

City of Lacey Request for Proposals

New Police Station - Commissioning Services

Introduction

The City of Lacey, Washington is pleased to invite written proposals from qualified Commissioning Authorities (CxA) for the City of Lacey's New Police Station Project. Through this Request for Proposals ("RFP"), the City of Lacey is looking to identify, qualify, and partnering with an independent 3rd party Consultant who can provide specialized Building Commissioning Services. This agreement will be for approximately three years (remaining design, construction & post construction phases) in duration with the option for the City of Lacey to extend it for additional time and money if necessary.

Project Description

This project includes the new police station site, which, involves the construction of a 45,000 to 50,000 gsf, 2-story facility in the City of Lacey, Washington. The lower level is +/-22,000 gsf and the upper level is +/-23,000 gsf the facility will be of type II-B construction for Business (B), sprinklered, non-separated uses. Since the facility is non-separated, the design and code will follow the most stringent occupancy type (A-3 assembly). The main building functions include assembly spaces, offices, fitness room & locker room, evidence processing & storage and holding cells (I-3, condition 5) remaining spaces are support spaces for the City of Lacey Police.

Also included in the commissioning services will be assisting the design team with the review and quality controls of the design Bid Alternate for the New Police Station Training Building, which, involves the construction of a +/-10,000-15,000 gsf, 1-story facility in the City of Lacey, Washington. The facility will be of type II-B construction for Business (B), sprinklered, non-separated uses. Since the facility is non-separated, the design and code will follow the most stringent occupancy type (A-3 assembly). The Training Building functions include a firing range, simulator / defensive training room and training classroom. Remaining spaces are support spaces for the training building and City of Lacey Police.

Commissioning Requirements

The City of Lacey will review the SOPs from consultants and evaluate the submitted packages, with one (1) consultant being selected to provide commissioning services for the City of Lacey's New Police Station project. At least two of the selected consultants must have a physical office located in Western Washington. Chosen consultants will be expected to assist in development and coordination of the commissioning specifications and participate in the design review process prior to 100% bid ready. The systems to be commissioned may include, but are not limited to heating, ventilating and air conditioning (HVAC) equipment, HVAC controls, ductwork, electrical, exhaust fans, smoke evacuation system, carbon dioxide detectors,

laboratory equipment, plumbing, fire/life safety, security, low voltage, emergency power, domestic hot water, elevator and the building envelope as required by applicable State-adopted codes.

Consultants must demonstrate competences in enhanced commissioning services requirements. The Building Commissioning Guidelines for the State of Washington, may be used as a guide for typical equipment to be commissioned in Divisions 15 and 16. Chosen consultants may be required to begin at the later design stages of the Project and stay with the Project through construction completion. Chosen consultants may also be required to check the systems periodically for one year after completion.

The City of Lacey accepts electronic copies via email – no printed copies needed. Statements of Proposals, prepared according to the following detailed instructions, must be received at the email address listed below no later than <u>5:00 p.m. Pacific Standard Time</u>, Friday, August 11th, <u>2023</u>. No late submittals will be accepted.

The City of Lacey reserves the right to reject any or all proposals, wholly or in part, received by reason of this request. The City of Lacey assumes no obligations of any kind for expenses incurred by any respondent to this solicitation.

The City of Lacey, in accordance with Section 504 of the Rehabilitation Act (Section 504) and the Americans with Disabilities Act (ADA), commits to nondiscrimination on the basis of disability, in all of its programs and activities. This material can be made available in an alternate format by emailing John Swidecki at jswideck@ci.lacey.wa.us or by calling collect (360) 438.2645.

It is the City of Lacey's policy to assure nondiscrimination in any contract entered into pursuant to this advertisement. Firms will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award as provided by Title VI of the Civil Rights Act of 1964.

SOP FORMAT:

Consultants are asked to express their interest in this project by offering a SOP which demonstrates their ability and capacity to provide the services described.

- Number of Copies and Due Date -- Interested consultants should submit one electronic copy of their SOP via email so that they are <u>received no later than 5:00 p.m. Pacific</u>
 <u>Standard Time, Friday, August 11th, 2023</u> at Lacey City Hall. SOPs received after the deadline will not be reviewed.
- 2. **Format** -- Each SOP will be limited to <u>no more than 8 pages including the cover</u>. A printed side constitutes one page. Printed means any printing of any kind except for the phrase "this page intentionally left blank." Pages must be on 8.5" x 11" PDF. Margins will be at least 1" top, bottom, left and right. Body type must be 11 point or larger at standard spacing.
- 3. Cover Letter -- A cover letter, which does not count as part of the 8-page limit, should establish the firm's interest in this project and may not exceed one page. The letter must be signed by an individual capable of committing the resources of the proposing firm.

SOP CONTENT – Please briefly describe your firm with regards to the following items:

- Responsiveness and completeness of proposal –
- Qualification and experience
 - o Projects similar to this one
 - o O&M experience
 - o Project and construction management
 - o Troubleshooting
 - o Handoff to owners & post-construction services
- Proposed components/deliverables and timeline/schedule-
- Proposed cost of services
 - o Fundamental commissioning fee
 - o Total # professional hours budgeted for fundamental commissioning
 - o Enhanced commissioning fee
 - o Total # professional hours budgeted for enhanced commissioning
 - o Alternative proposal for fire alarm systems
 - o Alternative proposal for security systems
 - o Provide hourly billing rates that would be applicable for the duration of the project
 - o Provide a not-to-exceed estimate of reimbursable expenses excluding out-of-town travel

SELECTION PROCESS

Several Public Works staff members will review all SOPs. Each staff member on the evaluation panel will rate the criteria on a scale from 1 to 5 (Poor, Below Average, Average, Above Average, and Excellent), and scores will be added to help determine the most qualified consultants.

Evaluation Criteria: –

SOPs will be rated based on the following criteria:

- Responsiveness and completeness of proposal 10%
- Qualification and experience 30%
- Proposed components/deliverables and timeline/schedule 30%
- Proposed cost of services 30%

Points may be deducted for SOPs that do not follow "SOP FORMAT".

Staff members may choose a short list of qualified consultants who will be invited to make a presentation to the evaluation panel. Presentations, if needed, will be arranged in December 2022. Based on the SOPs and/or interviews/presentations, the selection panel will choose the company which, in its opinion, best meets the requirements set forth in this Request for Qualifications and negotiate a consultant agreement.

INTENDED SELECTION SCHEDULE

SOPs due	5:00 p.m., Monday, August 11, 2023
Interviews (if needed)	Week of August 28, 2023 (2 wks)
Negotiations with Finalist	Week of September 11, 2023 (2 wks)
Final Review of Contract	Week of September 25, 2023 (2wks)
Finalize Contract	Week of October 9, 2023 (2 wks)

Submission Details:

- Proposals must be titled "RFP Commissioning Services"
- The preferred method of submission is email to: John Swidecki at jswideck@ci.lacey.wa.us
- Alternatively, paper copies will be accepted via mail:

City of Lacey Attn: John Swidecki 420 College Street SE Lacey, WA 98503

Note: If submitting by mail, vendors must submit one unbound original and five (5) copies of their RFP. The envelope must be clearly labeled "RFP – Commissioning Services"

Ouestions:

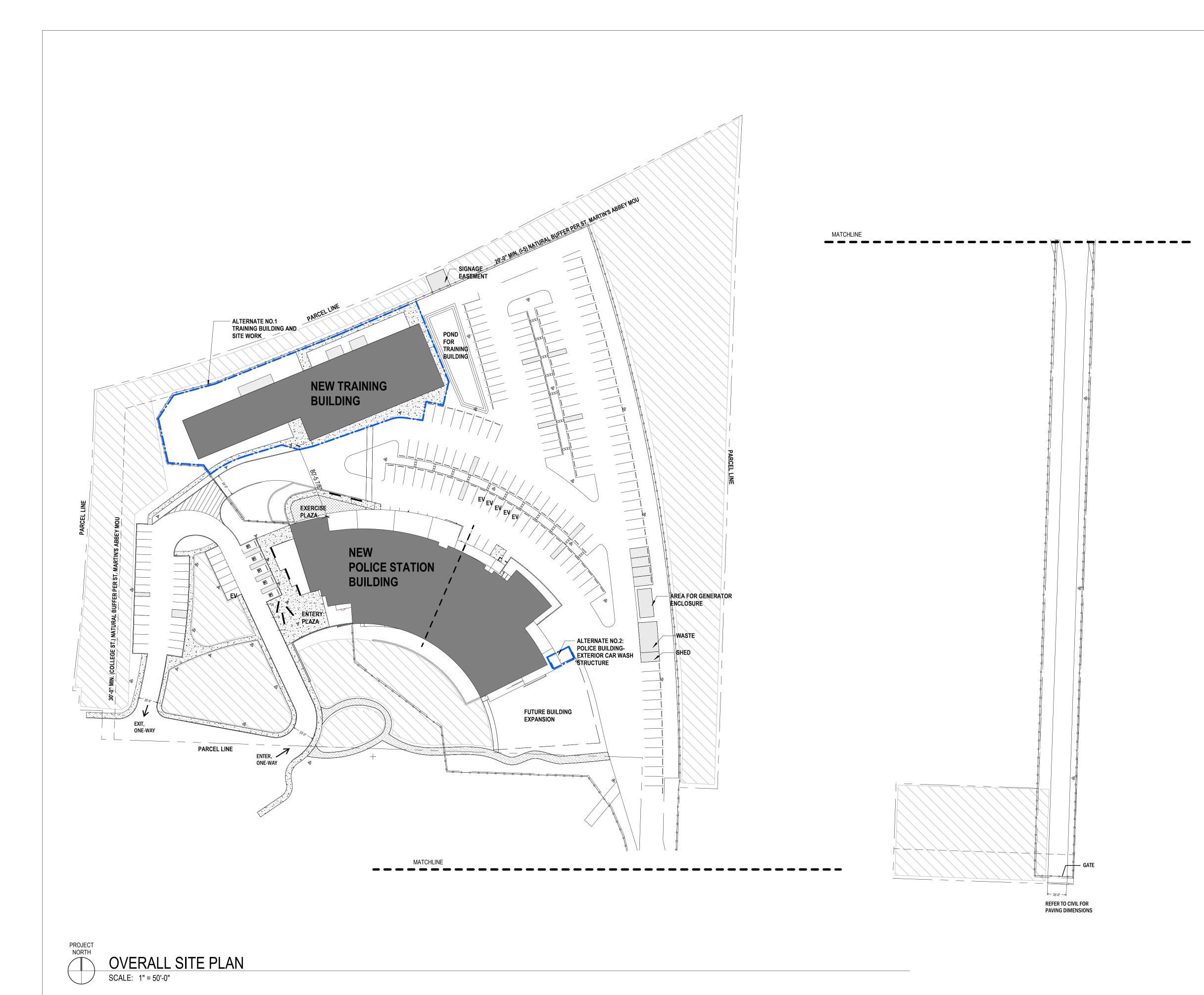
Please direct any questions for this project to John Swidecki, Capital Project Engineer, via email jswideck@ci.lacey.wa.us; subject line: "RFQ-Commissioning Services Questions". Questions will be accepted until Tuesday, August 8th, 2023, 3:30 PM.

