ONTARIO SCHOOL DISTRICT 8C

REQUEST FOR PROPOSALS FOR ENGINEERING SERVICES

Ontario High School Gym Seismic Rehabilitation

CONTRACT ADMINISTRATOR: Ontario School District 8C Bob Bennett Facilities Manager Phone: 541-881-1274 Fax: 541-889-8553 Email: bbennett@ontario.k12.or.us

www.ontario.k12.or.us

ISSUE DATE: RFP CLOSING (DUE) DATE November 28, 2022 December 20, 2022

NO LATE RESPONSES WILL BE ACCEPTED

SUBMITTAL LOCATION

Ontario School District Office Attention: Bob Bennett, Facilities Manager 195 SW Third Ave. Ontario, OR 97914

Introduction:

Ontario School District 8C (the "District") is seeking proposals from firms for the architectural and structural design and Project Management services for the Seismic Rehabilitation of Ontario High School Gym (the "Project"), located at 1115 W Idaho Ave. in Ontario, OR. In February 2022, the District applied for and received a Seismic Rehabilitation Grant ("SRG") for the project through the Infrastructure Finance Authority: Business Oregon, based on the application prepared by ZCS Engineering & Architecture, Inc. The intent of this RFP is for the consultant to provide an integrated design solution for the entire gymnasium. As part of this grant, a preliminary rehabilitation feasibility report was prepared for the project, this report is enclosed with the RFP. The District was awarded \$2,460,345 for the design and construction of Ontario High School Gym Seismic Rehabilitation.

The gymnasium at Ontario High School was built in the 1950's as part of the original construction that included classroom spaces, an auditorium, library, and administration offices. The single-story structure has a footprint of approximately 14,500-square-feet not including the 4,000-square-foot mezzanine. The building is a reinforced concrete structure with flexible wood diaphragms.

The roof structure consists of 1x sheathing installed diagonally across 2x wood purlins that are supported by a series of glulam arches. The arches run in the north-south direction and are spaced at 21'-6" O.C. There is a significant change in roof slope on the north and south sides of the structure where the secondary roof framing re-orientates to a north-south direction.

The gym floor structure consists of 1x sheathing installed diagonally across 2x wood floor joists that are supported by a series of pony walls on continuous concrete footings. The mezzanine floor structure consists of 1x sheathing installed diagonally across 2x wood floor joists supported by a steel post and beam system. Perimeter walls are constructed with reinforced concrete and are supported by continuous concrete footings.

Each perimeter wall contains multiple concrete pilasters pronounced on the exterior of the structure. The pilasters extend from the foundation up to the roof line. Interior walls below the mezzanine consist of unreinforced clay tile. The building appears to be largely unaltered from its original state. The east concrete wall of the gymnasium consists of a concrete wall supported by full height pilasters. During the initial seismic evaluation of this building significant cracking of the pilasters along this wall line was noticed. The cracks were vertical and near the corners of each pilaster. Initially, it was suspected that the damage was caused by a local moderate earthquake that had occurred a few months prior, but the crack patterns and localized damage was inconsistent with this theory. Upon further inspection, testing and laboratory analysis, it has been determined that this wall of the gymnasium contains high levels of chloride which is causing corrosion of the steel reinforcement bars.

The District intends to use the CM/GC procurement project delivery method for this Project. Pre-Design/Schematic Design would begin immediately upon award and approval of the resulting design contract. Construction is anticipated to start in June 2023 with the Project completion expected by October 2024. The Project may be vacated during the construction period.

Scope of Work:

Perform a seismic evaluation of the building, per American Society of Civil Engineers ("ASCE") Standard 41-17 "Seismic Evaluation of Existing Buildings". Develop rehabilitation and mitigation strategies per ASCE Standard 41-17 and the 2019 Oregon Structural Specialty Code ("OSSC"). It is the wish of the District to rehabilitate the building to meet the rehabilitation objective of "Immediate Occupancy".

Based on research and evaluation efforts performed during the Seismic Rehabilitation Grant ("SRG") in preparation for the project, the structural improvements listed in the enclosed evaluation report should be considered for the existing structure. Preliminary rehabilitation drawings (enclosed) were prepared to assist in defining the necessary scope of potential rehabilitation work for this structure. The following is a potential list of seismic rehabilitation required to seismically rehabilitate the building to meet the requirements outlined in the SRG applications.

- The structure does not contain a complete, well-defined load path, including structural elements and connections that serves to transfer the inertial forces associated with the mass of all elements of the building to the foundation.
- The clear distance between the building being evaluated and any adjacent building is less than 0.5% of the height of the shorter building in low seismicity, 1.0% in moderate seismicity, and 3.0% in high seismicity.
- Interior mezzanine levels are not braced independently from the main structure or are not anchored to the seismic-force-resisting elements of the main structure.
- Exterior concrete or masonry walls that are dependent on flexible diaphragms for lateral support are not anchored for out-of-plane forces at each diaphragm level with steel anchors, reinforcing dowels, or straps that are developed into the diaphragm. Connections have strength to resist the connection force calculated in the Quick Check procedure of Section 4.4.3.7.
- Diaphragms are not connected for transfer of loads to the shear walls, or the connections are not able to develop the lesser of the shear strength of the walls or diaphragms.
- Wall reinforcement is not doweled into the foundation, or the dowels are not able to develop the lesser of the strength of the walls or the uplift capacity of the foundation.
- Secondary components does not have the shear capacity to develop the flexural strength of the components and are compliant with the following items in Table 17-23: COLUMN-BARSPLICES, BEAM-BAR SPLICES, COLUMN-TIE SPACING, STIRRUP SPACING, and STIRRUP AND TIE HOOKS.
- The diaphragms are composed of split-level floors or have expansion joints.
- There are not continuous cross ties between diaphragm chords.
- Not all diagonally sheathed or unblocked wood structural panel diaphragms have horizontal spans less than 30 ft or aspect ratios less than or equal to 3-to-1.
- Unreinforced masonry or hollow-clay tile partitions are not braced at a spacing of at most 10 ft in Low or Moderate Seismicity, or at most 6 ft in High Seismicity.
- Suspended lath and plaster ceilings do not have attachments that resist seismic forces for every 12 ft2 of area.

- Light fixtures on pendant supports are not attached at a spacing equal to or less than 6 ft. Unbraced suspended fixtures are not free to allow a 360-degree range of motion at an angle not less than 45 degrees from horizontal without contacting adjacent components. Alternatively, if rigidly supported and/or braced, they are not free to move with the structure to which they are attached without damaging adjoining components. The connection to the structure is not capable of accommodating the movement without failure.
- Canopies at building exits are not anchored to the structure at a spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 10 ft; for Life Safety in High Seismicity and for Position Retention in any seismicity, 6 ft.
- The connection between the stairs and the structure relies on post-installed anchors in concrete or masonry, or the stair details are not capable of accommodating the drift calculated using the Quick Check procedure of Section 4.4.3.1 for moment frame structures or 0.5in. for all other structures without including any lateral stiffness contribution from the stairs.

The scope of work also includes the following services:

- Develop all construction documents for the project required for a CM/GC or hard bid construction delivery methods.
 - Assist the District in the selection process for a CM/GC firm if CM/GC is selected as the method of delivery. The selection process will include the preparation and administration of the "Facts and Findings Report" and the "RFP" for the proposed alternative contracting method as outlined in the OAR 137-049-0600.
- Assist the District with the entitlement of the projects through the Authorities Having Jurisdiction and the State Historical Preservation Office.
- Provide all construction administration services necessary for the implementation of the projects. Services include but are not limited to: Administering project logs, RFI administration, manages progress meetings, submittal review, change order review and verification of certified pay requests.
- Assist District Staff with SRG reporting requirements for the project as required.

Selection Process:

This Request for Proposals ("RFP") and the selection process will be conducted pursuant to the terms of this RFP, the Oregon Attorney General's Model Rules for Consultant Selection, OAR Chapter 137, Division 48, and the District's applicable Board Policies.

Compensation:

Compensation will be based on a total "not-to-exceed" amount for services and reimbursable expenses, with "not-to-exceed" maximums for the following individual phases of the design: Pre-Design/ Schematic Design, Design Development, Construction Documents, Bidding, Construction Administration, including record documentation. Project Management services are requested in addition to the individual phase's list above. The amount of compensation will be negotiated with the Apparent Successful Proposer.

Proposal Requirements:

The Proposer and all firms, subsidiaries and individuals providing professional services shall be currently licensed to practice in each of their respective areas of professional expertise in the State of Oregon, and shall comply with all State of Oregon Architect and Professional Engineer licensure requirements.

The submittal must include the following, in addition to what is required to comply with the Evaluation Criteria below:

- The firm's name, address, phone number, and facsimile number;
- The name of the contact person within the firm and his/her email address;
- A list of the firm's key personnel who would be assigned to this Project, by discipline;
- The name and Oregon registration number of the Project engineer who will serve as the Engineer of Record;
- The names of additional Project engineer(s) the firm proposes to provide services on this project, along with specific projects each of these persons has worked on in the past three years;
- Illustrations or photographs of at least three (3) relevant projects completed by the firm and involving the above named individuals; and
- The construction cost and building area (in gross square feet) of each reference project;
- Date of completion of each reference project;
- Location of each reference project;
- The function of each reference project;
- The construction delivery method used for each reference project;
- Whether the project was completed on schedule and within the budget or not;
- Responsibilities of those involved on each reference project who would provide services on these projects;
- Name, address and current telephone number of the owner representative most appropriate to discuss your firm's performance on each reference project;
- A Gantt chart providing a proposed schedule for the Pre-Design/Schematic Design, Design Development, and Construction Documents phases for each project.

If awarded the Contract, the Proposer must accept, as Contract performance obligations, the duty to actively pursue the plans as set forth in the Proposer's response.

Evaluation Criteria:

Please indicate in writing the following information about your firm's ability and desire to perform this work. Firms will be rated based upon the weight assigned to each item as noted in parentheses at the end of each statement below.

- Describe your firm's recent (past ten years) experience designing renovations of education facilities, working within a campus, and implanting the campus's design criteria. Use specific examples. Include information about the size, construction type, building uses, construction budget, construction delivery method, and project timeline/completion date. (30)
- Identify the sub-consultants and the key personnel of the sub-consultants that you propose to use on this project. Describe their recent (past ten years) experience, and their specific role in designing similar facilities. Identify your firm's role in each of these projects (if applicable). Include information about the size, construction type, building uses, construction budget, and project timeline/completion date. (5)
- Past record of performance on contracts with governmental agencies and private owners with respect to such factors as cost control, quality of work, ability to meet schedules, and contract administration. Three (3) references must be provided, preferably for projects of similar type and size. (20)
- Past performance on projects funded by the Seismic Rehabilitation Program. (25)
- Availability to and familiarity with the area in which the Project is located, including knowledge of design and construction techniques unique to the area. (5)
- Proposer's plan to maximize and document local participation. (10)
- Proposed cost management techniques to be employed. (5)

Evaluation Process:

The selection committee will score each submittal on the basis of responses to the evaluation categories. Submittals will be rated based upon the weights assigned to each item as noted in the parentheses at the end of the categories.

Each category will be assigned a weight between 0 and 30. Each member of the evaluation committee will rank each firm in each category between 0 and 5, and multiply that number by the weight assigned to the category. The individual evaluation committee members will then total the weighted score from all of the criteria to obtain the total score. The result of this total score will be used to rank all respondents.

The RFP also requires reference information for your firm. The District will utilize this information and any other independently obtained references that can provide background on the firm. This information will not be separately scored, but results obtained from these and/or other reference checks will be utilized in evaluating and scoring in the other categories and in the final ranking.

The evaluation committee will meet and use the individual evaluation committee member rankings as a beginning of their discussion. The discussion of the responses will include firm strengths and weaknesses and the individual evaluation committee member scorings. The committee reserves the option to interview finalists as ranked from the results of the evaluation committee discussion and scoring.

Selection Procedure and Timetable:

The selection procedure described below will be used to evaluate the capabilities of interested firms to provide the professional services to the District for this Project.

November 28, 2022	Issue RFP
December 5, 2022 @ 1:00 p.m. MDT	[Mandatory/Either on site or virtual] Pre-proposal
conference. Site visit in person on request N	lo virtual tour available
December 9, 2022 @ 1:00 p.m. MDT	Questions and Solicitation Protests Deadline
December 13, 2022	Owner's written response to questions
December 20, 2022 @ 1:00 p.m. MDT	RFP response due
To Be Determined	Optional Interviews with Selection Committee
January 5, 2023	Notice of Intent to Award
January 12, 2023	Selection Protest Deadline
January 16, 2023	Board Action to Approve Contract
January 23, 2023	District Finalized Contract with Successful
Proposer	

Submission:

Submit one original and three (3) copies of your written proposal, along with an electronic version on thumb drive, to be received by the closing date and time listed in this document to:

Ontario School District Attention: Bob Bennett, Facilities Manager 195 SW Third Ave. Ontario, OR 97914 Phone: 541-881-1274 Fax: 541-889-8553

Your response must be contained in a document not to exceed fifteen (15) single-sided pages including pictures, charts, graphs, tables and text the firm deems appropriate to be part of the review of the firm's response. Resumes of key individuals proposed to be involved in this project are exempted from the 15-page limit and should be appended to the end of your response. No supplemental information to the 15-page Proposal will be allowed. Appended resumes of the proposed key individuals, along with a transmittal letter, table of contents, front and back covers, and blank section/numerical dividers, etc., will not be counted in the 15-page limit.

Information shall be presented in the same order as the above evaluation criteria. The response should be submitted in soft-bound (comb or spiral, spiral preferred – no three-ring binders) format. The basic text information of the response should be presented in standard business font size (minimum 10-point),

and reasonable (prefer 1 (one) inch) margins. Your response must be signed by an officer of your firm with the authority to commit the firm.

The District may reject any submittal not in compliance with all prescribed public bidding procedures and requirements, and may cancel this solicitation or reject for good cause, all responses upon finding by The District that it is in the public interest to do so.

Please note that throughout this Project, the District will not accept responses or queries that require the District to pay the cost of production or delivery.

Telephone, facsimile, or electronically transmitted submittals will not be accepted. Responses received after the closing date and time will not be considered.

Questions:

All questions and contacts with the District regarding any information in this RFP must be addressed in written form to the Contract Administrator at the address, email or fax listed in this document.

Solicitation Protests:

Respondents may submit a written request for clarification or change or protest of particular solicitation provisions and specifications and contract terms and conditions (including comments on any specifications that a firm believes limits competition) to the Contract Administrator at the address, email or fax listed in this document. Such requests and protests must be received no later than 1:00 pm, December 9, 2022. Such requests or protests must state the reasons for the request or protest and any proposed changes to the solicitation provisions and specifications and contract terms and conditions. Failure to file a protest by this time will be deemed a waiver of any claim by a respondent. The District will issue a written disposition of each such protest no less than three (3) business days before proposals are due. If the District upholds the protest, in whole or in part, the District may, in its sole discretion, issue an addendum reflecting its disposition or take other appropriate action.

Change or Modification:

Any change or modification to the specifications or the procurement process will be in the form of an addendum to the RFP and will be made available to all firms via email from the Contract Administrator. No information received in any manner different than as described herein will serve to change the RFP in any way, regardless of the source of the information. Any request for clarification or change or protest of anything contained in an addendum must be received by the date and time stated in the addendum, or they will not be considered.

Selection Protests:

Any respondent to this RFP who claims to have been adversely affected or aggrieved by the selection of a competing respondent may submit a written protest of the selection to the Contract Administrator at the following address within seven days after notification of that selection:

Ontario School District Bob Bennett, Facilities Manager 195 SW Third Ave. Ontario, OR 97914 Phone: 541-881-1274 Fax: 541-889-8553 Email: bbennett@ontario.k12.or.us

Any such protests received by the Contract Administrator after the seven days will not be considered. The protest must state clearly the basis (or bases) for the protest and any legal authority in support thereof. At the request of the protester, a hearing will be conducted before District staff. At such hearing, the protester and other interested parties will have the opportunity to appear and make an oral presentation of the basis for protest. The Director of Business Services will either uphold or deny the protest. If the protest is denied, the District will proceed to award the Contract as planned. The selection decision notification will be made by the Contract Administrator via email.

Proprietary Information:

The District will retain this RFP and one copy of each original response received, together with copies of all documents pertaining to the award of a contract. These documents will be made part of a file or record, which will be open to public inspection after responder selection and award is announced. If a response contains any information that is considered a trade secret under ORS 192.501(2), mark each sheet with the following legend: "This data constitutes a trade secret under ORS 192.501(2), and must not be disclosed except in accordance with the Oregon Public Records Law, ORS Chapter 192."

The Oregon Public Records Law exempts from disclosure only bone fide trade secrets, and the exception from disclosure applies only "unless the public interest requires disclosure in the particular instance". Therefore, non-disclosure of documents or any portion of a document submitted as part of a response may depend upon official or judicial determination made pursuant to the Public Records Law.

In order to facilitate public inspection of the non-confidential portion of the response, material designated as confidential must accompany the response, but must be readily separable from it. Prices, makes, model or catalog numbers of items offered, scheduled delivery dates, and terms of payment will be publicly available regardless of any designation to the contrary. Any response marked as a trade secret in its entirety will be considered non-responsive and will be rejected.

Project Contract:

The District is seeking to award a contract to an engineering firm for programming, schematic design, design development, construction documents, bidding, and construction phases. The successful proposer is required to provide and execute a contract satisfactory to the District. Exhibit B includes a copy of the draft "Professional Services Contract".

Certification of Compliance with Tax Laws:

By submission of your proposal, the signatory (a duly authorized representative of the submitting firm) must certify that the firm is not, to the best of their knowledge, in violation of any Oregon tax law. For purpose of this certification, "Oregon Tax Laws" means a state tax imposed by ORS 320.005 to 320.150 and 403.200 to 403.250, ORS Chapters 118, 314, 316, 317, 318, 321 and 323; the elderly rental

assistance program under ORS 310.630 to 310.706; and local taxes administered by the Oregon Department of Revenue under ORS 305.620.

Insurance Provisions:

During the term of the resulting contract, the successful proposer will be required to maintain in full force, at its own expense, from insurance companies authorized to transact business of insurance in the state of Oregon, each insurance coverage/policy as set forth in the contract.

ESB/MBE/WBE:

The District is committed to increasing opportunities for Emerging Small Businesses and Minority and Women Owned Businesses, and the District strongly encourages its consultants to utilize these businesses in providing services and materials for the District contracts and projects.

Additional Requirements:

Pursuant to OAR 580-061, by submitting a proposal, the proposer certifies that the proposer has not discriminated against Minority, Women or Emerging Small Business Enterprises in obtaining any required subcontracts.

Pursuant to OAR 580-061-0040, Proposers are hereby notified that policies applicable to consultants and contractors have been adopted that prohibit sexual harassment and that proposers and their employees are required to adhere to the District's policy prohibiting sexual harassment in their interactions.

Exhibits:

Exhibit A - Structural Seismic Evaluation Report (including Preliminary Rehabilitation Drawings) prepared by ZCS Engineering & Architecture, Inc. – Ontario High School Gym

Exhibit B - Draft "Professional Services Contract"

End of RFP



STRUCTURAL SEISMIC EVALUATION REPORT FOR:

ONTARIO HIGH SCHOOL GYMNASIUM

1115 W Idaho Ave, Ontario, OR 97914 Ontario School District

PREPARED BY ZCS ENGINEERING & ARCHITECTURE

Matthew R. Smith, PE, SE | Principal In Charge 524 Main Street, Suite 2, Oregon City, OR 97045 T: 503.659.2205 MattS@zcsea.com



Project Summary Information							
Building Part	Building Part Name	Included in Retrofit	Year Built	Building Type***	Nonstructural Retrofits Included in Scope Y/N***	Previous Seismic Retrofit Y/N*** (Year if Yes)	
А	Gym	Y	1950	C2a	Y	Ν	
В	Classrooms	Ν	1950	C2a			
С	Skill Center	Ν	1980	W2			
D	Science Building	Ν	2011	RM1			
Е	Vocational	Ν	1979	RM1			
F	Music	Ν	1980	RM1			
*** Entries required ONLY for building parts included in proposed seismic retrofit						eismic retrofit	
Nonstructural deficiencies posing life safety risk MUST be included in the scope of work and budget.							
Seismic fragility inputs for existing buildings with previous seismic retrofits MUST be adjusted to reflect previous seismic retrofit measures completed for a building part.							
Total Ret	rofit Cost	\$2,460,34	15				
Retrofit S	quare Feet	18,500	18,500				
Retrofit C	cost per						
Square Foot \$132.99							
Is the campus within a tsunami, FEMA flood zone, landslide/slope instability, liquefaction potential or other high hazard area? If so, provide documentation.				Yes, See Report			

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Engineering Report Checklist				
\boxtimes	Engineering Report Cover Page			
\boxtimes	Project Summary Page	0		
\boxtimes	Building Parts Identification	Appendix E, G0.0		
\boxtimes	Statement of the Performance Objective	8		
	Summary of Deficiencies			
\boxtimes	Structural Seismic Deficiencies	10		
\boxtimes	Nonstructural Seismic Deficiencies	11		
	Summary of Mitigation/Retrofit			
\boxtimes	Structural Mitigation/Retrofit	13		
\boxtimes	Nonstructural Mitigation/Retrofit	14		
	Summary Construction Cost Estimate			
\boxtimes	Direct Cost	Appendix C		
\boxtimes	Indirect Soft Cost	Appendix C		
\boxtimes	Certification Statement by Engineer	15		
	ASCE 41-17 Tier 1 Checklist			
\boxtimes	Basic Configuration Checklist	Appendix B		
\boxtimes	Building System Structural Checklist	Appendix B		
\boxtimes	Nonstructural Checklist	Appendix B		
\boxtimes	Retrofit Drawings & Sketches	Appendix E		
\boxtimes	Itemized Construction Cost Estimate	Appendix C		

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Appendix E: Schematic Seismic Retrofit Drawings

1.0 Executive Summary

The Ontario School District 8C is located in Ontario, Oregon in Malheur County. The District operates seven schools located within the community including the property of interest, Ontario High School Gymnasium. The District has retained ZCS Engineering and Architecture (ZCS) to perform a seismic evaluation of Ontario High School Gymnasium that provides the District with an objective, comprehensive analysis of the condition of the building's seismic resisting systems. The purpose of the evaluation is to determine the seismic lateral resisting system deficiencies when compared to buildings designed using modern building codes. This evaluation was performed in accordance with the American Society of Civil Engineers "Seismic Rehabilitation of Existing Buildings ASCE/SEI 41-17".

Ontario High School Gymnasium is located at 1115 W Idaho Avenue in [Keywords]Oregon (See Sheet G0.0 – Vicinity Map). The 18,500-square-foot concrete gymnasium was built in the 1950's as part of the original construction. After the original construction the school underwent four large scale additions, a 28,600-square-foot masonry vocational-tech building constructed in 1979, a 2,100-square-foot wood framed skill center and a 5,800-square-foot masonry music/locker room both built in the 1980's, and a 16,500-square-foot mezzanine, located on the west side of the building, containing locker room spaces. The structure is located on the north side of the campus, south of the vocational-tech building. This report is limited to the gymnasium building only. No other portions of the building are included in this report.

The evaluation of the facility indicates rehabilitation of existing lateral system components are necessary to meet the following requirements as outlined in ASCE 41-17:

- Emergency service buildings and school areas that may be used as emergency shelters shall be categorized as Risk Category IV and evaluated to meet:
 - The Life Safety structural performance and Hazards Reduced nonstructural performance level for BSE-2E level, AND
 - The Immediate Occupancy structural performance and Position Retention nonstructural performance level for BSE-1E level.

See section 3.3 for performance level definitions.

The following is a brief list of seismic deficiencies encountered:

- Existing shear walls are not adequately connected to the diaphragms to transfer inplane shear.
- Existing concrete walls are not adequately connected to the diaphragms to transfer wall anchorage forces



- Interior clay tile walls below the mezzanine are not adequately connected to the floor diaphragm
- There is an unsupported discontinuity in the roof diaphragm at the change in roof slope on the north and south sides of the building.
- A vertical offset exists between the taller gym building and the surrounding structure. This vertical offset can cause pounding between the shorter surrounding structure and the taller gym building.
- The mezzanine is not adequately connected to the surrounding concrete walls to transfer in-plane and out-of-plane seismic forces.
- The east wall of the mezzanine does not have the capacity to resist the forces generated during a seismic event.
- The existing concrete walls are not doweled into the continuous footing creating a break in the lateral load path.
- The pilasters on the east and west walls of the gym are not detailed to support the deflections induced in the pilaster during a seismic event.
- The existing mezzanine floor diaphragm is over-spanned past the recommended amount.
- The existing clay tile walls below the mezzanine do not have the capacity to resist out-of-plane seismic forces.
- Diaphragms do not have cross ties that are required to transfer anchorage forces across.
- The existing roof diaphragm is over-spanned past the recommended amount.
- The pilasters on the east wall of the gymnasium are exhibiting signs of reinforcement corrosion.

