.1	6/12.1	-	FIELD VERIFY DOOR SIZE
Ø02	A	7'- Ø" X 3'-Ø" x 1 3/4"	STL	WD	P	TG	STL		P	NR	A5 (PER SANTO PHASE 3	6/12.1	6/12.1	-	

ABBREVIATIONS	
AL	ALUMINUM
FF	FACTORY FINISH
FP	FACTORY FINISH
ITG	INSULATED TEMPERED GLASS
LL	Ø.7mm LEAD-LINED DOOR
NR	NON RATED
P	PAINT

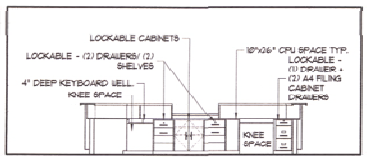
PLAM	PLASTIC LAMINATE
SC	SOLID CORE WOOD
STL	STEEL
STN	STAIN
TG	TEMPERED GLASS
WD	WOOD
H	HOUR
M	MINUTE

HARDWARE NOTES:
1. DOORS IN CORRIDOR (Ø01A) ARE TO HAVE PANIC BARS INSTALLED ON SIDE OF DOOR IN DIRECTION OF TRAVEL.

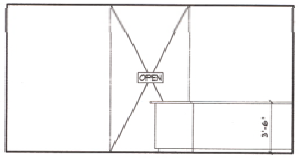


1 LOBBY - LOOKING EAST

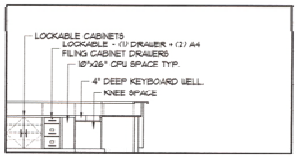
2 LOBBY - LOOKING SOUTH



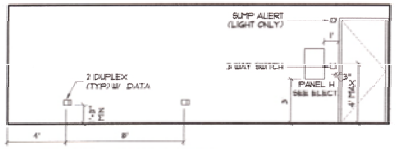
3 LOBBY - LOOKING WEST



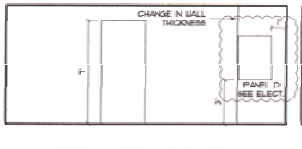
4. LOBBY - LOOKING NORTH



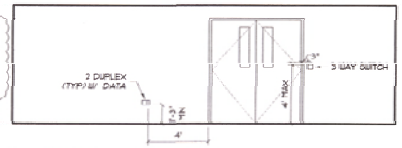
5. LOBBY - LOOKING SOUTH @ DESK



1. ADMIN - EAST WALL



2. ADMIN - SOUTH WALL



3. ADMIN - WEST WALL

INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"

REGISTERED ARCHITECT
KENNETH J OGDEN
ASHLAND, OREGON
STATE OF OREGON

OgdenRoemerWilkerson Architecture AIA
COLLABORATIVE APPROACH • HONEST DESIGN
2960 east barnett road
medford, oregon 97504
541 / 772 8572
541 / 772 8572
www.ORWarchitecture.com

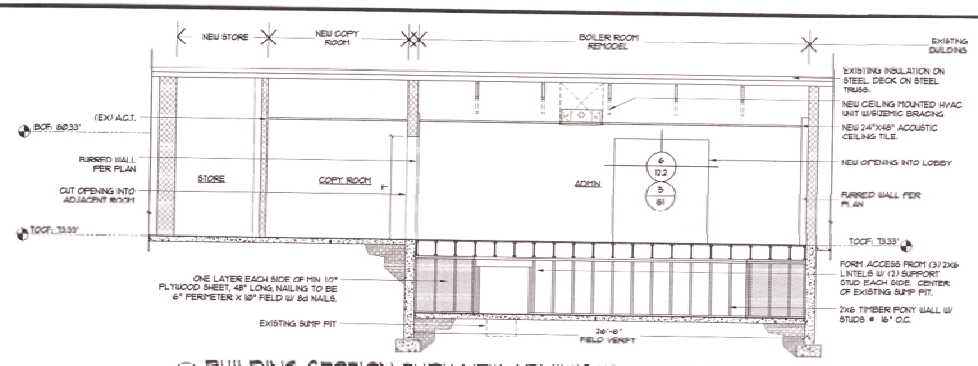
SANTO COMMUNITY CENTER PHASE 3
ADMINISTRATOR REMODEL
MEDFORD, OREGON

Reception desk
Schedule
Interior Elevations

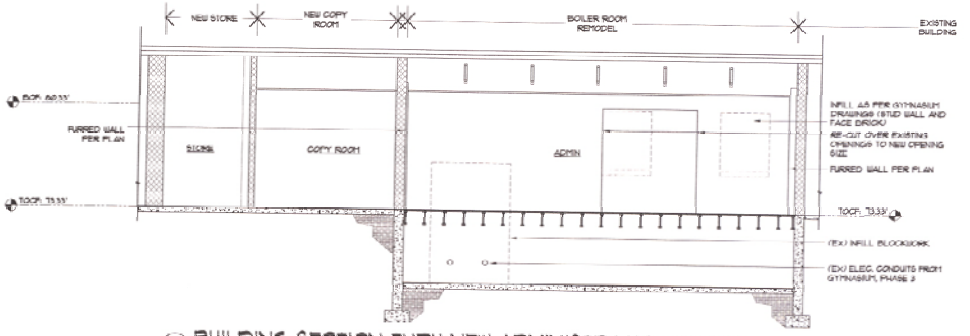
SCALE: 1/4" = 1'-0"
REV. 06/05/08

Copyright 2008 OgdenRoemerWilkerson Architecture. This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of Ogden Roemer Wilkerson Architecture and shall not be used in other work or projects without the express written consent of Ogden Roemer Wilkerson Architecture.

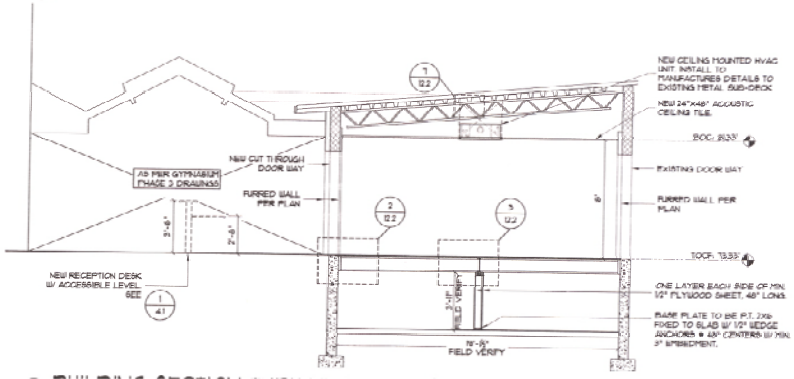
4.1



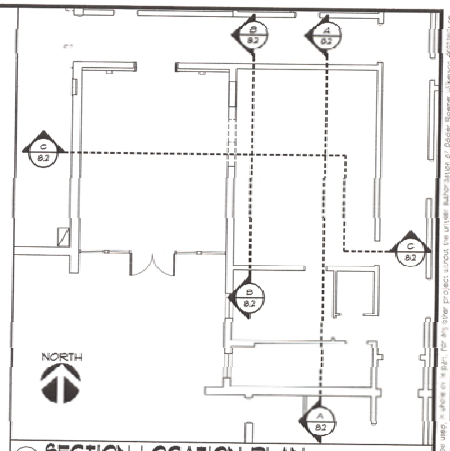
A BUILDING SECTION THRU NEW ADMINISTRATION ROOM
SCALE: 1/4" = 1'- 0"



B BUILDING SECTION THRU NEW ADMINISTRATION ROOM
SCALE: 1/4" = 1'- 0"



C BUILDING SECTION THRU NEW ADMINISTRATION ROOM
SCALE: 1/4" = 1'- 0"



1 SECTION LOCATION PLAN
SCALE: 1/8" = 1'- 0"

REGISTERED ARCHITECT
KENNETH J. OGDEN
ASHLAND, OREGON
STATE OF OREGON

OgdenRoemerWilkerson Architecture AIA
2950 ashland street road
ashland, oregon 97504
541 779 9257
541 772 8872
www.ORWarchitecture.com

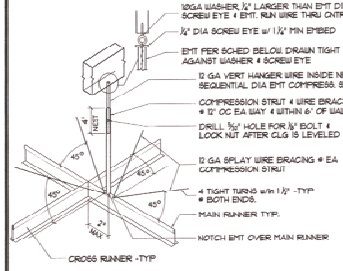
SANTO COMMUNITY CENTER PHASE 3
ADMINISTRATOR REMODEL
MEDFORD, OREGON

SECTION

SCALE: AS SHOWN
REV. 06/08/08

© 2007 Ogden Roemer Wilkerson Inc. All rights reserved. This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of Ogden Roemer Wilkerson Architecture, Inc. It is to be used only for work authorized by Ogden Roemer Wilkerson Architecture, Inc. Alterations or reproduction of this document without the written consent of Ogden Roemer Wilkerson Architecture, Inc. is prohibited.

8.2

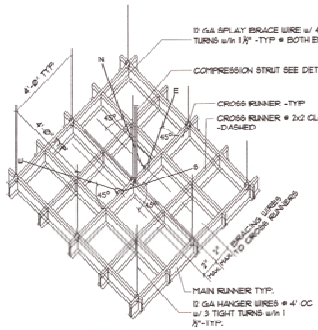


COMPRESSION STRUT NOTE:

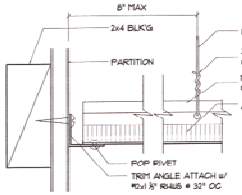
COMPRESSION STRUTS: NESTED SEQUENTIAL DIA. STL EMT SECTIONS W/ 4" MIN OVERLAP PER DETAIL, STARTING NOT MORE THAN 6" FROM ADJ. WALLS TO SUPPORT A TRIBUTARY AREA OF 144 SF MAX. COMPRESSION STRUT SHALL NOT REPLACE HANGER WIRE. MIN EMT DIA TO TOTAL STRUT LENGTH PER FOLLOWING TABLE TO MEET L/R RATIO OF 200 MAX.

½" DIA TO 48"
3/4" DIA TO 6-8"
1" DIA TO 8"
1-1/4" DIA TO 10'2"
1-1/2" DIA TO 12'0"

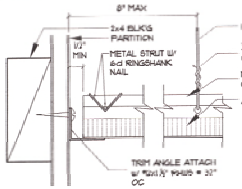
COMPRESSION STRUT & SPLAY BRACING



HANGER & SPLAY BRACING WIRE LAYOUT



T-BAR CLG. PERIMETER (FIXED)



T-BAR CLG. PERIMETER (FREE)

1. EXITWAYS: SURROUND EA. PANEL w/ A MAIN or CROSS RUNNER.

2. COMPONENTS: SYSTEM SHALL SUPPORT NO OTHER COMPONENTS EXCEPT GRILLES or LIGHT FIXTURES. TOTAL SYSTEM WGT NOT TO EXCEED 4 PSF.

3. HANGERS WIRES: MIN. 12 GA, MAX. 16 SF. NO SPLICES PERMITTED.

4. PERIMETERS: HANGER WIRE w/in 8" of SUPPORT or w/in ONE QUARTER of LENGTH of END TEE, WHICHEVER IS LESS.

5. PROVIDE SUPPLEMENTARY SUPPORT @ OBSTRUCTIONS & AT CLG BREAKS or SOFFITS. HANGER WIRES MORE THAN 1.6 OUT of PLUMB SHALL HAVE COUNTERSLOPE WIRES.