Appendices:

Appendix 1 – Proposed Site Plan

Appendix 2 – Working Building Plan For Main And Training Buildings

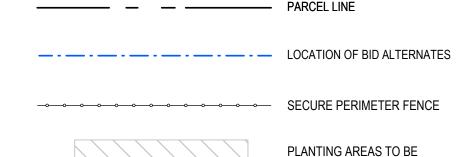
Appendix 3 – Working Building Technical Specification Table of Content



SITE PLAN NOTES

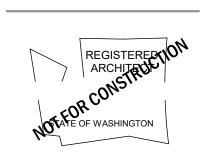
- 1. SEE CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 2. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL SITE FEATURES.
- 3. SEE ELECTRICAL DRAWINGS FOR SITE LIGHTING.
- 4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN ELECTRICAL POWER
- 5. EXISTING VEHICLE ACCESS AND FIRE LANES ARE TO BE MAINTAINED DURING ENTIRE DURATION OF CONSTRUCTION. OBEY POSTED SPEED LIMIT, REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
- 6. COORDINATE SITE OPERATIONS WITH OWNER INCLUDING STAGING AREAS, MATERIAL STORAGE, ACCESS TO WORK, TIMING OF WORK, NOISY OPERATIONS, INTERRUPTIONS OF UTILITIES, ETC.
- 7. CONTRACTOR SHALL PROVIDE AND PAY FOR DUMPSTER AND HAUL OFF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESEDING OF ANY LANDSCAPING OR LAWN AREAS DISTURBED BY THE
- 8. CONTRACTOR TO PROVIDE TEMPORARY FENCING AS REQUIRED TO PROTECT GENERAL PUBLIC FROM AREAS OF WORK.
- 9. CONTRACTOR TO KEEP PUBLIC STREETS AND SIDEWALKS FREE OF CONSTRUCTION DEBRIS AT ALL TIMES.
- CONTRACTOR TO PROVIDE SAFETY MEASURES AS REQUIRED TO PROTECT PEDESTRIAN TRAFFIC FROM CONSTRUCTION.
- 11. ALL CONSTRUCTION DEBRIS TO BE DISPOSED OF IN AN APPROVED
- 12. CONTRACTOR TO PROVIDE RESTROOM FACILITIES DURING CONSTRUCTION.

SITE PLAN LEGEND



PROTECTED AND RESTORED





KMB Project # 22022

W POLICE STATION
Y OF LACEY
COLLEGE STREET SE, LACEY, WA 98503

ORIGINAL SHEET SIZE = 24 x 36 HALF SIZE REDUCTIONS = 11 x 17

DATE: 04.25.2023 SITE PLAN REVIEW

AS 101
OVERALL SITE PLAN

THE NEW POLICE STATION BUILDING INVOLVES THE CONSTRUCTION OF A 48.604 GSF. 2-STORY FACILITY IN THE CITY OF LACEY. WASHINGTON. THIS SQUARE FOOTAGE INCLUDES OVERHANGS OVER 4 FT AND PATIOS. THE LOWER LEVEL IS 23,867 SF WITH READY LINE OVERHANG AND THE UPPER LEVEL IS 24.737 SF WITH PATIO AND OVERHANGS. THE FACILITY WILL BE OF TYPE II-B CONSTRUCTION, FULLY SPRINKLERED. (B) BUSINESS OCCUPANCY. WITH A NON-SEPARATED USE. SINCE THE FACILITY IS NON-SEPARATED, THE DESIGN AND CODE WILL FOLLOW THE MOST STRINGENT OCCUPANCY TYPE (A-3 ASSEMBLY). THE MAIN BUILDING FUNCTIONS INCLUDE ASSEMBLY SPACES, OFFICES, FITNESS ROOM & LOCKER ROOM, EVIDENCE PROCESSING & STORAGE AND HOLDING CELLS (I-3 CONDITION 5). REMAINING SPACES ARE SUPPORT SPACES FOR THE CITY OF LACEY POLICE. NON-SEPARATED USES FOR A-3, B, S-1 & S-2 AND SEPARATED I-3 CONDITION 5.

CODES REFERENCED: INTERNATIONAL BUILDING CODE (IBC) 2018 EDITION INTERNATIONAL MECHANICAL CODE (IMC) 2018 EDITION INTERNATIONAL FIRE CODE (IFC) 2018 EDITION UNIFORM PLUMBING CODE (UPC) 2018 EDITION NATIONAL ELECTRICAL CODE (NFPA 70 2020 EDITION WASHINGTON STATE BUILDING CODE (IBC): WAC 51-50 WASHINGTON STATE MECHANICAL CODE (IMC): WAC 51-52 WASHINGTON STATE FIRE CODE (IFC): WAC 51-54A WASHINGTON STATE ENERGY CODE (WSEC): WAC 51-11C

ACCESSIBLE & USABLE BUILDINGS & FACILITIES (ICC/ANSIA117.1) 2017

CHAPTER 3 OCCUPANCY CLASSIFICATION AND USE

USE AND OCCUPANCY CLASSFICIATION A-3 ASSEMBLY

B BUSINESS I-3 INSTITUTION (CONDITION 5)

S-1 STORAGE S-2 STORAGE

CHAPTER 4 SPECIAL DETAILED REQUIREMENTS SECTION 408 GROUP I-3

408.3 MEANS OF EGRESS. EXCEPT AS MODIFIED OR AS PROVIDED FOR IN THIS SECTION, THE MEANS OF EGRESS PROVISIONS OF CHAPTER 10 SHALL 408.3.7 SALLYPORTS. A SALLYPORT SHALL BE PERMITTED IN A MEANS OF EGRESS WHERE THERE ARE PROVISIONS FOR CONTINUOUS AND UNOBSTRUCTED PASSAGE THROUGH THE SALLYPORT DURING AN EMERGENCY EGRESS CONDITION.

408.6 SMOKE BARRIER. OCCUPANCIES IN GROUP I-3 SHALL HAVE SMOKE BARRIERS COMPLYING WITH SECTIONS 408.6 AND 709 TO DIVIDE EVERY STORY OCCUPIED BY RESIDENTS FOR SLEEPING, OR ANY OTHER STORY HAVING AN OCCUPANT LOAD OF 50 OR MORE PERSONS, INTO NOT FEWER THAN TWO

EXCEPTION: SPACES HAVING A DIRECT EXIT TO ONE OF THE FOLLOWING, PROVIDED THAT THE LOCKING ARRANGEMENT OF THE DOORS INVOLVED COMPLIES WITH THE REQUIREMENTS FOR DOORS AT THE SMOKE BARRIER FOR THE USE CONDITION INVOLVED: 1. A PUBLIC WAY. 2.A BUILDING SEPARATED FROM THE RESIDENT HOUSING AREA BY A 2-HOUR FIRE-RESISTANCE-RATED ASSEMBLY OR 50 FEET (15 240 MM) OF OPEN SPACE. 3.A SECURED YARD OR COURT HAVING A HOLDING SPACE 50 FEET (15 240 MM) FROM THE HOUSING AREA THAT PRO-VIDES6 SQUARE

FEET (0.56 M2) OR MORE OF REFUGE AREA PER OCCUPANT, INCLUDING RESIDENTS, STAFF AND VISITORS. A SMOKE BARRIER SHALL BE PROVIDED TO SEPARATE I-3 OCCUPANCY FROM REMAINDER OF THE BUILDING.

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS (WAC) TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE

OCCUPANCY CLASSIFICATION 'A' = SPRINKLERED, TYPE II-B = 75 FT ALLOWED ABOVE GRADE PLANE ACTUAL: 37 FEET 9 1/2 INCHES

(WAC) TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE (MOST RESTRICTIVE) OCCUPANCY CLASSIFICATION 'A-3' = SPRINKLERED. TYPE II-B = 3 STORIES ALLOWED ABOVE GRADE PLANE **ACTUAL: 2 STORIES**

(WAC) TABLE 506.2 ALLOWABLE AREA FACTOR (AT = SM) IN SQUARE FEET (MOST RESTRICTIVE) OCCUPANCY CLASSIFICATION 'A-3' = SPRINKLERED, MULTI-STORY, TYPE II-B = 28,500 SF

ALLOWABLE SF PER FLOOR LEVEL WITH FRONTAGE INCREASE: 35,530 S ACTUAL: LOWER LEVEL: 21,040 SF BUILDING 2,827 SF READY LINE OVERHANG 23,867 SF TOTAL PER LOWER LEVEL UPPER LEVEL: 23,314 SF BUILDING 689 SF PATIO

OVERALL ACTUAL TOTAL SF = 48,604 SF

734 SF OVERHANGS BEOND PATIC

24,737 SF TOTAL PER UPPER LEVEL

FRONTAGE INCREASE CALCULATIONS:

POLICE BUILDING - FRONTAGE INCREASE Lower Level - North walls and Upper Level - West, South, East East / West at Sally Port LENGTH | FRONTAGE | LxW LENGTH | FRONTAGE | LxW 2835 **L6** | 94.5 480 **L3** 54.33 1629.9 **L8** | 20.83 | 30 624.9 4974.9 1110 **L9** | 165.83 | 30 **L5** | 45 1350 **L10** | 79 2370 30 **L11** | 94.5 | 30 2835 7037.4 492.66 14399.8 234.58 Sum of wall Length

W = [(L1 X W1)+(L2 X W2), ETC.] / FMINIMUM FRONTAGE DISTANCE

(EQUATION 5-4)

LXW = 21437.2

PER FLOOR = 35,530 GSF ALLOWED

W = 21437.2 / 727.24W = 29.48

If = [F/P-0.25] W/30

AMOUNT OF INCREASE (EQUATION 5-5)

If = [(727.24/727.24) - 0.25] 29.48/30 If = (.75)29.48/30If = 22.11/30 F = 0.74

TOTAL ALLOWABLE AREA (EQUATION 5-2) Aa = [At+(NS X If)] X S*allowed per story is a value of **Type II-B** Aa = $[28,500 + (9,500 \times 0.74)] \times 2$

Aa = [28,500 + 7,030] X 2 Aa = 35,530 X 2

Aa = 71,060 SF

SECTION 505 MEZZANINES AND EQUIPMENT PLATFORMS 505.3 EQUIPMENT PLATFORMS. EQUIPMENT PLATFORMS IN BUILDINGS SHALL NOT BE CONSIDERED AS A PORTION OF THE FLOOR BELOW. SUCH

EQUIPMENT PLATFORMS SHALL NOT CONTRIBUTE TO EITHER THE BUILDING AREA OR THE NUMBER OF STORIES AS REGULATED BY SECTION 503.1. THE AREA OF THE EQUIPMENT PLATFORM SHALL NOT BE INCLUDED IN DETERMINING THE FIRE AREA IN ACCORDANCE WITH SECTION 903, EQUIPMENT PLATFORMS SHALL NOT BE A PART OF ANY MEZZANINE AND SUCH PLATFORMS AND THE WALKWAYS, STAIRWAYS, ALTERNATING TREAD DEVICES AND LADDERS PROVIDING ACCESS TO AN EQUIPMENT PLATFORM SHALL NOT SERVE AS A PART OF THE MEANS OF EGRESS FROM THE BUILDING.