Recommendations mitigating the known deficiencies determined by our analysis are outlined in section 4.0 of this report. In addition to the rehabilitation recommendations, we prepared schematic seismic retrofit drawings to convey the intent of the rehabilitation effort. These drawings are included in Appendix E.

To help the District understand the magnitude of the rehabilitation effort and secure funding sources for the seismic system rehabilitation of the building, a preliminary construction cost estimate was developed. With the assistance of a seismic retrofit contractor a total construction cost of **\$2,460,345** including all soft costs associated with architecture/engineering, permitting, and district project management was developed. Refer to section 5.0 of the report body.

In addition to the construction cost estimation efforts we performed a "Benefit Cost Analysis" using the tool provided by the State of Oregon Infrastructure Finance Authority. The building has a benefit cost score of **0.337**. Refer to Appendix D for BCA worksheets.



The gym is of significant importance to the community, as well as neighboring communities in Malheur County. The current gravity and lateral force resisting systems do not meet the current prescribed seismic requirements and may not be suitable for use as a shelter after a seismic event. The structural and nonstructural deficiencies present in the building would likely be the cause of significant damage to the structure, but would be rectified with the assistance of this grant, allowing the building to perform well in a seismic event, and be available for use as an emergency shelter.

It is our final recommendation that given the BCA score and the general condition of the seismic resisting systems, this building is an excellent candidate to be rehabilitated to meet the currently prescribed seismic demands for Life Safety (BSE-2E) and Immediate Occupancy (BSE-1E) per ASCE 41-17. Once rehabilitated, this building will meet the needs of the District and community for future generations.

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2.0 Project Introduction

Ontario School District 8C is centrally located in Ontario, Oregon in Malheur County. Ontario High School Gymnasium is located at 1115 W Idaho Avenue in [Keywords]Oregon (See Sheet G0.0 – Vicinity Map).

The District has retained ZCS Engineering and Architecture (ZCS) to perform a seismic evaluation of Ontario High School Gymnasium. The purpose of the evaluation is to provide the District with an objective, comprehensive analysis of the condition of the existing seismic force resisting systems of the facility when compared to a building constructed using modern building codes. In addition to evaluating the building's seismic performance, schematic seismic retrofit plans have been developed. The rehabilitation plans have been developed using our extensive knowledge of seismic rehabilitation and are intended to meet the objectives and the level of performance of Life Safety (BSE-2E) and Immediate Occupancy (BSE-1E) based on the ASCE 41-17 requirements. Based on the seismic evaluation and schematic rehabilitation design drawings, a preliminary construction cost estimate was developed. Based on the preliminary construction cost estimate, a benefit cost analysis was prepared to help the District determine whether or not the rehabilitation efforts outlined in this report are financially responsible.

This work was conducted at the request of Bob Bennett, Maintenance Director, under an engineering services contract between the District and ZCS.

2.1 Scope of Work

The following scope of work was developed to meet the objectives outlined above.

Seismic Evaluation & Preliminary Rehabilitation Services:

- Review original building construction drawings to determine existing structural systems and areas of concern.
- Perform site visits of the structure to observe structural systems and visually review structural condition and deficiencies.
- Observe lateral system (seismic) components and load path.
- Observe gravity system components and load path.
- Observe for damage and failing elements.
- Verify original building drawings for use in developing schematic level as-builts.
- Evaluate existing construction based on visual observations and available asconstructed documentation against ASCE 41 Tier 1 requirements.
- Collate findings and perform preliminary calculations to assist in the determination of each building's seismic deficiencies.



• Prepare an evaluation report for the facility identifying the structural integrity and seismic deficiencies stamped by a registered Structural Engineer licensed in the State of Oregon.

Preliminary Construction Cost Consulting Services:

- Develop project base sheets based on the District provided original drawings.
- Prepare conceptual rehabilitation drawings based on ASCE 41 guidelines to convey the intent of rehabilitation recommendations.
- Prepare a project cost estimate based on historic projects of similar scope and magnitude.
- Review constructability and cost estimate with a licensed contractor.
- Revise plans based on contractor input as required to optimize the efficiency of the rehabilitation plan and develop final construction cost recommendations.
- Prepare cost benefit analysis based on SRGP methodologies
 *Financial and enrollment information has been provided by the District
- Summarize findings in final report package stamped by a registered Structural Engineer licensed in the State of Oregon.



3.0 Structural Evaluation

3.1 Introduction

ZCS was tasked with evaluating the lateral force resisting system of the facility. The structure reviewed in our analysis only includes the gymnasium of Ontario High School. The gymnasium was built in the 1950's as part of the original construction that included classroom spaces, an auditorium, library, and administration offices. The single-story structure has a footprint of approximately 14,500-square-feet not including the 4,000-square-foot mezzanine. The building is a reinforced concrete structure with flexible wood diaphragms. The roof structure consists of 1x sheathing installed diagonally across 2x wood purlins that are supported by a series of glulam arches. The arches run in the north-south direction and are spaced at 21'-6" O.C. There is a significant change in roof slope on the north and south sides of the structure where the secondary roof framing re-orientates to a north-south direction. The gym floor structure consists of 1x sheathing installed diagonally across 2x wood floor joists that are supported by a series of pony walls on continuous concrete footings. The mezzanine floor structure consists of 1x sheathing installed diagonally across 2x wood floor joists supported by a steel post and beam system. Perimeter walls are constructed with reinforced concrete and are supported by continuous concrete footings. Each perimeter wall contains multiple concrete pilasters pronounced on the exterior of the structure. The pilasters extend from the foundation up to the roof line. Interior walls below the mezzanine consist of unreinforced clay tile. The building appears to be largely unaltered from its original state.

3.3 Structural Evaluation

The following outlines the evaluation of the existing structural components of the building. The evaluation includes site observations of the existing structural elements and follows the guidelines outlined in the American Society of Civil Engineer's "Seismic Evaluation of Existing Buildings – ASCE 41-17". This manual is the required evaluation tool per the Seismic Rehabilitation Grant Program through Business Oregon Infrastructure Finance Authority. Per ASCE 41-17 a Tier 1 evaluation has been performed. The purpose of a Tier 1 evaluation is to provide "Quick Checks" to properly evaluate a building and determine deficiencies related to the lateral resisting elements.

It is the intent of the District, as part of this study, to determine the structural deficiencies of the building as compared to current prescribed loading and detailing requirements for lateral (wind/seismic) loading to a performance level of "Life Safety (BSE-2E)" and "Immediate Occupancy (BSE-1E)" per ASCE 41-17. The level of performance is defined per ASCE 41-17 as:

"Structural Performance Level S-3, Life Safety, means the post-earthquake damage state in which significant damage to the structure has occurred but some margin against either partial or total structural collapse remains. Some structural elements and components are severely damaged, but this damage has not resulted in large falling debris hazards, either inside or outside the building. Injuries might occur during the earthquake; however, the overall risk of life-threatening injury as a result of structural damage is expected to be low. It should be possible to repair the structure; however, for economic reasons, this repair might not be practical. Although the damaged structure is not an imminent collapse risk, it would be prudent to implement structural repairs or install temporary bracing before reoccupancy.

"Structural performance level, Immediate Occupancy, means the post-earthquake damage state in which only very limited structural damage has occurred. The basic vertical- and lateralforce resisting systems of the building retain nearly all of their pre-earthquake strength and stiffness. The risk of life threatening injury as a result of structural damage is very low and although some minor structural repairs may be appropriate, these would generally not be required prior to reoccupancy."

Per ASCE 41-17 a seismic performance objective is required. The performance levels selected for this evaluation in order to obtain a performance level of "Life Safety" was the BSE-2E design level as defined in ASCE 41-17 section 2.4.1.3. The BSE-2E design earthquake has a probability of occurring once in every 975 years, or 5% chance in 50 years. This design level earthquake represents ground motions approximately 75% as large as those prescribed for new buildings. In addition, to obtain a performance level of "Immediate Occupancy," the BSE-1E design level as defined in the ASCE 41-17 section 2.4.1.4 was selected. The BSE-1E design earthquake has the probability of occurring once in every 227 years or 20% chance in 50 years. We feel this provides an appropriate level of improvement for this facility.

Lateral resisting systems work in conjunction with gravity framing systems. As such, the existing gravity framing system was also reviewed for structural deficiencies during our site observations. Section 3.3.3 outlines the existing gravity system and its structural deficiencies found during the evaluation.

Geologic hazards were assessed as part of our engineering evaluation. The main hazards evaluated in our analysis included liquefaction, slope failure, and surface fault rupture potential. These potential hazards were evaluated using ASCE 41-17 guidelines, as well as information provided by the online Oregon HazVu: Statewide Geohazards Viewer, maintained by DOGAMI. Results from the HazVu analysis are included in Appendix B. Please note that the liquefaction hazard maps shows the structure located within an area identified as having a "moderate" level of earthquake liquefaction hazard. Also included in appendix B is a geotechnical report by Materials Testing & Inspection dated 8 March 2011 that provides additional site specific investigation. The report concludes conventional shallow foundations are appropriate and that special measures for the mitigation of liquefaction are not required.

3.3.1 Lateral Resisting Systems

After reviewing the facility and the existing drawings we have determined the lateral system is defined as Concrete Shear Walls with Flexible Diaphragms (C2a). Per ASCE 41 C2a lateral system is defined as:

Concrete Shear Walls C2- These buildings have floor and roof framing that consists of cast-inplace concrete slabs, concrete beams, one-way joists, two-way waffle joists, or flat slabs. Buildings may also have steel beams, columns, and concrete slabs for the gravity framing. Floors are supported on concrete columns or bearing walls. Seismic forces are resisted by cast-in-place concrete shear walls. In older construction, shear walls are lightly reinforced but often extend throughout the building. In more recent construction, shear walls occur in isolated locations, are more heavily reinforced, and have concrete slabs that are stiff relative to the walls. The foundation system may consist of a variety of elements.

C2a (with flexible diaphragms) – These buildings are similar to C2 buildings, except that diaphragms consist of wood sheathing, or have large aspect ratios, and are flexible relative to the walls.

3.3.3 Lateral Resisting Element Deficiencies

The following lateral resisting element deficiencies are based on visual observations of the existing structural elements and the structural analysis performed during the Tier 1 "Quick Checks" of the ASCE 41-17. The Tier 1 checklists are attached in Appendix B. The following outlines the deficiencies for each portion of the facility.

- S1. Existing shear walls are not adequately connected to the diaphragms to transfer inplane shear.
- S2. Existing concrete walls are not adequately connected to the diaphragms to transfer wall anchorage forces
- S3. Interior clay tile walls below the mezzanine are not adequately connected to the floor diaphragm
- S4. There is an unsupported discontinuity in the roof diaphragm at the change in roof slope on the north and south sides of the building.
- S5. A vertical offset exists between the taller gym building and the surrounding structure. This vertical offset can cause pounding between the shorter surrounding structure and the taller gym building.
- S6. The mezzanine is not adequately connected to the surrounding concrete walls to transfer in-plane and out-of-plane seismic forces.
- S7. The east wall of the mezzanine does not have the capacity to resist the forces generated during a seismic event.
- S8. The existing concrete walls are not doweled into the continuous footing creating a break in the lateral load path.



- S9. The pilasters on the east and west walls of the gym are not detailed to support the deflections induced in the pilaster during a seismic event.
- S10. The existing mezzanine floor diaphragm is over-spanned past the recommended amount.
- S11. The existing clay tile walls below the mezzanine do not have the capacity to resist out-of-plane seismic forces.
- S12. Diaphragms do not have cross ties that are required to transfer anchorage forces across.
- S13. The existing roof diaphragm is over-spanned past the recommended amount.

3.3.3 Gravity Resisting Element Deficiencies

The following gravity resisting deficiencies are based on visual observations of the existing structural elements. No formal structural analysis was performed during this evaluation of the gravity resisting elements

S14. The pilasters on the east wall of the gymnasium are exhibiting signs of reinforcement corrosion.

3.3.4 Evaluation of Incidental Items

Incidental, non-structural items can play a major role in the overall expense of rehabilitating an existing building. These costs can be significant, and can be very difficult to estimate prior to construction.

- N1. Unreinforced masonry partitions are not adequately braced.
- N2. Suspended lath and plaster ceilings are not adequately braced.
- N3. Light fixtures on pendent supports are not adequately braced.
- N4. Canopies at building exits are not properly anchored to the building.
- N5. Stairs are not properly anchored to the building.
- N6. Glass block presents a falling hazard to occupants during strong shaking.

Based upon ZCS's previous experience and discussions with site personnel the building contains some form of hazardous material. These materials will need to be dealt with on a case-by-case basis as they are encountered during the project.



4.0 Seismic Rehabilitation Recommendations

The following structural improvements are required to resolve the deficiencies noted in section 3.3.3. These improvements are detailed below and in the attached schematic seismic rehabilitation drawings found in Appendix E. These drawings were prepared to assist in defining the rehabilitation scope of work.

4.0.1 Rehabilitation Recommendations for Lateral Resisting Elements (See Section 3.3.3)

- S1. Demolish the existing roofing and interior finishes as required to expose the top of wall condition. Provide new in-plane shear devices to connect the roof diaphragm to the vertical lateral elements of the building.
- S2. Demolish the existing roofing and interior finishes as required to expose the top of wall condition. Provide new out-of-plane anchorage devices regularly spaced and sized to transfer anchorage forces into the roof diaphragm.
- S3. Provide new wood framed inset walls. New walls are to be stitch tied to the existing clay tile walls and anchored to existing slab-on-grade and ceiling framing.
- S4. Provide a new system of steel x-bracing, sized and detailed to transfer seismic forces across the discontinuity.
- S5. Seismically isolate the gym building from the surrounding structures.
- S6. Demolish the existing interior finishes below the mezzanine as required to expose the existing framing to wall connection. Provide new in-plane and out-of-plane connections from the floor framing to the existing concrete walls.
- S7. Provide new inset shear walls to increase the shear resistance of the eastern edge of the mezzanine.
- S8. At primary gym area provide new steel angle shear devices connecting the existing concrete wall and footing. At the locker room area, demolish the existing slab-on-grade and provide similar angle shear device to connect the existing concrete wall and footing.
- S9. Demolish and replace the existing pilasters with new concrete sections drilled and bonded into the existing concrete walls.
- S10. Provide new inset wood framed shear walls to decrease the span of the mezzanine diaphragm.
- S11. See S3.
- S12. Provide new structural connections and sub-diaphragms to ensure anchorage loads can develop into structural elements continuous across the diaphragm.
- S13. Demolish and remove the existing roofing material to expose the existing diagonal sheathing. Install new wood structural panels over the existing sheathing.



4.0.2 Rehabilitation Recommendations for Gravity Resisting Systems and General Observations (See Section 3.3.3)

S14. See S9.

4.0.3 Rehabilitation Recommendations for Incidental Items (See Section 3.2.4)

- N1. See S3.
- N2. Demolish and replace existing lath and plaster ceiling with new dropped ceiling.
- N3. Provide bracing to existing light fixtures on pendant supports.
- N4. Provide adequate anchorage between the canopy and supporting concrete wall.
- N5. Provide adequate anchorage between the stairs and the supporting concrete wall.
- N6. Remove glass block and replace with new infill.



5.0 Preliminary Construction Cost Estimate

The attached engineer's opinion of probable cost has been developed by ZCS for Ontario High School Gymnasium. ZCS has a successful record of completing seismic rehabilitation projects within the State of Oregon. The prices provided in the attached cost estimate have been developed using the extensive list of past projects as a baseline for this project. These prices are based on Oregon BOLI wage rates. The cost estimate is broken down into multiple line items associated with each major task (general conditions, foundation, structural steel, MEP, etc) associated with the rehabilitation. Additional line items are included for design associated permit costs, and owner construction management.

The generation of the preliminary construction cost estimate line item costs, were reviewed with a local construction company representative who has participated in similar construction projects. This representative is a highly qualified commercial contractor that has worked on multiple essential facilities and performed seismic retrofits to existing structures. They reviewed the values presented in the construction cost estimate, and provided insight into current construction costs from a contractor's perspective. After final review the preliminary opinion of probable cost is **\$2,460,345**.

The engineer responsible for the evaluation of the building and design of the retrofit scheme has reviewed the cost estimate and deemed it to be valid and accurate. The cost estimate includes mitigation of all the seismic deficiencies in the retrofit scope of work through inclusion of scope of work elements identified in the report and plans. To the best of our knowledge, based on known and readily identifiable existing conditions, the cost estimate is all inclusive of items required to perform the retrofit and will result in a project that can be constructed within the proposed budget.



6.0 Benefit Cost Analysis

The provided benefit-cost analysis (BCA) included in Appendix D, has been prepared by ZCS using the BCA tool as provided by the State of Oregon Infrastructure Finance Authority. The costs associated with the building replacement value, contents replacement value, and occupancy values have been developed by District staff using recent data.

The Ontario High School Gymnasium was surveyed during the statewide assessment of emergency buildings performed by Department of Geology, Mineral and Industries' (DOGAMI) Rapid Visual Screening (RVS) process in 2005 as part of senate bill 2. The gym building is part (A) of the RVS scoring provided by DOGAMI. The occupancy and budget data provided by the District is for the entire school campus.

The BCA for this project is **0.337**. Despite the BCA score of **0.337** being less than 1.0, we still recommend the proposed seismic retrofit and feel this building is a great candidate for the grant given its importance to the community it serves.



7.0 Conclusion and Recommendations

The findings described in this report have been limited to the lateral force-resisting structural system and general assessment of the gravity force-resisting elements. Based on our visual observations, we find the structure to be largely in good condition and generally safe for occupancy. If the project is not awarded seismic retrofit funding through the SRGP, the District should set aside funds to address the corrosion withing the pilasters to ensure that further damage does not occur.

Given the current condition of the structure, the current code section on existing buildings does not mandate that upgrades are required unless the building is scheduled for repairs, alterations, additions, or change in occupancy. However, it is our understanding the goal of the District is to continue utilizing the existing building as a gymnasium, and the District wants the seismic structural system to be compliant with the current code. To clarify, upgrades outlined in this report are strictly at the discretion of the District.

We have attempted to identify all areas requiring upgrades to achieve a scope of work for current code compliance, associated estimated costs and project schedule.

Please contact our office if you would like to discuss our findings. Please review the attached schematic drawings that can be used to refine a scope and budget.

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Ontario School District 8C Ontario High School Gymnasium Seismic Evaluation



Appendix A: Figures

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ONTARIO SCHOOL DISTRICT 1115 W. IDAHO AVE. ONTARIO, OR 97914

ONTARIO HIGH SCHOOL SEISMIC RETROFIT











PHOTO A2.1



A2.1 PHOTO









NTS



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ONTARIO SCHOOL DISTRICT 1115 W. IDAHO AVE. ONTARIO, OR 97914

ONTARIO HIGH SCHOOL SEISMIC RETROFIT











2 PHOTO A2.2



3 PHOTO











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ONTARIO SCHOOL DISTRICT 1115 W. IDAHO AVE. ONTARIO, OR 97914

ONTARIO HIGH SCHOOL SEISMIC RETROFIT





Appendix B: Structural Tier 1 Check Sheets

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Tier 1 Deficiency Summary				
	Deficiency Number(s)			
	Per Sections 3.2.2 - 3.2.4			
Noncompliant Item in Tier 1	& Retrofit Drawings	Comments		
	Gymnasium			
Table 17-1. Very Low Seismicity Checklist				
Structural Components	Structural Components			
		Diaphragm is not properly fastened to		
LOAD PATH	S1, S14	the vertical lateral elements		
		Walls are not properly anchored into the		
WALL ANCHORAGE	S2, S3	roof and floor diaphragms		

Table 17-3. Immediate Occupancy Basic Configuration Checklist				
Very Low Seismicity				
Building System—General				
		Diaphragm is not properly fastened to		
LOAD PATH	S1, S4, S6, S7, S14	the vertical lateral elements		
		Vertical offset in roof elevation exists		
ADJACENT BUILDINGS	S5	between gym and surrounding structures		
MEZZANINES	S6, S7, S11	Mezzanine is not adequately supported		

Table 17-25. Immediate Occupancy Structural Checklist for Building Types C2 and C2a				
Connections				
WALL ANCHORAGE AT FLEXIBLE		Walls are not properly anchored into the		
DIAPHRAGMS	S2, S3	roof and floor diaphragms		
		Diaphragm is not properly fastened to		
TRANSFER TO SHEAR WALLS	S1	the vertical lateral elements		
		There is no direct connection between		
		the exterior walls and the foundation to		
FOUNDATION DOWELS	S8	transfer seismic forces		
Low, Moderate, and High Seismici	ty			
Seismic-Force-Resisting System				
		Pilasters are not detailed for induced		
DEFLECTION COMPATIBILITY	S9, S14	deflections		
Diaphragms (Stiff or Flexible)				
		The roof diaphragm contains an		
DIAPHRAGM CONTINUITY	S4	unsupported discontinuity		
Flexible Diaphragms				
		No elements able to transfer anchorages		
CROSS TIES	S12	forces across the diaphragm		

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DIAGONALLY SHEATHED AND		Diaphragms are over spanned past the
UNBLOCKED DIAPHRAGMS	S10, S13	recommended amount

Table 17-38. Nonstructural Checklist				
Partitions				
		Inadequate anchorage of clay tile walls		
UNREINFORCED MASONRY	N1	under mezzanine level		
Ceilings				
		Lath and plaster ceiling at mezzanine is		
SUSPENDED LATH AND PLASTER	N2	not properly anchored		
Light Fixtures				
		Pendant supported lighting is not free to		
PENDANT SUPPORTS	N3	move without striking the building		
Parapets, Cornices, Ornamentatio	on, and Appendages			
CANOPIES	N4	Canopies are not adequately anchored		
		Stairs are not properly anchored to the		
STAIR DETAILS	N5	building		
GLASS BLOCK	N6	Glass block presents a falling hazard		

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Appendix C: Summary Data Sheet

BUILDING DATA						
Building Name:					Date:	
Building Address:	Longitudo				By:	
		·				
Year Built:	(ear(s) Remodeled		0	riginal Design	Code:	
Area (st):	Length (ft)			VVI	dtn (ft):	
No. of Stories:	Story Height			Iotai		
	ehouse 🗌 Hospit	al 🗌 Reside	ntial 🗌 E	ducational	Other:	
CONSTRUCTION DATA						
Gravity Load Structural System:						
Exterior Transverse Walls:				Opening	ls?	
Exterior Longitudinal Walls:				Opening	ls?	
Roof Materials/Framing:						
Intermediate Floors/Framing:						
Ground Floor:						
Columns:				Foundatio	on:	
General Condition of Structure:						
Levels Below Grade?						
Special Features and Comments:						
LATERAL-FORCE-RESISTING SY	STEM					
	Longit	udinal			Trans	verse
System:						
Vertical Elements:						
Diaphragms:						
Connections:						
EVALUATION DATA						
BSE-2E Spectral Response	8 –			° -		
Accelerations:	Sxs⁻			x1		
Soil Factors:	Class=			F _a =		F _v =
BSE-1E Spectral Response Accelerations:	S _{XS} =			S _{X1} =		
Level of Seismicity:			Perforr	mance Level:		
Building Period:	<i>T</i> =					
Spectral Acceleration:	S _a =					
Modification Factor:	$C_m C_1 C_2 =$		Building \	Weight: W=		
Pseudo Lateral Force:	$V= C_m C_1 C_2 S_a W=$					
BUILDING CLASSIFICATION:						
REQUIRED TIER 1 CHECKLISTS		Yes	No			
Basic Configuration Checklist						
Building Type Structural Checklist						
Nonstructural Component Checklist						
FURTHER EVALUATION REQUIR						
Table 17-1. Very Low Seismicity Checklist

Status	Evaluation Statement	Tier 2 Reference	Commentary Reference
Structural Co	mponents		
CNCN/A U	LOAD PATH: The structure contains a complete, well-defined load path, including structural elements and connections, that serves to transfer the inertial forces associated with the mass of all elements of the building to the foundation.	5.4.1.1	A.2.1.1
C NCN/A U	WALL ANCHORAGE: Exterior concrete or masonry walls that are dependent on the diaphragm for lateral support are anchored for out-of-plane forces at each diaphragm level with steel anchors, reinforcing dowels, or straps that are developed into the diaphragm. Connections have adequate strength to resist the connection force calculated in the Quick Check procedure of Section 4.4.3.7.	5.7.1.1	A.5.1.1

Note: C = Compliant, NC = Noncompliant, N/A = Not Applicable, and U = Unknown.