6. ATTACH SYSTEM TO NOT MORE THAN 2 ADJACENT WALLS. LEAVE ¼" FREE of OTHER WALLS. WHERE WALLS ARE DIAGONAL, ONE END of MAIN & CROSS RUNNERS SHALL BE FREE AND ¼" CLR of WALL.

7. PROVIDE STRUTS or 16 GA WIRE TO CONNECT FREE END of CROSS RUNNERS MORE THAN 12" FROM WALL TO PREVENT LATERAL SPREADING.

8. SPLAYED BRACING ASSEMBLIES: SETS of 4 WIRES ORIENTED 90 DEGREES FROM EA OTHER, 12 GA MIN, MAX SPACING of 12'x12' FOR SCHOOLS, 8'x12' FOR HOSPITALS, AND AT LOCATIONS NOT MORE THAN ⅓ OF THESE AREAS ALONG EACH PERIMETER WALL & VERTICAL CLG OFFSETS. PROVIDE VERTICAL COMPRESSION STRUT @ EA SET of BRACING WIRES.

9. SLOPE of BRACING WIRES: 45 DEGREES FROM PLANE of CLG. MAINTAIN WIRES TIGHT, NO SPLICES.

10. (3) TIGHT TURNS REQ'D @ HANGER WIRE, (4) TIGHT TURNS @ BRACING WIRE, ALL w/in A DISTANCE OF ⅛". ALIGN WIRES IN DIRECTION of PULL.

11. SEPARATE WIRES 6" FROM UNBRACED DUCTS, PIPES or CONDUIT. CONDUIT ¾" DIA. or LESS MAY BE ATTACHED TO WIRES w/ APPROVED CONNECTORS.

12. LIGHT FIXTURES: ATTACH TO CLG SYSTEM TO RESIST HORIZ. FORCE EQ TO THE WEIGHT of THE FIXTURE.

13. LIGHT FIXTURES & AIR TERMINALS WEIGHING UNDER 56LBS MAY BE SUPPORTED BY HEAVY DUTY GRID RUNNERS, BUT SHALL ALSO HAVE (2) 12 GA BLACK SAFETY WIRES AT DIAG. CORNERS TO STRUCTURE ABOVE. SUPPORT LIGHT FIXTURES & AIR TERMINALS WEIGHING OVER 56LBS INDEPENDENTLY w/ (4) TAUT 12 GA WIRES. WIRES & ATTACHMENTS SHALL BE CAPABLE OF SUPPORTING 4x WEIGHT of UNIT.

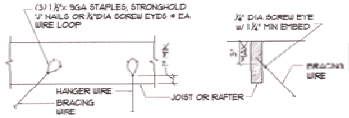
14. SURFACE MOUNTED FIXTURES: SUPPORT w/ MIN. (2) POSITIVE DEVICES WHICH SURROUND RUNNER, SUPPORT RUNNER w/ 12 GA HANGER WIRE. SPRING CLIPS or CLAMPS NOT SUPPORTED BY HANGER WIRE NOT PERMITTED.

15. PENDANT MOUNTED FIXTURES: SUPPORT DIRECT FROM STRUCTURE w/ HANGER WIRE or CABLE PASSING THRU EACH PENDANT HANGER, CAPABLE of SUPPORTING 4x WEIGHT OF FIXTURE.

16. DO NOT ECCENTRICALLY LOAD SYSTEM.

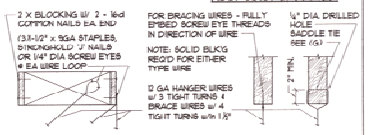
17. SUSPENSION GRID SYSTEM, HEAVY DUTY. SEE SPECS for APPROVED PRODUCTS.

SUSPENDED CEILING NOTES



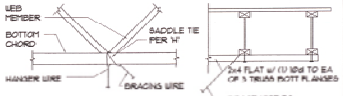
(A) WOOD JOIST or RAFTER

(B) BRACING WIRE @ ROOF JOIST or RAFTER



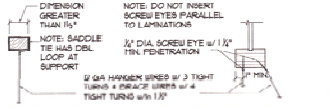
(C) WOOD JOIST or BLOCK'G

(D) TO BOTTOM of WOOD JOIST, RAFTER or BLOCKING



(E) BRACING WIRE PARALLEL TO OPEN WEB WOOD TRUSS

(F) I-JOIST BRACING

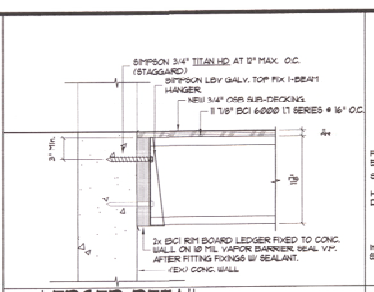


(G) TYP. SADDLE TIE

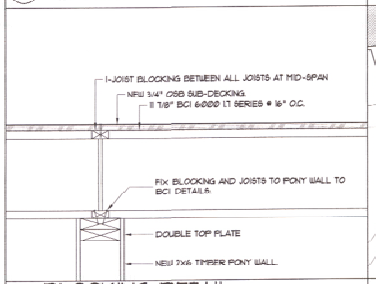
(H) I-JOIST -BOTTOM FLANGE

WIRE CONNECTIONS TO WD FRAMING

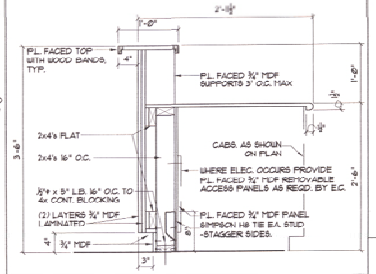
1 SUSPENDED T-BAR CEILING NOTES & DETAILS
SCALE: NTS



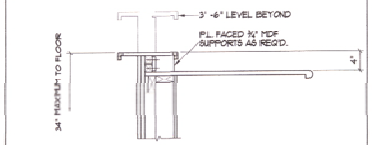
2 LEDGER DETAIL
SCALE: 1-1/2" = 1'- 0"



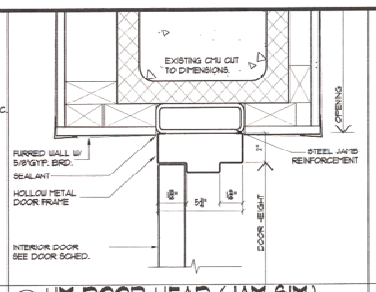
3 BLOCKING DETAIL
SCALE: 1-1/2" = 1'- 0"



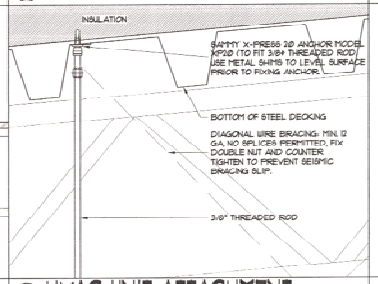
4 RECEPTION COUNTER
SCALE: 1"=1'-0"



5 ACCESSIBLE SECTION
SCALE: 1"=1'-0"



6 HM DOOR HEAD (JAM SIM)
SCALE: 3"= 1'- 0"



7 HVAC UNIT ATTACHMENT
SCALE: 3"= 1'- 0"

REGISTERED ARCHITECT
KENNETH J. OGDEN
ASHLAND, OREGON
STATE OF OREGON

OgdenRoemerWilkerson Architecture AIA
2990 east barnett road medford oregon 97504
541 772 8472
CO-LABORATIVE APPROACH • HONEST DESIGN
www.ORWarchitecture.com

SANTO COMMUNITY CENTER PHASE 3
ADMINISTRATOR REMODEL
MEDFORD, OREGON

DETAILS

SCALE: AS SHOWN
REV. 06/05/08

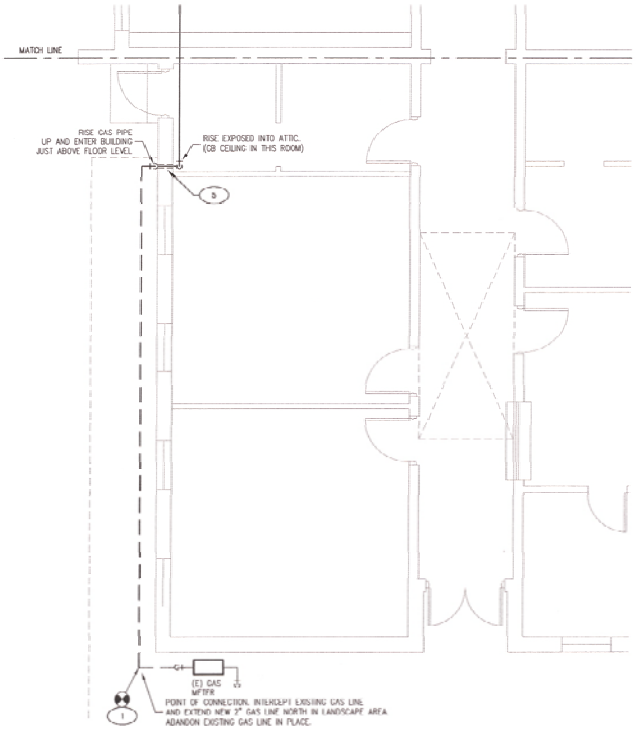
x2613-DT1

12.2

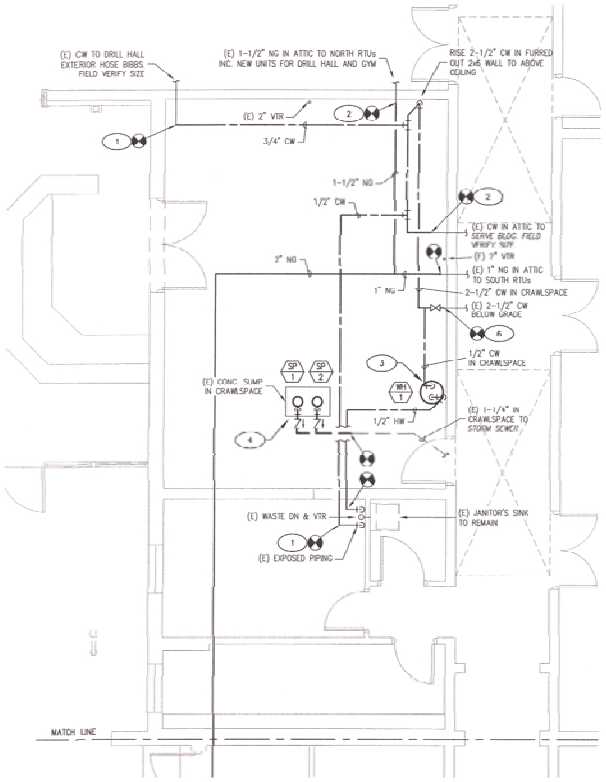
© 2007 Ogden Roemer Wilkerson Architecture. This document, and the ideas and designs incorporated herein, as an instrument of professional service, is the property of Ogden Roemer Wilkerson Architecture and is not to be used in whole or in part, for any other project without the written authorization of Ogden Roemer Wilkerson Architecture.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MINIMUM CONNECTION SIZE				REMARKS
		WASTE	VENT	CW	HW	
WH-1	WATER HEATER	--	--	1/2"	1/2"	A.O. SMITH MODEL EJCS-20 20 GALLON ELECTRIC WATER HEATER, 120V, 2.5 kW WITH 11 GPH RECOVERY AT 90°F RISE
ET-1	EXPANSION TANK	--	--	1/2"	--	AMTROL MODEL ST-5 THERM-X-TROL EXPANSION TANK, 2 GALLON
SP-1	DUPLEX SUMP PUMPS	1-1/2"	--	--	--	ZOELLER MODEL N53 DUPLEX SUMP PUMPS, 34 GPM AT 10 FT HD, 1/3 HP, 115V. PROVIDE WITH MECHANICAL ALTERNATOR, VARIABLE LEVEL FLOAT CONTROLS, AND ALARM
SP-2		1-1/2"	--	--	--	



NORTH 1 PLUMBING PLAN - SOUTH
1/4" = 1'-0"



NORTH 2 PLUMBING PLAN - NORTH
1/4" = 1'-0"

WE WEHAGE ENGINEERING, INC.
CONSULTING MECHANICAL ENGINEERS
1236 DESK DRIVE, SUITE I - MEDFORD, OREGON 97504
PHONE: 541-842-4188 FAX: 541-842-4189

GENERAL NOTES

A. FIELD VERIFY SIZE AND LOCATION OF ALL EXISTING PLUMBING PIPING.

B. REMOVE ALL EXISTING PLUMBING PIPING IN THE WORK AREA, NOT SHOWN FOR RECONNECTION, EXCEPT BURIED GAS PIPING OUTSIDE THE BLDG.