AREA OF THE ROOM IN WHICH THEY ARE LOCATED.

505.3.1 AREA LIMITATION. THE AGGREGATE AREA OF ALL EQUIPMENT PLATFORMS WITHIN A ROOM SHALL BE NOT GREATER THAN TWO-THIRDS OF THE

505.3.2 AUTOMATIC SPRINKLER SYSTEM. WHERE LOCATED IN A BUILDING THAT IS REQUIRED TO BE PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM. EQUIPMENT PLATFORMS SHALL BE FULLY PROTECTED BY SPRINKLERS ABOVE AND BELOW THE PLATFORM, WHERE REQUIRED BY THE STANDARDS REFERENCED IN SECTION 903.3.

505.3.3 GUARDS. EQUIPMENT PLATFORMS SHALL HAVE GUARDS WHERE REQUIRED BY SECTION 1015.2.

SECTION 508 MIXED USE AND OCCUPANCY 508.3 NONSEPARATED OCCUPANCIES. BUILDINGS OR PORTIONS OF BUILDINGS THAT COMPLY WITH THE PROVISIONS OF THIS SECTION SHALL BE CONSIDERED AS NONSEPARATED OCCUPANCIES.

508.3.1 OCCUPANCY CLASSIFICATION. NONSEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1 THE REQUIREMENTS OF THIS CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE. IN ADDITION, THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 THAT APPLY TO THE NONSEPARATED OCCUPANCIES SHALL APPLY TO THE TOTAL NONSEPARATED OCCUPANCY AREA.

THERE IS NO ELECTRICAL EQUIPMENT IN ELECTRICAL ROOM 049 OR IN ELECTRICAL ROOM 191 THAT REQUIRES 1-HOUR FIRE-RATED PROTECTION BASED ON IBC 2018 TABLE 509 INCIDENTAL USES.

THERE IS NO MECHANICAL OR ELECTRICAL EQUIPMENT LOCATED IN THE MECHANICAL ROOM THAT REQUIRES 1-HOUR FIRE RATED PROTECTION BASED ON THE IBC 2018 TABLE 509 INCIDENTAL USES.

<u>ALL INSULATION MATERIALS USED ARE TO BE FLAME-RETARDANT AND DO NOT SUPPORT COMBUSTION, AS DEFINED IN ASTM STANDARD TES'</u>

PER NEC 450.21 DRY-TYPE TRANSFORMERS INSTALLED INDOORS (B) EXCEPTION NO. 2 - TRANSFORMERS OVER 112.5 KVA DO NOT NEED TO BE WITHIN 1-HOUR FIRE-RESISTANT RATED CONSTRUCTION IF THE <u>TRANSFORMER HAS CLASS 155 OR HIGHER INSULATION SYSTEMS, COMPLETELY ENCLOSED, EXCEPT FOR VENTILATED OPENINGS.</u>

CHAPTER 6 TYPES OF CONSTRUCTION

FLOOR CONSTRUCTION

(WAC) TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS: TYPE II-B STRUCTURAL FRAME BEARING WALL (INTERIOR & EXTERIOR) 0 HOURS

NON BEARING WALLS (EXTERIOR) TABLE 602 1 HOUR: X>5FT, 5 FT ≤ 10 FT 0 HOUR: 10 FT ≤ X < 30, X ≥ 30 FT 0 HOURS NON-BEARING WALLS (INTERIOR)

ROOF CONSTRUCTION *IN ALL OCCUPANCIES, HEAVY TIMBER COMPLYING WITH SECTION 2304.11 SHALL BE ALLOWED WHERE A 1-HOUR OR LESS FIRE-RESISTANCE RATING IS REQUIRED.

SECTION 603 COMBUSTIBLE MATERIAL IN TYPES I AND II CONSTRUCTION

603.1 ALLOWABLE MATERIALS. COMBUSTIBLE MATERIALS SHALL BE PERMITTED IN BUILDINGS OF TYPE I OR II CONSTRUCTION IN THE FOLLOWING APPLICATIONS AND IN ACCORDANCE WITH SECTIONS 603.1.1 THROUGH 603.1.3:

1. FIRE-RETARDANT-TREATED WOOD SHALL BE PERMITTED IN: 1.1. NONBEARING PARTITIONS WHERE THE REQUIRED FIRE-RESISTANCE RATING IS 2 HOURS OR LESS.

0 HOURS

1.2. NONBEARING EXTERIOR WALLS WHERE FIRE-RESISTANCE-RATED CONSTRUCTION IS NOT REQUIRED. 1.3. ROOF CONSTRUCTION, INCLUDING GIRDERS, TRUSSES, FRAMING AND DECKING.

1.4.BALCONIES, PORCHES, DECKS AND EXTERIOR STAIRWAYS NOT USED AS REQUIRED EXITS ON BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE. 13. COMBUSTIBLE EXTERIOR WALL COVERINGS, BALCONIES AND SIMILAR PROJECTIONS AND BAY OR ORIEL WINDOWS IN ACCORDANCE WITH CHAPTER 14 AND 705.2.3.1.

14. BLOCKING SUCH AS FOR HANDRAILS, MILLWORK, CABINETS AND WINDOW AND DOOR FRAMES. 18. NAILING OR FURRING STRIPS AS PERMITTED BY SECTION 803.15.

19. HEAVY TIMBER AS PERMITTED BY NOTE C TO TABLE 601 AND SECTIONS 602.4.3 AND 705.2.3.1.

CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES SECTION 707 FIRE BARRIERS

WAC) 707.5 CONTINUITY. FIRE BARRIERS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR/CEILING ASSEMBLY BELOW TO THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE AND SHALL BE SECURELY ATTACHED THERETO, SUCH FIRE BARRIERS SHALL BE CONTINUOUS THROUGH CONCEALED SPACE, SUCH AS THE SPACE ABOVE A SUSPENDED CEILING. JOINTS AND VOIDS AT INTERSECTIONS SHALL COMPLY WITH SECTIONS 707.8 AND 707.9.

1. SHAFT ENCLOSURES SHALL BE PERMITTED TO TERMINATE AT A TOP ENCLOSURE COMPLYING WITH SECTION 713.12. 2. INTERIOR EXIT STAIRWAY AND RAMP ENCLOSURES REQUIRED BY SECTION 1023 AND EXIT ACCESS STAIRWAY AND RAMP ENCLOSURES REQUIRED BY SECTION 1019 SHALL BE PERMITTED TO TERMINATE AT A TOP ENCLOSURE COMPLYING WITH SECTION 713.12. 3. AN EXIT PASSAGEWAY ENCLOSURE REQUIRED BY SECTION 1024.3 THAT DOES NOT EXTEND TO THE UNDERSIDE OF THE ROOF SHEATHING. SLAB OR DECK ABOVE SHALL BE ENCLOSED AT THE TOP WITH CONSTRUCTION OF THE SAME FIRE-RESISTANCE RATING AS REQUIRED FOR THE

SECTION 709 SMOKE BARRIERS 709.3 FIRE-RESISTANCE RATING. A 1-HOUR FIRE-RESISTANCE RATING IS REQUIRED FOR SMOKE BARRIERS.

SECTION 713 SHAFT ENCLOSURES

713.4 FIRE-RESISTANCE RATING. SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE CONNECTING FOUR STORIES OR MORE, AND NOT LESS THAN 1 HOUR WHERE CON-NECTING LESS THAN FOUR STORIES. THE NUMBER OF STORIES CONNECTED BY THE SHAFT ENCLOSURE SHALL INCLUDE ANY BASEMENTS BUT NOT ANY MEZZANINES. SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS. SHAFT ENCLOSURES SHALL MEET THE REQUIREMENTS OF SECTION 703.2.1.

713.5 CONTINUITY. SHAFT ENCLOSURES SHALL BE CONSTRUCTED AS FIRE BARRIERS IN ACCORDANCE WITH SECTION 707 OR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 711, OR BOTH, AND SHALL HAVE CONTINUITY IN ACCORDANCE WITH SECTION 707.5 FOR FIRE BARRIERS OR SECTION 711.2.2 FOR HORIZONTAL ASSEMBLIES, AS APPLICABLE.

714.4 FIRE-RESISTANCE-RATED WALLS. PENETRATIONS INTO OR THROUGH FIRE WALLS, FIRE BARRIERS, SMOKE BARRIER WALLS AND FIRE PARTITIONS SHALL COMPLY WITH SECTIONS 714.4.1 THROUGH 714.4.3. PENETRATIONS IN SMOKE BARRIER WALLS SHALL ALSO COMPLY WITH SECTION 714.5.4.

714.4.1 THROUGH PENETRATIONS. THROUGH PENETRATIONS OF FIRE-RESISTANCE-RATED WALLS SHALL COMPLY WITH SECTION 714.4.1.1 OR 714.4.1.2. EXCEPTION: WHERE THE PENETRATING ITEMS ARE STEEL, FERROUS OR COPPER PIPES, TUBES OR CONDUITS, THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE FIRE-RESIS-TANCE-RATED WALL IS PERMITTED TO BE PROTECTED BY EITHER OF THE FOLLOWING MEASURES 1.IN CONCRETE OR MASONRY WALLS WHERE THE PENETRATING ITEM IS A MAXIMUM 6-INCH (152 MM) NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144 SQUARE INCHES (0.0929M2), CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE 2.THE MATERIAL USED TO FILL THE ANNULAR SPACE SHALL PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE

COTTON WASTE WHEN SUBJECTED TO ASTM E119 OR UL 263 TIME-TEMPERATURE FIRE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.