Table 17-2. Collapse Prevention Basic Configuration Checklist

Status	Evaluation Statement	Tier 2 Reference	Commentary Reference
Low Seismicit	y m_General		
C NC N/A U	LOAD PATH: The structure contains a complete, well-defined load path, including structural elements and connections, that serves to transfer the inertial forces associated with the mass of all elements of the building to the foundation.	5.4.1.1	A.2.1.1
C NC N/A U	ADJACENT BUILDINGS: The clear distance between the building being evaluated and any adjacent building is greater than 0.25% of the height of the shorter building in low seismicity, 0.5% in moderate seismicity, and 1.5% in high seismicity.	5.4.1.2	A.2.1.2
C NC N/A U	MEZZANINES: Interior mezzanine levels are braced independently from the main structure or are anchored to the seismic-force-resisting elements of the main structure.	5.4.1.3	A.2.1.3
Building Syste	em—Building Configuration		
C NC N/A U	WEAK STORY: The sum of the shear strengths of the seismic-force-resisting system in any story in each direction is not less than 80% of the strength in the adjacent story above	5.4.2.1	A.2.2.2
C NC N/A U	SOFT STORY: The stiffness of the seismic-force-resisting system in any story is not less than 70% of the seismic-force-resisting system stiffness in an adjacent story above or less than 80% of the average seismic-force-resisting system stiffness of the three stories above.	5.4.2.2	A.2.2.3
C NC N/A U	VERTICAL IRREGULARITIES: All vertical elements in the seismic-force- resisting system are continuous to the foundation.	5.4.2.3	A.2.2.4
C NC N/A U	GEOMETRY: There are no changes in the net horizontal dimension of the seismic-force-resisting system of more than 30% in a story relative to adjacent stories, excluding one-story penthouses and mezzanines.	5.4.2.4	A.2.2.5
C NC N/A U	MASS: There is no change in effective mass of more than 50% from one story to the next. Light roofs, penthouses, and mezzanines need not be considered.	5.4.2.5	A.2.2.6
C NC N/A U	TORSION: The estimated distance between the story center of mass and the story center of rigidity is less than 20% of the building width in either plan dimension.	5.4.2.6	A.2.2.7

Table 17-2 (Continued). Collapse Prevention Basic Configuration Checklist

Status	Evaluation Statement	Tier 2 Reference	Commentary Reference			
Moderate Seismicity (Complete the Following Items in Addition to the Items for Low Seismicity)						
Geologic Site	Hazards					
C NC N/A U	LIQUEFACTION: Liquefaction-susceptible, saturated, loose granular soils that could jeopardize the building's seismic performance do not exist in the foundation soils at depths within 50 ft (15.2 m) under the building.	5.4.3.1	A.6.1.1			
C NC N/A U	SLOPE FAILURE: The building site is located away from potential earthquake- induced slope failures or rockfalls so that it is unaffected by such failures or is capable of accommodating any predicted movements without failure.	5.4.3.1	A.6.1.2			
C NC N/A U	SURFACE FAULT RUPTURE: Surface fault rupture and surface displacement at the building site are not anticipated.	5.4.3.1	A.6.1.3			
High Seismicit	y (Complete the Following Items in Addition to the Items for Moderate Seisr	nicity)				
Foundation Co	onfiguration					
C NC N/A U	OVERTURNING: The ratio of the least horizontal dimension of the seismic-force- resisting system at the foundation level to the building height (base/height) is greater than 0.6 <i>S</i> _a .	5.4.3.3	A.6.2.1			
C NC N/A U	TIES BETWEEN FOUNDATION ELEMENTS: The foundation has ties adequate to resist seismic forces where footings, piles, and piers are not restrained by beams, slabs, or soils classified as Site Class A, B, or C.	5.4.3.4	A.6.2.2			

Note: C = Compliant, NC = Noncompliant, N/A = Not Applicable, and U = Unknown.

Table 17-3. Immediate Occupancy Basic Configuration Checklist

Status	Evaluation Statement	Tier 2 Reference	Commentary Reference
Very Low Sei	smicity		
Building Syst			
CINC N/A U	LOAD PATH: The structure contains a complete, well-defined load path, including structural elements and connections, that serves to transfer the inertial forces associated with the mass of all elements of the building to the foundation.	5.4.1.1	A.2.1.1
CNCN/A U	ADJACENT BUILDINGS: The clear distance between the building being evaluated and any adjacent building is greater than 0.5% of the height of the shorter building in low seismicity, 1.0% in moderate seismicity, and 3.0% in high seismicity.	5.4.1.2	A.2.1.2
CNCN/A U	MEZZANINES: Interior mezzanine levels are braced independently from the main structure or are anchored to the seismic-force-resisting elements of the main structure.	5.4.1.3	A.2.1.3
Building Syst	em—Building Configuration		
	WEAK STORY: The sum of the shear strengths of the seismic-force-resisting system in any story in each direction is not less than 80% of the strength in the adjacent story above.	5.4.2.1	A.2.2.2
C NC N/A U	SOFT STORY: The stiffness of the seismic-force-resisting system in any story is not less than 70% of the seismic-force-resisting system stiffness in an adjacent story above or less than 80% of the average seismic-force-resisting system stiffness of the three stories above.	5.4.2.2	A.2.2.3
CNC N/A U	VERTICAL IRREGULARITIES: All vertical elements in the seismic- force-resisting system are continuous to the foundation.	5.4.2.3	A.2.2.4
C NC NA U	GEOMETRY: There are no changes in the net horizontal dimension of the seismic-force-resisting system of more than 30% in a story relative to adjacent stories, excluding one-story penthouses and mezzanines.	5.4.2.4	A.2.2.5
C NC 🗤 U	MASS: There is no change in effective mass of more than 50% from one story to the next. Light roofs, penthouses, and mezzanines need not be considered.	5.4.2.5	A.2.2.6

Table 17-3 (Continued). Immediate Occupancy Basic Configuration Checklist

Status	Evaluation Statement	Tier 2 Reference	Commentary Reference
CNC N/A U	TORSION: The estimated distance between the story center of mass and the story center of rigidity is less than 20% of the building width in either plan dimension.	5.4.2.6	A.2.2.7
Low Seismicit	ty (Complete the Following Items in Addition to the Items for Very Low Seisn	nicity)	
Geologic Site	Hazards		
CNC N/A U	LIQUEFACTION: Liquefaction-susceptible, saturated, loose granular soils that could jeopardize the building's seismic performance do not exist in the foundation soils at depths within 50 ft (15.2 m) under the building.	5.4.3.1	A.6.1.1
CNC N/A U	SLOPE FAILURE: The building site is located away from potential earthquake- induced slope failures or rockfalls so that it is unaffected by such failures or is capable of accommodating any predicted movements without failure.	5.4.3.1	A.6.1.2
CNC N/A U	SURFACE FAULT RUPTURE: Surface fault rupture and surface displacement at the building site are not anticipated.	5.4.3.1	A.6.1.3
Moderate and	High Seismicity (Complete the Following Items in Addition to the Items for I	ow Seismicit	y)
Foundation C	onfiguration		
CNC N/A U	OVERTURNING: The ratio of the least horizontal dimension of the seismic- force-resisting system at the foundation level to the building height (base/height) is greater than 0.6 <i>S</i> _a .	5.4.3.3	A.6.2.1
C NC 🕅 U	TIES BETWEEN FOUNDATION ELEMENTS: The foundation has ties adequate to resist seismic forces where footings, piles, and piers are not restrained by beams, slabs, or soils classified as Site Class A, B, or C.	5.4.3.4	A.6.2.2

Note: C = Compliant, NC = Noncompliant, N/A = Not Applicable, and U = Unknown.

Table 17-4. Collapse Prevention Structural Checklist for Building Types W1 and W1a

Status	Evaluation Statement	Tier 2 Reference	Commentary Reference
Low and Mode	erate Seismicity		
C NC N/A U	REDUNDANCY: The number of lines of shear walls in each principal direction is greater than or equal to 2.	5.5.1.1	A.3.2.1.1
C NC N/A U	SHEAR STRESS CHECK: The shear stress in the shear walls, calculated using the Quick Check procedure of Section 4.4.3.3, is less than the following values:	5.5.3.1.1	A.3.2.7.1
	Structural panel sheathing1,000 lb/ft (14.6 kN/m)Diagonal sheathing700 lb/ft (10.2 kN/m)Straight sheathing100 lb/ft (1.5 kN/m)All other conditions100 lb/ft (1.5 kN/m)		
C NC N/A U	STUCCO (EXTERIOR PLASTER) SHEAR WALLS: Multi-story buildings do not rely on exterior stucco walls as the primary seismic-force-resisting system.	5.5.3.6.1	A.3.2.7.2
C NC N/A U	GYPSUM WALLBOARD OR PLASTER SHEAR WALLS: Interior plaster or gypsum wallboard is not used for shear walls on buildings more than one story high with the exception of the uppermost level of a multi-story building.	5.5.3.6.1	A.3.2.7.3
C NC N/A U	NARROW WOOD SHEAR WALLS: Narrow wood shear walls with an aspect ratio greater than 2-to-1 are not used to resist seismic forces.	5.5.3.6.1	A.3.2.7.4
C NC N/A U	WALLS CONNECTED THROUGH FLOORS: Shear walls have an interconnection between stories to transfer overturning and shear forces through the floor.	5.5.3.6.2	A.3.2.7.5
C NC N/A U	HILLSIDE SITE: For structures that are taller on at least one side by more than one-half story because of a sloping site, all shear walls on the downhill slope have an aspect ratio less than 1-to-1.	5.5.3.6.3	A.3.2.7.6

Table 17-25. Immediate Occupancy Structural Checklist for Building Types C2 and C2a

Status	Evaluation Statement	Tier 2 Reference	Commentary Reference
Very Low Sei	smicity		
Seismic-Forc	e-Resisting System		
	COMPLETE FRAMES: Steel or concrete frames classified as secondary	5.5.2.5.1	A.3.1.6.1
CNC N/A U	REDUNDANCY: The number of lines of shear walls in each principal direction is greater than or equal to 2	5.5.1.1	A.3.2.1.1
CNC N/A U	SHEAR STRESS CHECK: The shear stress in the concrete shear walls, calculated using the Quick Check procedure of Section 4.4.3.3, is less than the greater of 100 lb/in ² (0.69 MPa) or $2\sqrt{f!}$	5.5.3.1.1	A.3.2.2.1
CNC N/A U	REINFORCING STEEL: The ratio of reinforcing steel area to gross concrete area is not less than 0.0012 in the vertical direction and 0.0020 in the horizontal direction. The spacing of reinforcing steel is equal to or less than 18 in. (457 mm).	5.5.3.1.3	A.3.2.2.2
Connections			
CNON/A U	WALL ANCHORAGE AT FLEXIBLE DIAPHRAGMS: Exterior concrete or masonry walls that are dependent on flexible diaphragms for lateral support are anchored for out-of-plane forces at each diaphragm level with steel anchors, reinforcing dowels, or straps that are developed into the diaphragm. Connections have strength to resist the connection force calculated in the Quick Check procedure of Section 4.4.3.7.	5.7.1.1	A.5.1.1
C NC N/A U	TRANSFER TO SHEAR WALLS: Diaphragms are connected for transfer of loads to the shear walls, and the connections are able to develop the lesser of the shear strength of the walls or diaphragms.	5.7.2	A.5.2.1
CNCN/A U	FOUNDATION DOWELS: Wall reinforcement is doweled into the foundation, and the dowels are able to develop the lesser of the strength of the walls or the uplift capacity of the foundation.	5.7.3.4	A.5.3.5
Foundation S	System		
	DEEP FOUNDATIONS: Piles and piers are capable of transferring the lateral		A.6.2.3
	SLOPING SITES: The difference in foundation embedment depth from one side		A.6.2.4
Low, Moderat	te, and High Seismicity (Complete the Following Items in Addition to the Item	s for Very Lo	w Seismicity)
Seismic-Forc	e-Resisting System	-	• •
C(NC) N/A U	DEFLECTION COMPATIBILITY: Secondary components have the shear capacity to develop the flexural strength of the components and are compliant with the following items in Table 17-23: COLUMN-BAR SPLICES, BEAM-BAR SPLICES, COLUMN-TIE SPACING, STIRRUP SPACING, and STIRRUP AND TIE HOOKS.	5.5.2.5.2	A.3.1.6.2
	FLAT SLABS: Flat slabs or plates not part of seismic-force-resisting system have continuous bottom steel through the column joints.	5.5.2.5.3	A.3.1.6.3
C NC 🗤 U	COUPLING BEAMS: The ends of both walls to which the coupling beam is attached are supported at each end to resist vertical loads caused by overturning. Coupling beams have the capacity in shear to develop the uplift capacity of the adjacent wall.	5.5.3.2.1	A.3.2.2.3
CNC N/A U	OVERTURNING: All shear walls have aspect ratios less than 4-to-1. Wall piers need not be considered.	5.5.3.1.4	A.3.2.2.4
	CONFINEMENT REINFORCING: For shear walls with aspect ratios greater than 2-to-1, the boundary elements are confined with spirals or ties with spacing less than $8d_{b}$.	5.5.3.2.2	A.3.2.2.5
CNC N/A U	WALL REINFORCING AT OPENINGS: There is added trim reinforcement around all wall openings with a dimension greater than three times the thickness of the wall.	5.5.3.1.5	A.3.2.2.6
CNC N/A U	WALL THICKNESS: Thicknesses of bearing walls are not less than 1/25 the unsupported height or length, whichever is shorter, nor less than 4 in. (101 mm).	5.5.3.1.2	A.3.2.2.7

continues

Table 17-25	(Continued)	. Immediate	Occupancy	/ Structural	Checklist f	or Building	Types	C2 ar	nd C2a
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Status	Evaluation Statement	Tier 2 Reference	Commentary Reference
Diaphragms (Stiff or Flexible)		
C NCN/A U	DIAPHRAGM CONTINUITY: The diaphragms are not composed of split-level floors and do not have expansion joints.	5.6.1.1	A.4.1.1
	OPENINGS AT SHEAR WALLS: Diaphragm openings immediately adjacent to the shear walls are less than 15% of the wall length.	5.6.1.3	A.4.1.4
	PLAN IRREGULARITIES: There is tensile capacity to develop the strength of the diaphragm at reentrant corners or other locations of plan irregularities.	5.6.1.4	A.4.1.7
C NC NA U	DIAPHRAGM REINFORCEMENT AT OPENINGS: There is reinforcing around all diaphragm openings larger than 50% of the building width in either major plan dimension.	5.6.1.5	A.4.1.8
Flexible Diapl	hragms		
CNCN/A U	CROSS TIES: There are continuous cross ties between diaphragm chords.	5.6.1.2	A.4.1.2
	STRAIGHT SHEATHING: All straight-sheathed diaphragms have aspect ratios less than 1-to-1 in the direction being considered.	5.6.2	A.4.2.1
CNC N/A U	SPANS: All wood diaphragms with spans greater than 12 ft (3.6 m) consist of wood structural panels or diagonal sheathing.	5.6.2	A.4.2.2
C NCN/A U	DIAGONALLY SHEATHED AND UNBLOCKED DIAPHRAGMS: All diagonally sheathed or unblocked wood structural panel diaphragms have horizontal spans less than 30 ft (9.2 m) and aspect ratios less than or equal to 3-to-1.	5.6.2	A.4.2.3
	NONCONCRETE FILLED DIAPHRAGMS: Untopped metal deck diaphragms or metal deck diaphragms with fill other than concrete consist of horizontal spans of less than 40 ft (12.2 m) and have aspect ratios less than 4-to-1.	5.6.3	A.4.3.1
CNC N/A U	OTHER DIAPHRAGMS: Diaphragms do not consist of a system other than wood, metal deck, concrete, or horizontal bracing.	5.6.5	A.4.7.1
Connections C NC NA U	UPLIFT AT PILE CAPS: Pile caps have top reinforcement, and piles are anchored to the pile caps; the pile cap reinforcement and pile anchorage are able to develop the tensile capacity of the piles.	5.7.3.5	A.5.3.8

Note: C = Compliant, NC = Noncompliant, N/A = Not Applicable, and U = Unknown.

categorized as Noncompliant or Unknown. For evaluation statements classified as Noncompliant or Unknown, the design professional is permitted to choose to conduct further investigation using the corresponding Tier 2 evaluation procedure listed next to each evaluation statement.

17.13 STRUCTURAL CHECKLISTS FOR BUILDING TYPES C3: CONCRETE FRAMES WITH INFILL MASONRY SHEAR WALLS AND C3A: CONCRETE FRAMES WITH INFILL MASONRY SHEAR WALLS AND FLEXIBLE DIAPHRAGMS

For building systems and configurations that comply with the C3 or C3a building type description in Table 3-1, the Collapse Prevention Structural Checklist in Table 17-26 shall be completed where required by Table 4-6 for Collapse Prevention Structural Performance, and the Immediate Occupancy Structural Checklist in Table 17-27 shall be completed where required by Table 4-6 for Immediate Occupancy Structural Performance. Tier 1 screening shall include on-site investigation and condition assessment as required by Section 4.2.1.

Where applicable, each of the evaluation statements listed in this checklist shall be marked Compliant (C), Noncompliant (NC), Not Applicable (N/A), or Unknown (U) for a Tier 1 screening. Items that are deemed acceptable to the design professional in accordance with the evaluation statement shall be categorized as Compliant, whereas items that are determined by the design professional to require further investigation shall be categorized as Noncompliant or Unknown. For evaluation statements classified as Noncompliant or Unknown, the design professional is permitted to choose to conduct further investigation using the corresponding Tier 2 evaluation procedure listed next to each evaluation statement.

17.14 STRUCTURAL CHECKLISTS FOR BUILDING TYPES PC1: PRECAST OR TILT-UP CONCRETE SHEAR WALLS WITH FLEXIBLE DIAPHRAGMS AND PC1A: PRECAST OR TILT-UP CONCRETE SHEAR WALLS WITH STIFF DIAPHRAGMS

For building systems and configurations that comply with the PC1 or PC1a building type description in Table 3-1, the Collapse Prevention Structural Checklist in Table 17-28 shall be completed where required by Table 4-6 for Collapse Prevention Structural Performance, and the Immediate Occupancy Structural Checklist in Table 17-29 shall be completed where required by Table 4-6 for Immediate Occupancy Structural Performance. Tier 1 screening shall include onsite investigation and condition assessment as required by Section 4.2.1.

Table 17-38. Nonstructural Checklist

Status	Evaluation Statement ^{a,b}	Tier 2 Reference	Commentary Reference
Life Safety Sv	stems		
C NC N/A U	HR—not required; LS—LMH; PR—LMH. FIRE SUPPRESSION PIPING: Fire	13.7.4	A.7.13.1
\sim	suppression piping is anchored and braced in accordance with NFPA-13.		
C NC (N/A) U	HR-not required; LS-LMH; PR-LMH. FLEXIBLE COUPLINGS: Fire	13.7.4	A.7.13.2
	suppression piping has flexible couplings in accordance with NFPA-13.		
C NC N/A U	HR—not required; LS—LMH; PR—LMH. EMERGENCY POWER: Equipment	13.7.7	A.7.12.1
	used to power or control Life Safety systems is anchored or braced.		
	HR—not required; LS—LMH; PR—LMH. STAIR AND SMOKE DUCTS: Stair	13.7.6	A.7.14.1
	pressurization and smoke control ducts are braced and have flexible		
	connections at seismic joints.	1074	A 7 19 9
	Penetrations through nanelized ceilings for fire suppression devices provide	13.7.4	A.7.13.3
	clearances in accordance with NEPA-13		
	HR—not required: LS—not required: PR—LMH. EMERGENCY LIGHTING:	13.7.9	A.7.3.1
	Emergency and egress lighting equipment is anchored or braced.		
Hazardous Ma	iterials		
C NC N/A U	HR-LMH; LS-LMH; PR-LMH. HAZARDOUS MATERIAL EQUIPMENT:	13.7.1	A.7.12.2
-	Equipment mounted on vibration isolators and containing hazardous material		
	is equipped with restraints or snubbers.		
C NC (N/A) U	HR—LMH; LS—LMH; PR—LMH. HAZARDOUS MATERIAL STORAGE:	13.8.3	A.7.15.1
	Breakable containers that hold hazardous material, including gas cylinders,		
	are restrained by latched doors, shelf lips, wires, or other methods.	10 7 0	
	HR — MH ; LS — MH ; PR — MH . HAZARDOUS MATERIAL DISTRIBUTION:	13.7.3	A.7.13.4
	Piping of ductwork conveying nazardous materials is braced of otherwise	13.7.5	
	HR_MH: I S_MH: PR_MH_SHITOFE VALVES: Pining containing bazardous	1373	Δ7133
	material including natural gas has shutoff valves or other devices to limit spills	1375	A.7.10.0
	or leaks.	101110	
C NC (N/A) U	HR—LMH; LS—LMH; PR—LMH. FLEXIBLE COUPLINGS: Hazardous material	13.7.3	A.7.15.4
	ductwork and piping, including natural gas piping, have flexible couplings.	13.7.5	
C NC N/A U	HR-MH; LS-MH; PR-MH. PIPING OR DUCTS CROSSING SEISMIC	13.7.3	A.7.13.6
-	JOINTS: Piping or ductwork carrying hazardous material that either crosses	13.7.5	
	seismic joints or isolation planes or is connected to independent structures has	13.7.6	
	couplings or other details to accommodate the relative seismic displacements.		
Partitions		10.0.0	
	HR — LMH ; LS — LMH ; PR — LMH . UNREINFORCED MASONRY: Unreinforced	13.6.2	A.7.1.1
	(3.0 m) in Low or Moderate Saismicity or at most 6 ft (1.8 m) in High		
	Seismicity		
C NC N/A U	HR-LMH: LS-LMH: PR-LMH. HEAVY PARTITIONS SUPPORTED BY	13.6.2	A.7.2.1
	CEILINGS: The tops of masonry or hollow-clay tile partitions are not laterally		
	supported by an integrated ceiling system.		
C NC (N/A) U	HR—not required; LS—MH; PR—MH. DRIFT: Rigid cementitious partitions are	13.6.2	A.7.1.2
Ŭ	detailed to accommodate the following drift ratios: in steel moment frame,		
	concrete moment frame, and wood frame buildings, 0.02; in other buildings,		
	0.005.		
	HH—not required; LS—not required; PR—MH. LIGHT PARTITIONS	13.6.2	A.7.2.1
	SUPPORTED BY CEILINGS: The tops of gypsum board partitions are not		
	Taterally supported by an integrated celling system.	1260	A 7 1 0
	SEPARATIONS: Partitions that cross structural separations have seismic or	13.0.2	A.7.1.3
	control joints.		