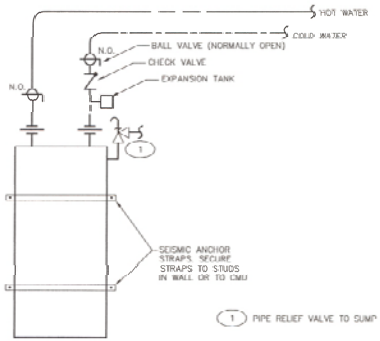
C. PIPE INSULATION: HOT WATER PIPE INSULATION SHOULD BE A MINIMUM OF 1" (PIPING LESS THAN 1" IN DIAMETER AND LESS THAN 12 FEET IN LENGTH SHALL BE INSULATED WITH ½" INSULATION WITH A MINIMUM OF CONDUCTIVITY OF 0.24 BTU-IN/HR-FT²-°F) TO COMPLY WITH THE STATE OF OREGON ENERGY STANDARDS. PROVIDE 1/2" FIBERGLASS INSULATION ON COLD WATER PIPE INSTALLED ABOVE GRADE WITHIN THE BUILDING FOR CONDENSATION CONTROL.

D. NATURAL GAS PIPING. ABOVE GROUND PIPE SHALL BE SCHEDULE 40 ASTM A53 GRADE B BLACK STEEL PIPE WITH SCREWED OR WELDED FITTINGS. DIRECT BURIED PIPE SHALL BE SCHEDULE 40 ASTM A53 GRADE B BLACK STEEL PIPE WITH ASTM A234 BLACK STEEL WELDED FITTINGS. PIPING SHALL BE WRAPPED AND BITUMEN COATED. PROVIDE ANODE BAGS FOR CATHODIC PROTECTION OF BURIED STEEL PIPE. CONTRACTOR MAY USE CSST FOR BELOW GRADE PIPE WITHIN A CONTINUOUS SLEEVE.

E. WATER HEATER ENERGY PERFORMANCE SHALL COMPLY WITH THE REQUIREMENTS LISTED IN TABLE 1.5-1 OF THE OSSC.

KEYED NOTES

1. POINT OF CONNECTION, TYPICAL.
2. RECONNECT TO EXISTING PIPING ABOVE CEILING, TYPICAL.
3. NEW COMPACT ELECTRIC WATER HEATER IN CRAWLSPACE. SEE DETAIL 3. ROUTE RELIEF PIPE TO SUMP. CONNECT TO CW IN CRAWLSPACE. RISE HW IN FURRED OUT WALL TO ABOVE CEILING.
4. PROVIDE NEW DUPLEX SUMP PUMP SYSTEM IN EXISTING CONCRETE SUMP. CONNECT TO EXISTING 1-1/4" DRAIN PIPING WITH CHECK VALVES FOR EACH PUMP. RESUPPORT EXISTING WASTE LINE FROM NEW FLOOR ABOVE (IT IS NOW SUPPORTED FROM THE STAIRS). COORDINATE LOCATION OF ALARM WITH OWNER.
5. CORE DRILL EXISTING WALL 3" DIAMETER FOR 2-3/8" OD PIPE. SEAL ANNULAR SPACE BETWEEN PIPE AND WALL WITH SILICONE SEALANT.
6. POINT OF CONNECTION. CONNECT NEW 2-1/2" CW TO EXISTING RIGHT AFTER IT COMES THROUGH THE WALL FROM BELOW GRADE. PROVIDE NEW GATE VALVE FOR BLDG SHUT-OFF.



3 ELECTRIC WATER HEATER
SCALE: NONE

© 2007 Ogden Roemer Wilkerson Architecture. This document, and the data and designs incorporated herein, as an instrument of professional service, is the property of Ogden Roemer Wilkerson Architecture and is not to be used in whole or in part, or any other projects without prior written authorization of Ogden Roemer Wilkerson Architecture

REGISTERED PROFESSIONAL ENGINEER
OREGON
JOHN W. KELLER
EXPIRES: 06/30/09

ORW Ogden Roemer Wilkerson Architecture AIA
GOLD MASTER APPROACH HONEST DESIGN
2950 east barnett road
medford, oregon 97504
541.772.8317
541.772.8372
www.ORWarchitecture.com

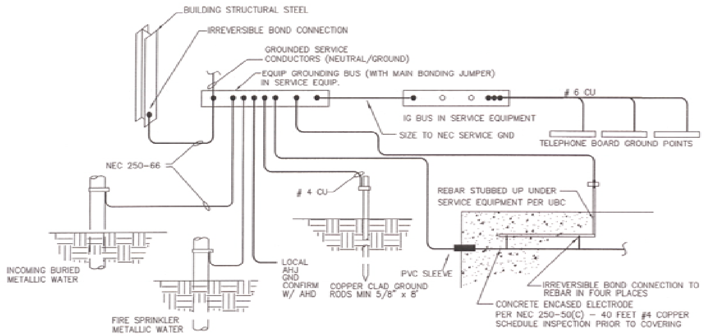
SANTO COMMUNITY CENTER PHASE 3
ADMINISTRATOR REMODEL
MEDFORD, OREGON

PLUMBING PLAN

SCALE: 1/4"=1'-0"
12 MAY 2008

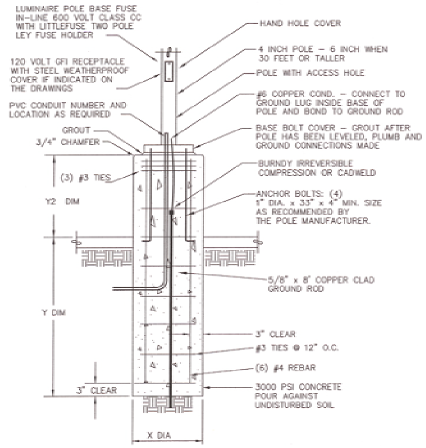
P1

GROUNDING AND BONDING DETAIL



1. INSTALL GROUNDING/BONDING CONDUCTORS IN PROTECTIVE RACEWAYS
2. ALL ISOLATED GROUND CONDUCTORS ARE GREEN WITH TRACER COLOR IN INSULATION, NO EXCEPTIONS

POLE FOUNDATION DETAIL



NOTE 1: Y2 DIMENSION IS 3' 0" IN OPEN PARKING AREAS SUBJECT TO VEHICLE TRAFFIC
Y2 DIMENSION IS 1' 0" IN LANDSCAPE AREAS PROTECTED BY PARKING CURBS
CONFIRM Y2 DIMENSION WITH THE ARCHITECT PRIOR TO EXCAVATION

NOTE 2: CONSTRAINED REFERENCE INCLUDES MINIMUM OF 4 INCH CONCRETE OR ASPHALT PARKING PAD MATERIAL ADDING TO BASE STRUCTURE CALCULATIONS

NOTE 3: FOR POLES WITH LUMINAIRE COMBINATIONS HAVING A COMBINED SAIL AREA GREATER THAN 4 SQUARE FEET CONTRACTOR TO PROVIDE POLE MANUFACTURES STRUCTURAL CALCULATIONS CONFIRMING X DIA AND Y DIM VALUES

NOTE 4: CALCULATIONS CONSIDER ONLY NATIVE STABLE SOILS, CONSULT SOILS REPORT AND PROVIDE STRUCTURAL ENGINEERED MODIFICATIONS IN UNUSUAL CONDITIONS

NOTE 5: PROVIDE POLE WALL THICKNESS MINIMUM 90 MPH STRUCTURE (1.3 GUST FACTOR) CALCULATED TO LUMINAIRE SAIL AREA BY POLE MANUFACTURE

	CONSTRAINED		NON-CONSTRAINED	
POLE HEIGHT	X DIA	Y DIM	X DIA	Y DIM
10 FEET	18 INCH	36 INCH	18 INCH	48 INCH
20 FEET	24 INCH	48 INCH	24 INCH	60 INCH
30 FEET	24 INCH	54 INCH	24 INCH	72 INCH
40 FEET	36 INCH	66 INCH	30 INCH	84 INCH

DEFINITIONS

"PROVIDE" MEANS TO SUPPLY, PURCHASE, TRANSPORT, LOAD, UNLOAD, STORE, PLACE, ERECT, CONNECT, TEST AND TURNOVER COMPLETE AND READY FOR REGULAR OPERATION, THE PARTICULAR WORK REFERRED TO. "PROVIDE" MEANS TO "FURNISH" AND "INSTALL".

"FURNISH" MEANS TO SUPPLY ALL MATERIALS, LABOR, EQUIPMENT, TESTING APPARATUS, CONTROLS, TESTS, ACCESSORIES, AND ALL OTHER ITEMS CUSTOMARILY REQUIRED FOR THE PROPER AND COMPLETE APPLICATION FOR THE PARTICULAR WORK REFERRED TO.

"INSTALL" MEANS TO JOIN, UNITE, FASTEN, LINK, ATTACH, SETUP OR OTHERWISE CONNECT TOGETHER BEFORE TESTING AND TURNING OVER TO ARCHITECT, COMPLETE AND READY FOR REGULAR OPERATION, THE PARTICULAR WORK REFERRED TO INCLUDING ALL REQUIRED LOADING, UNLOADING, AND STORAGE.

"WIRING" MEANS ALL RACEWAYS, FITTINGS, CONDUCTORS, CONNECTORS, TAPE, JUNCTION AND OUTLET BOXES, CONNECTORS, SPLICES, AND ALL OTHER ITEMS NECESSARY AND/OR REQUIRED IN CONNECTION WITH SUCH WORK.

"CONDUIT" MEANS THE INCLUSION OF ALL FITTINGS, HANGERS, SUPPORTS, SLEEVES, ETC.

"CONCEALED" MEANS EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED BEHIND WALL FURRING OR WITHIN DOUBLE PARTITIONS, OR INSTALLED WITHIN HUNG CEILINGS.