SECTION 717 DUCTS AND AIR TRANSFER OPENINGS

(WAC) 717.5.2 FIRE BARRIERS. DUCTS AND AIR TRANSFER OPENINGS OF FIRE BARRIERS SHALL BE PROTECTED WITH LISTED FIRE DAMPERS INSTALLED IN ACCORDANCE WITH THEIR LISTING. DUCTS AND AIR TRANSFER OPENINGS SHALL NOT PENETRATE ENCLOSURES FOR INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS, EXCEPT AS PERMITTED BY SECTIONS 1023.5 AND 1024.6, RESPECTIVELY EXCEPTION: FIRE DAMPERS ARE NOT REQUIRED AT PENETRATIONS OF FIRE BARRIERS WHERE ANY OF THE FOLLOWING APPLY:

1. PENETRATIONS ARE TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263 AS PART OF THE FIRE-RESISTANCE-RATED ASSEMBLY. 2. DUCTS ARE USED AS PART OF AN APPROVED SMOKE CONTROL SYSTEM IN ACCORDANCE WITH SECTION 909 AND WHERE THE USE OF A FIRE DAMPER WOULD INTERFERE WITH THE OPERATION OF A SMOKE CONTROL SYSTEM. 3. SUCH WALLS SHALL HAVE A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS, PENETRATED BY DUCTED HVAC SYSTEMS, IN AREAS OF OTHER THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2. FOR THE PURPOSES OF THIS EXCEPTION, A DUCTED HVAC SYSTEM SHALL BE A DUCT SYSTEM FOR CONVEYING SUPPLY, RETURN OR EXHAUST AIR AS PART OF THE STRUCTURE'S HVAC SYSTEM. SUCH A DUCT SYSTEM SHALL BE CONSTRUCTED OF SHEET STEEL NOT LESS THAN NO. 26 GAGE THICKNESS AND SHALL BE CONTINUOUS WITHOUT OPENINGS FROM THE AIR-HANDLING APPLIANCE OR

ABLE 803.13 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (MOST RESTRICTIVE)

CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS ROOMS AND ENCLOSED SPACES

CHAPTER 09 FIRE PROTECTION AND LIFE SAFETY SYSTEMS AUTOMATIC SPRINKLER SYSTEM:

SECTION 903 AUTOMATIC SPRINKLER SYSTEMS.

903.3.1.1 NFPA 13 SPRINKLER SYSTEMS. WHERE THE PROVISIONS OF THIS CODE REQUIRE THAT A BUILDING OR PORTION THEREOF BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH THIS SECTION, SPRINKLERS SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 EXCEPT AS PROVIDED IN SECTIONS 903.3.1.1.1 AND 903.3.1.1.2.

906.2 GENERAL REQUIREMENTS. PORTABLE FIRE EXTINGUISHERS SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THIS SECTION AND NFPA 10.

2. IN GROUP I-3, PORTABLE FIRE EXTINGUISHERS SHALL BE PERMITTED TO BE LOCATED AT STAFF LOCATIONS. PORTABLE FIRE EXTINGUISHERS: NFPA 10, CURRENT EDITION, 75' TRAVEL DISTANCE TO FIRE EXTINGUISHER FIRE ALARM AND DETECTION SYSTEM:

EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS, LOCATED ON THE OPPOSITE SIDE OF THE WALL ASSEMBLY.

<u>FIRE EXTINGUISHERS TO BE TYPE 2A10BC, UNLESS OTHERWISE NOTED IN SPECIFICATIONS.</u>

CHAPTER 10 MEANS OF EGRESS SECTION 1004 OCCUPANT LOAI

LOCKER ROOMS

1004.4 MULTIPLE OCCUPANCIES. WHERE A BUILDING CONTAINS TWO OR MORE OCCUPANCIES, THE MEANS OF EGRESS REQUIREMENTS SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY OF THAT SPACE. WHERE TWO OR MORE OCCUPANCIES UTILIZE PORTIONS OF THE SAME MEANS OF EGRESS SYSTEM, THOSE EGRESS COMPONENTS SHALL MEET THE MORE STRINGENT REQUIREMENTS OF ALL OCCUPANCIES THAT ARE SERVED.

50 GROSS

TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM 300 GROSS ASSEMBLY (UNCONCENTRATED) 15 NET **BUSINESS AREAS** 150 GROSS CONCENTRATED BUSINESS USE AREAS SEE SECTION 1004.8 EDUCATIONAL (SHOP AND OTHER VOCATIONAL) 50 NET EXERCISE ROOMS 50 GROSS INSTITUTIONAL AREAS OUTPATIENT AREAS 100 GROSS

1004.7 OUTDOOR AREAS. YARDS, PATIOS, OCCUPIED ROOFS, COURTS AND SIMILAR OUTDOOR AREAS ACCESSIBLE TO AND USABLE BY THE BUILDING OCCUPANTS SHALL BE PROVIDED WITH MEANS OF EGRESS AS REQUIRED BY THIS CHAPTER. THE OCCUPANT LOAD OF SUCH OUTDOOR AREAS SHALL BE ASSIGNED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE ANTICIPATED USE. WHERE OUTDOOR AREAS ARE TO BE USED BY PERSONS IN ADDITION TO THE OCCUPANTS OF THE BUILDING, AND THE PATH OF EGRESS TRAVEL FROM THE OUTDOOR AREAS PASSES THROUGH THE BUILDING, MEANS OF EGRESS REQUIREMENTS FOR THE BUILDING SHALL BE BASED ON THE SUM OF THE OCCUPANT LOADS OF THE BUILDING PLUS THE OUTDOOR AREAS. OCCUPANTS ON PATIO NOT TO EXCEED 49 OCCUPANTS. MACIMUM OCCUPANT LOAD WILL BE POSTED.

1004.8 CONCENTRATED BUSINESS USE AREAS. THE OCCUPANT LOAD FACTOR FOR CONCENTRATED BUSINESS USE SHALL BE APPLIED TO TELEPHONE CALL CENTERS. TRADING FLOORS, ELECTRONIC DATA PROCESSING CENTERS AND SIMILAR BUSINESS USE AREAS WITH A HIGHER DENSITY OF OCCUPANTS THAN WOULD NORMALLY BE EXPECTED IN A TYPICAL BUSINESS OCCUPANCY ENVIRONMENT. WHERE APPROVED BY THE BUILDING OFFICIAL, THE OCCUPANT LOAD FOR CONCENTRATED BUSINESS USE AREAS SHALL BE THE ACTUAL OCCUPANT LOAD, BUT NOT LESS THAN ONE OCCUPANT PER 50 SQUARE FEET (4.65 SQ M) OF GROSS OCCUPIABLE FLOOR SPACE.

SECTION 1005 MEANS OF EGRESS SIZING 0.3 INCH PER OCCUPANT AT STAIRWAYS

0.2 INCH PER OCCUPANT AT OTHER EGRESS COMPONENTS

1005.5 DISTRIBUTION OF MINIMUM WIDTH AND REQUIRED CAPACITY. WHERE MORE THAN ONE EXIT, OR ACCESS TO MORE THAN ONE EXIT, IS REQUIRED, THE MEANS OF EGRESS SHALL BE CONFIGURED SUCH THAT THE LOSS OF ANY ONE EXIT, OR ACCESS TO ONE EXIT, SHALL NOT REDUCE THE AVAILABLE CAPACITY OR WIDTH TO LESS THAN 50 PERCENT OF THE REQUIRED CAPACITY OR WIDTH.

1006.2.1 EGRESS BASED ON OCCUPANT LOAD AND COMMON PATH OF EGRESS TRAVEL DISTANCE. TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1. THE CUMULATIVE OCCUPANT LOAD FROM ADJACENT ROOMS, AREAS OR SPACES SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1004.2.

1. THE NUMBER OF EXITS FROM FOYERS, LOBBIES, VESTIBULES OR SIMILAR SPACES NEED NOT BE BASED ON CUMULATIVE OCCUPANT LOADS FOR AREAS DISCHARGING THROUGH SUCH SPACES, BUT THE CAPACITY OF THE EXITS FROM SUCH SPACES SHALL BE BASED ON APPLICABLE CUMULATIVE OCCUPANT LOADS. 3. UNOCCUPIED MECHANICAL ROOMS AND PENTHOUSES ARE NOT REQUIRED TO COMPLY WITH THE COMMON PATH OF EGRESS TRAVEL

DEFINITIONS:

DISTANCE MEASUREMENT.

COMMON PATH OF EGRESS TRAVEL THAT PORTION OF EXIT ACCESS TRAVEL DISTANCE MEASURED FROM THE MOST REMOTE POINT OF EACH ROOM, AREA OR SPACE TO THAT POINT WHERE THE OCCUPANTS HAVE SEPARATE AND DISTINCT ACCESS TO TWO EXITS OR EXIT ACCESS DOORWAYS.

(WAC) TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY MAXIMUM OCCUPANT MAXIMUM COMMON PATH OF EGRESS TRAVEL

OCCUPANCY LOAD OF SPACE DISTANCE WITH TO THE TOTAL PROPERTY OF THE PROPERTY OF DISTANCE (WITH SPRINKLER SYSTEM) 100 FEET 100 FEET 100 FEET

TABLE 1006.3.2 MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY OCCUPANT LOAD MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS FROM STORY

SECTION 1007 EXIT AND EXIT ACCESS DOORWAY CONFIGURATION

1007.1.1 TWO EXITS OR EXIT ACCESS DOORWAYS. WHERE TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS, OR ANY COMBINATION THEREOF, ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS, THEY SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM. INTERLOCKING OR SCISSOR STAIRWAYS SHALL BE COUNTED AS ONE EXIT STAIRWAY.

2.WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2. THE SEPARATION DIS-TANCE SHALL BE NOT LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

SECTION 1009 ACCESSIBLE MEANS OF EGRESS 1009.1 ACCESSIBLE MEANS OF EGRESS REQUIRED. ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH THIS SECTION. ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS. WHERE MORE THAN ONE MEANS OF EGRESS IS REQUIRED BY SECTION 1006.2 OR 1006.3 FROM ANY ACCESSIBLE SPACE, EACH ACCESSIBLE PORTION OF THE SPACE SHALL BE SERVED BY NOT LESS THAN TWO ACCESSIBLE MEANS OF

1009.2 CONTINUITY AND COMPONENTS. EACH REQUIRED ACCESSIBLE MEANS OF EGRESS SHALL BE CONTINUOUS TO A PUBLIC WAY AND SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPO-NENTS: 1. ACCESSIBLE ROUTES COMPLYING WITH SECTION 1104.

SECTION 1010 DOORS, GATES AND TURNSTILES

1010.1.1 SIZE OF DOORS. THE MINIMUM WIDTH OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES DOOR WIDTH CALCULATIONS

3'-0" DOOR - 2 1/2" (STOP + LEAF) = 33 1/2" / 0.2 = 167 PEOPLE MAXIMUM 6'-0" DOOR - 3 1/2" (STOP + LEAF) = 68 1/2" / 02. = 343 PEOPLE

1010.1.9.8 DELAYED EGRESS. DELAYED EGRESS LOCKING SYSTEMS SHALL BE PERMITTED TO BE INSTALLED ON DOORS SERVING THE FOLLOWING OCCUPANCIES IN BUILDINGS THAT ARE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR AN APPROVED AUTOMATIC SMOKE OR HEAT DETECTION SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 907. 1.GROUP B, F, I, M, R, S AND U OCCUPANCIES.