Status	Evaluation Statement ^{a,b}	Tier 2 Reference	Commentary Reference
	HR—not required; LS—not required; PR—MH . TOPS: The tops of ceiling-high framed or panelized partitions have lateral bracing to the structure at a spacing equal to or less than 6 ft (1.8 m).	13.6.2	A.7.1.4
Centings CNCN/A U	HR—H; LS—MH; PR—LMH . SUSPENDED LATH AND PLASTER: Suspended lath and plaster ceilings have attachments that resist seismic forces for every 12 ft ² (1.1 m ²) of area.	13.6.4	A.7.2.3
C NC 🗤 U	HR—not required; LS—MH; PR—LMH . SUSPENDED GYPSUM BOARD: Suspended gypsum board ceilings have attachments that resist seismic forces for every 12 ft ² (1.1 m ²) of area.	13.6.4	A.7.2.3
C NC MA U	HR —not required; LS —not required; PR —MH. INTEGRATED CEILINGS: Integrated suspended ceilings with continuous areas greater than 144 ft ² (13.4 m ²) and ceilings of smaller areas that are not surrounded by restraining partitions are laterally restrained at a spacing no greater than 12 ft (3.6 m) with members attached to the structure above. Each restraint location has a minimum of four diagonal wires and compression struts, or diagonal members capable of resisting compression.	13.6.4	A.7.2.2
C NC NA U	 HR—not required; LS—not required; PR—MH. EDGE CLEARANCE: The free edges of integrated suspended ceilings with continuous areas greater than 144 ft² (13.4 m²) have clearances from the enclosing wall or partition of at least the following: in Moderate Seismicity, 1/2 in. (13 mm); in High Seismicity, 3/4 in (19 mm) 	13.6.4	A.7.2.4
C NCN/A U	HR—not required; LS—not required; PR—MH . CONTINUITY ACROSS STRUCTURE JOINTS: The ceiling system does not cross any seismic joint and is not attached to multiple independent structures.	13.6.4	A.7.2.5
C NC (N/A) U	HR—not required; LS—not required; PR—H . EDGE SUPPORT: The free edges of integrated suspended ceilings with continuous areas greater than 144 ft ² (13.4 m ²) are supported by closure angles or channels not less than 2 in (51 mm) wide	13.6.4	A.7.2.6
C NC NA U	HR—not required; LS—not required; PR—H . SEISMIC JOINTS: Acoustical tile or lay-in panel ceilings have seismic separation joints such that each continuous portion of the ceiling is no more than 2,500 ft ² (232.3 m ²) and has a ratio of long-to-short dimension no more than 4-to-1.	13.6.4	A.7.2.7
Light Fixtures			
	HR—not required; LS—MH; PR—MH. INDEPENDENT SUPPORT: Light fixtures that weigh more per square foot than the ceiling they penetrate are supported independent of the grid ceiling suspension system by a minimum of two wires at diagonally opposite corners of each fixture.	13.6.4 13.7.9	A.7.3.2
C(NO) N/A U	HR—not required; LS—not required; PR—H . PENDANT SUPPORTS: Light fixtures on pendant supports are attached at a spacing equal to or less than 6 ft. Unbraced suspended fixtures are free to allow a 360-degree range of motion at an angle not less than 45 degrees from horizontal without contacting adjacent components. Alternatively, if rigidly supported and/or braced, they are free to move with the structure to which they are attached without damaging adjoining components. Additionally, the connection to the structure is capable of accommodating the movement without failure.	13.7.9	A.7.3.3
	HR—not required; LS—not required; PR—H. LENS COVERS: Lens covers on light fixtures are attached with safety devices.	13.7.9	A.7.3.4
	HALMHIIS MHIDE MHI OLADDING ANCHORS Cladding components	1261	A 7 A 1
	weighing more than 10 lb/ft ² (0.48 kN/m ²) are mechanically anchored to the structure at a spacing equal to or less than the following: for Life Safety in Moderate Seismicity, 6 ft (1.8 m); for Life Safety in High Seismicity and for Position Retention in any seismicity, 4 ft (1.2 m)	13.0.1	A./.4.1

Status	Evaluation Statement ^{a,b}	Tier 2 Reference	Commentary Reference
C NC (V)A U	HR—not required; LS—MH; PR—MH. CLADDING ISOLATION: For steel or concrete moment-frame buildings, panel connections are detailed to accommodate a story drift ratio by the use of rods attached to framing with oversize holes or slotted holes of at least the following: for Life Safety in Moderate Seismicity, 0.01; for Life Safety in High Seismicity and for Position Retention in any seismicity, 0.02, and the rods have a length-to-diameter ratio of 4.0 or less	13.6.1	A.7.4.3
C NCNA U	HR—MH; LS—MH; PR—MH . MULTI-STORY PANELS: For multi-story panels attached at more than one floor level, panel connections are detailed to accommodate a story drift ratio by the use of rods attached to framing with oversize holes or slotted holes of at least the following: for Life Safety in Moderate Seismicity, 0.01; for Life Safety in High Seismicity and for Position Retention in any seismicity, 0.02, and the rods have a length-to-diameter ratio of 4.0 or less.	13.6.1	A.7.4.4
	HR—not required; LS—MH; PR—MH. THREADED RODS: Threaded rods for panel connections detailed to accommodate drift by bending of the rod have a length-to-diameter ratio greater than 0.06 times the story height in inches for Life Safety in Moderate Seismicity and 0.12 times the story height in inches for Life Safety in High Seismicity and Position Retention in any seismicity.	13.6.1	A.7.4.9
C NC MA U	HR—MH; LS—MH; PR—MH . PANEL CONNECTIONS: Cladding panels are anchored out of plane with a minimum number of connections for each wall panel, as follows: for Life Safety in Moderate Seismicity, 2 connections; for Life Safety in High Seismicity and for Position Retention in any seismicity, 4 connections.	13.6.1.4	A.7.4.5
C NC N/A U	HR—MH; LS—MH; PR—MH . BEARING CONNECTIONS: Where bearing connections are used, there is a minimum of two bearing connections for each cladding panel.	13.6.1.4	A.7.4.6
	HR—MH; LS—MH; PR—MH . INSERTS: Where concrete cladding components use inserts, the inserts have positive anchorage or are anchored to reinforcing steel.	13.6.1.4	A.7.4.7
C NC (VA)U	HR—not required; LS—MH; PR—MH . OVERHEAD GLAZING: Glazing panes of any size in curtain walls and individual interior or exterior panes more than 16 ft ² (1.5 m ²) in area are laminated annealed or laminated heat-strengthened glass and are detailed to remain in the frame when cracked.	13.6.1.5	A.7.4.8
Masonry Ven	eer		
C NC (N/A) U	HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie for every 2-2/3 ft ² (0.25 m ²), and the ties have spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 36 in. (914 mm); for Life Safety in High Seismicity and for Position Retention in any seismicity, 24 in (610 mm)	13.6.1.2	A.7.5.1
C NC WAU	 HR—not required; LS—LMH; PR—LMH. SHELF ANGLES: Masonry veneer is supported by shelf angles or other elements at each floor above the ground floor. 	13.6.1.2	A.7.5.2
	HR—not required; LS—LMH; PR—LMH. WEAKENED PLANES: Masonry veneer is anchored to the backup adjacent to weakened planes, such as at the locations of flashing.	13.6.1.2	A.7.5.3
C NC NA U	HR—LMH; LS—LMH; PR—LMH. UNREINFORCED MASONRY BACKUP: There is no unreinforced masonry backup	13.6.1.1 13.6.1.2	A.7.7.2
C NC MA U	 HR—not required; LS—MH; PR—MH. STUD TRACKS: For veneer with cold-formed steel stud backup, stud tracks are fastened to the structure at a spacing equal to or less than 24 in. (610 mm) on center. 	13.6.1.1 13.6.1.2	A.7.6.1

Status	Evaluation Statement ^{a,b}	Tier 2 Reference	Commentary Reference
C NC NAU	HR—not required; LS—MH; PR—MH . ANCHORAGE: For veneer with concrete block or masonry backup, the backup is positively anchored to the structure at a horizontal spacing equal to or less than 4 ft along the floors and read	13.6.1.1 13.6.1.2	A.7.7.1
C NC 🕅 U	HR—not required; LS—not required; PR—MH. WEEP HOLES: In veneer anchored to stud walls, the veneer has functioning weep holes and base flashing	13.6.1.2	A.7.5.6
C NC 🕅 U	HR—not required; LS—not required; PR—MH. OPENINGS: For veneer with cold-formed-steel stud backup, steel studs frame window and door openings	13.6.1.1 13.6.1.2	A.7.6.2
Parapets, Cor	nices. Ornamentation, and Appendages		
	HR—LMH; LS—LMH; PR—LMH. URM PARAPETS OR CORNICES: Laterally unsupported unreinforced masonry parapets or cornices have height-to- thickness ratios no greater than the following: for Life Safety in Low or Moderate Seismicity, 2.5; for Life Safety in High Seismicity and for Position Retention in any seismicity, 1.5.	13.6.5	A.7.8.1
CNCN/A U	 HR—not required; LS—LMH; PR—LMH. CANOPIES: Canopies at building exits are anchored to the structure at a spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 10 ft (3.0 m); for Life Safety in High Seismicity and for Position Retention in any seismicity, 6 ft (1.8 m). 	13.6.6	A.7.8.2
C NC 🕅 U	HR—H; LS—MH; PR—LMH. CONCRETE PARAPETS: Concrete parapets with	13.6.5	A.7.8.3
C NC MAU	height-to-thickness ratios greater than 2.5 have vertical reinforcement. HR—MH; LS—MH; PR—LMH . APPENDAGES: Cornices, parapets, signs, and other ornamentation or appendages that extend above the highest point of anchorage to the structure or cantilever from components are reinforced and anchored to the structural system at a spacing equal to or less than 6 ft (1.8 m). This evaluation statement item does not apply to parapets or cornices covered	13.6.6	A.7.8.4
	by other evaluation statements.		
Masonry Chin	nneys		
C NC MA U	HR—LMH; LS—LMH; PR—LMH . URM CHIMNEYS: Unreinforced masonry chimneys extend above the roof surface no more than the following: for Life Safety in Low or Moderate Seismicity, 3 times the least dimension of the chimney; for Life Safety in High Seismicity and for Position Retention in any seismicity. 2 times the least dimension of the chimney.	13.6.7	A.7.9.1
C NC N/A U	HR—LMH; LS—LMH; PR—LMH . ANCHORAGE: Masonry chimneys are anchored at each floor level, at the topmost ceiling level, and at the roof.	13.6.7	A.7.9.2
Stairs			
C NC (N/A) U	HR—not required; LS—LMH; PR—LMH. STAIR ENCLOSURES: Hollow-clay tile or unreinforced masonry walls around stair enclosures are restrained out of plane and have height-to-thickness ratios not greater than the following: for Life Safety in Low or Moderate Seismicity, 15-to-1; for Life Safety in High Seismicity and for Position Betention in any seismicity, 12-to-1.	13.6.2 13.6.8	A.7.10.1
CNCN/A U	 HR—not required; LS—LMH; PR—LMH. STAIR DETAILS: The connection between the stairs and the structure does not rely on post-installed anchors in concrete or masonry, and the stair details are capable of accommodating the drift calculated using the Quick Check procedure of Section 4.4.3.1 for moment-frame structures or 0.5 in. for all other structures without including any lateral stiffness contribution from the stairs. 	13.6.8	A.7.10.2
		1201	A 7 1 1 1
	storage racks or pallet racks more than 12 ft high meet the requirements of ANSI/RMI MH 16.1 as modified by ASCE 7, Chapter 15.	13.8.1	A.7.11.1

Status	Evaluation Statement ^{a,b}	Tier 2 Reference	Commentary Reference
CNC N/A U	HR—not required; LS—H; PR—MH . TALL NARROW CONTENTS: Contents more than 6 ft (1.8 m) high with a height-to-depth or height-to-width ratio greater than 3-to-1 are anchored to the structure or to each other	13.8.2	A.7.11.2
C NC N/A U	HR—not required; LS—H; PR—H. FALL-PRONE CONTENTS: Equipment, stored items, or other contents weighing more than 20 lb (9.1 kg) whose center of mass is more than 4 ft (1.2 m) above the adjacent floor level are braced or otherwise restrained.	13.8.2	A.7.11.3
	HR—not required; LS—not required; PR—MH . ACCESS FLOORS: Access floors more than 9 in. (229 mm) high are braced.	13.6.10	A.7.11.4
C NC 🕡 U	HR—not required; LS—not required; PR—MH . EQUIPMENT ON ACCESS FLOORS: Equipment and other contents supported by access floor systems are anchored or braced to the structure independent of the access floor.	13.7.7 13.6.10	A.7.11.5
CNC N/A U	HR—not required; LS—not required; PR—H. SUSPENDED CONTENTS: Items suspended without lateral bracing are free to swing from or move with the structure from which they are suspended without damaging themselves or adjoining components.	13.8.2	A.7.11.6
	HP not required: IS H: PP H EALL PRONE FOLLIPMENT: Equipment	1371	A 7 19 /
	weighing more than 20 lb (9.1 kg) whose center of mass is more than 4 ft (1.2 m) above the adjacent floor level, and which is not in-line equipment, is braced.	13.7.7	A.7.12.4
	HR—not required; LS—H; PR—H . IN-LINE EQUIPMENT: Equipment installed in line with a duct or piping system, with an operating weight more than 75 lb (34.0 kg), is supported and laterally braced independent of the duct or piping system.	13.7.1	A.7.12.5
	HR—not required; LS—H; PR—MH . TALL NARROW EQUIPMENT: Equipment more than 6 ft (1.8 m) high with a height-to-depth or height-to-width ratio greater than 3-to-1 is anchored to the floor slab or adjacent structural walls.	13.7.1 13.7.7	A.7.12.6
C NC N/A U	HR—not required; LS—not required; PR—MH. MECHANICAL DOORS: Mechanically operated doors are detailed to operate at a story drift ratio of 0.01.	13.6.9	A.7.12.7
C NC N/A U	HR—not required; LS—not required; PR—H . SUSPENDED EQUIPMENT: Equipment suspended without lateral bracing is free to swing from or move with the structure from which it is suspended without damaging itself or adjoining components.	13.7.1 13.7.7	A.7.12.8
C NC N/A U	HR—not required; LS—not required; PR—H . VIBRATION ISOLATORS: Equipment mounted on vibration isolators is equipped with horizontal restraints or snubbers and with vertical restraints to resist overturning.	13.7.1	A.7.12.9
C NC NA U	HR—not required; LS—not required; PR—H . HEAVY EQUIPMENT: Floor- supported or platform-supported equipment weighing more than 400 lb (181.4 kg) is anchored to the structure.	13.7.1 13.7.7	A.7.12.10
	HR —not required; LS—not required; PR—H. ELECTRICAL EQUIPMENT: Electrical equipment is laterally braced to the structure.	13.7.7	A.7.12.11
C NC MA U	HR—not required; LS—not required; PR—H . CONDUIT COUPLINGS: Conduit greater than 2.5 in. (64 mm) trade size that is attached to panels, cabinets, or other equipment and is subject to relative seismic displacement has flexible couplings or connections.	13.7.8	A.7.12.12
	HR—not required; LS—not required; PR—H. FLEXIBLE COUPLINGS: Fluid and gas piping has flexible couplings.	13.7.3 13.7.5	A.7.13.2

Status	Evaluation Statement ^{a,b}	Tier 2 Reference	Commentary Reference
	HR—not required; LS—not required; PR—H . FLUID AND GAS PIPING: Fluid and gas piping is anchored and braced to the structure to limit spills or leaks.	13.7.3 13.7.5	A.7.13.4
C NC 😡 U	 HR—not required; LS—not required; PR—H. C-CLAMPS: One-sided C-clamps that support piping larger than 2.5 in. (64 mm) in diameter are restrained. 	13.7.3 13.7.5	A.7.13.5
	HR —not required; LS —not required; PR —H. PIPING CROSSING SEISMIC JOINTS: Piping that crosses seismic joints or isolation planes or is connected to independent structures has couplings or other details to accommodate the relative seismic displacements.	13.7.3 13.7.5	A.7.13.6
Ducts C NCN/A U	HR—not required; LS—not required; PR—H . DUCT BRACING: Rectangular ductwork larger than 6 ft ² (0.56 m ²) in cross-sectional area and round ducts larger than 28 in. (711 mm) in diameter are braced. The maximum spacing of transverse bracing does not exceed 30 ft (9.2 m). The maximum spacing of longitudinal bracing does not exceed 60 ft (18.3 m).	13.7.6	A.7.14.2
CNC N/A U	HR —not required; LS —not required; PR — H . DUCT SUPPORT: Ducts are not supported by piping or electrical conduit.	13.7.6	A.7.14.3
C NC <mark>N/A</mark> U	HR —not required; LS —not required; PR — H . DUCTS CROSSING SEISMIC JOINTS: Ducts that cross seismic joints or isolation planes or are connected to independent structures have couplings or other details to accommodate the relative seismic displacements.	13.7.6	A.7.14.4
Elevators C NC N/A U	HR—not required; LS—H; PR—H. RETAINER GUARDS: Sheaves and drums	13.7.11	A.7.16.1
	have cable retainer guards. HR—not required; LS—H; PR—H. RETAINER PLATE: A retainer plate is present at the top and bottom of both car and counterweight.	13.7.11	A.7.16.2
	HR—not required; LS—not required; PR—H . ELEVATOR EQUIPMENT: Equipment, piping, and other components that are part of the elevator system are anchored.	13.7.11	A.7.16.3
C NC NA U	HR—not required; LS—not required; PR—H . SEISMIC SWITCH: Elevators capable of operating at speeds of 150 ft/min (0.30 m/min) or faster are equipped with seismic switches that meet the requirements of ASME A17.1 or have trigger levels set to 20% of the acceleration of gravity at the base of the structure and 50% of the acceleration of gravity in other locations.	13.7.11	A.7.16.4
C NC <mark>N/A</mark> U	HR—not required; LS—not required; PR—H. SHAFT WALLS: Elevator shaft walls are anchored and reinforced to prevent toppling into the shaft during strong shaking	13.7.11	A.7.16.5
	HR—not required; LS—not required; PR—H. COUNTERWEIGHT RAILS: All counterweight rails and divider beams are sized in accordance with ASME A17 1	13.7.11	A.7.16.6
C NC 🗤 U	HR—not required; LS—not required; PR—H . BRACKETS: The brackets that tie the car rails and the counterweight rail to the structure are sized in accordance with ASME A17.1	13.7.11	A.7.16.7
	HR—not required; LS—not required; PR—H. SPREADER BRACKET: Spreader brackets are not used to regist seismic forces	13.7.11	A.7.16.8
C NC 🙌 U	 HR—not required; LS—not required; PR—H. GO-SLOW ELEVATORS: The building has a go-slow elevator system. 	13.7.11	A.7.16.9

Note: C = Compliant, NC = Noncompliant, N/A = Not Applicable, and U = Unknown. ^a Performance Level: HR = Hazards Reduced, LS = Life Safety, and PR = Position Retention. ^b Level of Seismicity: L = Low, M = Moderate, and H = High.



OSHPD

Ontario School District - Ontario High School

site-modified spectral response (1.0 s)

1115 W Idaho Ave, Ontario, OR 97914, USA

Latitude, Longitude: 44.0297777, -116.9778581



S_{X1}

0.178

T-Sub-L

Туре	Description	Value
Hazard Level		BSE-2E
SS	spectral response (0.2 s)	0.202
S ₁	spectral response (1.0 s)	0.078
S _{XS}	site-modified spectral response (0.2 s)	0.323
S _{X1}	site-modified spectral response (1.0 s)	0.188
f _a	site amplification factor (0.2 s)	1.6
f _v	site amplification factor (1.0 s)	2.4

Type Hazard Level	Description	Value BSE-1E
SS	spectral response (0.2 s)	0.077
S ₁	spectral response (1.0 s)	0.034
S _{XS}	site-modified spectral response (0.2 s)	0.122
S _{X1}	site-modified spectral response (1.0 s)	0.082
F _a	site amplification factor (0.2 s)	1.6
F _v	site amplification factor (1.0 s)	2.4
Туре	Description	Value
Hazard Level		TL Data

DISCLAIMER

Long-period transition period in seconds

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Landslide Hazard Map



August 6, 2020

Landslide Hazard

Green: Band_2 Blue: Band_3



Red: Band_1

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS,

Liquefaction Hazard Map



August 6, 2020

High Moderate

Low



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS,



GEOTECHNICAL ENGINEERING REPORT

Proposed Municipal Development Ontario High School Addition Ontario Oregon

Prepared for:

CM Company, Inc. 431 West McGregor Drive Boise, Idaho 83705

MTI File Number BIOI6Ig



Geotechnical Engineering

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Mrs. Anna Ellis CM Company, Inc. 431 West McGregor Drive Boise, Idaho 83705 (208) 384-0800

> Re: Geotechnical Engineering Report Proposed Municipal Development Ontario High School Addition Ontario, Oregon

Mrs. Ellis:

In compliance with your instructions, we have conducted a soils exploration and foundation evaluation for the above referenced development. Fieldwork for this investigation was conducted on 24 February 2011. Data have been analyzed to evaluate pertinent geotechnical conditions. Results of this investigation, together with our recommendations, are to be found in the following report. We have provided three copies for your review and distribution.

Often questions arise concerning soil conditions because of design and construction details that occur on a project. MTI would be pleased to continue our role as geotechnical engineers during project implementation. Additionally, MTI would be pleased in providing materials testing and special inspection services during construction of this project. If you will advise us of the appropriate time to discuss these engineering services, we will be pleased to meet with you at your convenience.

MTI appreciates this opportunity to be of service to you and looks forward to working with you in the future. If you have questions, please call (208) 376-4748.

Respectfully Submitted, Materials Testing & Inspection, Inc.

broeder, P.G.

Geotechnical Services Manager

David O. Cram, P.E. Reviewed by General Manager 91 15. 19



Geotechnical Engineering

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Geotechnical Engineering

INTRODUCTION

This report presents results of a geotechnical investigation and analysis in support of data utilized in design of structures as defined in the 2006 International Building Code (IBC). Information in support of groundwater and storm water issues pertinent to the practice of Civil Engineering is included. Observations and recommendations relevant to the earthwork phase of the project are also presented. Revisions in plans or drawings for the proposed from those enumerated in this report should be brought to the attention of the soils engineer to determine whether changes in foundation recommendations are required. Deviations from noted subsurface conditions, if encountered during construction, should also be brought to the attention of the soils engineer.

Project Description

The proposed development is within the central portion of the City of Ontario, Malheur County, Oregon, and occupies a portion of the Section 4, Township 18 South, Range 47 East, Willamette Meridian. This project will consist of construction of a new single-story classroom building. Total settlements are limited to 1 inch. Loads of up to 2,000 pounds per lineal foot for wall footings, and column loads of up to 50,000 pounds were assumed for settlement calculations. Retaining walls are not anticipated as part of the project. MTI has not been informed of the proposed grading plan.

Authorization

Authorization to perform this exploration and analysis was given in the form of a written authorization to proceed in the form of a purchase order from Ms. Linda Florence, Ontario School Superintendent, to Kevin L. Schroeder of Materials Testing and Inspection, Inc. (MTI), dated the 22nd of February 2011. Said authorization is subject to terms, conditions, and limitations described in the Professional Services Contract entered into between CM Company, Inc. and MTI. Our scope of services for the proposed development has been provided in our proposal dated 28 January 2011 and repeated below.

Purpose

The purpose of this Geotechnical Engineering Report is to determine various soil profile components and their engineering characteristics for use by either design engineers or architects in:

- Preparing or verifying suitability of foundation design and placement
- Preparing site drainage designs
- Indicating issues pertaining to earthwork construction



Scope of Investigation

The scope of this investigation included review of geologic literature and existing available geotechnical studies of the area, review of available environmental reports, visual site reconnaissance of the immediate site, subsurface exploration of the site, field and laboratory testing of materials collected, and engineering analysis and evaluation of foundation materials.

Warranty and Limiting Conditions

MTI warrants that findings and conclusions contained herein have been formulated in accordance with generally accepted professional engineering practice in the fields of foundation engineering, soil mechanics, and engineering geology only for the site and project described in this report. These engineering methods have been developed to provide the client with information regarding apparent or potential engineering conditions relating to the site within the scope cited above and are necessarily limited to conditions observed at the time of the site visit and research. Field observations and research reported herein are considered sufficient in detail and scope to form a reasonable basis for the purposes cited above.

Exclusive Use

This report was prepared for exclusive use of the property owner(s), at the time of the report, and their retained design consultants ("Client"). Conclusions and recommendations presented in this report are based on the agreed-upon scope of work outlined in this report together with the Contract for Professional Services between the Client and Materials Testing and Inspection, Inc. ("Consultant"). Use or misuse of this report, or reliance upon findings hereof, by parties other than the Client is at their own risk. Neither Client nor Consultant make representation of warranty to such other parties as to accuracy or completeness of this report or suitability of its use by such other parties for purposes whatsoever, known or unknown, to Client or Consultant. Neither Client nor Consultant shall have liability to indemnify or hold harmless third parties for losses incurred by actual or purported use or misuse of this report. No other warranties are implied or expressed.

Report Recommendation are Limited and Subject to Misinterpretation

There is a distinct possibility that conditions may exist that could not be identified within the scope of the investigation or that were not apparent during our site investigation. Findings of this report are limited to data collected from noted explorations advanced and do not account for unidentified fill zones, unsuitable soil types or conditions, and variability in soil moisture and groundwater conditions. To avoid possible misinterpretations of findings, conclusions, and implications of this report, MTI should be retained to explain the report contents to other design professionals as well as construction professionals.