"EQUAL" MEANS A SIMILAR PRODUCT OR PRODUCT APPLICATION OR INSTALLATION METHOD AS DETERMINED AND ACCEPTED BY THE SPECIFIER.

"LISTED AND LABELED" MEANS AS DEFINED IN THE "NATIONAL ELECTRICAL CODE," ARTICLE 100 AND THE STATE AMENDMENTS.

SYMBOL'S

- SINGLE RECEPTACLE, NEMA 5-20R UON
- RECEPTACLE MOUNTED OVER COUNTER, SEE ARCH INTERIOR ELEVATIONS
- DUPLEX RECEPTACLE, NEMA 5-20R UON
- TWO DUPLEX RECEPTACLE IN 2-GANG BOX, NEMA 5-20R, UON
- S — SWITCHED RECEPTACLE
- A-2 — "A-2" INDICATE DEVICE POWER FROM PANEL 'A' CIRCUIT 2
- CORD DROP RECEPT, MOLDED BOX, STRAINED RELIEF, SO CORD, SEE DETAILS.
- SCHEDULED EQUIPMENT RECEPTACLE SEE EQUIPMENT SCHEDULES
- JUNCTION BOX - SIZE TO NEC
- ELECTRICAL POWER PANEL BOARD -- SURFACE MOUNT
- ELECTRICAL POWER PANEL BOARD -- FLUSH MOUNT
- RECEPTACLE, FLOOR BOX - SEE ARCHITECTURAL DRAWINGS FOR FLOOR TYPE TYPE
- RECEPTACLE/DATA, FLOOR BOX - SEE ARCHITECTURAL DRAWINGS FOR FLOOR TYPE DATA IS (2) 3/4 INCH C. TO ACCESSIBLE SPACE U.O.N.
- TELEPHONE/DATA FURNITURE CONNECTION, 4X4 BOX, 2 GND RING, (2) 3/4 CONDUIT WHIPS AND FURNITURE CONNECTIONS
- TELE/DATA DROP, 4X4 BOX, 2 GANG RING, (2) 3/4 C. TO ACCESSIBLE CEILING SPACE
- TELE/DATA DROP, 4X4 BOX, 2 GANG RING, 3/4 C. TO ACCESSIBLE CEILING SPACE
- TELE PUNCH DOWN BOARD, 3/4 FINISHED PLYWOOD, PAINTED, GROUNDED.
- TV — CABLE TV DROP LOCATION, 4X4 BOX, 1 GANG RING, 3/4 CONDUIT, COVER, PULL-CORD
- 'A' — LUMINAIRE WITH TYPE TAG (SYMBOLS VARY WITH TYPE)
- 'A' — FULLY DARKENED OR HALF DARKENED INDICATES EMERGENCY BATTERY BALLAST
- $ — SINGLE POLE SWITCH
- $OC — WALL OCCUPANCY SENSOR WITH MANUAL ON/OFF, MAY BE DOUBLE SWITCH
- $2 — SINGLE POLE, DOUBLE THROW SWITCH
- $3 — THREE-WAY SWITCH
- $4 — FOUR-WAY SWITCH
- $M,d — M=MANUAL MOTOR STARTER WITH THERMAL UNITS d=WALL BOX DIMMER
- $A-2 — "A-2" INDICATE DEVICE POWER FROM PANEL 'A' CIRCUIT 2
- OC — CEILING MOUNT OCCUPANCY SENSOR WITH POWER PACK AND RELAYS
- 30 AF 20 AT — FUSED DISCONNECT SWITCH, AF= SWITCH FRAME, AT= FUSE SIZE, EQF =FUSE TO NAMEPLATE
- 30 AF — NONFUSIBLE DISCONNECT SWITCH, AF= SWITCH FRAME SIZE
- 30 AF 20 AT — ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, AF= FRAME, AT= HACR BREAKER SIZE, EQ = HACR AT NAMEPLATE
- M — MOTOR CONNECTION, INCLUDES DISCONNECTS AND FUSING
- EF 21 — MECHANICAL/ELECTRICAL EQUIPMENT CONNECTION TAG INCLUDES DISCONNECTS, FUSING, WHIPS, CONNECTIONS, MOUNTING, ETC.
- XX — DRAWING REFERENCE NOTE
- EXIT DIRECTIONAL ARROWS
- EXIT SIGN SINGLE FACE
- EXIT SIGN DOUBLE FACE
- HOME RUN TO PANEL WIRING INDICATOR W/ REQUIRED POWER AND GROUND CONDUCTORS NOT SHOWN.
- 2 E9 — DETAIL NUMBER 2 LOCATED ON SHEET E9
- GROUND BUS - UON 6"X2"X1/4 CU W/ 6 1/4-20 HOLES

ABBREVIATIONS

NEC	NATIONAL ELECTRICAL CODE	EMT	ELECTRICAL METALLIC TUBING
		PVC	RIGID NONMETALLIC CONDUIT
AFG	ABOVE FINISHED GRADE	C.B.	CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	V	VOLTS
BFC	BELOW FINISHED CEILING	A	AMPERES
WP	WEATHER PROOF	W	WATTS
GFI	GROUND FAULT CIRCUIT INTERRUPTER	VA	VOLT-AMPERES
J-BOX	JUNCTION BOX	HP	HORSEPOWER
CU	COPPER	NA	NOT APPLICABLE
C.	CONDUIT	PMR	PER MANUFACTURER'S REQUIREMENTS
TYP	TYPICAL	OC	OVER COUNTER - SEE ELEVATIONS
UON	UNLESS OTHERWISE NOTED	EQF	PROVIDE FUSE TO EQUIPMENT NAMEPLATE

PROJECT GENERAL NOTES

A. ALL GENERAL NOTES APPLY TO ALL SHEETS.

B. REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL WORK.

C. CONTRACTOR TO PROVIDE BRANCH CIRCUIT POWER WIRING. CONTRACTOR TO PROVIDE ALL SWITCH LEG WIRING AS REQUIRED FOR PROPER OPERATION. METALLIC CABLE IS APPROVED FOR BRANCH CIRCUIT WIRING IN CONCEALED WALLS AND IN CEILINGS SPACES. ALL CIRCUITS CONTAIN GROUND CONDUCTORS. MINIMUM POWER CIRCUIT IS # 12 COPPER, MINIMUM HOME RUN CIRCUIT IS #10. ALL CONDUITS CONTAIN POWER AND GROUND CONDUCTORS AND IG CONDUCTOR WHERE INDICATED AT THE CONNECTING DEVICE. CONDUCTORS ARE SIZED AS SHOWN AND INDICATED OR SIZED TO THE N.E.C. U.O.N.

D. WHERE ISOLATED GROUND DEVICES ARE INDICATED, IG GROUND CONDUCTORS ARE GREEN INSULATED WITH COLOR TRACER, MAINTAIN SAME COLOR TRACER THROUGHOUT THE PROJECT. RACEWAYS ARE NOT CONSIDERED EQUIPMENT GROUND PATHS.

E. ALL DEVICES ARE SPEC GRADE 20 AMP MINIMUM, WHITE WITH WHITE COVERS IN FINISHED SPACES AND STEEL COVERS IN UNFINISHED SPACES. PROVIDE CIRCUIT NUMBERS ON EACH DEVICE PLATE INDICATING PANEL AND CIRCUIT.

F. ALL CONDUCTORS ARE COPPER, ALL BOXES HAVE COVERS WITH CIRCUIT ID.

G. PROVIDE ALL PERMITS. DO NOT INSTALL WORK OR MATERIALS IN ANY FASHION THAT IS NOT FULLY COMPLAINT WITH THE NATIONAL ELECTRICAL CODE, THE OREGON STRUCTURAL SPECIALTY CODE, AND ALL STATE AMENDMENTS.

H. COORDINATE WITH MECHANICAL EQUIPMENT. DO NOT ROUGH IN ELECTRICAL PRIOR TO REVIEWING MECHANICAL EQUIPMENT SHOP DRAWINGS WITH THE MECHANICAL CONTRACTOR. ALL REWORK ASSOCIATED WITH FAILURE TO COORDINATE WITH MECHANICAL EQUIPMENT REQUIREMENTS WILL BE REWORKED AT THE EXPENSE OF THE CONTRACTOR.

I. PROVIDE SUBMITTAL DOCUMENTS PRIOR TO ORDERING EQUIPMENT. SUBMIT LIGHT FIXTURES, BREAKER BOXES, SERVICE EQUIPMENT, EQUIPMENT, AND ITEMS AS REQUESTED. CONDUIT, CONDUCTORS, BOXES DO NOT REQUIRE SUBMITTAL.

J. ASSUME A GENERAL REARRANGEMENT OF EQUIPMENT DURING THE CONSTRUCTION PROCESS. ASSUME IN THE BASE BID ADJUSTMENT OF EQUIPMENT LOCATIONS.

K. PROVIDE ALL UTILITY COORDINATION, EXCAVATION, BACK FILL, RACEWAYS, PAD/VAULTS, HAND HOLES, TERMINAL BOARDS, ETC. FOR A COMPLETE INSTALLATION OF SITE UTILITIES INTO THE BUILDING PROJECT. UTILITIES INCLUDE POWER, TELEPHONE, AND CABLE TV. ASSUME UTILITY POINTS OF CONNECTION ARE ON THE PROJECT SITE. PAY ALL UTILITY CONNECTION FEES.

L. MOUNT ALL DEVICES PER ADA AND THE ARCHITECT. REVIEW ALL CASEWORK DRAWINGS PRIOR TO ROUGH IN.

M. GROUNDING AND GROUNDING DETAILS INDICATE PROJECT REQUIREMENTS THAT MAY EXCEED THE MINIMUM REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. ALL MINIMUM CODE REQUIRED GROUNDING CONNECTIONS MAY NOT BE SHOWN BUT ARE INCLUDED IN THE PROJECT SCOPE. PROVIDE ALL GROUNDING REQUIRED BY THE NEC, STATE STRUCTURAL SPECIALTY CODE, THE STATE ELECTRICAL AMENDMENTS, AND THE LOCAL AUTHORITIES. COORDINATE UFER GROUND INSPECTION PRIOR TO COVERING

N ENSURE ARCHITECT INSPECTS ELECTRICAL WORK PRIOR TO COVERAGE OR ENCASEMENT. ENSURE UTILITY REQUIRED WORK IS PERFORMED ON THE PROJECT SCHEDULE.

O U.O.N. 4 FOOT LAMPS ARE T8 3500K LOW MERCURY, SAME MANUFACTUER FOR ALL LAMPS,

P LENGTHS AND QUANTITIES SHOWN ON SCHEDULES ARE FOR CALCULATION AND COORDINATION PURPOSES, CONTRACTOR TO VERIFY ALL LENGTHS AND QUANTITIES.

Q THIS IS REMODEL - PRE BID SITE VISITS ARE REQUIRED WITH ALL QUESTIONS SUBMITTED IN WRITING DURING THE BIDDING PERIOD FOR CLARIFICATION.

R CEILING MOUNTED OCCUPANCY SENSORS ARE WATT STOPPER DT-200 SENSOR WITH B120E-P POWER POWER PACKS AND A STANDARD WALL SWITCH FOR "OFF OVERRIDE" WALL SWITCHES ARE WS-200 WATTSTOPPER. WALK TEST AND ADJUST SENSORS PRIOR TO FINAL PUNCH LIST.