1010.1.9.8.1 DELAYED EGRESS LOCKING SYSTEM. THE DELAYED EGRESS LOCKING SYSTEM SHALL BE INSTALLED AND OPERATED IN ACCORDANCE WITH ALL OF THE FOLLOWING: 1.THE DELAY ELECTRONICS OF THE DELAYED EGRESS LOCKING SYSTEM SHALL DEACTIVATE UPON ACTUATION OF THE AUTOMATIC SPRINKLER SYSTEM OR AUTOMATIC FIRE DETECTION SYSTEM, ALLOWING IMMEDIATE FREE EGRESS. 2.THE DELAY ELECTRONICS OF THE DELAYED EGRESS LOCKING SYSTEM SHALL DEACTIVATE UPON LOSS OF POWER CONTROLLING THE LOCK OR

LOCK MECHANISM, ALLOWING IMMEDIATE FREE EGRESS. 3.THE DELAYED EGRESS LOCKING SYSTEM SHALL HAVE THE CAPABILITY OF BEING DEACTIVATED AT THE FIRE COMMAND CENTER AND OTHER APPROVED LOCA TIONS. 4.AN ATTEMPT TO EGRESS SHALL INITIATE AN IRREVERSIBLE PROCESS THAT SHALL ALLOW SUCH EGRESS IN NOT MORE THAN 15 SECONDS WHEN A PHYSICAL EFFORT TO EXIT IS APPLIED TO THE EGRESS SIDE DOOR HARDWARE FOR NOT MORE THAN 3 SECONDS. INITIATION OF THE IRREVERSIBLE PROCESS SHALL ACTIVATE AN AUDIBLE SIGNAL IN THE VICINITY OF THE DOOR. ONCE THE DELAY ELECTRONICS HAVE BEEN DEACTIVATED, REARMING THE DELAY ELECTRONICS SHALL BE BY MANUAL MEANS ONLY. EXCEPTION: WHERE APPROVED, A DELAY OF NOT MORE THAN 30 SECONDS IS PERMITTED ON A DELAYED EGRESS DOOR. 5.THE EGRESS PATH FROM ANY POINT SHALL NOT PASS THROUGH MORE THAN ONE DELAYED EGRESS LOCKING SYSTEM.

1.IN GROUP I-2 OR I-3 OCCUPANCIES, THE EGRESS PATH FROM ANY POINT IN THE BUILDING SHALL PASS THROUGH NOT MORE THAN TWO DELAYED EGRESS LOCKING SYSTEMS PROVIDED THAT THE COMBINED DELAY DOES NOT EXCEED 30 SECOND EXIT ACCESS.

(WAC) 1010.1.10 PANIC AND FIRE EXIT HARDWARE. SWINGING DOORS SERVING A GROUP H OCCUPANCY AND SWINGING DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP A OR E OCCUPANCY SHALL NOT BE PROVIDED WITH A LATCH OR LOCK OTHER THAN PANIC HARDWARE OR FIRE EXIT HARDWARE.

1. A MAIN EXIT OF A GROUP A OCCUPANCY SHALL BE PERMITTED TO HAVE LOCKING DEVICES IN ACCORDANCE WITH SECTION 1010.1.9.4, ITEM 2. 2. DOORS PROVIDED WITH PANIC HARDWARE OR FIRE EXIT HARDWARE AND SERVING A GROUP A OR E OCCUPANCY SHALL BE PERMITTED TO BE ELECTROMAGNETICALLY LOCKED IN ACCORDANCE WITH SECTION 1010.1.9.9 OR 1010.1.9.10. 3. EXIT ACCESS DOORS SERVING OCCUPIED EXTERIOR AREAS SHALL BE PERMITTED TO BE LOCKED IN ACCORDANCE WITH SECTION 1010.1.9.4, ELECTRICAL ROOMS WITH EQUIPMENT RATED 1,200 AMPERES OR MORE AND OVER 6 FEET (1829 MM) WIDE, AND THAT CONTAIN OVERCURRENT DEVICES, SWITCHING DEVICES OR CONTROL DEVICES WITH EXIT OR EXIT ACCESS DOORS, SHALL BE EQUIPPED WITH PANIC HARDWARE OR FIRE

(WAC) 1010.1.10.3 ELECTRICAL ROOMS AND WORKING CLEARANCES. EXIT AND EXIT ACCESS DOORS SERVING ELECTRICAL ROOMS AND WORKING SPACES SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL AND SHALL BE EQUIPPED WITH PANIC HARDWARE OR FIRE EXIT HARDWARE WHERE SUCH ROOMS OR WORKING SPACES CONTAIN ONE OR MORE OF THE FOLLOWING: 1. EQUIPMENT OPERATING AT MORE THAN 600 VOLTS, NOMINAL

2. EQUIPMENT OPERATING AT 600 VOLTS OR LESS, NOMINAL AND RATED AT 800 AMPERES OR MORE, AND WHERE THE EQUIPMENT CONTAINS OVERCURRENT DEVICES, SWITCHING DEVICES OR CONTROL DEVICES.

EXCEPTION: PANIC AND FIRE EXIT HARDWARE IS NOT REQUIRED ON EXIT AND EXIT ACCESS DOORS SERVING ELECTRICAL EQUIPMENT ROOMS AND WORKING SPACES WHERE SUCH DOORS ARE NOT LESS THAN TWENTY-FIVE FEET (7.6 M) FROM THE NEAREST EDGE OF THE ELECTRICAL

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE WITH SPRINKLER SYSTEM 250 FEET (MOST RESTRICTIVE)

200 FEET (ONLY APPLIES TO I-3 SEPARATED OCCUPANCY)

EXIT HARDWARE. THE DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL.

1020.4 DEAD ENDS. WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT DEAD-END CORRIDORS DO NOT EXCEED 20 FEET (6096 MM) IN LENGTH.

1.IN IN GROUP I-3, CONDITION 2, 3 OR 4, OCCUPANCIES, THE DEAD END IN A CORRIDOR SHALL NOT EXCEED 50 FEET (15,240 MM). 2.IN OCCUPANCIES IN GROUPS B, E, F, I-1, M, R-1, R-2, S AND U, WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1. THE LENGTH OF THE DEAD-END CORRIDORS SHALL NOT EXCEED 50 FEET (15 240 MM).

CHAPTER 23 WOOD

SECTION 2304 GENERAL CONSTRUCTION REQUIREMENTS 2304.11 HEAVY TIMBER CONSTRUCTION. WHERE A STRUCTURE, PORTION THEREOF OR INDIVIDUAL STRUCTURAL ELEMENTS ARE REQUIRED BY PROVISIONS OF THIS CODE TO BE OF HEAVY TIMBER, THE BUILDING ELEMENTS THEREIN SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF SECTIONS 2304.11.1 THROUGH 2304.11.4. MINIMUM DIMENSIONS OF HEAVY TIMBER SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS IN TABLE 2304.11 BASED ON ROOFS OR FLOORS SUPPORTED AND THE CONFIGURATION OF EACH STRUCTURAL ELEMENT, OR IN SECTIONS 2304.11.2 THROUGH 2304.11.4. LUMBER DECKING SHALL BE IN ACCORDANCE WITH SECTION 2304.9.

2304.11.1.3 ROOF FRAMING. MINIMUM DIMENSIONS OF ROOF FRAMING SHALL BE IN ACCORDANCE WITH TABLE 2304.11. EVERY ROOF GIRDER AND NOT LESS THAN EVERY ALTERNATE ROOF BEAM SHALL BE ANCHORED TO ITS SUPPORTING MEMBER TO RESIST FORCES AS REQUIRED IN CHAPTER 16. 2304.11.4.1 CROSS-LAMINATED TIMBER ROOFS. CROSS-LAMINATED TIMBER ROOFS SHALL BE NOT LESS THAN 3 INCHES (76 MM) NOMINAL IN THICKNESS AND SHALL BE CONTINUOUS FROM SUPPORT TO SUPPORT AND MECHANICALLY FASTENED TO ONE ANOTHER.

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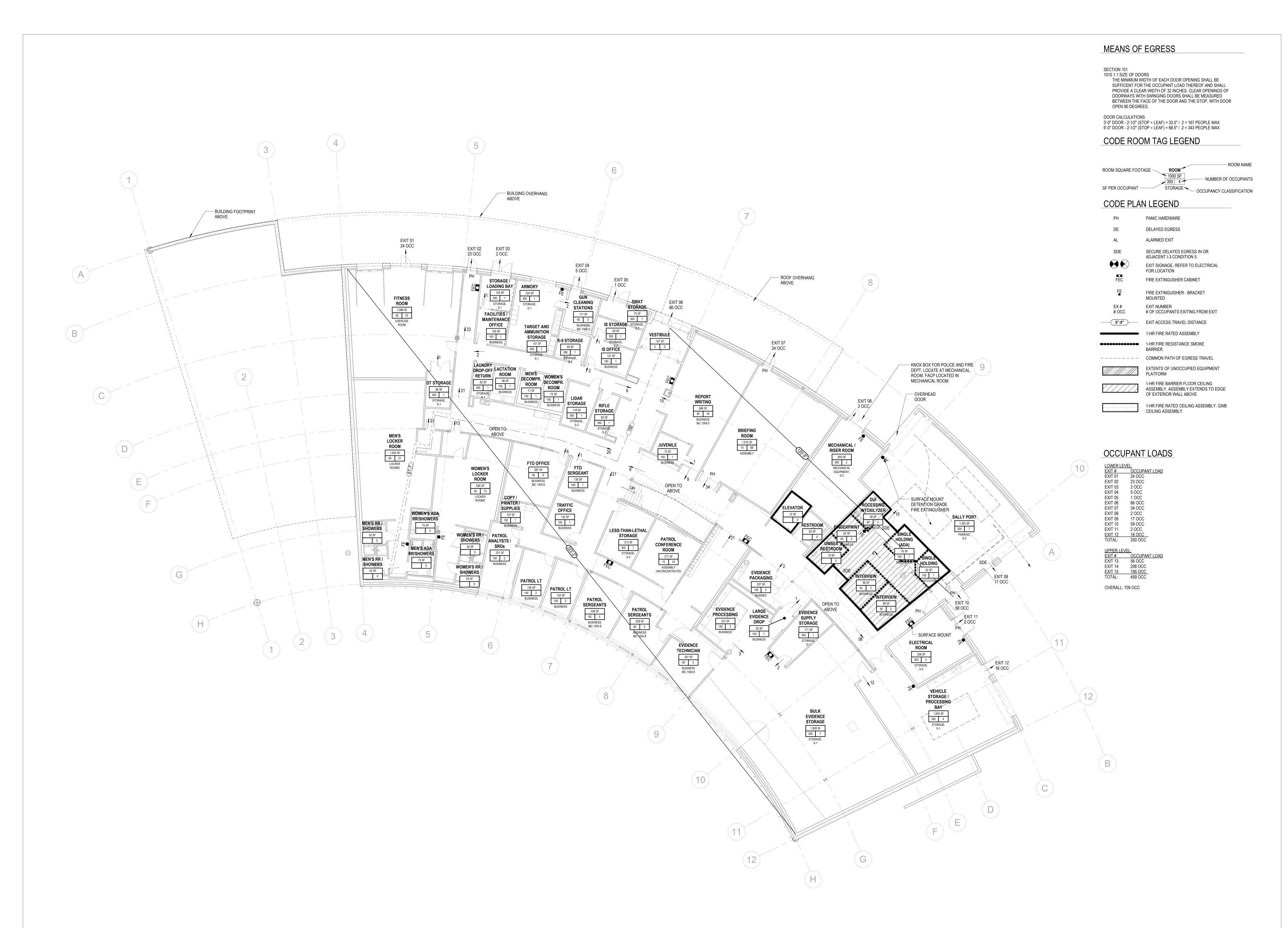
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ORIGINAL SHEET SIZE = 30 x 42 HALF SIZE REDUCTIONS = 15 x 21