Since actual subsurface conditions on the site can only be verified by earthwork, note that construction recommendations are based on general assumptions from selective observations and selective field exploratory sampling. Upon commencement of construction, such conditions may be identified that required corrective actions, and these required corrective actions may impact the project budget. Therefore, construction recommendations in this report should be considered preliminary, and MTI should be retained to observe actual subsurface conditions during earthwork construction activities to provide additional construction recommendations as needed.



Since geotechnical reports are subject to misinterpretation, <u>do not</u> separate the soil logs from the report. Rather, provide a copy, or authorize for their use, of the complete report to other design professional or contractors.

This report is also limited to information available at the time it was prepared. In the event additional information is provided to MTI following publication of our report, it will be forwarded to the client for evaluation in the form received.

Environmental Concerns

Comments in this report concerning either onsite conditions or observations, including soil appearances and odors, are provided as general information. These comments are not intended to describe, quantify, or evaluate environmental concerns or situations. Since personnel, skills, procedures, standards, and equipment differ, a geotechnical investigation report is not intended to substitute for a geoenvironmental investigation or a Phase II/III Environmental Site Assessment. If the potential for petroleum or hazardous materials contamination or other environmental hazards relating to the site exists, MTI must be informed prior to the commencement of the geotechnical investigation. If environmental services are needed, MTI can provide, via a separate contract, those personnel who are trained to investigate and delineate soil and water contamination.

SITE DESCRIPTION

Site Access

Access to the site may be gained via Interstate 84 to Ontario Exit 376A. Turn right on East Idaho Avenue and continue as it changes to West Idaho Avenue. Travel to its intersection with SW 11th Street. The school is located immediately north of this intersection. Presently the site exists as a the Ontario High School grounds. The location is depicted in site map plates included in the **Appendix**.

Regional Geology

The subject site is located within the Western Snake River Flood Plain. Within this region, this geomorphological feature consists of a broad, deeply floored, thick sequence of alluvial silts, clays, sands and gravel. These sediments typically have been deposited on Miocene (24 to 5 million years ago) basalt flows and tuffaceous sediments of the eastern region of the Columbia Plateau. This thick sequence of generally fine-grained sediments, predominately derived from the Idaho Batholith, contains minor intercalated tuffs and basalt flows within the earliest deposits. Most of these sediments were placed during the latter part of the Miocene and are predominately of lacustrine origin. Lakes were created within this area as a result of basalt flow impoundments formed to the west along the ancestral Columbia River. Many of the fossil leaf forms uncovered in these lacustrine plain sediments indicate the presence of a wet tropical climate that prevailed at this time. Early Quaternary age (1.6 million years ago to present) sediments deposited on top of the lacustrine plain were apparently deposited during a time of extremely dry climatic conditions in which little water was present for removal, sorting, and deposition of the debris. With a gradual return to a wetter climate, the surrounding hills again began to erode to their present form. Locally within the City of Ontario, soils



generally consist of interbedded clay, silt, sand and gravel. Geologic data for the area indicates bedrock may be encountered at depths of 750 feet or more beneath the soil surface.

General Site Characteristics

This proposed addition is to be constructed within the existing school grounds at the southern most portion of the current building configuration. The area of the proposed addition is relatively flat, as currently graded. However, though beyond the parking lot to the east, elevations drop down to the lower level that most of Ontario occupies. Much of the site has undergone grading and development to bring the site to current grades. Native soils through the area consist of fine-grained silt and sand mixtures. Vegetation primarily consists of landscape grasses and shrubs.

The project site, as mentioned above will be constructed south of the existing building within that lawn area that very gently slopes to West Idaho Avenue to the south. Parking area are located to both the east and west, and the new addition will connect to the existing facility through a hallway at its northwestern extreme.

Regional storm drainage is to the east to the Snake River drainage. Storm water drainage for the site is achieved by both sheet runoff and percolation through surficial soils. Runoff predominates for the hard surfaced areas while percolation prevails across the lawn and planter sites. Storm water drainage collection and retention systems are not in place within the immediate footprint of the proposed structure, but have been developed along West Idaho Avenue.

Regional Site Climatology and Geochemistry

According to the Western Regional Climate Center (Desert Research Institute, 2006) the average precipitation for east central Oregon mountain valleys is on the order of 18 to 37 inches per year, with an annual snowfall of approximately 137 inches with a annual high of 242 inches. The monthly mean temperatures range from 22° F to 62° F with daily extremes ranging from -35° F to 100° F. The annual average wind speed is approximately 4 miles per hour from the northwest. Soils and sediments in the area are primarily derived from granitic materials and exhibit low electro-chemical potential for corrosion of metals or concretes. Surface waters, groundwaters, and soils in the region typically have pH levels ranging from 6.4 to 7.8 (USGS 2006) No indication of abnormal geochemical conditions were noted on site.

Geoseismic Setting

Soils on site are classed as Site Class D in accordance with Chapter 16 of the 2006 edition of the IBC. Structures constructed on this site should be designed per IBC requirements for such a seismic classification. Our investigation did not reveal hazards resulting from potential earthquake motions including: slope instability, liquefaction, and surface rupture caused by faulting or lateral spreading. Incidence and anticipated acceleration of seismic activity in the area is low.



Geotechnical Engineering

SOILS EXPLORATION

Exploration and Sampling Procedures

Field exploration conducted to determine engineering characteristics of subsurface materials included a reconnaissance of the project site and investigation by test pit. Test pit sites were located in the field by means of visual approximation from on-site features or known locations and are presumed to be accurate to within a few feet. Upon completion of investigation, each test pit was backfilled with loose excavated materials. Re-excavation and compaction of these test pit areas are required prior to construction of overlying structures.

In addition, samples were obtained from representative soil strata encountered. Samples obtained have been visually classified in the field by professional staff, identified according to test pit number and depth, placed in sealed containers, and transported to our laboratory for additional testing. Subsurface materials have been described in detail on logs provided in the **Appendix**. Results of field and laboratory tests are also presented on these logs. MTI recommends that these logs **not** be used to estimate fill material quantities.

Laboratory Testing Program

Along with our field investigation, a supplemental laboratory testing program was conducted to determine additional pertinent engineering characteristics of subsurface materials necessary in an analysis of the anticipated behavior of the proposed structures. Laboratory tests were conducted in accordance with current applicable American Society for Testing and Materials (ASTM) specifications, and results of these tests are to be found on the accompanying logs located in the **Appendix**. The laboratory testing program for this report included: Atterberg Limits Tests - ASTM D 4318 and Grain Size Analysis - ASTM C 117/C 136.

Soil and Sediment Profile

The profile below represents a generalized interpretation for the project site. Note that some variation may be noted for the soils from those profiles presented in the **Appendix**.

The materials encountered during exploration are quite typical for the geologic area known as the Western Snake River Flood Plain. Native surficial soils are predominately silts with fine sand grading to silty fine sand. This site is situated on a somewhat prominent hill, most likely remaining as a result of the induration noted at depth. The shallow soil consisted of silt that was brown in color, exhibited moisture contents of slightly moist, and graded from stiff to hard. Organic materials, when present, were noted to depths of roughly 0.4 foot.

At depths of 2 and 1.6 feet in test pits 1 and 2 respectively, we encountered moderately to strongly indurated silt quickly grading to silty fine sand, and this type soil extended beyond the depth of our excavations. These indurated soils were somewhat blocky to platy in appearance as excavation proceeded.

Competency of the test pit walls varied little across the site. At each location, both the silts and the indurated silty sands were very firm. In general, these indurated fine grained silt and silty sand soils will remain quite stable.



Volatile Organic Scan

No environmental concerns were identified prior to commencement of the investigation. Therefore, soils obtained during on-site activities were not assessed for volatile organic compounds by portable photoionization detector. Samples obtained during our exploration activities exhibited no odors or discoloration typically associated with this type contamination. No groundwater was encountered.

SITE HYDROLOGY

Existing surface drainage conditions are defined in the **General Site Characteristics** section. Information provided in this section is limited to observations made at the time of the investigation. Either regional or local ordinances may require information beyond the scope of this report.

Groundwater

During this field investigation, groundwater was not encountered in either of the test pits advanced. Soil moistures were slightly moist throughout each excavation.

In the vicinity of the project site, groundwater levels are controlled by residential and commercial irrigation activity and leakage from nearby canals. Maximum groundwater elevations likely occur during the late summer to fall season. Based on evidence of this investigation, a review of the local topography, and background knowledge of the area, MTI estimates groundwater depths to be well below those penetrated during our investigation . For construction purposes, it can be assumed that groundwater should remain at depths of greater than 15 feet bgs.

Soil Infiltration Rates

Soil permeability, which is a measure of the ability of a soil to transmit a fluid, was not tested in the field. Given the absence of direct measurements, for this report an estimation of infiltration is presented using generally recognized values for each soil type and gradation. Of soils comprising the generalized soil profile for this study, silts usually display rates of less than 2 inches per hour, however the indurated silts will express rates near zero. The silty fine sands that were also indurated, should also exhibit rates near zero.



Geotechnical Engineering

FOUNDATION, SLAB, AND PAVEMENT DISCUSSION AND RECOMMENDATIONS

Various foundation types have been considered for support of the proposed structure. Two requirements must be met in the design of foundations. First, the applied bearing stress must be less than the ultimate bearing capacity of foundation soils to maintain stability. Second, total and differential settlement must not exceed an amount that will produce an adverse behavior of the superstructure. Allowable settlement is usually exceeded before bearing capacity considerations become important; thus, allowable bearing pressure is normally controlled by settlement considerations.

Considering subsurface conditions and the proposed construction, it is recommended that the structures be founded upon conventional spread footings and continuous wall footings. Total settlements should not exceed 1 inch if the following design and construction recommendations are observed.

Foundation Design Recommendations

Based on data obtained from the site and test results from various laboratory tests performed, MTI recommends following guidelines for the net allowable soils bearing capacity:

Som Domining Conferency			
Footing Depth	ASTM D 1557 Subgrade Compaction	Net Allowable Soil Bearing Capacity	
Footings must bear on competent, native, indurated silty fine sand soils or compacted structural fill. Existing fill materials must be completely removed from below foundation elements. ¹ Excavation depths ranging from 1.6 to 2 feet bgs should be anticipated to expose proper bearing soils.	Not Required for Native Soil 95% for Structural Fill	$2,500 \text{ lbs/ft}^2$ A $^{1}/_{3}$ increase is allowable for short-term loading, which is defined by seismic events or designed wind speeds.	
MTI manufa that a qualified gootechnical en	gineer or engineering tech	mician verify the hearing so	

Soil Bearing Capacity

¹<u>MTI recommends that a qualified geotechnical engineer or engineering technician verify the bearing soil</u> suitability for each structure at the time of construction.

Footings should be proportioned to meet either the stated soil bearing capacity or the 2006 IBC minimum requirements. Total settlement should be limited to approximately 1 inch, and differential settlement should be limited to approximately ½ inch. Objectionable soil types encountered at the bottom of footing excavations should be removed and replaced with structural fill. Excessively loose or soft areas that are encountered in the footing subgrade will require over-excavation and backfilling with structural fill. To minimize the effects of slight differential movement that may occur because of variations in character of supporting soils and seasonal moisture content, MTI recommends continuous footings be suitably reinforced to make them as rigid as possible. For frost protection, the bottom of external footings should be 30 inches below finished grade.



Floor Slab-on-Grade

Organic, loose, or obviously compressive materials must be removed prior to placement of concrete floors or floor-supporting fill. In addition, the remaining subgrade should be treated in accordance with guidelines presented in the **Earthwork** section. Areas of excessive yielding should be excavated and backfilled with structural fill. Fill used to increase the elevation of the floor slab should meet requirements detailed in the **Structural Fill** section. Fill materials must be compacted to a minimum 95 percent of maximum density as determined by ASTM D 1557.

A free-draining granular mat (drainage fill course) should be provided below slabs-on-grade. This should be a minimum of 4 inches in thickness and properly compacted. The mat should consist of a sand and gravel mixture, complying with Idaho Standards for Public Works Construction (ISPWC) specifications for ³/₄-inch (Type 1) crushed aggregate. A moisture-retarder should be placed beneath floor slabs to minimize potential ground moisture effects on moisture-sensitive floor coverings. The moisture-retarder should be at least 15-mil in thickness and have a permeance of less than 0.3 US perms as determined by ASTM E 96. Placement of the moisture-retarder will require special consideration with regard to effects on the slab-on-grade. The granular mat should be compacted to no less than 95 percent of maximum density as determined by ASTM D 1557. Upon request, MTI can provide further consultation regarding installation.

CONSTRUCTION CONSIDERATIONS

Recommendations in this report are based upon structural elements of the project being founded on competent silty fine sands, poorly graded sands with gravel, or compacted structural fill. Structural areas should be stripped to an elevation that exposes these soil types.

Earthwork

Excessively organic soils, deleterious materials, or disturbed soils generally undergo high volume changes when subjected to loads, which is detrimental to subgrade behavior in the area of pavements, floor slabs, structural fills, and foundations. landscape grasses with associated root systems were noted at the time of our investigation. It is recommended that organic or disturbed soils, if encountered, be removed to depths of 1 foot (minimum), and wasted or stockpiled for later use. Stripping depths should be adjusted in the field to assure that the entire root zone or disturbed zone or topsoil are removed prior to placement and compaction of structural fill materials. Exact removal depths should be determined during grading operations by a qualified geotechnical representative, and should be based upon subgrade soil type, composition, and firmness or soil stability. If underground storage tanks (USTs), underground utilities, wells, or septic systems are discovered during construction activities, they must be decommissioned then removed or abandoned in accordance with governing Federal, State, and local agencies. Excavations developed as the result of such removal must be backfilled with structural fill materials as defined in the **Structural Fill** section.



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MTI should oversee subgrade conditions (i.e., moisture content) as well as placement and compaction of new fill (if required) after native soils are excavated to design grade. Recommendations for structural fill presented in this report can be used to minimize volume changes and differential settlements that are detrimental to the behavior of footings, pavements, and floor slabs. Sufficient density tests should be performed to properly monitor compaction. For structural fill beneath building structures, one in-place density test per lift for every 5,000 square feet is recommended. In parking and driveway areas, this can be decreased to one test per lift for every 10,000 square feet.

Dry Weather

If construction is to be conducted during dry seasonal conditions, many problems associated with soft soils may be avoided. However, some rutting of subgrade soils may be induced by shallow groundwater conditions related to springtime runoff or irrigation activities during late summer through early fall. Solutions to problems associated with soft subgrade soils are outlined in the **Soft Subgrade Soils** section. Problems may also arise because of lack of moisture in native and fill soils at time of placement. This will require the addition of water to achieve near-optimum moisture levels. Low-cohesion soils exposed in excavations may become friable, increasing chances of sloughing or caving. Measures to control excessive dust should be considered as part of the overall health and safety management plan.

Wet Weather

If construction is to be conducted during wet seasonal conditions (commonly from mid-November through May), problems associated with soft soils <u>must</u> be considered as part of the construction plan. During this time of year, fine-grained soils such as silts and clays will become unstable with increased moisture content, and eventually deform or rut. Additionally, constant low temperatures reduce the possibility of drying soils to near optimum conditions.

Soft Subgrade Soils

Shallow fine-grained subgrade soils that are high in moisture content should be expected to pump and rut under construction traffic. During periods of wet weather, construction may become very difficult if not impossible. The following recommendations and options have been included for dealing with soft subgrade conditions:

- Track-mounted vehicles should be used to strip the subgrade of root matter and other deleterious debris. Heavy rubber-tired equipment should be prohibited from operating directly on the native subgrade and areas in which structural fill materials have been placed. Construction traffic should be restricted to designated roadways that do not cross, or cross on a limited basis, proposed roadway or parking areas.
- Construction roadways on soft subgrade soils should consist of a minimum 2-foot thickness of large cobbles of 4 to 6 inches in diameter with sufficient sand and fines to fill voids. Construction entrances should consist of a 6-inch thickness of clean, 2-inch minimum, angular drain-rock and must be a minimum of 10 feet wide and 30 to 50 feet long. During the construction process, top dressing of the entrance may be required for maintenance.



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- Scarification and aeration of subgrade soils can be employed to reduce the moisture content of wet subgrade soils. After stripping is complete, the exposed subgrade should be ripped or disked to a depth of 1¹/₂ feet and allowed to air dry for 2 to 4 weeks. Further disking should be performed on a weekly basis to aid the aeration process.
- Alternative soil stabilization methods include use of geotextiles, lime, and cement stabilization. MTI is available to provide recommendations and guidelines at your request.

Frozen Subgrade Soils

Prior to placement of structural fill materials or foundation clements, frozen subgrade soils must either be allowed to thaw or be stripped to depths that expose non-frozen soils and wasted or stockpiled for later use. Stockpiled materials must be allowed to thaw and return to near-optimal conditions prior to use as structural fill.

Structural Fill

Soils recommended for use as structural fill are those classified as GW, GP, SW, and SP in accordance with the Unified Soil Classification System (USCS) (ASTM D 2487). Use of silty soils (USCS designation of GM, SM, and ML) as structural fill may be acceptable. <u>However, use of silty soils (GM, SM, and ML) as structural fill below footings is prohibited</u>. These materials require very high moisture contents for compaction and require a long time to dry out if natural moisture contents are too high and may also be susceptible to frost heave under certain conditions. Therefore these materials can be quite difficult to work with as moisture content, lift thickness, and compactive effort becomes difficult to control. If silty soil is used for structural fill, lift thicknesses should not exceed 6 inches (loose), and fill material moisture must be closely monitored at both the working elevation and the elevations of materials already placed. Following placement, silty soils <u>must</u> be protected from degradation resulting from construction traffic or subsequent construction.

Recommended granular structural fill materials, those classified as GW, GP, SW, and SP, should consist of a 6-inch minus select, clean, granular soil with no more than 50 percent oversize (greater than ³/₄-inch) material and no more than 12 percent fines (passing No. 200 sieve). These fill materials should be placed in layers not to exceed 12 inches in loose thickness. Prior to placement of structural fill materials, surfaces must be prepared as outlined in the **Construction Considerations** section. Structural fill material should be moisture-conditioned to achieve optimum moisture content prior to compaction. For structural fill below footings, areas of compacted backfill must extend outside the perimeter of the footing for a distance equal to the thickness of fill between the bottom of foundation and underlying soils, or 5 feet, whichever is less.

Each layer of structural fill must be compacted, as outlined below:

- <u>Below Structures and Rigid Pavements</u>: A minimum of 95 percent of the maximum dry density as determined by ASTM D 1557.
- <u>Below Flexible Pavements</u>: A minimum of 92 percent of the maximum dry density as determined by ASTM D 1557 or 95 percent of the maximum dry density as determined by ASTM D 698.



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The ASTM D 1557 test method must be used for samples containing up to 40 percent oversize (greater than ³/₄-inch) particles. If material contains more than 40 percent but less than 50 percent oversize particles, compaction of fill must be confirmed by proof rolling each lift with a 10-ton vibratory roller (or equivalent) until the maximum density has been achieved. Density testing must be performed after each proof rolling pass until the in-place density test results indicate a drop (or no increase) in the dry density, defined as the maximum density or "break over" point. The number of required passes should be used as the requirement on the remainder of fill placement. Material should contain sufficient fines to fill void spaces, and must not contain more than 50 percent oversize particles.

Backfill of Walls

Backfill materials must conform to the requirements of structural fill, as defined in this report. For wall heights greater than 2.5 feet, the maximum material size should not exceed 4 inches in diameter. Placing oversized material against rigid surfaces interferes with proper compaction, and can induce excessive point loads on walls. Backfill shall not commence until the wall has gained sufficient strength to resist placement and compaction forces. Further, retaining walls above 2.5 feet in height shall be backfilled in a manner that will limit the potential for damage from compaction methods and/or equipment. It is recommended that only small hand-operated compaction equipment be used for compaction of backfill within a horizontal distance equal to the height of the wall, measured from the back face of the wall.

Backfill should be compacted in accordance with the specifications for structural fill, except in those areas where it is determined that future settlement is not a concern, such as planter areas. In nonstructural areas, backfill must be compacted to a firm and unyielding condition.

Excavations

Shallow excavations that do not exceed 4 feet in depth may be constructed with side slopes approaching vertical. Below this depth, it is recommended that slopes be constructed in accordance with Occupational Safety and Health Administration (OSHA) regulations, section 1926, subpart P. Based on these regulations, on-site soils are classified as type "C" soil, and as such, excavations within these soils should be constructed at a maximum slope of 1½ foot horizontal to 1 foot vertical (1½H:1V) for excavations up to 20 feet in height. Excavations in excess of 20 feet will require additional analysis. Note that these slope angles are considered stable for short-term conditions only, and will not be stable for long-term conditions.

During our subsurface exploration, test pit sidewalls generally exhibited little indication of collapse; however, sloughing of fill materials and native granular sediments from test pit sidewalls was observed, particularly after penetration of the water table. For deep excavations, native granular sediments cannot be expected to remain in position. These materials are prone to failure and may collapse, thereby, undermining upper soils layers. This is especially true when excavations approach depths near the water table. Care must be taken to ensure that excavations are properly backfilled in accordance with procedures outlined in this report.



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Groundwater Control

Groundwater was encountered during the investigation but is anticipated to be below the depth of construction. Special precautions may be required for control of surface runoff and subsurface seepage. It is recommended that runoff be directed away from open excavations. Silty soils may become soft and pump if subjected to excessive traffic during time of surface runoff. Ponded water in construction areas should be drained through methods such as trenching, sloping, crowning grades, nightly smooth drum rolling, or installing a French drain system. Additionally, temporary or permanent driveway sections should be constructed if extended wet weather is forecasted.

GENERAL COMMENTS

When plans and specifications are complete, or if significant changes are made in the character or location of the proposed development, consultation with MTI should be arranged as supplementary recommendations may be required. It is recommended that suitability of subgrade soils and compaction of structural fill materials be verified prior to placement of structural elements. Additionally, monitoring and testing should be performed to verify that suitable materials are used for structural fill and that proper placement and compaction techniques are utilized.



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APPENDICES

ACRONYM LIST

American Association of State Highway and Transportation Officials AASHTO: Asphalt Cement Concrete Pavement ACCP: ACHD: Ada County Highway District American Society for Testing and Materials ASTM: AU: Auger sample below ground surface bgs: Carbide bit CB: California Bearing Ratio **CBR**: natural dry unit weight, pcf D: DB: diamond bit Dames & Moore sampling tube DM: GS: grab sample IBC: International Building Code Idaho Standards for Public Works Construction **ISPWC:** Liquid Limit LL: M: water content MSL: mean sea level Standard "N" penetration: blows per foot, Standard Penetration Test N: NP: nonplastic Oregon Department of Transportation **ODOT:** Portland Cement Concrete Pavement PCCP: PERM: vapor permeability Plasticity Index PI: photoionization detector PID: **PVC**: polyvinyl chloride cone penetrometer value, unconfined compressive strength, psi Qc: Penetrometer value, unconfined compressive strength, tsf Qp: Unconfined compressive strength, tsf Qu: Standard Penetration Test (140:pound hammer falling 30 in. on a 2:in. split spoon) SPT: split spoon (13/8:in. inside diameter, 2:in. outside diameter, except where noted) SS: shelby tube (3:in. outside diameter, except where noted) ST: Unified Soil Classification System **USCS: USDA:** United States Department of Agriculture underground storage tank UST: vane value, ultimate shearing strength, tsf V: WT: apparent groundwater level



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GEOTECHNICAL GENERAL NOTES

RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION			
Coarse-Grained Soils	SPT Blow Counts (N)	Fine-Grained Soils	SPT Blow Counts (N)
Very Loose:	< 4	Very Soft:	< 2
Loose:	4-10	Soft:	2-4
Medium Dense:	10-30	Medium Stiff:	4-8
Dense:	30-50	Stiff:	8-15
Very Dense:	>50	Very Stiff:	15-30
		Hard:	>30

Moisture Content				
Description Field Test				
Dry	Absence of moisture, dusty, dry to touch			
Moist	Damp but not visible moisture			
Wet	Visible free water, usually soil is below water table			

Cementation			
Description Field Test			
Weakly	Crumbles or breaks with handling or slight finger pressure		
Moderately	Crumbles or beaks with considerable finger pressure		
Strongly	Will not crumble or break with finger pressure		

PARTICLE SIZE					
Boulders:	>12 in.	Coarse-Grained Sand:	5 to 0.6 mm	Silts:	0.075 to 0.005 mm
Cobbles:	12 to 3 in.	Medium-Grained Sand:	0.6 to 0.2 mm	Clays:	<0.005 mm
Gravel:	3 in. to 5 mm	Fine-Grained Sand:	0.2 to 0.075 mm		

UNIFIED SOIL CLASSIFICATION SYSTEM				
Major Divisions		Symbol	Soil Descriptions	
	Gravel & Gravelly Soils	GW	Well-graded gravels; gravel/sand mixtures with little or no fines	
		GP	Poorly-graded gravels; gravel/sand mixtures with little or no fines	
Coarse-Grained	<50%	GM	Silty gravels; poorly-graded gravel/sand/silt mixtures	
Soils	passes No.4 sieve	GC	Clayey gravels; poorly-graded gravel/sand/clay mixtures	
<50% passes No.200 sieve	Sand & Sandy Soils >50% coarse fraction passes No.4 sieve	SW	Well-graded sands; gravelly sands with little or no fines	
		SP	Poorly-graded sands; gravelly sands with little or no fines	
		SM	Silty sands; poorly-graded sand/gravel/silt mixtures	
		SC	Clayey sands; poorly-graded sand/gravel/clay mixtures	
	Silts & Clays LL < 50	ML	Inorganic silts; sandy, gravelly or clayey silts	
Eine Creined		CL	Lean clays; inorganic, gravelly, sandy, or silty, low to medium-plasticity clays	
Soils >50%		OL	Organic, low-plasticity clays and silts	
passes No.200 sieve	Silts & Clays LL > 50	MH	Inorganic, elastic silts; sandy, gravelly or clayey elastic silts	
		CH	Fat clays; high-plasticity, inorganic clays	
		OH	Organic, medium to high-plasticity clays and silts	
Highly Organic Soils		PT	Peat, humus, hydric soils with high organic content	



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Environmental Services

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GEOTECHNICAL INVESTIGATION TEST PIT LOG

Test Pit Log #: TP-1 Date Advanced: 24 Feb 2011 Logged by: Kevin L. Schroeder, P.G.

