SHELBY COUNTY SHERIFF'S OFFICE

SHERIFF BILL OLDHAM

RANGE OPERATIONS BUILDING

AND FIRING RANGE

800 DOVECREST, MEMPHIS, TENNESSEE

BUILDING CODE DATA

JURISDICTION:

MEMPHIS & SHELBY CODE ENFORCEMENT

APPLICABLE CODES:

MEMPHIS AND SHELBY COUNTY OFFICE OF CONSTRUCTIO CODE ENFORCEMENT

2003 EDITION OF INTERNATIONAL BUILDING CODE with LOCAL AMENDMENTS
2003 EDITION OF INTERNATIONAL EXISTING BUILDING CODE OR Ch. 34 IBC
2002 EDITION OF NATIONAL ELECTRIC CODE
2003 JOINT ELECTRICAL CODE
2003 INTERNATIONAL GAS CODE with LOCAL AMENDMENTS
2003 INTERNATIONAL MECHANICAL CODE
2003 INTERNATIONAL PLUMBING CODE with LOCAL AMENDMENTS
2004 ANSI/ASME ELEVATOR CODE - A17.1
1998 ICC/ANSI Handicap Accessibility Code in conjunction wit CH.11 of 2003 IBC
1992 CABO MODEL ENERGY CODE

PROJECT DATA:

OCCUPANCY CLASSIFICATION: GROUP B - BUSINESS
GROUP S-2 OPEN STORAGE BELOW BUILDING
OCCUPANCY SEPARATION: 2 HOURS
BUILDING HEIGHT IN FEET ABOVE GRADE:
BUILDING HEIGHT IN STORIES: ONE
BUILDING AREA: 8,266 SQUARE FEET
TYPE OF CONSTRUCTION: TYPE IIB
ALLOWABLE BUILDING AREA: 23,000 SQUARE FEET (WITHOUT AREA INCREASE)
ALLOWABLE BUILDING HEIGHT IN STORIES: FOUR
OCCUPANT LOAD: 83
REQUIRED EXIT WIDTH: 44 INCHES
SPRINKLER SYSTEM: NOT REQUIRED
FIRE/SMOKE ALARM SYSTEM: YES

STRUCTURAL DESIGN CRITERIA

2003 INTERNATIONAL BUILDING CODE

LIVE LOADS (Reduced as allowed by Code)
ROOF = 20 PSF
FLOOR: OFFICE = 50PSF, CORRIDOR = 80 PSF, LOBBY = 100 PSF

DEAD LOADS
ROOF = 15 PSF
FLOOR = 62 PSF + 20 PSF PARTITION

SNOW LOADS
GROUND SNOW LOAD: Pg = 10 PSF

WIND LOADS:
BASIC WIND SPEED (3 SECOND GUST) = 90 MPH
WIND IMPORTANCE FACTOR = 1.0
WIND EXPOSURE = B
INTERNAL PRESSURE COEFFICIENT = +0.18/-0.18
COMPONENTS AND CLADDING PRESSURE: = 12.3 PSF

SEISMIC LOADS:
OCCUPANCY CATEGORY : II
SPECIAL RESPONSE COEFFICIENTS: Sds=0.799, Sd1 = 0.376
SOIL SITE CLASS: D
SEISMIC DESIGN CATEGORY: D
RESPONSE MODIFICATION FACTOR: R=7.0
DEFLECTION AMPLIFICATION FACTOR: Cd = 5.5
SYSTEM OVERSIGHT FACTOR: 2.5
SEISMIC FORCE RESISTING SYSTEM DUAL SYSTEM: SPECIAL MOMENT FRAMES
SPECIALLY REINFORCED CONCRETE SHEAR WALLS
DESIGN BASE SHEAR: V= CsW ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

OWNER:
SHELBY COUNTY GOVERNMENT
MARK H. LUTTRELL, JR. MAYOR
160 N. MAIN, SUITE 550
MEMPHIS, TN. 38103

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CONSULTANTS

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PHONE: 901-820-0820

FIRING RANGE CONSULTANT
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8808 ARLINGTON EXPRESSWAY
JACKSONVILLE, FLORIDA 32211
PHONE: 904-722-2294

AUGUST 28, 2012

INDEX OF DRAWINGS:

COVER / INDEX

C0.01 EXISTING CONDITIONS PLAN
C0.02 DEMOLITION PLAN
C0.03 DEMOLITION PLAN
C0.04 ACCESS PLAN
C1.01 LAYOUT PLAN
C1.02 LAYOUT PLAN
C1.03 LAYOUT PLAN - ALTERNATE NO. 1
C2.01 GRADING AND DRAINAGE PLAN
C2.02 GRADING AND DRAINAGE PLAN
C2.03 GRADING AND DRAINAGE PLAN
C2.04 STORM DRAINAGE DATA & DETAILS
C3.01 EROSION CONTROL PLAN - PHASE 1
C3.02 EROSION CONTROL PLAN - PHASE 2
C3.03 EROSION CONTROL PLAN - PHASE 3
C3.04 EROSION CONTROL NOTES AND DETAILS
C4.01 SITE UTILITY PLAN
C4.02 SITE UTILITY PLAN
C5.01 SITE DETAILS
C5.02 SITE DETAILS
C5.03 SITE DETAILS
C5.04 SITE DETAILS

D.01 DEMOLITION PLAN
FR01 LOCATION SITE PLAN
FR02 GRADING PLAN
FR03 50 YARD, 50 POSITION RANGE PLAN
FR04 TYPICAL SECTIONS
FR05 LONGITUDIONAL AND TRANSVERSE SECTIONS
FR06 DETAILS
FR50 SIGNAGE NOTES AND DETAILS
FR51 SIGNAGE PLAN

A-1 LOWER FLOOR PLAN
A-2 MAIN FLOOR PLAN
A-3 ROOF PLAN
A-4 BUILDING ELEVATIONS
A-5 BUILDING ELEVATIONS
A-6 BUILDING SECTIONS
A-7 WALL SECTIONS
A-8 WALL SECTIONS
A-9 WALL SECTIONS
A-10 DOOR AND WINDOW SCHEDULE AND DETAILS
A-11 ENLARGED PLANS AND INTERIOR ELEVATIONS
A-12 REFLECTED CEILING PLAN
A-13 STAIR DETAILS
A-14 STAIR DETAILS
A-15 CLASSROOM BUILDING
A-16 RANGE TOWER

S1.0 GENERAL NOTES
S1.1 DETAILS AND SCHEDULES
S1.2 RETAINING WALLS
S1.3 TYPICAL DETAILS
S1.4 MOMENT FRAME DETAILS
S2.0 STORAGE AREA
S2.1 SECOND FLOOR FRAMING PLAN
S2.3 ROOF FRAMING PLAN
S3.1 SECTIONS
S3.2 FLOOR SECTIONS
S3.3 SECTIONS
S3.4 ROOF SECTIONS
S4.0 ENLARGED PLANS
S4.1 FIRING RANGE WALLS
S5.1 RELOCATED PEMB BUILDING LAYOUT
S5.2 FIRING RANGE CONTROL TOWER
S7.0 3D VIEW (FOR REFERENCE ONLY)

M0.1 LEGEND & NOTES - MECHANICAL
M1.1 FLOOR PLAN BELOW - MECHANICAL
M1.2 FLOOR PLAN ABOVE - MECHANICAL
M2.1 DETAILS - MECHANICAL
M2.2 DETAILS - MECHANICAL
M2.3 DETAILS - MECHANICAL
M2.4 DETAILS - MECHANICAL
M3.1 SCHEDULES - MECHANICAL

P0.1 LEGENDS, SCHEDULES, AND NOTES - PLUMBING
P1.0 FLOOR PLAN BELOW GRADE - PLUMBING
P1.1 FLOOR PLAN BELOW FLOOR - PLUMBING
P1.2 FLOOR PLAN ABOVE FLOOR - PLUMBING
P2.1 RISER DIAGRAMS - PLUMBING
P3.1 DETAILS - PLUMBING
P3.2 DETAILS - PLUMBING
P3.3 DETAILS - PLUMBING
P3.4 DETAILS - PLUMBING

E0.1 LEGEND AND FIXTURE SCHEDULE - ELECTRICAL
E0.2 SINGLE LINE DIAGRAM AND DETAILS - ELECTRICAL
E0.3 DETAILS - ELECTRICAL
E0.4 PANEL SCHEDULES - ELECTRICAL
E1.1 SITE PLAN - DEMOLITION - ELECTRICAL
E1.2 SITE PLAN - ELECTRICAL
E2.1 FLOOR PLAN - LIGHTING - ELECTRICAL
E2.2 BELOW GRADE PLAN - LIGHTING - ELECTRICAL
E3.1 FLOOR PLAN POWER, F.A. AND COMM. - ELECTRICAL
E3.2 FLOOR PLAN - EQUIPMENT POWER - ELECTRICAL
E4.1 FLOOR PLAN - SECURITY - ELECTRICAL