S CABLE TRAY IS B-LINE BASKET SUSPENDED FROM STRUCTURE ON THREADED ROD. CARRY CONTINUOUS # 8 GROUND CONDUCTOR BONDED TO TRAY AT 10 FOOT CENTERS. BOND GROUND AT TELEPHONE BOARD TO SYSTEM GROUND.

T FLOOR BOXES: TYPE 1 IS NOMINAL 10"X10" HUBBELL HBLCFB301 CONCRETE POUR BASE WITH HBLTCGNTSW OR B WITH DUPLEX AND LAN/TELEPHONE FACE PLATES AND TERMINAL DEVICES (POWER-RJ45-RJ11). TYPE 2 IS NOMINAL 12"X6" 3SFBSS RGAN CONCRETE POUR BOX WITH 3SFBC COVER AND DUPLEX AND STYLE LINE FACE PLATES WITH STYLE LINE OUTLET FRAMES AND DEVICES. WHERE BOXES ARE SPECIFIED IN WOOD FLOORS PROVIDE STRUCTURAL FRAMING FOR SUPPORT OF BOX ~~HOUSING TO ARCHITECT SPECIFIED FLOOR LOADING.~~

U PROVIDE AND INSTALL NEW 48 PORT ORTRONICS PATCH PANEL TO MATCH EXISTING IN DATA CLOSET. DATA JACKS TO HAVE 3 DROPS PER LOCATION. HOME RUN DATA CABLES TO EXISTING DATA CLOSET. USE CAT 5E PLENUM CABLE FOR ALL RUNS. ALL DATA CABLES WILL BE TESTED TO INSURE COMPLIANCE WITH CAT 5E STANDARDS AND PROVIDE TEST REPORTS TO THE CITY. INSTALL CABLES IN ACCORDANCE TO N.E.C.

DRAWING INDEX

E1 ELECTRICAL COVER SHEET
E2 ELECTRICAL SITE PLAN
E2.1 ELECTRICAL BOILER ROOM DETAILS & ONE LINE
E3 ELECTRICAL POWER PLAN
E4 ELECTRICAL LIGHTING PLAN
E5 ELECTRICAL RISER DIAGRAM
E6 ELECTRICAL SCHEDULES
E7 ELECTRICAL BOILER ROOM DEMO
E8 ELECTRICAL BOILER ROOM SUB-FLOOR & FLOOR PLAN

CITY OF MEDFORD
ELECTRICAL PLAN REVIEW
APPROVED
APPROVAL OF SUBMITTED PLANS IS NOT APPROVAL OF OMISSIONS OR ERRORS. ALL CONSTRUCTION MUST COMPLY WITH STATE CODES AND CITY ORDINANCES. SEE NOTES, IF ANY.
PLANS CHECKED BY R.L. GROSS DATE 6/17/08

REGISTERED PROFESSIONAL ENGINEER OREGON — EXPIRES 6/30/09

JENNINGS RUFFING
ELECTRICAL ENGINEERING INC
712 East Jackson Street Medford Oregon 97501
(541) 772-5770 (541) 772-1928 fax
www.jreeng.com

REGISTERED PROFESSIONAL ENGINEER 17,283 — OREGON MAY 19, 1994 — WILLIAM JENNINGS RUFFING — RENEW DATE: 12-31-08

OgdenRoemerWilkerson Architecture AIA
COLLABORATIVE APPROACH · HONEST DESIGN
2950 east barnett road
medford oregon 97504
541 779.5237 t
541 772.8472 f
www.ORWarchitecture.com

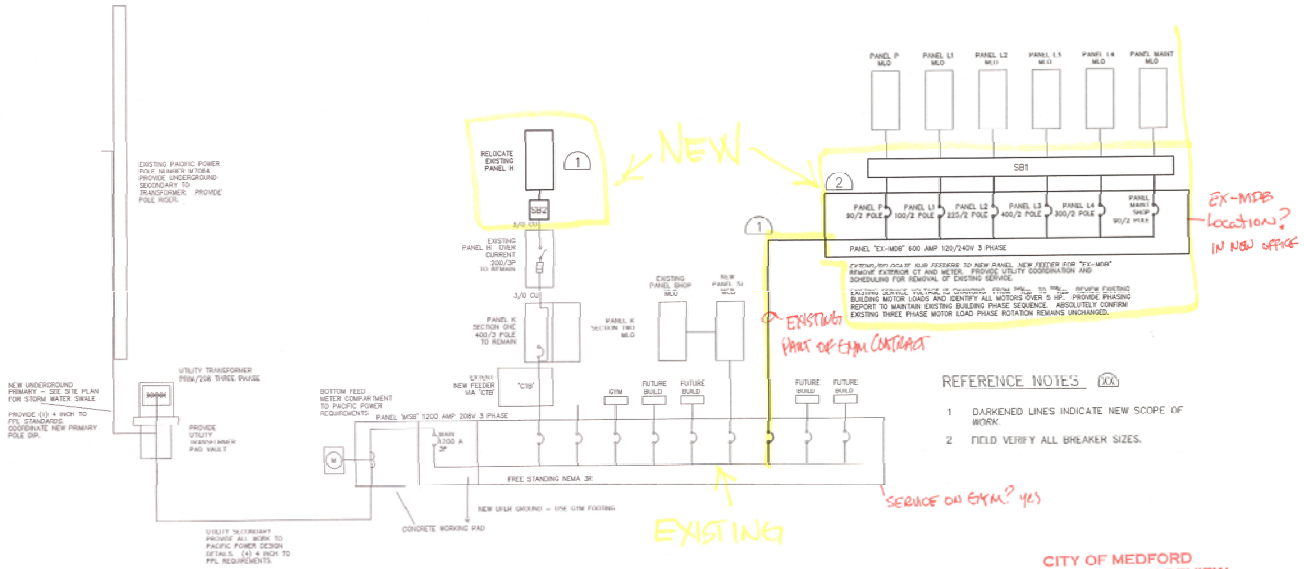
SANTO COMMUNITY CENTER PHASE 3
GYMNASIUM ADDITION
MEDFORD, OREGON

ELECTRICAL COVER SHEET

SCALE: NTS
05-12-08
06-051

E1

© 2005 Ogden Roemer Wilkerson Architecture. This document, and the ideas and designs incorporated herein, as an instrument of professional service, is the property of Ogden Roemer Wilkerson Architecture, and is not to be used, in whole or in part, for any other project without the written authorization of Ogden Roemer Wilkerson Architecture



REFERENCE NOTES (XX)

1 DARKENED LINES INDICATE NEW SCOPE OF WORK.

2 FIELD VERIFY ALL BREAKER SIZES.

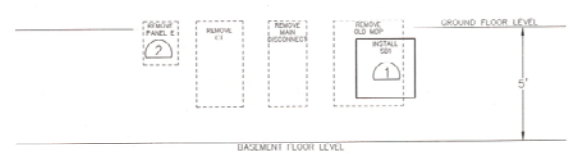
2 / E2.1 ELECTRICAL ONE LINE DIAGRAM
NO SCALE

CITY OF MEDFORD
ELECTRICAL PLAN REVIEW
APPROVED
APPROVAL OF SUBMITTED PLANS IS NOT APPROVAL OF OMISSIONS OR ERRORS. ALL CONSTRUCTION MUST COMPLY WITH STATE CODES AND CITY ORDINANCES, SEE NOTES, IF ANY.
PLANS CHECKED BY M. Gruss DATE 6/17/08

REFERENCE NOTES (XX)

1 EXTEND CIRCUITS TO NEW MDB.

2 MOVE CIRCUITS TO NEW PANEL H.



1 / E2.1 ELECTRICAL SUB-FLOOR ELEVATION DETAIL
NO SCALE

ORPAC ENGINEERING
A DIVISION OF PACIFIC ELECTRICAL CONTRACTORS
203 W. Barnett Road | PO Box 1436 | Medford, Oregon 97501
Tel 542 842 4291 | Fax 542 779 2072 | www.orpacengineering.com

SANTO COMMUNITY CENTER
PHASE 3 ADMINISTATOR REMODEL
MEDFORD, OREGON

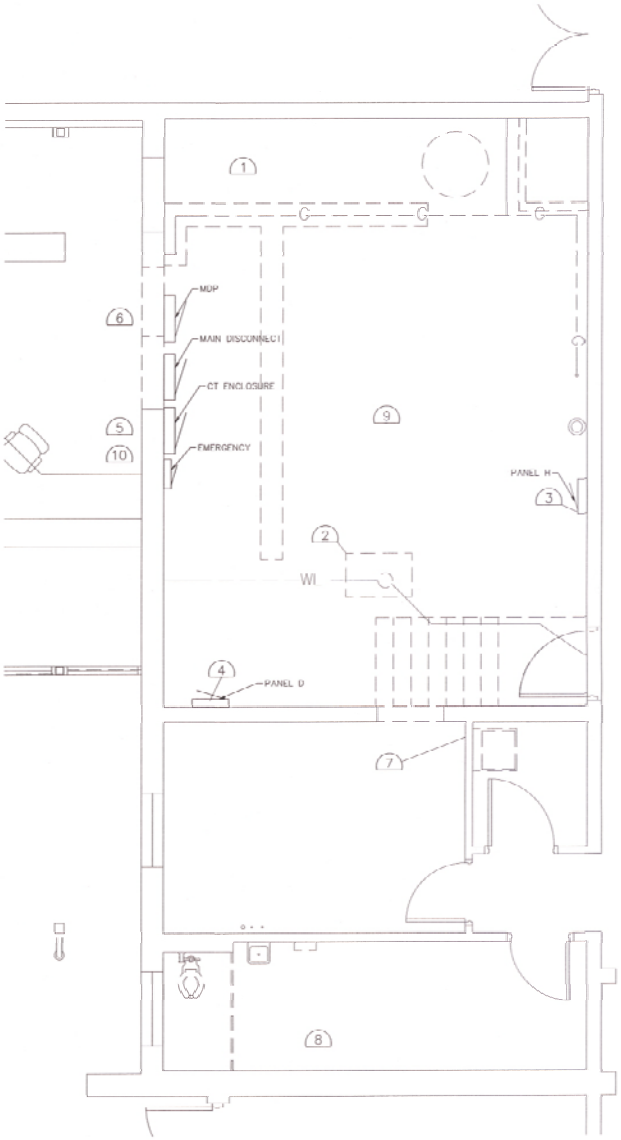
REGISTERED PROFESSIONAL ENGINEER
STEPHEN L. HILLS
OREGON
EXPIRES 6/30/09

REVISIONS	
X	DATE
X	DATE
X	DATE
X	DATE
DATE:	05-12-08
DRAWN:	APC
REVIEWED:	SLH
JOB NO.:	E-21211

DETAILS AND ONE-LINE

SHEET NUMBER
E2.1
OF X SHEETS

THIS DOCUMENT, IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF ORPAC ENGINEERING AND STEPHEN L. HILLS AND SHALL NOT BE USED, IN PART OR IN WHOLE FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION.