Excavated by: Warrington Construction

Total Depth: 13.5 Feet bgs

Location: See Site Map Plates

Depth to Water Table: Not Encountered

Depth (Feet bgs)	Field Description and USCS Soil and Sediment Classification	Sample Type	Sample Depth (Feet bgs)	Qp	Lab Test ID
0.0-2.0	Fine Sandy Silt (ML): Brown, slightly moist, stiff to hard. Organic materials extended through the upper 0.4 foot. Becomes moderately cemented at depth.				
2.0-13.5	Silty Fine Sand (SM): Brown, dry to slightly moist, dense to very dense. With moderate to strong induration. Soils excavate with a Blocky or platy appearance.				

Test Pit Log #: TP-2 Date Advanced: 24 Feb 2011

Logged by: Kevin L. Schroeder, P.G.

Location: See Site Map Plates

Excavated by: Warrington Construction

Total Depth: 11.1 Feet bgs

Depth to Water Table: Not Encountered

Depth	Field Description and	Sample	Sample Depth	Op	Lab
(Feet bgs)	USCS Soil and Sediment Classification	Туре	(Feet bgs)	хr	Test ID
0.0-1.6	Fine Sandy Silt (ML): Brown, slightly moist, stiff to hard. Organic materials extended through the upper 0.3 foot. Bacomas moderately camented at depth				
1.6-11.1	Silty Fine Sand (SM): Brown, dry to slightly moist, dense to very dense. With moderate to strong induration. Soils excavate with a Blocky or platy appearance.				



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PLATE 1: TOPOGRAPHIC MAP



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PLATE 2: SITE MAP






Appendix C: Construction Cost Estimate Worksheets

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ENGINEER	'S OPINION OF PROBA	BLE COST - HIGH S	CHOOL GYM SEISMIC RI	EHABILI	TATION		
		SUMMARY					
Description	Deficiencies (Ref. Seismic Evaluation Report Sec. 4.0)	Quantity	Units	Un	it Price	c	Total Price for Construction Item
		GENERAL CONDIT	IONS				
General Conditions Preconstruction Services		10% 2%	%			\$ \$	135,490.00 27,098.00
Escalation Bonding & Insurance Contractor Profit & Overhead		7% 3% 6%	% %			\$ \$ \$	106,224.16 45,524.64 91.049.28
			Genera	al Conditio	ons Subtotal	\$	405,386.08
		Non-Structural Eler	nents				
Misc MEP Misc Non-Structural	N1-N5 N1-N5	1 1	Lump Sum Lump Sum	\$	88,100.00 35,300.00	\$	88,100.00 35,300.00
			N	on-Structu	ral Subtotal	\$	123,400.00
	Cons	truction Cost Per B	uilding Part				
			Buildin	ig Part 'GY	/M' Subtotal	\$	1,231,500.00
			Sub-Total C	onstruc	tion Cost	\$	1,760,300.00
N6			Contingen	су	15%	\$	264,045.00
N6			Total C	onstruc	tion Cost	\$	2,024,345.00
		N6					
Engineering Architectural Consulting Structural / Rehabilitation Engineering Geotechnical Consulting Materials Testing for Design				\$ \$ \$	30,400.00 222,700.00 10,000.00 15,000.00	\$	278,100.00
Construction Management Construction Sub-Total Construction Cost Special Inspection Services for Construction Permitting Fees				\$ \$ \$	1,760,300.00 10,100.00 60,700.00	\$ \$	60,700.00 1,831,100.00
Relocation of FF&E Contingency			Total Project Fundin	a Reau	irement	\$ \$	26,400.00 264,045.00 2 460 345 00

ENGIN	EER'S OPINION OF PROBABLE O	OST - HIGH SCHOO	OL GYM SEISMIC REHA	BILITATION	
	BUIL	DING PART - 'GYM'	1		
Description	Deficiencies (Ref. Seismic Evaluation Report Sec. 4.0)	Quantity	Units	Unit Price	Total Price for Construction Item
	Demolition	n & Asbestos Abate	ment		
Built-Up Roof Demo Soft Demolition - Ceiling Primary Gym Soft Demolition - Ceiling Mezzanine Floor Tile Abatement Concrete Saw-Cutting Glass Tile Demolition	\$1, \$2, \$4, \$12, \$13 \$1, \$2, \$4, \$12, \$13 \$3, \$6, \$7, \$10, \$11, \$12 \$7, \$10 \$7, \$10	14,500 3,500 4,000 4000 600 650	Square Foot Square Foot Square Foot Square Foot Square Foot Square Foot Demolition	\$ 4.00 \$ 2.00 \$ 20.00 \$ 15.00 \$ 15.00 \$ 25.00 & Asbestos Subtota	\$ 58,000.00 \$ 7,000.00 \$ 8,000.00 \$ 80,000.00 \$ 9,000.00 \$ 16,250.00 \$ 178,250.00
	Foundation / Flo	or Strenathenina C	onstruction		
Shear Wall Footings - Wood Walls Diaphragm Attachments - Out-of-Plane Diaphragm Attachments - In-Plane Shear Concrete Repair & Patching Flooring Protection Floor Finish Patch / Replacement Connecting Extg Concrete Walls to footings	S7, S10 S6 S6, S7 S7, S10 S1, S2, S4, S8, S9, S12, S13, S14 S7, S10 S8	150 600 500 600 10000 4000 500	Linear Foot Linear Foot Square Foot Square Foot Square Foot Linear Foot	\$ 300.00 \$ 50.00 \$ 20.00 \$ 15.00 \$ 3.00 \$ 7.00 \$ 60.00	\$ 45,000.00 \$ 30,000.00 \$ 10,000.00 \$ 9,000.00 \$ 30,000.00 \$ 30,000.00 \$ 28,000.00 \$ 30,000.00
	•	•	Found	dation Level Subtota	\$ 182,000.00
	Wall Stre	ngthening Construc	ction		
New 2x Framed Shear Walls Painting of Wali Pilaster Replacement Clay Tile Ties 2x Wali Infiil Interior Wali Finish Repair Exterior Finish Repair / Installation	S7, S10 S1, S2, S7, S10 S9, S14 S3, S11 N6 N6 N6	6000 18,500 12 4500 650 650 650	Square Foot Square Foot EA Square Foot Square Foot Square Foot Square Foot	\$ 10.00 \$ 3.00 \$ 15,000.00 \$ 18.00 \$ 10.00 \$ 25.00	\$ 60,000.00 \$ 55,500.00 \$ 180,000.00 \$ 81,000.00 \$ 6,500.00 \$ 5,000.00 \$ 16,250.00
			Wall Str	engthening Subtota	\$ 404.250.00
	Roof Stre	ngthening Constru	ction		
New Roof Sheathing Diaphragm Attachments - Out-of-Plane Diaphragm Attachments - In-Plane Shear Ceiling Repair Seismic Isolation from Adjacent Building New Single Ply Roof New Composite Roof Shingles Light Gauge Straps X-Bracing	S1, S2, S4, S12, S13 S2, S12 S1, S4, S13 S1, S2, S3, S4, S6, S7, S10, S11, S12, S13 S5 S1, S2, S4, S12, S13 S1, S2, S4, S12, S13 S1, S2, S4, S12 S4	14,500 500 750 8000 350 2500 12000 20 6	Square Foot Linear Foot Linear Foot Square Foot Linear Foot Square Foot Square Foot EA EA	\$ 4.00 \$ 50.00 \$ 20.00 \$ 3.00 \$ 400.00 \$ 8.00 \$ 5.00 \$ 250.00 \$ 20,000.00	\$ 58,000.00 \$ 25,000.00 \$ 15,000.00 \$ 24,000.00 \$ 20,000.00 \$ 20,000.00 \$ 50,000.00 \$ 50,000.00 \$ 120,000.00 \$ 120,000.00 \$ 120,000.00 \$ 120,000.00 \$ 50,000.00 \$ 120,000.00 \$ 50,000.00 \$
			Roof Str	rengthening Subtota	\$ 467,000.00
		Buildi	ng Part 'GYM' - Total Co	Instruction Cost	\$ 1,231,500.00



Appendix D: Benefit Cost Analysis Worksheets

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Oregon Seismic Rehabilitation Grant Application: Benefit-Cost Analysis

Entity:	Ontario School District 8C		
Point of Contact	Bob Bennett		
Telephone:	541-881-1274		
E-Mail:	bbennett@ontario.k12.or.us		
BCA File Name:	BCA Ontario School District	BCA Date:	11/12/2020

Building Name:	Ontario High School	
Site ID:	Malh_sch05	
Facility Use:	School	

Is the Building in the Oregon BCA Tool Database: Yes or No?

How Many Structurally Different Building Parts Are There?

Unique Building ID Number	Building Part Square Footage	Percent of Total SF	Percent of Occupancy	Percent of Operating Budget	Building Part Being Retrofitted?
Malh_sch05A	18,500	13.32%	13.31%	13.31%	Yes
Malh_sch05B	67,000	48.24%	48.24%	48.24%	No
Malh_sch05C	2,100	1.51%	1.51%	1.51%	No
Malh_sch05D	16,100	11.59%	11.59%	11.59%	No
Malh_sch05E	29,400	21.17%	21.17%	21.17%	No
Malh_sch05F	5,800	4.18%	4.18%	4.18%	No
Totals:	138,900	100.00%	100.00%	100.00%	

Seismic Retrofit Cost Estimate per SRGP Application:

\$2,460,345

Yes

Database

3

User-Defined

6

Page 1

Benefit-Cost Analysis: Summary Results

Ontario High School

Building Part	Benefits	Benefits by Category	
Malh_sch05A	\$830,003	Avoided Damages and Losses	
Malh_sch05B		Building Damage	\$243,844
Malh_sch05C		Contents Damage	\$60,961
Malh_sch05D		Displacement Costs	\$24,624
Malh_sch05E		Loss of Function Costs	\$6,750
Malh_sch05F		Casualties	\$493,825
		Total	\$830,003
		4	
		4	
Total Benefits	\$830,003		
Total Cost	\$2,460,345		
Benefit-Cost	0.007		
Ratio	0.337		

Occupancy Data

For benefit-cost analysis, the average occupancy on a 24/7/365 basis is used for casualty calculations.

Enter data below ONLY for the occupancy categories applicable to this building - all other green cell entries should be left blank.

There are entries below for: employees, visitors, students, meetings or special events and patients.

NOTE: for buildings with similar occupancies each month, complete the tables on the left side only.

NOTE: For buildings with different summer occupancies, complete the tables both on the left and right sides. If this does not apply, enter "0" for number of summer months

Employees: Summer Months

Number of

Months:

Employees: 12 Months per Year or Academic Year for Schools					
Day of Week	Time of Day	Hours per Day	Average Employees in Building	Calculated 24/7/365 Occupancy	
Monday - Friday	Day	8	79	15.632	
Monday - Friday	Evening	8	4	0.791	
Monday - Friday	Night				
Saturday	Day				
Saturday	Evening				
Saturday	Night				
Sunday	Day				
Sunday	Evening				
Sunday	Night				
			Subtotal:	16.423	

Day of Week	Time of Day	Hours per Day	Average Employees in Building	Calculated 24/7/365 Occupancy
Monday - Friday	Day	6	19	0.564
Monday - Friday	Evening	8	4	0.158
Monday - Friday	Night			
Saturday	Day			
Saturday	Evening			
Saturday	Night			
Sunday	Day			
Sunday	Evening			
Sunday	Night			
			Subtotal:	0.722

Visitors: 12 Months per Year or Academic Year for Schools					
Day of Week	Average Number of Visitors Per Day	Average Time in Building (Minutes)	Calculated 24/7/365 Occupancy		
Monday - Friday	30	15	0.186		
Saturday					
Sunday					
		Subtotal:	0.186		

Visitors: Summer I	Months	Number of Months:	2
Day of Week Average Number of Visitors Per Day		Average Time in Building (Minutes)	Calculated 24/7/365 Occupancy
Monday - Friday			
Saturday			
Sunday			
		Subtotal:	

K-12 Students: Academic Year	
Average Daily Number of Students:	750
Hours per Day:	7.5
Days per Year:	178
Calculated 24/7/365 Occupancy:	114.298

College Students: Academic Year					
Num	ber of Wee	eks per Year	of Classes:		
Course	Class Duration (hours)	Number of Class Periods per Week	Average Number of Students per Class	Calculated 24/7/365 Occupancy	
1 Hr. Courses	1				
1.5 Hr. Courses	1.5				
2 Hr. Courses	2				
3 Hr. Courses	3				
Other	N/A				
Other	N/A				
			Subtotal:		

K-12 Students: Summer School					
Average Daily Number of Students:	40				
Hours per Day:	6				
Days per Year:	25				
Calculated 24/7/365 Occupancy:	0.685				

College Students:	Summer S	chool								
Number of Weeks per Year of Classes:										
Course	Class Duration (hours)	Calculated 24/7/365 Occupancy								
1 Hr. Courses	1									
1.5 Hr. Courses	1.5									
2 Hr. Courses	2									
3 Hr. Courses	3									
Other	N/A									
Other	N/A									
			Subtotal:							

Occupancy Data

Meetings, Sports Events etc.									
Event	Events per Year	People per Event	Average Duration per Event (hours)	Calculated 24/7/365 Occupancy					
Athletic Summer Wo	60	40	2	0.548					
Fall Sports Practices	50	140	2	1.598					
Football Games (loc	5	120	6	0.411					
Volleyball Games	9	200	5	1.027					
Winter Sports Praction	60	130	6	5.342					
Basketball Games	15	400	5	3.425					
Wrestling Matches (I	2	150	3	0.103					
OHS Wrestling Tou	1	400	20	0.913					
Middle School Wrest	1	200	20	0.457					
Early Season Spring	15	100	3	0.514					
Spring Practices (Lo	60	150	3	3.082					
Athletic Trainer Offic	178	20	1	0.406					
School Assemblies	5	850	1	0.485					
Blood Drive	1	500	10	0.571					
Community usage Fi	1	500	2	0.114					
Class Reunion (tours	1	60	1	0.007					
Drama Productions	1	300	4	0.137					
Student Body Events	15	30	2	0.103					
College Visits	6	40	2	0.055					
CTE Programs	142	25	4.5	1.824					
			Subtotal:	21.122					

Patients										
Av	Average Daily Number of In-Patients									
	Average	Percentage	Occupancy							
Day of Week	Average Out-Patie	Number of nts per Day	Average Time in Building (Hours)	Calculated 24/7/365 Occupancy						
Monday - Friday										
Saturday										
Sunday										
		0								
			In-Patients:							
		To	tal Patients:							

SUMMARY OCCUPANCY DATA: Average 24/7/365 Occupancy

Occupancy Category	12 Months or Academic Year	Summer			
Employees	16.423	0.722			
Visitors	0.186				
Students: K-12	114.298	0.685			
Students: College					
Meetings & Special Events	21.122	N/A			
Patients		N/A			
Subtotals:	152.028	1.407			
Avg 24/7/365 Occupancy:	153.435				

	DATA DOCUMENTATION: OCCUPANCY							
Provide brief documentation below and/or references to other documents included with your application (with page number), for the sources of the occupancy data and estimates.								
Employees: Numbers	https://www.ontario.k12.or.us/documents/Departments/Finance/Budget/20- 21%20Adopted%20Budget%20Document.pdf							
Employees: Hours Per Day								
Visitors: Number Per Day								
Visitors: Average Time in Building								
K-12 Students: Number								
K-12 Students: Hours Per Day								
K-12 Students: Days Per Year								
Additional Comments Re: above Occupancy Data								
College Student Occupancy Data								

Meetings, Sports Events and Other Special Events									
NOTES	It is <u>NOT</u> necessary to provide separate documentation for every special event listed. Rather, provide an Overview Statement of the sources of special event occupancy estimates.								
NUTES:	Provide specific documentation for high occupancy events or very frequent events with high Calculated 24/7/365 Occupancy, especially for occupancies that appear "unusual" or potentially "out of bounds."								
Overview Statement Re: Sources of Special Events Occupancy Estimates	locker room space available on campus. Visiting football teams also must use gym locker rooms. Our athletic training office is also in the gymnasium area. During Volleyball, Basketball and Wrestling seasons, the space will host multiple games a year. In addition to sporting events we also hold school assemblies in the gym. (Approx. 5 per year)								

Hospital Patient Data							
Number of Patient Beds							
Average Daily Number of In-Patients							
Average Daily Number of Out-Patients							
Average Time in Building for Out-Patients							

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Annual Operating Budget for this Facility

Em	ployees:				
	Classification	Number of FTEs ¹	Average Annual Salary per Employee	Total Benefits as Percent of Salary	Annual Salary and Benefits
1	Licensed Teachers	46.58	\$56,722	39.00%	\$3,672,534
2	Classified Staff	28.72	\$24,001	39.00%	\$958,139
3	Administrators	4	\$98,083	39.00%	\$545,341
4					\$0
5					\$0
6					\$0
7					\$0
8					\$0
9					\$ <mark>0</mark>
10					\$ <mark>0</mark>
	Total Number of FTEs:	79.30		Subtotal:	\$5,17 <mark>6,015</mark>

¹ FTEs: Full time equivalents

Other Building Expenses

Category		Annual Cost						
Supplies		\$159,320						
Building Maintenance		\$8,500						
Utilities		\$178,200						
Insurance		\$36,000						
Rent								
Average Annual Capital Goods								
OTHER: specify below								
Percent of District Office/Headquarters Annual Operating Budget Attributed to This Building:	0.00%	\$0						
If rent is zero (building owned), a proxy rent is ca automatically, based on the value of the building:	If rent is zero (building owned), a proxy rent is calculated automatically, based on the value of the building:							
	Subtotal:	\$3,882,300						

Total Building Annual Operating Budget: \$9,058,315

Ontario High School, Sheet: Budget

Annual Operating Budget for this Facility

For entities with multiple facilities, a fraction of the operating budget for a District Office of Headquarters building may be attributed to the building being retrofitted. That is, the annual operating budget for the building above may include part of the operating budget for the District Office or Headquarters Building. If so, complete the following tables:

Dist	trict Office/Headquarters Building Emplo	oyees			
	Classification	Number of FTEs ¹	Average Annual Salary per Employee	Total Benefits as Percent of Salary	Annual Salary and Benefits
1					\$0
2					\$0
3					\$0
4					\$0
5					\$0
6					\$0
7					\$0
8					\$0
9					\$0
10					\$ <mark>0</mark>
	Total Number of FTEs:	0.00		Subtotal:	\$ 0

District Office/Headquarters Building Expenses

Category		Annual Cost
Supplies		
Building maintenance		
Utilities		
Insurance		
Rent		
Average Annual Capital Goods		
OTHER: specify below		
Enter replacement value of building:		
If rent is zero (building owned), a proxy rent is ca	lculated	\$0
	Subtotal:	\$0
in tent is zero (bunding owned), a proxy tent is ca	Subtotal:	\$0 \$0

Total Annual Operating Budget for District Office/Headquarters Building: \$0

DOCUMENTATION: ANNUAL OPERATING BUDGET		
NOTE:	The Annual Operating Budget is used as a "proxy" for the value of services provided from a building and is used to count the benefits of avoiding loss of service in future earthquake events.	
Operating Budget by Categories	Link to Adopted budget document for 2020-21: https://www.ontario.k12.or.us/documents/Departments/Finance/Budget/20- 21%20Adopted%20Budget%20Document.pdf	
Percent of District Office or Headquarters Annual Operating Budget Attributed to the Facility		

Building Part A: Data for Benefit-Cost Analysis

Building Name:	Ontario High School
Building ID:	Malh_sch05A
Building Part Name / Description:	Gymnasium

Evaluation for Building Part A

Seismic Hazard Data		
Region of Seismicity	Moderate	
PGA Ground Motion (g)	2% in 50 year	0.212
	5% in 50 year	0.133
	10% in 50 year	0.085
	20% in 50 year	0.053
Spectral Accelerations (g)	S _{xs} , 2% in 50 year	0.486
	S _{x1} , 2% in 50 year	0.229
	S _{xs} , 10% in 50 year	0.186
	S _{x1} , 10% in 50 year	0.098

Data Entry Item	User Entered Values	Default Values	Used for BCA
Site Data			
County		Malheur	Malheur
Decimal Latitude		44.02962	44.02962
Decimal Longitude		116.97773	116.97773
Soil Type		D	D
Construction Data			
Primary Structure Type (FEMA 154)		C2	C2
Number of Stories		1	1
Year Built	1950	1980	1950
Rapid Visual Screening Data			
Severe Vertical Irregularity		No	No
Moderate Vertical Irregularity	Yes	Yes	Yes
Plan Irregularity	Yes	Yes	Yes
Pre-Code	Yes	No	Yes
Post-Benchmark		No	No
Building Data			
Historic Importance		None	None
Historic Adjustment Modifier	N/A	N/A	1.00
Building Square Footage - SF	18,500	N/A	18,500
Building Replacement - \$/SF		\$360.00	\$360.00
Building Replacement Value - \$	N/A	N/A	\$6,660,000
Historic Building Replacement - \$/SF	N/A	N/A	\$360.00
Historic Building Replacement Value - \$	N/A	N/A	\$6,660,000
Contents Value - % of Building Value		25%	25%
Displacement Costs - \$/SF/month		\$2.50	\$2.50
Displacement Costs - One Time		\$3.00	\$3.00
Average Annual Occupancy	20.42	20.44	20.42
Annual Operating Budget	\$1,205,662	\$1,206,471	\$1,205,662
Seismic Fragility Curves			
Before Mitigation			
Slight Damage State		0.09	0.09
Moderate Damage State		0.12	0.12
Extensive Damage State		0.20	0.20
Complete Damage State		0.35	0.35
Beta		0.66	0.66
After Mitigation			
Retrofit Building Type		C2	C2
Retrofit Performance Objective	10	LS	10
Slight Damage State		0.25	0.25
Moderate Damage State		0.42	0.42
Extensive Damage State		0.73	0.73
Complete Damage State		1.27	1.27
Beta		0.62	0.62

Data Documentation: Building Part A		
Provide brief documer (with page number), bu	ntation below and/or references to other documents included with your application ut <u>ONLY for data entries in Column C</u> , which replace the default values in Column D.	
Soil Type		
Primary Structure Type		
Number of Stories		
Year Built		
Severe Vertical Irregularity		
Moderate Vertical Irregularity		
Plan Irregularity		
Pre-Code		
Post-Benchmark		
Historic Importance (if not none)		
Building Square Footage		
Building Replacement Value \$/SF		
Contents Value % of Building Value		
Displacement Costs One Time		
Displacement Costs \$/SF/month		
Fragility Curve Parameters Before Mitigation		
Fragility Curve Parameters After Mitigation		
Other Comments		

Building Part B: Data for Benefit-Cost Analysis

Building Name:	Ontario High School
Building ID:	Malh_sch05B
Building Part Name / Description:	Classrooms