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06.16.2023 PERMIT SET

INFORMATION



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9815 REGISTERED ARCHITECT

SHERHLYNN OBRIEN STATE OF WASHINGTON

NEW POLICE STATION
CITY OF LACEY
222 COLLEGE STREET SE, LACEY, WA 98503
CITY PROJECT NO. PW 2022-13

ORIGINAL SHEET SIZE = 30 x 42
HALF SIZE REDUCTIONS = 15 x 21

DATE: 06.16.2023
PERMIT SET

GI202

GENERAL CODE
INFORMATION - LOWER

SHEET _____ 0F ____



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9815 REGISTERED ARCHITECT

SHERHANN OBRIEN STATE OF WASHINGTON

NEW POLICE STATION
CITY OF LACEY
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CITY PROJECT NO. PW 2022-13

ORIGINAL SHEET SIZE = 30 x 42
HALF SIZE REDUCTIONS = 15 x 21
REVISIONS:

06.16.2023
PERMIT SET

GI203
GENERAL CODE
INFORMATION - MAIN

SHEET _____ 0F ____

2018 IBC & WAC 51-50 4TH PRINTING

THE TRAINING BUILDING INVOLVES THE CONSTRUCTION OF A 14,934 SF, 1-STORY FACILITY IN THE CITY OF LACEY, WASHINGTON. THE FACILITY WILL BE OF TYPE II-B CONSTRUCTION FOR BUSINESS(B), SPRINKLERED, NON-SEPARATED USES SINCE THE FACILITY IS NON-SEPARATED, THE DESIGN AND CODE WILL FOLLOW THE MOST STRINGENT OCCUPANCY TYPE (A-3 ASSEMBLY). THE TRAINING BUILDING FUNCTIONS INCLUDE A FIRING RANGE, SIMULATOR ROOM, DEFENSIVE TRAINING ROOM AND TRAINING CLASSROOM. REMAINING SPACES ARE SUPPORT SPACES FOR THE TRAINING BUILDING AND CITY OF LACEY

WAC 51-50

CODES REFERENCED:

INTERNATIONAL BUILDING CODE (IBC) 2018 EDITION INTERNATIONAL MECHANICAL CODE (IMC) 2018 EDITION INTERNATIONAL FIRE CODE (IFC) 2018 EDITION UNIFORM PLUMBING CODE (UPC) 2018 EDITION NATIONAL ELECTRICAL CODE (NFPA 70) 2020 EDITION

WASHINGTON STATE MECHANICAL CODE (IMC): WAC 51-52 WASHINGTON STATE FIRE CODE (IFC): WAC 51-54A WASHINGTON STATE ENERGY CODE (WSEC): WAC 51-11C ACCESSIBILE & USABLE BUILDINGS & FACILITIES (ICC/ANSIA117.1) 2017

CHAPTER 3 OCCUPANCY CLASSIFICATION AND USE

USE AND OCCUPANCY CLASSFICIATION A-3 ASSEMBLY B BUSINESS

WASHINGTON STATE BUILDING CODE (IBC):

S-1 STORAGE S-2 STORAGE

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE

OCCUPANCY CLASSIFICATION 'A' = SPRINKLERED, TYPE II-B = 75 FT ALLOWED ABOVE GRADE PLANE ACTUAL: 20 FT

TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE OCCUPANCY CLASSIFICATION 'A-3' = SPRINKLERED, TYPE II-B = 3 STORIES ALLOWED ABOVE GRADE PLANE ACTUAL: 1 STORY

TABLE 506.2 ALLOWABLE AREA FACTOR (S1) IN SQUARE FEET OCCUPANCY CLASSIFICATION 'A-3' = SPRINKLERED, SINGLE-STORY, TYPE II-B = 38.000 SF ALLOWABLE SF PER FLOOR LEVEL WITH FRONTAGE INCREASE: 45,125 SF ACTUAL: 14,934 SF

FRONTAGE INCREASE CALCULATIONS:

TRAINING BUILDING - FRONTAGE INCREASE

	NORTH, EAST, SOUTH AND		
	WEST WALLS		
	WALL		
	LENGTH	FRONTAGE	LxW
	(F)		
L1	40.5	30	1215
L2	26	30	780
L3	114.5	30	3435
L4	150.67	30	4520.1
L5	68	30	2040
L6	268	30	8040
	667 67		20030 1

Sum of wall Length

LXW = 20030.1W = [(L1 X W1)+(L2 X W2), ETC.] MINIMUM FRONTAGE DISTANCE (EQUATION 5-4)

W = 20030.1/667.67W = 30

AMOUNT OF INCREASE (EQUATION 5-5) If = [F/P-0.25] W/30

REGULARLY UNOCCUPIED SPACE.

LIMITED ACCESS FOR CLEAING, MAINTENANCE

If = [(667.67/667.67) - 0.25] 30/30 If = (.75)30/30If = 22.5/30F = 0.75

BULLET TRAP

Aa = [At+(NS X If)] X Sa

TOTAL ALLOWABLE AREA (EQUATION 5-2) *allowed per story is a value of Sa **Type II-B** Aa = $[38,000 + (9,500 \times 0.75)] \times 2$ = 1

Aa = [38,000 + 7,125] X 2 Aa = 45,125 X 2

Aa = 90,250 SFPER FLOOR = 45,125 GSF ALLOWED

SECTION 508 MIXED USE AND OCCUPANCY 508.3 NONSEPARATED OCCUPANCIES. BUILDINGS OR PORTIONS OF BUILDINGS THAT COMPLY WITH THE PROVISIONS OF THIS SECTION SHALL BE CONSIDERED AS NONSEPARATED OCCUPANCIES. 508.3.1 OCCUPANCY CLASSIFICATION. NONSEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE REQUIREMENTS OF THIS CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE. IN ADDITION, THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 THAT APPLY TO THE NONSEPARATED OCCUPANCIES SHALL APPLY TO THE TOTAL NONSEPARATED OCCUPANCY AREA.

TABLE 509 INCIDENTAL USES THERE IS NO ELECTRICAL EQUIPMENT IN ELECTRICAL ROOM 049 OR IN ELECTRICAL ROOM 191 THAT REQUIRES 1-HOUR FIRE-RATED <u>PROTECTION BASED ON IBC 2018 TABLE 509 INCIDENTAL USES.</u>

<u>PER NEC 450.21 DRY-TYPE TRANSFORMERS INSTALLED INDOOR:</u> (B) EXCEPTION NO. 2 – TRANSFORMERS OVER 112.5 KVA DO NOT NEED TO BE WITHIN 1-HOUR FIRE-RESISTANT RATED CONSTRUCTION IF HE TRANSFORMER HAS CLASS 155 OR HIGHER INSULATION SYSTEMS, COMPLETELY ENCLOSED, EXCEPT FOR VENTILATED OPENINGS. <u>ILL INSULATION MATERIALS USED ARE TO BE FLAME-RETARDANT AND DO NOT SUPPORT COMBUSTION, AS DEFINED IN ASTM STANDARD</u>

TEST METHOD D635.

CHAPTER 6 TYPES OF CONSTRUCTION SECTION 603 COMBUSTIBLE MATERIAL IN TYPES I AND II CONSTRUCTION 603.1 ALLOWABLE MATERIALS. COMBUSTIBLE MATERIALS SHALL BE PERMITTED IN BUILDINGS OF TYPE I OR II CONSTRUCTION IN THE

FOLLOWING APPLICATIONS AND IN ACCORDANCE WITH SECTIONS 603.1.1 THROUGH 603.1.3:

INCLUDING, BUT NOT LIMITED TO: 1. FIRE-RETARDANT-TREATED WOOD SHALL BE PERMITTED IN: 1.1.NONBEARING PARTITIONS WHERE THE REQUIRED FIRE-RESISTANCE RATING IS 2 HOURS OR LESS. 1.2.NONBEARING EXTERIOR WALLS WHERE FIRE-RESISTANCE-RATED CONSTRUCTION IS NOT REQUIRED.

13. COMBUSTIBLE EXTERIOR WALL COVERINGS, BALCONIES AND SIMILAR PROJECTIONS AND BAY OR ORIEL WINDOWS IN ACCORDANCE WITH CHAPTER 14 AND SECTION 705.2.3.1. 14. BLOCKING SUCH AS FOR HANDRAILS, MILLWORK, CABINETS AND WINDOW AND DOOR FRAMES. 18. NAILING OR FURRING STRIPS AS PERMITTED BY SECTION 803.15.

REFER TO 1BC 2018 SECTION 603.1 FOR COMPLETE LIST

(WAC) TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS: TYPE II-B STRUCTURAL FRAME

1.3.ROOF CONSTRUCTION, INCLUDING GIRDERS, TRUSSES, FRAMING AND DECKING.