1 / F.3 DEMOLITION PLAN
3/8" = 1.0'

REFERENCE NOTES

1. REMOVE OLD CHILLER CONTROL AND ASSOCIATED CONDUIT AND WIRE.
2. REMOVE AND REPLACE EXISTING SUMP PUMP AND ASSOCIATED CONTROLS. REFEED NEW PUMP PUMP FROM RELOCATED PANEL H.
3. MOVE PANEL H FOR ACCESS FROM NEW FLOOR LEVEL AND CLOSER TO THE DOOR.
4. REFEED EXISTING RECEPTACLE AND SUMP PUMP CIRCUIT FROM PANEL H. REMOVE PANEL D.
5. REMOVE EXISTING CT ENCLOSURE AND MAIN DISCONNECT.
6. REMOVE EXISTING MDP AND REFEED SUB PANELS FROM NEW MDP.
7. REMOVE WIREMOLD.
8. NO ELECTRICAL WORK.
9. REMOVE EXISTING LIGHTING FIXTURES.
10. REMOVE EXISTING E PANEL. REFEED CIRCUITS FROM PANEL H.

CITY OF MEDFORD
ELECTRICAL PLAN REVIEW
APPROVED
APPROVAL OF SUBMITTED PLANS IS NOT APPROVAL OF OMISSIONS OR ERRORS. ALL CONSTRUCTION MUST COMPLY WITH STATE CODES AND CITY ORDINANCES. SEE NOTES, IF ANY.
PLANS CHECKED BY M. Erwin DATE 6/17/08

ORPAC ENGINEERING
A DIVISION OF PACIFIC ELECTRICAL CONTRACTORS
201 W. Elmett Road PO Box 1430 Medford, Oregon 97501
Tel 541 842 4191 Fax 541 779 3072 www.orpacengineering.com

SANTO COMMUNITY CENTER
PHASE 3 ADMINISTATOR REMODEL
MEDFORD, OREGON

EXPIRES 6/30/09

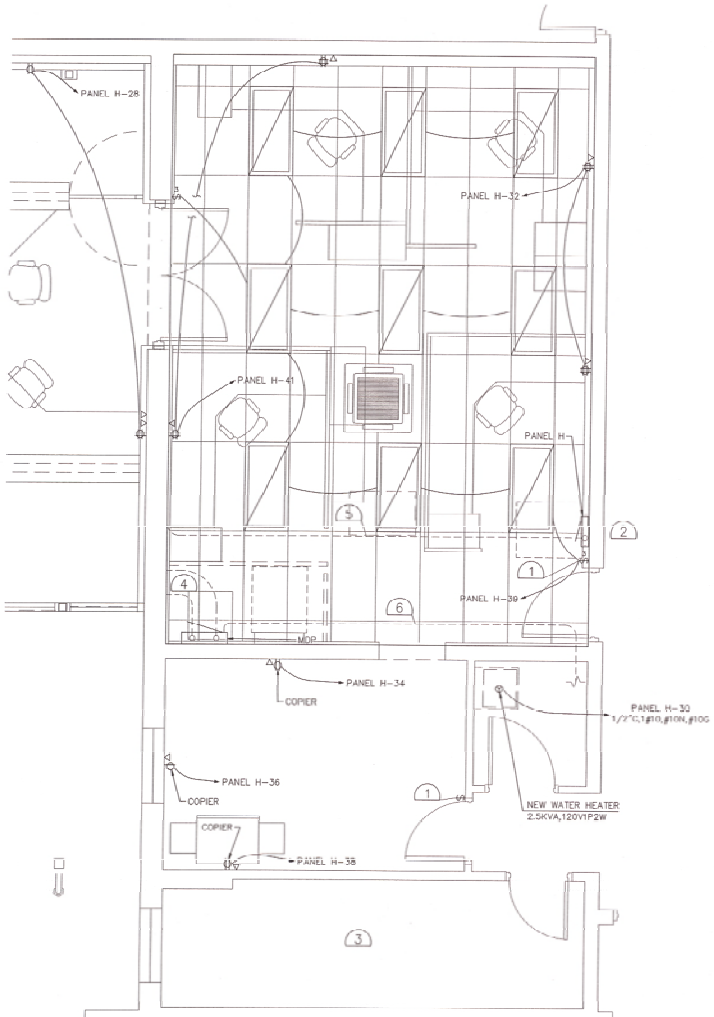
REVISIONS	
X	DATE
X	DATE
X	DATE
X	DATE
DATE:	05-12-08
DRAWN:	APC
REVIEWED:	SLH
JOB NO.:	E-21211

DEMOLISION PLAN

SHEET NUMBER
E7
OF X SHEETS

THIS DOCUMENT, IDEAS AND DESIGNS INCORPORATED HEREIN, AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF ORPAC ENGINEERING, AND STEPHEN L. HILLS, AND IS NOT TO BE USED IN PART OR IN WHOLE FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION.

THIS DOCUMENT, IDEAS AND DESIGNS INCORPORATED HEREIN AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF ORPAC ENGINEERING AND STEPHEN L. ELLIS, AND IS NOT TO BE USED IN PART OR IN WHOLE FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION



2 E8 FLOOR PLAN
3/8" = 1.0'

REFERENCE NOTES (XX)

1. REUSE EXISTING SWITCH LOCATION.
2. RELOCATE PANEL H. EXTEND CIRCUITS AS REQUIRED.
3. NO ELECTRICAL WORK.
4. NEW MDP TO BE FED FROM NEW SERVICE.
5. EXTEND CONDUIT TO PANEL H FOR REFEED OF EXISTING EXIT SIGNS IN OLD GYM.
6. REROUTE CONDUIT FROM EXISTING MDP TO NEW MDP.
7. SPLICE BOX FOR REFEED OF EXISTING PANELS.
8. SPLICE BOX FOR REFEED OF PANEL H CONDUIT.

Panel	ROOM	VOLTS 208Y/120V 3P 4W	AIC 22,000
PANEL H	MOUNTING FLUSH	BUS AMPS 200	MAIN BKR MLO
	FED FROM UTILITY	NEUTRAL 100%	LUGS STANDARD
	NOTE		

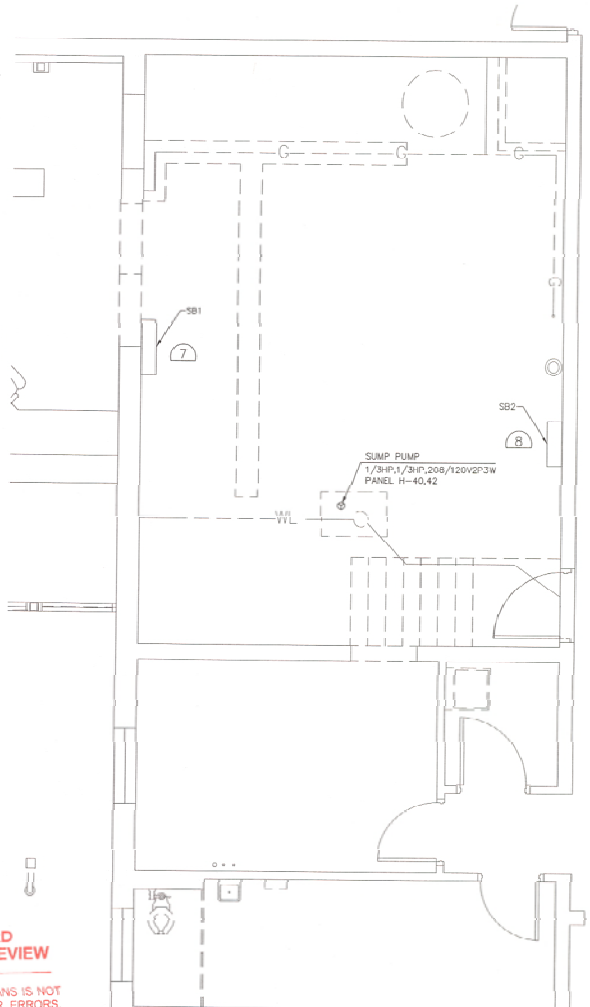
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	40/3	11.5	EX. UNIT 3	a	2	30/2	4.99	EX. UNIT 6
3	|			b	4	|		
5	|			c	6	30/3	8.63	EX. UNIT 1
7	40/3	11.5	EX. UNIT 4	a	8	|		
9	|			b	10	|		
11	|			c	12	30/2	1.99	EX. UNIT 2
13	30/2	4.99	EX. UNIT 5	a	14	|		
15	|			b	16	30/2	4.99	EX. PHONE ROOM
17	20/1	0.18	EX. GFCI ROOF	c	18	|		
19	20/1	0.18	EX. EXIT SIGNS FROM PANEL	a	20	20/1	0.18	EX. RECEPTACLE
21	20/1	0	SPACE	b	22	20/1	0.18	EX. RECEPTACLE
23	20/1	0	SPACE	c	24	30/2	4.99	EX. WATER HEATER
25	20/1	0	SPACE	a	26	|		
27	20/1	0	SPACE	b	28	20/1	0.36	RECEPTACLE
29	20/1	0	SPACE	c	30	30/1	2.5	NEW WATER HEATER
31	20/1	0	SPACE	a	32	20/1	0.36	RECEPTACLE
33	20/1	0	SPACE	b	34	20/1	0.18	RECEPTACLE
35	20/1	0	SPACE	c	36	20/1	0.18	RECEPTACLE
37	20/1	0	SPACE	a	38	20/1	0.18	RECEPTACLE
39	20/1	0.558	LIGHTING	b	40	20/2	1.73	SUMP PUMP
41	20/1	0.36	RECEPTACLE	c	42	|		

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	0.738	0.923	(125%)	CONTINUOUS	4.99	6.24	(125%)
LARGEST MOTOR	11.5	14.4	(125%)	HEATING	7.49	7.49	(100%)
OTHER MOTORS	36.8	36.8	(100%)	NONCONTINUOUS	0	0	(100%)
RECEPTACLES	2.16	2.16	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	63.7	68	
				BALANCED THREE PHASE AMPS		189	

PHASE BALANCE PERCENT: PHASE A 101% PHASE B 95% PHASE C 104%

3 E8 PANEL H SCHEDULE
N/A

CITY OF MEDFORD
ELECTRICAL PLAN REVIEW
APPROVED
APPROVAL OF SUBMITTED PLANS IS NOT APPROVAL OF OMISSIONS OR ERRORS. ALL CONSTRUCTION MUST COMPLY WITH STATE CODES AND CITY ORDINANCES. SEE NOTES, IF ANY.
PLANS CHECKED BY M. Graves DATE 6/16/08



1 E8 SUB-FLOOR PLAN
3/8" = 1.0'

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTES	QUANTITY
A		(2) 32W T8	LITHONIA AVANTE	ELECTRONIC	CEILING	2AV G 2 32 MDR MVOLT GEB10IS	62	120V 1P 2W		9

4 E8 LIGHTING SCHEDULE
N/A

ORPAC ENGINEERING
A DIVISION OF PACIFIC ELECTRICAL CONTRACTORS
201 W Barnett Road · PO Box 1530 · Medford, Oregon 97501
Tel 541 842 3191 · Fax 541 779 2972 · www.orpacengineering.com

SANTO COMMUNITY CENTER
PHASE 3 ADMINISTATOR REMODEL
MEDFORD, OREGON

EXPIRES 6/30/09

REVISIONS	
1	DATE
2	DATE
3	DATE
4	DATE

DATE:	05-12 08
DRAWN:	APC
REVIEWED:	SLH
JOB NO.:	E-21211

ELECTRICAL FLOOR PLAN

SHEET NUMBER
E8
OF X SHEETS

DUCT & FITTING SYMBOLS

DOUBLE LINE	SINGLE LINE	DESCRIPTION
SA		SUPPLY AIR
RA		RETURN AIR
OSA		OUTSIDE AIR
EA		EXHAUST AIR
ERA		ECONOMIZER RELIEF AIR
12x12 SA / RA	12x12	RECTANGULAR DUCT SIZE FIRST NUMBER INDICATES VISIBLE DIMENSION AND SECOND NUMBER INDICATES HIDDEN DIMENSION. ALL DIMENSIONS ARE INCHES. SA IS SUPPLY AIR DUCT. RA IS RETURN AIR DUCT.
12~	12~	ROUND DUCT DIAMETER
48x18~	48x18~	FLAT OVAL DUCT
		SUPPLY DUCT UP OR SECTION
		SUPPLY DUCT DOWN OR SECTION AWAY
		RETURN OR OSA DUCT UP OR SECTION
		RETURN OR OSA DUCT DOWN OR SECTION
		EXHAUST DUCT UP OR SECTION
		EXHAUST DUCT DOWN OR SECTION
		TRANSITION
SQR RND		SQUARE TO ROUND TRANSITION
		FLANGED TAKEOFF (RECTANGULAR DUCT)
		LATERAL HIGH EFFICIENCY TAKE-OFF FITTING W / VD (SQR TO RND TAKEOFF FROM RECTANGULAR MAIN)
		CONICAL SPIN-IN FITTING WITH VOLUME DAMPER (ROUND BRANCH TAKEOFF FROM RECTANGULAR MAIN)
		STRAIGHT SPIN-IN FITTING WITH VOLUME DAMPER (ROUND BRANCH TAKEOFF FROM RECTANGULAR MAIN)
		CONICAL TAKE-OFF (ROUND / OVAL DUCT)
		45° LATERAL TAKEOFF (ROUND / OVAL DUCT)
R		DUCT SLOPE UP (RISE)
D		DUCT SLOPE DOWN (DROP)
		END CAP
		RECTANGULAR MITERED ELBOW W/ TURNING VANES
		RECTANGULAR TEE - 90° MITERED ELBOWS W/ TURNING VANES
R, D or W	R	90° OR 45° LONG RADIUS ELBOW, R=1.5 DIA OR WIDTH (ROUND OR RECTANGULAR DUCT)
		WYE

HVAC SYMBOLS & ABBREVIATIONS

- DUCT WITH INTERNAL ACOUSTICAL INSULATION
- ACCESS DOOR
- VOLUME DAMPER
- FD — COMBINATION FIRE / SMOKE DAMPER
- FD — VERTICAL FIRE DAMPER
- FD — VERTICAL FIRE DAMPER
- MOTORIZED DAMPER
- BD — BACKDRAFT DAMPER
- OPPOSED BLADE DAMPER
- PARALLEL BLADE DAMPER
- FLEXIBLE DUCT CONNECTION
- FLEXIBLE DUCT
- DIRECTION OF AIRFLOW
- XXX — SUPPLY DIFFUSER (XXX = SUPPLY AIR CFM)
- RETURN GRILLE
- EXHAUST GRILLE
- PRESSURE RELIEF GRILLE
- WALL OR DUCT REGISTER OR GRILLE
- or — LINEAR DIFFUSER
- ZONE CONTROL DAMPER
- FILTER
- TEMPERATURE GAUGE
- PRESSURE GAUGE
- XX — OUTLET / INLET TAG
- XXX — AIRFLOW, CFM
- (F) — PREFIX (F) INDICATES A FIRE RATED GRILLE, REGISTER, OR DIFFUSER
- H — HUMIDISTAT OR HUMIDITY SENSOR
- T — THERMOSTAT OR TEMP SENSOR
- D — DUCT SMOKE DETECTOR
- SD — SMOKE DETECTOR
- SP — STATIC PRESSURE SENSOR
- CO2 — CARBON DIOXIDE SENSOR
- ES — EMERGENCY SWITCH

GENERAL SYMBOLS

- C — CAP FOR FUTURE
- POINT OF NEW CONNECTION
- X — REVISION NUMBER
- XX — POINT OF CONTINUATION
- XX / XX — EQUIPMENT TAG / EQUIPMENT NUMBER
- XX / XX — SECTION (LETTER) OR DETAIL (NUMERICAL) DESIGNATION / SHEET NUMBER
- X / XX — SECTION DESIGNATION / SHEET NUMBER
- GENERAL BREAK
- LINE BREAK
- ON DEMOLITION PLANS, INDICATES ITEMS TO BE REMOVED
- A — DUCTWORK FITTING TYPE SEE HIGH PRESSURE FABRICATED FITTING CONSTRUCTION DETAILS
- X — KEYED NOTES
- E — EXISTING

PIPE SYMBOLS

- G — NATURAL GAS PIPING
- CD — CONDENSATE DRAIN PIPING
- 3/4" PEX TUBING
- DIRECTION OF FLOW
- CHANGE IN SIZE
- PIPE UNION
- GATE VALVE
- BALL VALVE
- PRESSURE GAUGE
- TEMPERATURE GAUGE GAUGE
- PRESSURE REDUCING VALVE
- PRESSURE & TEMPERATURE (P&T) GAUGE PORT.
- CONTROL VALVE
- CIRCUIT SETTER BALANCING VALVE

HVAC ABBREVIATIONS

ACFM	ACTUAL AIR - CUBIC FEET PER MINUTE
ACH	AIR CHANGES PER HOUR
AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AP	ACCESS DOOR
ARCH	ARCHITECT OR ARCHITECTURAL
ATD	AIR TRANSFER DUCT
BD	BACKDRAFT DAMPER
BLDG	BUILDING
BM	BEAM
BO	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
CDV	CLOTHES DRYER VENT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONSTR	CONSTRUCTION
CV	CONSTRAINT VOLUME
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DX	DIRECT EXPANSION (REFRIGERATION)
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
ERA	ECONOMIZER RELIEF AIR
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F	FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FLA	FULL LOAD AMPS
FLR	FLOOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE / SMOKE DAMPER
GALV	GALVANIZED STEEL
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GRD	GRILLES, REGISTERS, DIFFUSERS
H	HUMIDISTAT
HEPA	HIGH EFFICIENCY PARTICULATE AIR
HP	MOTOR HORSEPOWER
HVAC	HEATING, VENTING, AND CONDITIONING
HPW	HEAT PUMP WATER
HPWR	HEAT PUMP WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
LB(S)	POUND, POUNDS
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT CAPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OA or OSA	OUTSIDE AIR
OMSC	2004 OREGON MECHANICAL SPECIALITY CODE
OSSC	2004 OREGON STRUCTURAL SPECIALITY CODE
PBD	PARALLEL BLADE DAMPER
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE / TEMPERATURE PLUG
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RECT	RECTANGULAR
RPM	REVOLUTIONS PER MINUTE
REQ'D	REQUIRED
SA	SUPPLY AIR
SCFM	STANDARD AIR - CUBIC FEET PER MINUTE
SEC	SECTION
SF or SQ FT	SQUARE FEET
SIM	SIMILAR
SM	SHEET METAL
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
SPEC	SPECIFICATION OR SPECIFIED
SS	STAINLESS STEEL
STD	STANDARD
T	THERMOSTAT
TC	TEMPERATURE CONTROLS
TEMP	TEMPERATURE
TOS	TOP OF STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB
W/	WITH
WG	WATER GAUGE

NOTE: ABBREVIATIONS AND SYMBOLS ARE WEHAGE ENGINEERING STANDARDIZED SYMBOL LEGENDS. AS SUCH, ALL SYMBOLS SHOWN MAY NOT APPEAR ON OR WITHIN THIS SET OF CONTRACT DOCUMENTS.

GENERAL NOTES

1. CONTRACTOR TO SECURE, MAINTAIN, AND PAY FOR ALL REQUIRED LICENSES AND INSPECTIONS FOR DURATION OF WORK UNLESS DIRECTED OTHERWISE.
2. ALL DUCTWORK SHALL BE GALVANIZED STEEL, ROUND OR RECTANGULAR. SUPPORT PER SMACNA DUCT CONSTRUCTION STANDARDS AND INSTALL IN CONFORMANCE TO MECHANICAL CODES. SUPPLY AIR DUCTS SHALL BE CONSTRUCTED TO +2" PRESSURE STANDARD. RETURN AIR DUCTS SHALL BE CONSTRUCTED TO -1" PRESSURE STANDARD. SEAL ALL DUCTS TO CLASS "B" STANDARDS.
3. PROVIDE TURNING VANES FOR ALL SUPPLY AIR AND RETURN AIR RECTANGULAR ELBOWS.
4. FLEXIBLE DUCTS SHALL BE INSULATED NONMETALLIC, FORM "NM-1L". MAXIMUM LENGTH OF 5'-0" AT DIFFUSER OR GRILLE CONNECTION. BUTTERFLY BALANCING OR DAMPERS WHERE SHOWN OR REQUIRED. ROUND OR RECTANGULAR, GALVANIZED SHEET METAL, WITH EXTERNAL INDICATING QUADRANT AND SETSCREW.
5. SHEET METAL DUCT SIZES SHOWN ARE NET CLEAR INSIDE DIMENSIONS. WHEN INTERNAL INSULATION IS REQUIRED, DUCT SIZE SHALL BE INCREASED TO PROVIDE NET CLEAR DIMENSIONS INDICATED.
6. MECHANICALLY FASTEN CONNECTIONS BETWEEN METAL DUCTS AND THE INNER CORE OF FLEXIBLE DUCTS. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES IN ACCORDANCE WITH UL 181A OR UL 181B.
7. ALL SUPPLY AIR DUCTS IN UNCONDITIONED SPACES AND PLENUMS (ABOVE CEILINGS, WITHIN CHASES, SHAFTS, OR MECHANICAL ROOMS) AND WITHIN THE BUILDING ENVELOPE SHALL BE INSULATED WITH 1-1/2" THICK, 3/4 LB. DENSITY FIBERGLASS DUCT WRAP FACED WITH OUTER FOIL BLANKET, OR LINED WITH 1" THICK , COATED FIBERGLASS INSULATION, MINIMUM INSTALLED R-VALUE OF 3.5.
8. ALL EXHAUST AIR DUCTWORK SHALL BE INSULATED FROM THE AIR OUTLET TO 3 FEET IN WITH 1-1/2" THICK, 3/4 LB. DENSITY, FIBERGLASS DUCT WRAP FACED WITH OUTER FOIL BLANKET, MINIMUM INSTALLED R-VALUE 3.5.
9. EXPOSED SUPPLY AND RETURN AIR DUCTWORK WITHIN CONDITIONED SPACES NEED NOT BE INSULATED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL INSTALL EXPOSED DUCTWORK IN A NEAT AND CLEAN MANNER AND UTILIZE SPIRAL DUCTWORK WHERE POSSIBLE.
10. MOTORIZED OUTDOOR AIR AND EXHAUST AIR DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 4 CFM / SF AT 1.0" W.C. EXCEPT FOR FACTORY BUILT PACKAGED STSTEMS, WHICH MAY HAVE A LEAKAGE NOT TO EXCEED 20 CFM / SF AT 1.0" W.C.
11. TEST THE OPERATION OF MECHANICAL SYSTEMS AND EQUIPMENT FOR COMPLIANCE WITH CONTRACT CONDITIONS. MEASURE AIR QUANTITIES WITH CALIBRATED DEVICES CAPABLE OF MEASURING AIR QUANTITIES ON A CONTINUOUS BASIS AND DISPLAYING THAT QUANTITY ON A READILY ACCESSIBLE DISPLAY DEVICE. ADJUST ALL DAMPERS, DRIVES, MOTORS, AND OTHER ADJUSTABLE ITEMS TO DELIVER DESIGN QUANTITIES IN ACCORDANCE WITH NEBB PROCEDURAL STANDARDS (1983) OR AABC NATIONAL STANDARDS (1989). PROVIDE ALL NECESSARY BELTS, SHEAVES, ETC. PROVIDE BALANCE REPORT TO OWNER AND ENGINEER.
12. CONTRACTOR SHALL SUPPLY ALL REQUIRED STARTERS. DISCONNECTS AND POWER WIRING BY ELECTRICAL CONTRACTOR.
13. ALL HEATING AND COOLING EQUIPMENT SHALL BE CONTROLLED FROM 1 THERMOSTAT FOR EACH SYSTEM LOCATED WITHIN THE CONTROLLED SPACE.
14. ZONE THERMOSTATS SHALL BE CAPABLE OF BEING SET TO THE TEMPERATURES DESCRIBED IN SEC. 1317.4.2.1 OF THE 2004 OREGON STRUCTURAL SPECIALTY CODE ZONE CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE, OR DEADBAND, OF AT LEAST 5 DEGREES F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM.
15. EACH SYSTEM SHALL BE EQUIPPED WITH AUTOMATIC CONTROL CAPABLE OF REDUCING ENERGY THROUGH CONTROL SETBACK DURING PERIODS OF NON-USE.
16. WHEN A FIRE ALARM SYSTEM IS PROVIDED THE DUCT SMOKE DETECTORS SHALL BE CONNECTED TO THE BUILDING'S FIRE ALARM CONTROL PANEL. IN OCCUPANCIES NOT REQUIRED TO BE EQUIPPED WITH A FIRE ALARM SYSTEM, ACTUATION OF A SMOKE DETECTOR SHALL ACTIVATE A VISIBLE AND AN AUDIBLE SIGNAL IN AN APPROVED LOCATION. SMOKE DETECTOR TROUBLE CONDITIONS SHALL ACTIVATE A VISIBLE OR AUDIBLE SIGNAL IN AN APPROVED LOCATION AND SHALL BE IDENTIFIED AS AIR DETECTOR TROUBLE.