BEARING WALL (INTERIOR & EXTERIOR) 0 HOURS NON BEARING WALLS (EXTERIOR) TABLE 602 1 HOUR: X>5FT, 5 FT ≤ 10 FT

0 HOUR: 10 FT ≤ X < 30, X ≥ 30 FT DISTANCE BETWEEN BUILDING IS 80'-6" WITH IMAGINARY LOT LINE AT 40"-3', NO RATING

NON-BEARING WALLS (INTERIOR) 0 HOURS 0 HOURS FLOOR CONSTRUCTION ROOF CONSTRUCTION 0 HOURS

CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES

SECTION 707 FIRE BARRIERS 707.3.10 FIRE AREAS. THE FIRE BARRIERS, FIRE WALLS OR HORIZONTAL ASSEMBLIES, OR COMBINATION THEREOF, SEPARATING A SINGLE OCCUPANCY INTO DIFFERENT FIRE AREAS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THAT INDICATED IN TABLE 707.3.10. THE FIRE BARRIERS, FIRE WALLS OR HORIZONTAL ASSEMBLIES, OR COMBINATION THEREOF, SEPARATING FIRE AREAS OF MIXED OCCUPANCIES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THE HIGHEST VALUE INDICATED IN TABLE 707.3.10 FOR THE OCCUPANCIES UNDER CONSIDERATION.

TABLE 707.3.10 FIRE-RESITANCE RATING REQUIREMENTS FOR FIRE BARRIERS, FIRE WALLS OR HORIZONTAL ASSEMBLIES BETWEEN FIRE AREAS

OCCUPANCY GROUP FIRE-RESISTANCE RATING (HOURS)

2-HOURS *THE 2-HOUR FIRE BARRIER IS A BEST PRACTICE LIFE SAFETY MEASURE ACCORDING TO THE WHOLE BUILDING DESIGN GUIDE, FIRING RANGE. TO SEPARATE THE FIRING RANGE FROM OTHER FUNCTIONS WITHIN THE TRAINING BUILDING. THIS SEPARATION

(WAC) 707.5 CONTINUITY. FIRE BARRIERS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR/CEILING ASSEMBLY BELOW TO THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE AND SHALL BE SECURELY ATTACHED THERETO. SUCH FIRE BARRIERS SHALL BE CONTINUOUS THROUGH CONCEALED SPACE, SUCH AS THE SPACE ABOVE A SUSPENDED CEILING. JOINTS AND VOIDS AT INTERSECTIONS SHALL COMPLY WITH SECTIONS 707.8 AND 707.9.

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714.4 FIRE-RESISTANCE-RATED WALLS. PENETRATIONS INTO OR THROUGH FIRE WALLS, FIRE BARRIERS, SMOKE BARRIER WALLS AND FIRE PARTITIONS SHALL COMPLY WITH SECTIONS 714.4.1 THROUGH 714.4.3. PENETRATIONS IN SMOKE BARRIER WALLS SHALL ALSO

714.4.1 THROUGH PENETRATIONS. THROUGH PENETRATIONS OF FIRE-RESISTANCE-RATED WALLS SHALL COMPLY WITH SECTION 714.4.1.1 EXCEPTION: WHERE THE PENETRATING ITEMS ARE STEEL, FERROUS OR COPPER PIPES, TUBES OR CONDUITS, THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE FIRE-RESIS-TANCE-RATED WALL IS PERMITTED TO BE PROTECTED BY

THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATING.

REGULARLY UNOCCUPIED SPACE

LIMITED ACCESS FOR SPECIALIZED TRAINING

EITHER OF THE FOLLOWING MEASURES: 1.IN CONCRETE OR MASONRY WALLS WHERE THE PENETRATING ITEM IS A MAXIMUM 6-INCH (152 MM) NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144 SQUARE INCHES (0.0929M2), CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE INSTALLED THE FULL THICKNESS OF THE WALL OR THE

2.THE MATERIAL USED TO FILL THE ANNULAR SPACE SHALL PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE (WAC) TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY COTTON WASTE WHEN SUBJECTED TO ASTM E119 OR UL 263 TIME-TEMPERATURE FIRE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT OCCUPANCY LOAD OF SPACE TO THE FIRE-RESISTANCE RATING OF THE CON-STRUCTION PENETRATED.

SECTION 717 DUCTS AND AIR TRANSFER OPENINGS

(WAC) 717.5.2 FIRE BARRIERS. DUCTS AND AIR TRANSFER OPENINGS OF FIRE BARRIERS SHALL BE PROTECTED WITH LISTED FIRE DAMPERS INSTALLED IN ACCORDANCE WITH THEIR LISTING. DUCTS AND AIR TRANSFER OPENINGS SHALL NOT PENETRATE ENCLOSURES FOR INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS, EXCEPT AS PERMITTED BY SECTIONS 1023.5 AND

EXCEPTION: FIRE DAMPERS ARE NOT REQUIRED AT PENETRATIONS OF FIRE BARRIERS WHERE ANY OF THE FOLLOWING APPLY: 1. PENETRATIONS ARE TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263 AS PART OF THE FIRE-RESISTANCE-RATED 2. DUCTS ARE USED AS PART OF AN APPROVED SMOKE CONTROL SYSTEM IN ACCORDANCE WITH SECTION 909 AND WHERE THE USE OF A FIRE DAMPER WOULD INTERFERE WITH THE OPERATION OF A SMOKE CONTROL SYSTEM. 3. SUCH WALLS SHALL HAVE A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS, PENETRATED BY DUCTED HVAC SYSTEMS, IN AREAS OF OTHER THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2. FOR THE PURPOSES OF THIS EXCEPTION, A DUCTED BE COUNTED AS ONE EXIT STAIRWAY.

HVAC SYSTEM SHALL BE A DUCT SYSTEM FOR CONVEYING SUPPLY, RETURN OR EXHAUST AIR AS PART OF THE STRUCTURE'S

HVAC SYSTEM. SUCH A DUCT SYSTEM SHALL BE CONSTRUCTED OF SHEET STEEL NOT LESS THAN NO. 26 GAGE THICKNESS

AND SHALL BE CONTINUOUS WITHOUT OPENINGS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET

CHAPTER 08 INTERIOR FINISHES TABLE 803.13 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (MOST RESTRICTIVE) CORRIDORS AND ENCLOSURE

AND INLET TERMINALS, LOCATED ON THE OPPOSITE SIDE OF THE WALL ASSEMBLY.

FOR EXIT ACCESS STAIRWAYS ROOMS AND ENCLOSED SPACES

CHAPTER 09 FIRE PROTECTION AND LIFE SAFETY SYSTEMS

AUTOMATIC SPRINKLER SYSTEM:

SECTION 903 AUTOMATIC SPRINKLER SYSTEMS. 903.3.1.1 NFPA 13 SPRINKLER SYSTEMS. WHERE THE PROVISIONS OF THIS CODE REQUIRE THAT A BUILDING OR PORTION THEREOF BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH THIS SECTION, SPRINKLERS SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 EXCEPT AS PROVIDED IN SECTIONS 903.3.1.1.1 AND 903.3.1.1.2.

SECTION 906 PORTABLE FIRE EXTINGUISHERS 906.2 GENERAL REQUIREMENTS. PORTABLE FIRE EXTINGUISHERS SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THIS

NFPA 10, CURRENT EDITION, 75' TRAVEL DISTANCE TO FIRE EXTINGUISHER FIRE ALARM AND DETECTION SYSTEM: YES

FIRE EXTINGUISHERS TO BE TYPE 2A10BC, UNLESS OTHERWISE NOTED IN SPECIFICATIONS.

CHAPTER 10 MEANS OF EGRESS

1004.4 MULTIPLE OCCUPANCIES. WHERE A BUILDING CONTAINS TWO OR MORE OCCUPANCIES, THE MEANS OF EGRESS REQUIREMENTS SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY OF THAT SPACE. WHERE TWO OR MORE OCCUPANCIES UTILIZE PORTIONS OF THE SAME MEANS OF EGRESS SYSTEM, THOSE EGRESS COMPONENTS SHALL MEET THE MORE STRINGENT REQUIREMENTS OF ALL OCCUPANCIES THAT ARE SERVED.

TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM 300 GROSS ASSEMBLY (UNCONCENTRATED)

BUSINESS AREAS 150 GROSS CONCENTRATED BUSINESS USE AREAS SEE SECTION 1004.8 EDUCATIONAL (SHOP AND OTHER VOCATIONAL) 50 NET

1004.8 CONCENTRATED BUSINESS USE AREAS. THE OCCUPANT LOAD FACTOR FOR CONCENTRATED BUSINESS USE SHALL BE APPLIED TO TELEPHONE CALL CENTERS, TRADING FLOORS, ELECTRONIC DATA PROCESSING CENTERS AND SIMILAR BUSINESS USE AREAS WITH A HIGHER DENSITY OF OCCUPANTS THAN WOULD NORMALLY BE EXPECTED IN A TYPICAL BUSINESS OCCUPANCY ENVIRONMENT. WHERE TABLE 1020.2 MINMUM CORRIDOR WIDTH APPROVED BY THE BUILDING OFFICIAL, THE OCCUPANT LOAD FOR CONCENTRATED BUSINESS USE AREAS SHALL BE THE ACTUAL OCCUPANT LOAD, BUT NOT LESS THAN ONE OCCUPANT PER 50 SQUARE FEET (4.65 SQ M) OF GROSS OCCUPIABLE FLOOR SPACE.

SECTION 1005 MEANS OF EGRESS SIZING 0.2 INCH PER OCCUPANT AT OTHER EGRESS COMPONENTS

2-HR FIRE BARRIER

MASTER

150 1 BUSINESS

SURFACE MOUNTED

19 OCC

EXIT 7 3 OCC

- AMMUNITION /

TARGET / PROP STORAGE

SHOWER

VESTIBULE

ROOM

1005.5 DISTRIBUTION OF MINIMUM WIDTH AND REQUIRED CAPACITY. WHERE MORE THAN ONE EXIT, OR ACCESS TO MORE THAN ONE EXIT, IS REQUIRED, THE MEANS OF EGRESS SHALL BE CONFIGURED SUCH THAT THE LOSS OF ANY ONE EXIT, OR ACCESS TO ONE EXIT SHALL NOT REDUCE THE AVAILABLE CAPACITY OR WIDTH TO LESS THAN 50 PERCENT OF THE REQUIRED CAPACITY OR WIDTH.

1006.2.1 EGRESS BASED ON OCCUPANT LOAD AND COMMON PATH OF EGRESS TRAVEL DISTANCE. TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1. THE CUMULATIVE OCCUPANT LOAD FROM ADJACENT ROOMS, AREAS OR SPACES SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1004.2.

1. THE NUMBER OF EXITS FROM FOYERS, LOBBIES, VESTIBULES OR SIMILAR SPACES NEED NOT BE BASED ON CUMULATIVE OCCUPANT LOADS FOR AREAS DISCHARGING THROUGH SUCH SPACES, BUT THE CAPACITY OF THE EXITS FROM SUCH SPACES SHALL BE BASED ON APPLICABLE CUMULATIVE OCCUPANT LOADS. 3. UNOCCUPIED MECHANICAL ROOMS AND PENTHOUSES ARE NOT REQUIRED TO COMPLY WITH THE COMMON PATH OF EGRESS TRAVEL DISTANCE MEASUREMENT

/ ELEC

SURFACE MOUNTED

RESTROOM

TACTICS

RESTROOM

223 SF 0 0

SIMULATOR

MAXIMUM OCCUPANT MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE (WITH SPRINKLER SYSTEM) 75 FEET (MOST RESTRICTIVE) 100 FFFT

TABLE 1006.3.2 MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY OCCUPANT LOAD MINIMUM NUMBER OF EXITS OR PER STORY ACCESS TO EXITS FROM STORY

SECTION 1007 EXIT AND EXIT ACCESS DOORWAY CONFIGURATION 1007.1.1 TWO EXITS OR EXIT ACCESS DOORWAYS. WHERE TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS, OR ANY COMBINATION THEREOF, ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS, THEY SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM. INTERLOCKING OR SCISSOR STAIRWAYS SHALL

2.WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2, THE SEPARATION DIS-TANCE SHALL BE NOT LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

SECTION 1009 ACCESSIBLE MEANS OF EGRESS

1009.1 ACCESSIBLE MEANS OF EGRESS REQUIRED. ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH THIS SECTION. ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS. WHERE MORE THAN ONE MEANS OF EGRESS IS REQUIRED BY SECTION 1006.2 OR 1006.3 FROM ANY ACCESSIBLE SPACE, EACH ACCESSIBLE PORTION OF THE SPACE SHALL BE SERVED BY NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS.

1009.2 CONTINUITY AND COMPONENTS. EACH REQUIRED ACCESSIBLE MEANS OF EGRESS SHALL BE CONTINUOUS TO A PUBLIC WAY AND SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPO-NENTS: 1. ACCESSIBLE ROUTES COMPLYING WITH SECTION 1104.

SECTION 1010 DOORS, GATES AND TURNSTILES

1010.1.1 SIZE OF DOORS. THE MINIMUM WIDTH OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES (1.57 RAD), WHERE THIS SECTION REQUIRES A MINIMUM CLEAR OPENING WIDTH OF 32 INCHES (813 MM) AND A DOOR OPENING INCLUDES TWO DOOR LEAVES WITHOUT A MULLION, ONE LEAF SHALL PROVIDE A MINIMUM CLEAR OPENING WIDTH OF 32 INCHES (813 MM). DEGREES DOOR WIDTH CALCULATIONS:

3'-0" DOOR - 2 1/2" (STOP + LEAF) = 33 1/2" / 0.2 = 167 PEOPLE MAXIMUM 6'-0" DOOR - 3 1/2" (STOP + LEAF) = 68 1/2" / 02. = 343 PEOPLE

(WAC) 1010.1.10 PANIC AND FIRE EXIT HARDWARE. SWINGING DOORS SERVING A GROUP H OCCUPANCY AND SWINGING DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP A OR E OCCUPANCY SHALL NOT BE PROVIDED WITH A LATCH OR LOCK OTHER THAN PANIC HARDWARE OR FIRE EXIT HARDWARE.

EXCEPTIONS: 1. A MAIN EXIT OF A GROUP A OCCUPANCY SHALL BE PERMITTED TO HAVE LOCKING DEVICES IN ACCORDANCE WITH SECTION 1010.1.9.4, ITEM 2. 2. DOORS PROVIDED WITH PANIC HARDWARE OR FIRE EXIT HARDWARE AND SERVING A GROUP A OR E OCCUPANCY SHALL BE PERMITTED TO BE ELECTROMAGNETICALLY LOCKED IN ACCORDANCE WITH SECTION 1010.1.9.9 OR 1010.1.9.10. 3. EXIT ACCESS DOORS SERVING OCCUPIED EXTERIOR AREAS SHALL BE PERMITTED TO BE LOCKED IN ACCORDANCE WITH SECTION 1010.1.9.4, ITEM 7. ELECTRICAL ROOMS WITH EQUIPMENT RATED 1,200 AMPERES OR MORE AND OVER 6 FEET (1829 MM) WIDE, AND THAT CONTAIN OVERCURRENT DEVICES, SWITCHING DEVICES OR CONTROL DEVICES WITH EXIT OR EXIT ACCESS DOORS, SHALL BE EQUIPPED WITH PANIC HARDWARE OR FIRE EXIT HARDWARE. THE DOORS SHALL SWING IN THE DIRECTION OF EGRESS

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE OCCUPANCY WITH SPRINKLER SYSTEM 250 FEET (MOST RESTRICTIVE

MINIMUM WIDTH ANY FACILITY NOT LISTED IN THIS TABLE ACCESS TO AND UTILIZATION OF MECHANICAL, PLUMBING OR ELECTRICAL SYSTEMS OR EQUIPMENT 24 INCHES WITH AN OCCUPNAT LOAD OF LESS THAN 50 36 INCHES

> TACTICS TRAINING

ROOM

RECEPTION /

ADMINISTRATIV

118 SF 150 1 BUSINESS

EXIT 6 134 OCC

BREAK ROOM

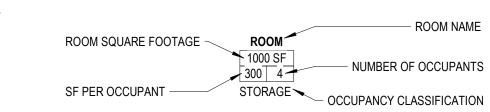
269 SF 15 18 ASSEMBLY UNCONCENTRATED

MEANS OF EGRESS

SECTION 101 1010.1.1 SIZE OF DOORS THE MINIMUM WIDTH OF EACH DOOR OPENING SHAPP BE SUFFICENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH DOOR OPEN 90 DEGREES.

DOOR CALCULATIONS 3'-0" DOOR - 2-1/2" (STOP + LEAF) = 33.5" / .2 = 167 PEOPLE MAX 6'-0" DOOR - 2-1/2" (STOP + LEAF) = 68.5" / .2 = 343 PEOPLE MAX

CODE ROOM TAG LEGEND



CODE PLAN LEGEND

РН	PANIC HARDWARE
$\Theta \otimes$	EXIT SIGNAGE, REFER TO ELECTRICAL FOR LOCATION
FEC	FIRE EXTINGUSHER CABINET
FE ●	FIRE EXTINGUISHER - BRACKET MOUNTED
EX# # OCC	EXIT NUMBER # OF OCCUPANTS EXITING FROM EXIT
#"-#"	MAXIMUM DIAGONAL DISTANCE AND SPARATION BETWEEN EGRESS DOORS

2-HOUR FIRE BARRIER CONSTRUCTION

*THE 2-HOUR FIRE BARRIER IS A BEST PRACTICE LIFE SAFETY MEASURE TO SEPARATE THE FIRING RANGE FROM OTHER FUNCTIONS WITHIN THE TRAINING BUILDING.

OCCUPANT LOADS

2,358 SF 15 158 ASSEMBLY

STORAGE

KNOX BOX FOR POLICE AND FIRE DEPT. LOCATE AT MAIN ENTRY

EXIT 5 2 OCC

CLASSROOM

STORAGE

147 SF 300 1 STORAGE, S-2

STORAGE

164 SF 300 1 STORAGE,

EXIT 4 1 OCC

EXIT#	OCCUPANT LOAD
EXIT 01	59 OCC
EXIT 02	82 OCC
EXIT 03	1 OCC
EXIT 04	1 OCC
EXIT 05	2 OCC
EXIT 06	92 OCC
EXIT 07	3 OCC
EXIT 08	19 OCC
TOTAL:	259 OCC

Men Her STATE OF WASHINGTON

Olympia, Washington 98501

811 First Avenue, Suite 220

Seattle, Washington 98104

KMB Project No. 22022

www.KMB-architects.com

360.352.8883

BUILDING

IRAINING STATION

ORIGINAL SHEET SIZE = 30 x 42 HALF SIZE REDUCTIONS = 15 x 21

06.16.2023

/ 82 OCC

DEPT. LOCATE AT

FACP LOCATED IN FIRE RISER ROOM

SIDE ENTRY

KNOX BOX FOR

INFORMATION

CODE - TRAINING BUILDING FLOOR PLAN

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083613

083626 084213

084313

084413

084523

085653

084229.23

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260533	RACEWAY
260534	METAL CLAD CABLE (TYPE MC) AND FITTINGS
260539	FLOOR OUTLET DEVICES – FLUSH (HUBBELL)
260539	FLOOR OUTLET DEVICES – POKE THROUGH
260573	ELECTRICAL SYSTEM STUDIES
260923	NETWORK DIGITAL LIGHTING CONTROL SYSTEM
262213	DRY TYPE TRANSFORMERS
262413	SWITCHBOARDS
262416	PANELBOARDS
262419	MOTOR CONTROLLERS
262726	SWITCHES AND RECEPTACLES
262813	FUSES
263213.13	EMERGENCY GENERATOR – DIESEL
263353	UNINTERRUPTIBLE POWER SUPPLY (UPS)
263613	3-WAY MANUAL TRANSFER SWITCH
263623	AUTOMATIC TRANSFER SWITCHES TIME DELAY NEUTRAL
264300	SURGE PROTECTIVE DEVICE (SPD)
265000	LIGHTING

DIVISION 27 – COMMUNICATIONS

270000	LOW VOLTAGE SYSTEM GENERAL REQUIREMENTS
270528	PATHWAYS FOR COMMUNICATIONS SYSTEMS
272000	DATA AND VOICE INFRASTRUCTURE
274116.51	TRAINING ROOM AUDIO-VISUAL SYSTEMS
274116.62	COMMUNITY ROOM & EOC AUDIO-VISUAL SYSTEMS
275319	DISTRIBUTED ANTENNA SYSTEM (DAS)

DIVISION 28 - ELECTRICAL SAFETY AND SECURITY

281300	ACCESS CONTROL SYSTEM
281600	INTRUSION ALARM SYSTEM
282300	CLOSE CIRCUIT TELEVISION SYSTEM (CCTV) SYSTEM
283176	FIRE ALARM EMERGENCY COMMUNICATION SYSTEM

DIVISION 31 – EARTHWORK

310000	EARTHWORK
312333	TRENCHING AND BACKFILLING
312500	EROSION AND SEDIMENT CONTROL

DIVISION 32 - EXTERIOR IMPROVEMENTS

321123	AGGREGATE BASE COURSE
321216	ASPHALT PAVING
321313	CONCRETE PAVING
321315	PEDESTRIAN CONCRETE FINISHES
321413	PRECAST CONCRETE UNIT PAVING
<u>321713.19</u>	PRECAST CONCRETE PARKING BUMPERS
321723	PAVEMENT MARKINGS
321813	SYNTHETIC GRASS SURFACING
323300	SITE FURNISHINGS
323301	SITE FINISH CARPENTRY
328400	PLANTING IRRIGATION
329000	PLANTING
329400	SOIL CELLSDIVISION 33 – UTILITIES
331000	WATER UTILITIES
333000	SANITARY SEWERAGE
334000	STORMWATER UTILITIES
334900	BIORETENTION SOIL

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