SHEET LEGEND

- M.1 MECHANICAL - HVAC SYMBOLS AND ABBREVIATIONS
- M.2 MECHANICAL - HVAC GYMNASIUM FLOOR PLAN
- M.3 MECHANICAL - HVAC LOBBY FLOOR PLAN, ROOF PLAN AND DETAILS
- M.4 MECHANICAL - HVAC DETAILS AND SCHEDULES
- M.5 MECHANICAL - HVAC BUILDING SECTION AND DETAILS
- M.6 MECHANICAL - DRILL HALL HVAC DEMOLITION PLAN
- M.7 MECHANICAL - BOILER ROOM PLAN

1 — 07-25-07 DRILL HALL REVISION
2 — 05-13-08 BOILER ROOM REVISION

REGISTERED PROFESSIONAL ENGINEER 75561 OREGON JOHN M. KELLER
EXPIRES: 06/30/09

WEHAGE ENGINEERING INC.
CONSULTING MECHANICAL ENGINEER
541-842-4188 FAX: 541-842-4189
1174 PROGRESS DR. MEDFORD, OR

ORW OgdenRoemerWilkerson Architecture AIA
COLLABORATIVE APPROACH · HONEST DESIGN

SANTO COMMUNITY CENTER PHASE 3
GYMNASIUM ADDITION
MEDFORD, OREGON

MECHANICAL HVAC SYMBOLS & ABBREVIATIONS

SCALE: NONE
DATE: 06-21-07

M-0698-HVAC

M.1

DUCT-LESS SPLIT SYSTEM SCHEDULE

TAG	TYPE	BTU	ELECTRICAL				SEER	HSPF	MANUFACTURER	MODEL	NOTES
			VOLTS	PHASE	MCA	MOCP					
FC-1	CEILING CASSETTE	18,000	208/230	1	1	20	13.2	7.8	MITSUBISHI	PLA-A18AA	1,2
HP-1	HEAT PUMP	18,000	208/230	1	13				MITSUBISHI	PUZ-A18NHA	

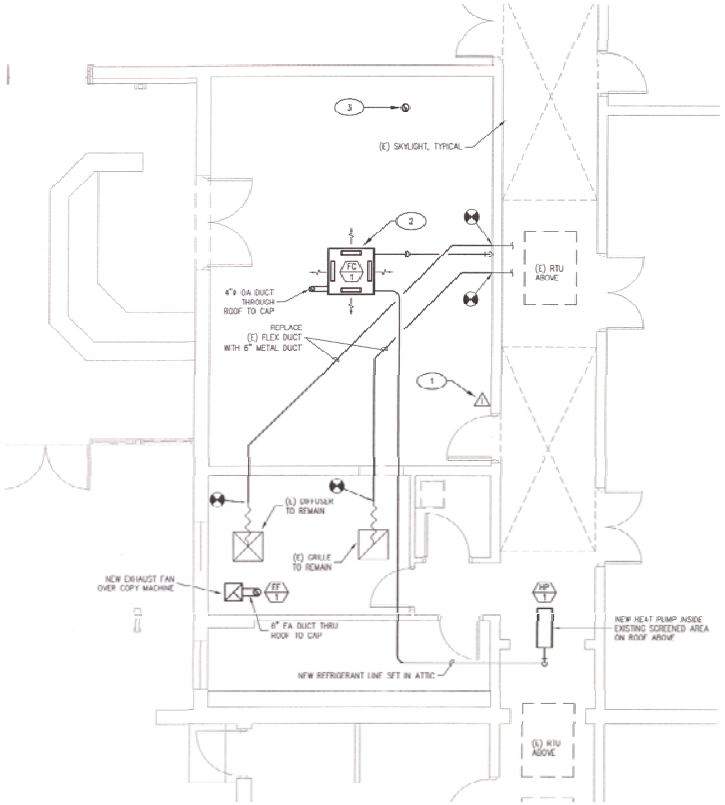
NOTES:
1. PROVIDE WITH 24V, WALL MOUNT THERMOSTAT.
2. INSTALL 4" RND OUTSIDE AIR DUCT FROM FC-1 THROUGH ROOF TO CAP.

FAN SCHEDULE

TAG	SERVICE	TYPE	CFM	ESP	ELECTRICAL			MANUFACTURER	MODEL	NOTES
					VOLTS	PHASE	HP / WATTS			
EF-1	COPY ROOM EXHAUST	CEILING MNT	100	0.25	120	1	129 W	GREENHECK	SP-B150	1-5

NOTES:
1. PROVIDE WITH UNIT MOUNTED SOLID STATE SPEED CONTROL.
2. CONTROL WITH WALL MOUNTED ON-OFF SWITCH.
3. PROVIDE WITH ROOF CAP.
4. PROVIDE WITH ALUMINUM BACKDRAFT DAMPER.
5. ALUMINUM DUCT FROM FAN UP TO ROOF CAP. INSULATE DUCT.

WE WEHAGE ENGINEERING, INC.
CONSULTING MECHANICAL ENGINEERS
1236 DESK DRIVE, SUITE 1 - MEDFORD, OREGON 97501
PHONE: 541-842-4188 FAX: 541-842-4189



NORTH
MECHANICAL PLAN
1/4" = 1'-0"

GENERAL NOTES

A. SEE EXISTING SHEETS FOR THE SANTO CENTER PHASE 3 GYMNASIUM ADDITION FOR MATERIALS AND SPECIFICATIONS.
B. VERIFY LOCATION OF FC-1 WITH ARCHITECTURAL REFLECTED CEILING PLAN.
C. REMOVE EXISTING FLEXIBLE SUPPLY AND RETURN DUCTS SERVING COPY ROOM AND REPLACE WITH 6"ø METAL DUCTS. 5 FEET (MAXIMUM) OF FLEX DUCT CAN BE LEFT AT DIFFUSER/GRILLE CONNECTIONS AND AT CONNECTION TO (E) RTU IF MAIN DUCTS FROM RTU ARE INACCESSIBLE ABOVE THE CORRIDOR CEILING.
D. INSULATE DUCTWORK AND REFRIGERANT PIPING IN ACCORDANCE WITH CHAPTER 13 OF THE OSSC.
E. COORDINATE PENETRATIONS OF STANDING SEAM METAL ROOF WITH GC.

KEYED NOTES

1. FIELD VERIFY LOCATION OF THERMOSTAT WITH ARCHITECT AND OWNER.
2. NEW CEILING CASSETTE FAN COIL WITH OUTSIDE AIR DUCT TO ROOF CAP. ROUTE 1-1/4" CONDENSATE DRAIN PIPING OVER TO NEW FURRED OUT WALL, DROP TO CRAWLSPACE, AND EXTEND TO SUMP.
3. CAP AND SEAL (E) WATER HEATER VENT JUST BELOW ROOF. FIELD VERIFY SIZE AND LOCATION.

OUTSIDE AIR SCHEDULE

SYSTEM	ROOM NAME / TYPE	GROSS AREA, S.F.	NET OCCUPIED AREA, S.F. (1)	PEOPLE PER 1,000 S.F. (2)	MAXIMUM NUMBER OCCUPANTS	EXPECTED AVG NUMBER OCCUPANTS (3)	REQUIRED OUTDOOR AIR, CFM PER OCCUPANT (2)	CFM PER S.F. (2)	EXHAUST AIR, CFM	CALCULATED OUTDOOR AIR, CFM	DESIGN SUPPLY AIR, CFM
FC-1	OPEN OFFICE	490	490	7	3	2	20	-	-	40	640
		490	490				ROOM TOTALS:		-	40	640

SYSTEM MINIMUM OUTSIDE AIR (4): 40

NOTES: (1) OMSC SECTION 403.3
(2) OMSC TABLE 403.3
(3) IN ACCORDANCE WITH OMSC 402.3
(4) PER EQUATION 4-1, OMSC 403.3.2, OR THE MINIMUM AIR NECESSARY TO MAKE-UP FOR SYSTEM EXHAUST.

REGISTERED PROFESSIONAL ENGINEER OREGON JOHN W. KELLER
EXPIRES: 06/30/09

OgdenRoemerWilkerson Architecture AIA
2950 east barnett road
medford oregon 97504
541 779.5231
541 779.2281 fax
www.ORWarchitecture.com

SANTO COMMUNITY CENTER PHASE 3
ADMINISTRATOR REMODEL
MEDFORD, OREGON

MECHANICAL PLAN

SCALE: 1/4"=1'-0"
12 MAY 2008

M.7

© 2007 Ogden Roemer Wilkerson Architecture. This document, and the ideas and designs incorporated herein, as an instrument of professional service, is the property of Ogden Roemer Wilkerson Architecture and is not to be used, in whole or in part, for any other project without the written authorization of Ogden Roemer Wilkerson Architecture.