Evaluation for Building Part B

Seismic Hazard Data		
Region of Seismicity	Moderate	
PGA Ground Motion (g)	2% in 50 year	0.212
	5% in 50 year	0.133
	10% in 50 year	0.085
	20% in 50 year	0.053
Spectral Accelerations (g)	S _{xs} , 2% in 50 year	0.486
	S _{x1} , 2% in 50 year	0.229
	S _{xs} , 10% in 50 year	0.186
	S _{x1} , 10% in 50 year	0.098

Data Entry Item	User Entered Values	Default Values	Used for BCA
Site Data		• •	
County		Malheur	Malheur
Decimal Latitude		44.02988	44.02988
Decimal Longitude		116.97871	116.97871
Soil Type		D	D
Construction Data			
Primary Structure Type (FEMA 154)		C2	C2
Number of Stories		1	1
Year Built		1980	1980
Rapid Visual Screening Data			
Severe Vertical Irregularity		No	No
Moderate Vertical Irregularity		Yes	Yes
Plan Irregularity		Yes	Yes
Pre-Code		No	No
Post-Benchmark		No	No
Building Data			
Historic Importance		None	None
Historic Adjustment Modifier	N/A	N/A	1.00
Building Square Footage - SF	67,000	N/A	67,000
Building Replacement - \$/SF		\$360.00	\$360.00
Building Replacement Value - \$	N/A	N/A	\$24,120,000
Historic Building Replacement - \$/SF	N/A	N/A	\$360.00
Historic Building Replacement Value - \$	N/A	N/A	\$24,120,000
Contents Value - % of Building Value		25%	25%
Displacement Costs - \$/SF/month		\$2.50	\$2.50
Displacement Costs - One Time		\$3.00	\$3.00
Average Annual Occupancy	74.02	74.01	74.02
Annual Operating Budget	\$4,369,731	\$4,369,381	\$4,369,731
Seismic Fragility Curves			
Before Mitigation			
Slight Damage State		0.12	0.12
Moderate Damage State		0.16	0.16
Extensive Damage State		0.25	0.25
Complete Damage State		0.43	0.43
Beta		0.66	0.66
After Mitigation			
Retrofit Building Type		C2	C2
Retrofit Performance Objective		LS	LS
Slight Damage State		0.12	0.12
Moderate Damage State		0.16	0.16
Extensive Damage State		0.25	0.25
Complete Damage State		0.43	0.43

Beta	0.66	0.66

Data Documentation: Building Part B		
Provide brief documer (with page number), b	ntation below and/or references to other documents included with your application ut <u>ONLY for data entries in Column C</u> , which replace the default values in Column D.	
Soil Type		
Primary Structure Type		
Number of Stories		
Year Built		
Severe Vertical Irregularity		
Moderate Vertical Irregularity		
Plan Irregularity		
Pre-Code		
Post-Benchmark		
Historic Importance (if not none)		
Building Square Footage		
Building Replacement Value \$/SF		
Contents Value % of Building Value		
Displacement Costs One Time		
Displacement Costs \$/SF/month		
Fragility Curve Parameters Before Mitigation		
Fragility Curve Parameters After Mitigation		
Other Comments		

Building Part C: Data for Benefit-Cost Analysis

Building Name:	Ontario High School
Building ID:	Malh_sch05C
Building Part Name / Description:	Skill Center

Evaluation for Building Part C

Seismic Hazard Data			
Region of Seismicity	Moderate		
PGA Ground Motion (g)	2% in 50 year	0.212	
	5% in 50 year	0.133	
	10% in 50 year	0.085	
	20% in 50 year	0.053	
Spectral Accelerations (g)	S _{xs} , 2% in 50 year	0.486	
	S _{x1} , 2% in 50 year	0.229	
	S _{xs} , 10% in 50 year	0.186	
	S _{x1} , 10% in 50 year	0.098	

Data Entry Item	User Entered Values	Default Values	Used for BCA
Site Data	- 		
County		Malheur	Malheur
Decimal Latitude		44.02975	44.02975
Decimal Longitude		116.97844	116.97844
Soil Type		D	D
Construction Data			
Primary Structure Type (FEMA 154)	W2	C2	W2
Number of Stories		1	1
Year Built		1980	1980
Rapid Visual Screening Data			
Severe Vertical Irregularity		No	No
Moderate Vertical Irregularity	No	Yes	No
Plan Irregularity	No	Yes	No
Pre-Code		No	No
Post-Benchmark		No	No
Building Data			
Historic Importance		None	None
Historic Adjustment Modifier	N/A	N/A	1.00
Building Square Footage - SF	2,100	N/A	2,100
Building Replacement - \$/SF		\$360.00	\$360.00
Building Replacement Value - \$	N/A	N/A	\$756,000
Historic Building Replacement - \$/SF	N/A	N/A	\$360.00
Historic Building Replacement Value - \$	N/A	N/A	\$756,000
Contents Value - % of Building Value		25%	25%
Displacement Costs - \$/SF/month		\$2.50	\$2.50
Displacement Costs - One Time		\$3.00	\$3.00
Average Annual Occupancy	2.32	2.32	2.32
Annual Operating Budget	\$136,781	\$136,951	\$136,781
Seismic Fragility Curves			
Before Mitigation			
Slight Damage State		0.14	0.14
Moderate Damage State		0.23	0.23
Extensive Damage State		0.48	0.48
Complete Damage State		0.75	0.75
Beta		0.66	0.66
After Mitigation			
Retrofit Building Type		W2	W2
Retrofit Performance Objective		LS	LS
Slight Damage State		0.14	0.14
Moderate Damage State		0.23	0.23
Extensive Damage State		0.48	0.48
Complete Damage State		0.75	0.75

Beta	0.66	0.66

Data Documentation: Building Part C				
Provide brief documer (with page number), b	Provide brief documentation below and/or references to other documents included with your application (with page number), but <u>ONLY for data entries in Column C</u> , which replace the default values in Column D.			
Soil Type				
Primary Structure Type				
Number of Stories				
Year Built				
Severe Vertical Irregularity				
Moderate Vertical Irregularity				
Plan Irregularity				
Pre-Code				
Post-Benchmark				
Historic Importance (if not none)				
Building Square Footage				
Building Replacement Value \$/SF				
Contents Value % of Building Value				
Displacement Costs One Time				
Displacement Costs \$/SF/month				
Fragility Curve Parameters Before Mitigation				
Fragility Curve Parameters After Mitigation				
Other Comments				

Building Part D: Data for Benefit-Cost Analysis

Building Name:	Ontario High School
Building ID:	Malh_sch05D
Building Part Name / Description:	Science Building

Evaluation for Building Part D

Seismic Hazard Data		
Region of Seismicity	Moderate	
PGA Ground Motion (g)	2% in 50 year	0.212
	5% in 50 year	0.133
	10% in 50 year	0.085
	20% in 50 year	0.053
Spectral Accelerations (g)	S _{xs} , 2% in 50 year	0.486
	S _{x1} , 2% in 50 year	0.229
	S _{xs} , 10% in 50 year	0.186
	S _{x1} , 10% in 50 year	0.098

Data Entry Item	User Entered Values	Default Values	Used for BCA
Site Data			
County	Malheur		Malheur
Decimal Latitude	44.02975		44.02975
Decimal Longitude	116.97844		116.97844
Soil Type	D		D
Construction Data		•	
Primary Structure Type (FEMA 154)	RM1		RM1
Number of Stories	1		1
Year Built	2011		2011
Rapid Visual Screening Data			
Severe Vertical Irregularity		No	No
Moderate Vertical Irregularity	No		No
Plan Irregularity	No		No
Pre-Code	No		No
Post-Benchmark	No		No
Building Data			
Historic Importance		None	None
Historic Adjustment Modifier	N/A	N/A	1.00
Building Square Footage - SF	16,100	N/A	16,100
Building Replacement - \$/SF		\$360.00	\$360.00
Building Replacement Value - \$	N/A	N/A	\$5,796,000
Historic Building Replacement - \$/SF	N/A	N/A	\$360.00
Historic Building Replacement Value - \$	N/A	N/A	\$5,796,000
Contents Value - % of Building Value		25%	25%
Displacement Costs - \$/SF/month		\$2.50	\$2.50
Displacement Costs - One Time		\$3.00	\$3.00
Average Annual Occupancy	17.78	17.78	17.78
Annual Operating Budget	\$1,049,859	\$1,049,956	\$1,049,859
Seismic Fragility Curves			
Before Mitigation			
Slight Damage State		0.22	0.22
Moderate Damage State		0.30	0.30
Extensive Damage State		0.50	0.50
Complete Damage State		0.85	0.85
Beta		0.66	0.66
After Mitigation			
Retrofit Building Type	RM1	C2	RM1
Retrofit Performance Objective		LS	LS
Slight Damage State		0.22	0.22
Moderate Damage State		0.30	0.30
Extensive Damage State		0.50	0.50
Complete Damage State		0.85	0.85

Beta	0.66	0.66

Data Documentation: Building Part D				
Provide brief documer (with page number), b	Provide brief documentation below and/or references to other documents included with your application (with page number), but <u>ONLY for data entries in Column C</u> , which replace the default values in Column D.			
Soil Type				
Primary Structure Type				
Number of Stories				
Year Built				
Severe Vertical Irregularity				
Moderate Vertical Irregularity				
Plan Irregularity				
Pre-Code				
Post-Benchmark				
Historic Importance (if not none)				
Building Square Footage				
Building Replacement Value \$/SF				
Contents Value % of Building Value				
Displacement Costs One Time				
Displacement Costs \$/SF/month				
Fragility Curve Parameters Before Mitigation				
Fragility Curve Parameters After Mitigation				
Other Comments				

Building Part E: Data for Benefit-Cost Analysis

Building Name:	Ontario High School
Building ID:	Malh_sch05E
Building Part Name / Description:	Vocational

Evaluation for Building Part E

Seismic Hazard Data			
Region of Seismicity	Moderate		
PGA Ground Motion (g)	2% in 50 year	0.212	
	5% in 50 year	0.133	
	10% in 50 year	0.085	
	20% in 50 year	0.053	
Spectral Accelerations (g)	S _{xs} , 2% in 50 year	0.486	
	S _{x1} , 2% in 50 year	0.229	
	S _{xs} , 10% in 50 year	0.186	
	S _{x1} , 10% in 50 year	0.098	

Data Entry Item	User Entered Values	Default Values	Used for BCA
Site Data			
County	Malheur		Malheur
Decimal Latitude	44.02975		44.02975
Decimal Longitude	116.97844		116.97844
Soil Type	D		D
Construction Data	•	•	
Primary Structure Type (FEMA 154)	RM1		RM1
Number of Stories	1		1
Year Built	1979		1979
Rapid Visual Screening Data			
Severe Vertical Irregularity	No		No
Moderate Vertical Irregularity	Yes		Yes
Plan Irregularity	Yes		Yes
Pre-Code	No		No
Post-Benchmark	No		No
Building Data			
Historic Importance		None	None
Historic Adjustment Modifier	N/A	N/A	1.00
Building Square Footage - SF	29,400	N/A	29,400
Building Replacement - \$/SF		\$360.00	\$360.00
Building Replacement Value - \$	N/A	N/A	\$10,584,000
Historic Building Replacement - \$/SF	N/A	N/A	\$360.00
Historic Building Replacement Value - \$	N/A	N/A	\$10,584,000
Contents Value - % of Building Value		25%	25%
Displacement Costs - \$/SF/month		\$2.50	\$2.50
Displacement Costs - One Time		\$3.00	\$3.00
Average Annual Occupancy	32.48	32.48	32.48
Annual Operating Budget	\$1,917,645	\$1,917,311	\$1,917,645
Seismic Fragility Curves			
Before Mitigation			
Slight Damage State		0.13	0.13
Moderate Damage State		0.17	0.17
Extensive Damage State		0.24	0.24
Complete Damage State		0.45	0.45
Beta		0.66	0.66
After Mitigation			
Retrofit Building Type	RM1	C2	RM1
Retrofit Performance Objective		LS	LS
Slight Damage State		0.13	0.13
Moderate Damage State		0.17	0.17
Extensive Damage State		0.24	0.24
Complete Damage State		0.45	0.45
Beta		0.66	0.66

Data Documentation: Building Part E		
Provide brief documer (with page number), bu	ntation below and/or references to other documents included with your application ut <u>ONLY for data entries in Column C</u> , which replace the default values in Column D.	
Soil Type		
Primary Structure Type		
Number of Stories		
Year Built		
Severe Vertical Irregularity		
Moderate Vertical Irregularity		
Plan Irregularity		
Pre-Code		
Post-Benchmark		
Historic Importance (if not none)		
Building Square Footage		
Building Replacement Value \$/SF		
Contents Value % of Building Value		
Displacement Costs One Time		
Displacement Costs \$/SF/month		
Fragility Curve Parameters Before Mitigation		
Fragility Curve Parameters After Mitigation		
Other Comments		

Building Part F: Data for Benefit-Cost Analysis

Building Name:	Ontario High School
Building ID:	Malh_sch05F
Building Part Name / Description:	Music

Evaluation for Building Part F

Seismic Hazard Data		
Region of Seismicity	Moderate	
PGA Ground Motion (g)	2% in 50 year	0.212
	5% in 50 year	0.133
	10% in 50 year	0.085
	20% in 50 year	0.053
Spectral Accelerations (g)	S _{xs} , 2% in 50 year	0.486
	S _{x1} , 2% in 50 year	0.229
	S _{xs} , 10% in 50 year	0.186
	S _{x1} , 10% in 50 year	0.098

Data Entry Item	User Entered Values	Default Values	Used for BCA
Site Data		• •	
County	Malheur		Malheur
Decimal Latitude	44.02975		44.02975
Decimal Longitude	116.97844		116.97844
Soil Type	D		D
Construction Data			
Primary Structure Type (FEMA 154)	RM1		RM1
Number of Stories	1		1
Year Built	1980		1980
Rapid Visual Screening Data			
Severe Vertical Irregularity	No		No
Moderate Vertical Irregularity	Yes		Yes
Plan Irregularity	No		No
Pre-Code	No		No
Post-Benchmark	No		No
Building Data			
Historic Importance		None	None
Historic Adjustment Modifier	N/A	N/A	1.00
Building Square Footage - SF	5,800	N/A	5,800
Building Replacement - \$/SF		\$360.00	\$360.00
Building Replacement Value - \$	N/A	N/A	\$2,088,000
Historic Building Replacement - \$/SF	N/A	N/A	\$360.00
Historic Building Replacement Value - \$	N/A	N/A	\$2,088,000
Contents Value - % of Building Value		25%	25%
Displacement Costs - \$/SF/month		\$2.50	\$2.50
Displacement Costs - One Time		\$3.00	\$3.00
Average Annual Occupancy	6.41	6.41	6.41
Annual Operating Budget	\$378,638	\$378,245	\$378,638
Seismic Fragility Curves			
Before Mitigation			
Slight Damage State		0.15	0.15
Moderate Damage State		0.19	0.19
Extensive Damage State		0.27	0.27
Complete Damage State		0.50	0.50
Beta		0.66	0.66
After Mitigation			
Retrofit Building Type	RM1	C2	RM1
Retrofit Performance Objective		LS	LS
Slight Damage State		0.15	0.15
Moderate Damage State		0.19	0.19
Extensive Damage State		0.27	0.27
Complete Damage State		0.50	0.50

Beta	0.66	0.66

Data Documentation: Building Part F		
Provide brief documentation below and/or references to other documents included with your application (with page number), but <u>ONLY for data entries in Column C</u> , which replace the default values in Column D.		
Soil Type		
Primary Structure Type		
Number of Stories		
Year Built		
Severe Vertical Irregularity		
Moderate Vertical Irregularity		
Plan Irregularity		
Pre-Code		
Post-Benchmark		
Historic Importance (if not none)		
Building Square Footage		
Building Replacement Value \$/SF		
Contents Value % of Building Value		
Displacement Costs One Time		
Displacement Costs \$/SF/month		
Fragility Curve Parameters Before Mitigation		
Fragility Curve Parameters After Mitigation		
Other Comments		



Appendix E: Schematic Seismic Retrofit Drawings

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ONTARIO HIGH SCHOOL SEISMIC RETROFIT (GYMNASIUM) **ONTARIO SCHOOL DISTRICT 8C** 1115 W. IDAHO AVE. **ONTARIO, OREGON 97914**





0 Klamath Avenue, Klamath Fa Oregon 97601 | 541-884-7421

ONTARIO SCHOOL DISTRICT 1115 W IDAHO AVE ONTARIO, OR 97914





900 Klamath Avenue, Klamath Falls, Oregon 97601 | 541-884-7421

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ONTARIO SCHOOL DISTRICT 1115 W. IDAHO AVE. ONTARIO, OR 97914

ONTARIO HIGH SCHOOL SEISMIC RETROFIT










PHOTO A2.1



A2.1 PHOTO









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2 PHOTO A2.2



3 PHOTO











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(1) (A3.1) **BUILDING SECTION**



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ONTARIO SCHOOL DISTRICT 1115 W. IDAHO AVE. ONTARIO, OR 97914





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ONTARIO SCHOOL DISTRICT 1115 W. IDAHO AVE. ONTARIO, OR 97914

ONTARIO HIGH

SCHOOL SEISMIC RETROFIT

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Appendix F: Rapid Visual Screening Worksheets

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22

Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

							Add	iress:										
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1		<u></u>					Tota	al Floor	Area (so	a. ft.):				•	_ Code	Year:		
r r							Add	litions:	ΠN	one [Yes, Y	'ear(s) B	uilt:		-			
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-same file			TT	-		-				🗌 PI	lan (type)		-					
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FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LM)	S4 (RC	S5 (URM	C1 (MRF)	(C2 (SW)	C3 (URM	PC1 (TU)	PC2	RM1 (FD)	RM2 (RD)	URM	мн
Basic Score		51	4.5	3.8	27	2.6	35	SW)	INF) 27	21	25	INF)	21	19	21	21	17	29
Severe Vertical Irregularity, V_{L1}		-1.4	-1.4	-1.4	-1.2	-1.2	-1.4	-1.1	-1.2	-1.1	-1.2	-1.0	-1.1	-1.0	-1.1	-1.1	-1.0	NA
Moderate Vertical Irregularity, VL1		-0.9	-0.9	-0.9	-0.8	-0.7	-0.9	-0.7	-0.7	-0.7	0.7	-0.6	-0.7	-0.6	-0.7	-0.7	-0.6	NA
Plan Irregularity, PL1		-1.4	-1.3	-1.2	-1.0	-0.9	-1.2	-0.9	-0.9	-0.8	-1.0	-0.8	-0.9	-0.8	-0.8	-0.8	-0.7	NA
Pre-Code Post-Benchmark		-0.3 1.4	-0.5 2.0	-0.6	-0.3	-0.2 1.5	-0.2 0.8	-0.3	-0.3 NA	-0.3	-0.4	-0.3 NA	-0.2 21	-0.2	-0.2	-0.2 2.3	-0.1 NA	-0.5 1.2
Soil Type A or B		0.7	1.2	1.8	1.1	1.4	0.6	1.5	1.6	1.1	1.5	1.3	1.6	1.3	1.4	1.4	1.3	1.6
Soil Type E (1-3 stories)		-1.2	-1.3	-1.4	-0.9	-0.9	-1.0	-0.9	-0.9	-0.7	-1.0	-0.7	-0.8	-0.7	-0.8	-0.8	-0.6	-0.9
Soil Type E (> 3 stories)		-1.8	-1.6	-1.3	-0.9	-0.9	NA	-0.9	-1.0	-0.8	-1.0	-0.8	NA	-0.7	-0.7	-0.8	-0.6	NA
		1.0	1.2	0.9	0.0	0.0	0.8	0.0	0.0	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, SL	$_1 \geq S_{MIN}$:									1								
EXTENT OF REVIEW					OTHEF	R HAZ	ARDS	5		ACT	ION R	EQUIF	RED					
Exterior: Darti	al 🗌	All Sides		ial .	Are Ther	e Hazard	Is That	Trigger A	۹.	Detail	ed Struc	tural Ev	aluation	Require	ed?			
Interior: INOne Drawings Reviewed	, П,	visible No	∟ Ent	ered		Structur	al Evalu	lation?			es, unkno	wn FEN	A buildir	ng type o	r other b	uilding		
Soil Type Source:					L Poun cut-o	aing pote ff, if knov	ential (ui vn)	niess SL2	>		es, score es, other	less tha hazards	n cut-off present					
Geologic Hazards Source:					☐ Fallin	ig hazard	, Is from t	aller adja	cent		0							
Contact Person:					buildi	ing naic haza	ards or S	Soil Type	F	Detail	ed Nons	tructura	l Evalua	tion Rec	ommen	ded? (ch	eck one)	
LEVEL 2 SCREENING	PERF	ORME	D?			ficant da	mage/de	eterioratio	n to		es, nonst	ructural l	nazards	identified	I that sho	uld be ev	aluated	
Yes, Final Level 2 Score, SL	2		🗆 N	0	the s	tructural	system				o, nonstru etailed ev	uctural h aluation	azards e is not ne	xist that i	may requ	ure mitiga	ation, but	а
Nonstructural hazards?														Jugary	_			
	Yes		N	lo							o, no non	structura	al hazard	ls identifi	ed [DNK		
Where info	Yes rmation	cannot b	e verifie	lo ed, scre	ener shal	ll note th	e follov	ving: ES	ST = Esti	mated o	o, no non o r unrelia	structura ble data	al hazard <u>OR</u>	ls identifi DNK = D	ed [o Not Ki	DNK		
Where info Legend: MRF = N	Yes rmation of loment-res	cannot b	e verifie	lo ed, scre RC = Re	ener shal	II note th ncrete	e follov	VING: ES	S T = Esti = Unreinfo	imated o	o, no non o r unrelia onry infill	structura ble data	al hazard <u>OR</u> = Manufa	ls identifi DNK = D ctured Ho	ed [o Not Ki using [DNK	le diaphra	gm

FEMA P-154 Data Collection Form

Level 2 (Optional) MODERATE Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bldg Name:	Final Level 1 Score:	S _{L1} =	(do not consider S_{MIN})
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, V_{L1} =	Plan Irregularity, P_{L1} =
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) =$	

STRUCTURA		S TO ADD TO ADJUSTED BASELINE SCO	RE					
Topic	Statement (statement is true, circle the "Yes" modifier; otherwise ci	ross out the modifier.)				Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change	from one side of the building to the	other.			-1.4	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade ch	ange from one side of the building to	o the oth	er.		-0.4	
	Weak	W1 building cripple wall: An unbraced cripple wall is vi	isible in the crawl space.				-0.7	
	and/or	W1 house over garage: Underneath an occupied story	, there is a garage opening without a	a steel m	noment fra	ame,		
	Soft Story	and there is less than 8' of wall on the same line (for m	ultiple occupied floors above, use 10	6' of wall	l minimur	n).	-1.4	
	(circle one	W1A building open front: There are openings at the gr	round story (such as for parking) ove	er at leas	st 50% of	the		
	maximum)	length of the building.					-1.4	
		Non-W1 building: Length of lateral system at any story	is less than 50% of that at story ab	ove or h	eight of a	ny		
		story is more than 2.0 times the height of the story abo	ve.				-1.1	
		Non-W1 building: Length of lateral system at any story	is between 50% and 75% of that at	t story al	bove or h	eight		
		of any story is between 1.3 and 2.0 times the height of	the story above.				-0.6	
	Setback	Vertical elements of the lateral system at an upper stor	ry are outboard of those at the story	below ca	ausing th	e		
		diaphragm to cantilever at the offset.					-1.2	
		Vertical elements of the lateral system at upper stories	are inboard of those at lower stories	S.			-0.6	
		There is an in-plane offset of the lateral elements that i	is greater than the length of the elem	nents.			-0.4	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of column	ns (or piers) along a column line in th	ne latera	l system	have		
	Column/	height/depth ratios less than 50% of the nominal heigh	t/depth ratio at that level.				-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or	pier width) is less than one half of th	e depth	of the		0.5	
	0.111.1	spandrel, or there are infill walls or adjacent floors that	shorten the column.				-0.5	
	Split Level	I here is a split level at one of the floor levels or at the	root.				-0.6	
	Other	I here is another observable severe vertical irregularity	that obviously affects the building's	seismic	performa	ince.	-1.2	V _{L2} =
	Irregularity	I here is another observable moderate vertical irregula	rity that may affect the building's sei	smic per	tormance).	-0.6	(Cap at -1.4)
Plan	l orsional irre	gularity: Lateral system does not appear relatively well of	distributed in plan in either or both di	rections.	(Do not		4.0	
Irregularity, PL2	include the V	TA open front irregularity listed above.)	<u></u>				-1.0	
	Non-parallel	ystem: There are one or more major vertical elements of	of the lateral system that are not orth	iogonal i	to each o	tner.	-0.5	
	Reentrant co	ner. Both projections from an intenor corner exceed 25	% of the overall plan dimension in tr	iat direc	tion.		-0.5	
	Diaphragm o	ening: There is an opening in the diaphragm with a wid	ath over 50% of the total diaphragm	width at	that leve		-0.3	D -
	C1, C2 Dulld	ig out-of-plane offset. The exterior beams do not align v	with the columns in plan.	o porfor			-0.4	$P_{L2} = $
Dodundanov	Other inegula	nty. There is another observable plan inegularity that of	the building in each direction	c periori	nance.		-1.0	(Cap at -1.4)
Recuricancy	The building	as at least two bays of lateral elements on each side of	the building in each direction.		(Con total		+0.4	
Pounding	by loss than	25% of the height of the shorter of One building is	2 or more stories teller than the oth	or	(Cap lolai nounding	-	-1.Z	
	the building	ad adjacent structure and:	at the end of the block	ei. /	pouriuriy podifiors c	+ 1 1)	-1.2	
S2 Building	"K" bracing a	in adjacent structure and. The building is	at the end of the block.			(-1.4)	-0.0	
C1 Building	Flat plate se	ionelly is visible.					-0.5	
DC1/DM1 Bldg	Thoro are re	to wall tips that are visible or known from drawings that	at do not roly on cross grain bonding	(Do no	t combine	with	+0.0	
FO I/Rivit blug	nost-henchr	ark or retrofit modifier.)	at do not rely on closs-grain bending	. (D0 110		7 VVILII	+0.4	
PC1/RM1 Bldg	The building	us closely spaced, full height interior walls (rather than	an interior space with few walls such	h as in a	warehou	se)	+0.4	
LIRM	Gable walls a	re present	an interior space with rew waits such	1 45 11 4	warenou	30).	-0.5	
MH	There is a su	no procent.	e carriage and the ground				+1.2	
Retrofit	Comprehens	ve seismic retrofit is visible or known from drawings					+1.2	M=
		$S_{i,n} = (S' + V_{i,n} + P_{i,n} + M) > S_{i,m}$					Transfo	r to Level 1 form)
There is observed		$S_{L2} = (S + V_{L2} + V_{L2} + W) = S_{MIN}$	the building's solemic performance:		<u> </u>	No	Tansie	
If yes describe th		elenoration of another condition that negatively affects be comment box below and indicate on the Level 1 form	the building's seisinic performance.	indenen	dont of th	NU no huildin	a's scor	Δ
ii yes, uescribe lii		ie comment box below and indicate on the Level 1 10111		пиереп		e nanan	iy s scol	σ.
OBSERVABL		CTURAL HAZARDS						
Location	Statement (heck "Yes" or "No")		Yes	No		Cor	nment
Exterior	There is an u	nbraced unreinforced masonry parapet or unbraced unr	einforced masonry chimney.					

Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		
	There is heavy cladding or heavy veneer.		
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.		
	There is a sign posted on the building that indicates hazardous materials are present.		
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.		
	Other observed exterior nonstructural falling hazard:		
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.		
	Other observed interior nonstructural falling hazard:		
Estimated Nonst	ructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)		
	□ Potential nonstructural hazards with significant threat to occupant life safety →Detailed Nonstructu	ral Evaluation r	ecommended
	□ Nonstructural hazards identified with significant threat to occupant life safety →But no Detailed No	nstructural Eval	uation required
	\square Low or no nonstructural hazard threat to occupant life safety $ ightarrow$ No Detailed Nonstructural Evaluation	on required	

Comments:

FEMA P-154 Data Collection Form

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HOME OF TH	EIIUE					-	Lati	tude:					longitu	ıde.				
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					2		Scre	eener(s)	:				57. <u> </u>	ate/Tim	e :			
	M		VELCOME				No.	Stories	Abov	e Grade):	Belo	w Grade):	Yea	r Built:	[EST
		-	STIGER COUNTRY				Tota	al Floor	Area (so	q. ft.):	-	_			Code	e Year:		
			8.		Sur Content	TE DING DOL	Add	litions:	🗆 N	one [Yes, Y	ear(s) E	Built:					
					R R R R	NUIS CRTY S	Occ	upancy	: Asse	embly	Commer	cial	Emer. S	Services	ПН	istoric	Shelt	ter
			-						Utilit	istriai tv	Unice Warehou	ise	Resider	ntial. <i>#</i> Ur	nits:	overnmer	It	
		and the second			-	- 33	Soil	Type:		□B		: r	ם מ	TF F		NK		
	-	A CONTRACT		-Andrew Aut		-		Type.	Hard	Avg	Dens	e S	tiff S	Soft P	oor If	DNK, ass	ume Type	D.
	1			1					Rock	Rock	Soi	S	oil S	Soil S	ioil			
	E	•	- BR		-		Geo	logic Ha	azards:	Liquefa	ction: Yes	/No/DN	K Lands	slide: Yes	/No/DNK	Surf. Ru	upt.: Yes/	No/DNK
				- 1			Adja	acency:			ounding		railing F	iazards fr	om I allei	Adjacen	t Building	
			2			-	Irreg	gularitie	S:		ertical (typ lan (type)	oe/sevei	ity)					
			a stream				Evt.	rior Ea	ling			himpor	/9			dina or H	621/1/ Vor	neer
		-	A A	5			Haz	ards:	iiig		arapets	Junue	13		pendages	ыну 01 П S	cavy vel	1961
	B-		-		ni 10. 10. 10.001 10.	1					ther:							
	- 1			<u>C</u> -			CO	MMENT	S:									
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				292 - 21														
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			Total a															
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	SKE	TCH						Addition	al sketche	es or cor	mments o	n separ	ate page)				
	Do Not	B W1		SCO	RE, MO							RE, S	L1 PC1	PC2	PM1	PM2	IIPM	МН
	Know			112	(MRF)	(BR)	(LM)	(RC SW)	(URM INF)	(MRF)	SW)	(URM INF)	(TU)	102	(FD)	(RD)	U.M.	
Basic Score		5.1	4.5	3.8	2.7	2.6	3.5	2.5	2.7	2.1	2.5	2.0	2.1	1.9	2.1	2.1	1.7	2.9
Severe Vertical Irregularity, V_{L1}		-1.4	-1.4	-1.4	-1.2	-1.2	-1.4	-1.1	-1.2	-1.1	-1.2	-1.0	-1.1	-1.0	-1.1	-1.1	-1.0	NA
Moderate vertical irregularity, V_{L1}		-0.9	-0.9	-0.9	-0.8	-0.7	-0.9	-0.7	-0.7	-0.7		-0.6 -0.8	-0.7	-0.6	-0.7	-0.7	-0.0	NA NA
Pre-Code		-0.3	-0.5	-0.6	-0.3	-0.3	-0.2	-0.3	-0.3	-0.3	-0.4	-0.0	-0.3	-0.2	-0.0	-0.0	-0.1	-0.5
Post-Benchmark		1.4	2.0	2.5	1.5	1.5	0.8	2.1	NA	2.0	2.3	NA	2.1	2.5	2.3	2.3	NA	1.2
Soil Type A or B		0.7	1.2	1.8	1.1	1.4	0.6	1.5	1.6	1.1	1.5	1.3	1.6	1.3	1.4	1.4	1.3	1.6
Soil Type E (1-3 stories)		-1.2	-1.3	-1.4	-0.9	-0.9	-1.0	-0.9	-0.9	-0.7	-1.0	-0.7	-0.8	-0.7	-0.8	-0.8	-0.6	-0.9
Soil Type E (> 3 stories)		-1.8	-1.6	-1.3	-0.9	-0.9	NA	-0.9	-1.0	-0.8	-1.0	-0.8	NA	-0.7	-0.7	-0.8	-0.6	NA
Minimum Score, S _{MIN}		1.6	1.2	0.9	0.6	0.6	0.8	0.6	0.6	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.5
FINAL LEVEL 1 SCORE, S	$_{1} \geq S_{MIN}$:																	
EXTENT OF REVIEW					OTHER	R HAZ	ARDS	;		АСТ	ION RI	EQUI	RED					
Exterior: Derti	al 🔲 /	All Sides	Aer	ial	Are Ther	e Hazar	ds That	Frigger A	4	Detail	ed Struct	ural Ev	aluatior	n Require	ed?			
Interior:	* 님 !	Visible	∐ Ent	ered	Detailed	Structu	rai Evalu	ation?		Y	es, unkno	wn FEN	1A buildi	ng type o	r other b	uilding		
Soil Type Source:		νU			Poun	ding pot	ential (ur	nless SL2	>		es, score	less tha	n cut-off	:				
Geologic Hazards Source:					Cut-0	n, it kno a hazar	WN) ds from t	aller adia	cent		es, other l o	nazards	present					
Contact Person:					buildi	ng nazar	us nunn li	aner auja	Cent		o ed Nonci	ructura	l Evolue	tion Per	ommer	ded? (ch	eck anal	
			D 2	_	Geol	ogic haz	ards or S	oil Type	F		es nonetr	uctural	hazarde	identified	that sho	uld he ev	valuated	
LEVEL 2 SCREENING	PERF(JRME	יע?		L Signi	ficant da tructural	mage/de	eterioratio	on to	N D	o, nonstru	ictural h	azards e	exist that	may requ	uire mitig	ation, but	ta
Yes, Final Level 2 Score, S	2			lo	110 5	uouidi	System			de	etailed eva	aluation	is not ne	ecessary		J		
Nonstructural hazards?	Yes			10						ΠN	o, no non	structura	al hazaro	ds identifi	ed [_ DNK		
Where info	rmation of	cannot b	e verifie	d, scr	eener shal	l note tl	he follow	ina F	ST = Eefi	mated a	r unrolia	ble data	OR	DNK = D	o Not K	now		
				, DO E					51 - LSU	mateu o			<u> </u>					

FEMA P-154 Data Collection Form

Level 2 (Optional) MODERATE Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bldg Name:	Final Level 1 Score:	S _{L1} =	(do not consider S_{MIN})
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, V_{L1} =	Plan Irregularity, P_{L1} =
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) =$	

STRUCTURA		S TO ADD TO ADJUSTED BASELINE SCO	RE					
Topic	Statement (statement is true, circle the "Yes" modifier; otherwise ci	ross out the modifier.)				Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change	from one side of the building to the	other.			-1.4	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade ch	ange from one side of the building to	o the oth	er.		-0.4	
	Weak	W1 building cripple wall: An unbraced cripple wall is vi	isible in the crawl space.				-0.7	
	and/or	W1 house over garage: Underneath an occupied story	, there is a garage opening without a	a steel m	noment fra	ame,		
	Soft Story	and there is less than 8' of wall on the same line (for m	ultiple occupied floors above, use 10	6' of wall	l minimur	n).	-1.4	
	(circle one	W1A building open front: There are openings at the gr	round story (such as for parking) ove	er at leas	st 50% of	the		
	maximum)	length of the building.					-1.4	
		Non-W1 building: Length of lateral system at any story	is less than 50% of that at story ab	ove or h	eight of a	ny		
		story is more than 2.0 times the height of the story abo	ve.				-1.1	
		Non-W1 building: Length of lateral system at any story	is between 50% and 75% of that at	t story al	bove or h	eight		
		of any story is between 1.3 and 2.0 times the height of	the story above.				-0.6	
	Setback	Vertical elements of the lateral system at an upper stor	ry are outboard of those at the story	below ca	ausing th	e		
		diaphragm to cantilever at the offset.					-1.2	
		Vertical elements of the lateral system at upper stories	are inboard of those at lower stories	S.			-0.6	
		There is an in-plane offset of the lateral elements that i	is greater than the length of the elem	nents.			-0.4	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of column	ns (or piers) along a column line in th	ne latera	l system	have		
	Column/	height/depth ratios less than 50% of the nominal heigh	t/depth ratio at that level.				-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or	pier width) is less than one half of th	e depth	of the		0.5	
	0.111.1	spandrel, or there are infill walls or adjacent floors that	shorten the column.				-0.5	
	Split Level	I here is a split level at one of the floor levels or at the	root.				-0.6	
	Other	I here is another observable severe vertical irregularity	that obviously affects the building's	seismic	performa	ince.	-1.2	V _{L2} =
	Irregularity	I here is another observable moderate vertical irregula	rity that may affect the building's sei	smic per	tormance).	-0.6	(Cap at -1.4)
Plan	l orsional irre	gularity: Lateral system does not appear relatively well of	distributed in plan in either or both di	rections.	(Do not		4.0	
Irregularity, PL2	include the V	TA open front irregularity listed above.)	<u></u>				-1.0	
	Non-parallel	ystem: There are one or more major vertical elements of	of the lateral system that are not orth	iogonal i	to each o	tner.	-0.5	
	Reentrant co	ner. Both projections from an intenor corner exceed 25	% of the overall plan dimension in tr	iat direc	tion.		-0.5	
	Diaphragm o	ening: There is an opening in the diaphragm with a wid	ath over 50% of the total diaphragm	width at	that leve		-0.3	D -
	C1, C2 Dulld	ig out-of-plane offset. The exterior beams do not align v	with the columns in plan.	o porfor			-0.4	$P_{L2} = $
Dodundanov	Other inegula	nty. There is another observable plan inegularity that of	the building in each direction	c periori	nance.		-1.0	(Cap at -1.4)
Recuricancy	The building	as at least two bays of lateral elements on each side of	the building in each direction.		(Con total		+0.4	
Pounding	by loss than	25% of the height of the shorter of One building is	2 or more stories teller than the oth	or	(Cap lolai nounding	-	-1.Z	
	the building	ad adjacent structure and:	at the end of the block	ei. /	pouriuriy podifiors c	+ 1 1)	-1.2	
S2 Building	"K" bracing a	in adjacent structure and. The building is	at the end of the block.			(-1.4)	-0.0	
C1 Building	Flat plate se	ionelly is visible.					-0.5	
DC1/DM1 Bldg	Thoro are re	to wall tips that are visible or known from drawings that	at do not roly on cross grain bonding	(Do no	t combine	with	+0.0	
FO I/Rivit blug	nost-henchr	ark or retrofit modifier.)	at do not rely on closs-grain bending	. (D0 110		7 VVILII	+0.4	
PC1/RM1 Bldg	The building	us closely spaced, full height interior walls (rather than	an interior space with few walls such	h as in a	warehou	se)	+0.4	
LIRM	Gable walls a	re present	an interior space with rew waits such	1 45 11 4	warenou	30).	-0.5	
MH	There is a su	no procent.	e carriage and the ground				+1.2	
Retrofit	Comprehens	ve seismic retrofit is visible or known from drawings					+1.2	M=
		$S_{i,n} = (S' + V_{i,n} + P_{i,n} + M) > S_{i,m}$					Transfo	r to Level 1 form)
There is observed		$S_{L2} = (S + V_{L2} + V_{L2} + W) = S_{MIN}$	the building's solemic performance:		<u> </u>	No	Tansie	
If yes describe th		elenoration of another condition that negatively affects be comment box below and indicate on the Level 1 form	the building's seisinic performance.	indenen	dont of th	NU no huildin	a's scor	Δ
ii yes, uescribe lii		ie comment box below and indicate on the Level 1 10111		пиереп		e nanan	iy s scol	σ.
OBSERVABL		CTURAL HAZARDS						
Location	Statement (heck "Yes" or "No")		Yes	No		Cor	nment
Exterior	There is an u	nbraced unreinforced masonry parapet or unbraced unr	einforced masonry chimney.					

Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		
	There is heavy cladding or heavy veneer.		
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.		
	There is a sign posted on the building that indicates hazardous materials are present.		
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.		
	Other observed exterior nonstructural falling hazard:		
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.		
	Other observed interior nonstructural falling hazard:		
Estimated Nonst	ructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)		
	□ Potential nonstructural hazards with significant threat to occupant life safety →Detailed Nonstructu	ral Evaluation r	ecommended
	□ Nonstructural hazards identified with significant threat to occupant life safety →But no Detailed No	nstructural Eval	uation required
	\square Low or no nonstructural hazard threat to occupant life safety $ ightarrow$ No Detailed Nonstructural Evaluation	on required	

Comments:

Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

Bldg_C Level 1 MODERATE Seismicity

		itie				Add	ress:										
							_						Z	Zip:			
Contraction of	-0	40				Othe	er Identi	ifiers:									
		T				Buil	ding Na	me:									
		A. C.	(P)			Use	: 					longit	uder				
		P	NO		E	Set	.uue:					∟ongiti S₁:	uue:				
	TA	-	T			Scre	ener(s)	:				ο,. [Date/Time	e:			
	11		Jer			No	Stories	Ahov	e Grade	ý.	Relo	w Grad	e'	Yea	Built	r	T EST
	1		_			Tota	al Floor	Area (so	a. ft.):			w Orau	·	_ Code	Year:		
						Add	itions:	□ N	one [Yes, Y	'ear(s) E	Built:		_			
						Occ	upancy	Asse	embly	Comme	rcial	Emer.	Services	🔲 Hi	storic	□ Shelt	er
1								Indu Utilit	strial	Office Wareho	190	School	ntial #11r	⊔ G nits:	overnmer	it	
	AND REAL PROPERTY.	THE REAL PROPERTY.	Consta	-		Soil	Type		, ПВ		- -	חר חר		TE D	NK		
	The second						rype.	Hard	Avg	Dens	se S	tiff :	Soft P	oor If	DNK, assi	ите Туре	D.
			1					Rock	Rock	Soi	I S	oil	Soil S	Soil	• • -		
	E ·	- W		tran		Geo	logic Ha	azards:	Liquefac	ction: Yes	/No/DNI	K Land	slide: Yes	/No/DNK	Surf. Ru	ipt.: Yes/I	No/DNK
		1				Adja	acency:			ounding		ralling F	Hazards fr	om I aller	Adjacen	Building	
		A. C. Y.				Irreg	gularitie	s:		ertical (ty lan (type)	pe/sever	rity)					
		A superior				Evto	rior Eal	lina		nhraced	Chimner	/S		avv Clade	ling or U	aavv Van	eer
I I I I I I I I I I I I I I I I I I I		A so	1			Haza	ards:	mig		arapets		,5		pendages		Cavy VEII	
	B-								0 🗌	ther:							
	Concernant of		<u>C</u>			CO	MMENT	S:									
	Ontario	ligh Sch			2												
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	SKETCI						Addition	al alcatab		mmente e							
	SKLICI	BASIC	SCO	RE MO	DIFIE						RF S		5				
FEMA BUILDING TYPE	Do Not W	W1A	W2	S1	S2	S3	S4	S5	C1	C2	C3	PC1	PC2	RM1	RM2	URM	МН
	Know			(MRF)	(BR)	(LM)	(RC SW)	(URM INF)	(MRF)	(SW)	(URM INF)	(TU)		(FD)	(RD)		
Basic Score	5.	4.5	3.8	2.7	2.6	3.5	2.5	2.7	2.1	2.5	2.0	2.1	1.9	2.1	2.1	1.7	2.9
Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1	-1. -0	-1.4 -09	-1.4	-1.2	-1.2 -0.7	-1.4 -0.9	-1.1 -0.7	-1.2 -0.7	-1.1 -0.7	-1.2	-1.0 -0.6	-1.1	-1.0 -0.6	-1.1	-1.1 -0.7	-1.0 -0.6	NA NA
Plan Irregularity, P_{L1}	-1.	-1.3	-1.2	-1.0	-0.9	-1.2	-0.9	-0.9	-0.8	-1.0	-0.8	-0.9	-0.8	-0.8	-0.8	-0.7	NA
Pre-Code	-0.	-0.5	-0.6	-0.3	-0.2	-0.2	-0.3	-0.3	-0.3	-0.4	-0.3	-0.2	-0.2	-0.2	-0.2	-0.1	-0.5
Post-Benchmark	1.4	2.0	2.5	1.5	1.5	0.8	2.1	NA	2.0	2.3	NA	2.1	2.5	2.3	2.3	NA	1.2
Soil Type A or B Soil Type E (1.3 stories)	0.	1.2	1.8	1.1	1.4 0.0	0.6	1.5	1.6 0.0	1.1	1.5	1.3 0.7	1.6	1.3	1.4	1.4	1.3 0.6	1.6 0.0
Soil Type E (> 3 stories)	-1.	3 -1.6	-1.3	-0.9	-0.9	NA	-0.9	-1.0	-0.8	-1.0	-0.8	NA	-0.7	-0.7	-0.8	-0.6	NA
Minimum Score, S _{MIN}	1.	1.2	0.9	0.6	0.6	0.8	0.6	0.6	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.5
FINAL LEVEL 1 SCORE, SL	1 ≥ Smin:																
EXTENT OF REVIEW				OTHER	R HA7				ACT		EQUIF	RED					
EXTENT OF REVIEW	al 🗌 All Sid	es 🗖 🗛	rial	OTHER Are Ther	R HAZ e Hazaro	ARDS	Frigger 4	\	ACT Detail	ION R	EQUIF tural Ev	RED	n Require	ed?			
EXTENT OF REVIEW Exterior: Interior: None	al 🗌 All Side	es 🗌 Ae	rial tered	OTHER Are Ther Detailed	R HAZ e Hazaro Structur	ARDS Is That 1 al Evalu	Frigger A ation?	A	ACT Detail	ION R ed Struc	EQUIF tural Ev	RED aluatio	n Require	ed?	uildina		
EXTENT OF REVIEW Exterior: Partia Interior: None Drawings Reviewed: Yes Sail Tuge Seviewed:	al 🗌 All Sid e 🔲 Visible 🗌 No	es 🗌 Ae e 🔲 En	rial tered	OTHER Are Ther Detailed	R HAZ e Hazaro Structur ding pote	ARDS Is That 1 al Evalu ential (un	Frigger A ation?	A >	ACT Detail	CION R ed Struc es, unkno es, score	EQUIF tural Ev own FEM less tha	RED aluation 1A build n cut-of	n Require ing type o f	ed? or other bu	uilding		
EXTENT OF REVIEW Exterior: Interior: Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source:	al 🗌 All Sid e 🗌 Visibl 🗌 No	es 🗌 Ae e 🔲 En	rial tered	OTHER Are There Detailed	R HAZ e Hazard Structur ding pote ff, if knov	ARDS Is That T al Evalu ential (un vn)	Trigger A ation? nless SL2	\ >		HON R ed Struc es, unkno es, score es, other	EQUIF tural Ev wn FEM less tha hazards	RED aluation IA buildi n cut-of presen	n Require ing type o f	ed? or other bu	uilding		
EXTENT OF REVIEW Exterior: Interior: Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source: Contact Person:	al 🗌 All Sic e 🗌 Visibl 🗌 No	es 🗌 Ae e 🔲 En	rial tered	OTHEF Are Ther Detailed Poun cut-o Fallin buildi	R HAZ Hazaro Structur ding pote ff, if knov g hazaro ng	ARDS Is That 1 al Evalu ential (un vn) Is from ta	Trigger A ation? nless SL2 aller adja	A > cent	ACT Detail Ye Ye Ye Ye	ed Struc es, unkno es, score es, other o	EQUIF tural Ev wn FEM less tha hazards	RED aluation IA build n cut-of presen	n Require ing type o f t	ed? or other bu	uilding	ook or o'	
EXTENT OF REVIEW Exterior: Interior: Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source: Contact Person:	al 🗌 All Sic e 🗌 Visibl 🗌 No	es 🗌 Ae E 🗌 En	rial tered	OTHEF Are There Detailed Poun cut-o Fallin buildi	R HAZ e Hazard Structur ding pote ff, if know g hazard ng ogic hazard	ARDS Is That T al Evalu ential (un vn) Is from ta ards or S	Frigger A ation? nless S _{L2} aller adja oil Type	A > cent F	ACT Detail Or Ye O	ed Struc es, unkno es, score es, other o ed Nons	EQUIF tural Ev own FEM less tha hazards	RED aluation IA build n cut-of presen I Evalue	n Require ing type o f t ation Rec	ed? or other bu comment	uilding ded? (ch	eck one)	
EXTENT OF REVIEW Exterior: Partia Interior: Partia Interior: None Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING	al All Sid Disible No PERFORM	es Ae En ED?	rial tered	OTHEF Are There Detailed Poun cut-o Fallin buildi Geole Signi	R HAZ e Hazard Structur ding pote ff, if know g hazard ng ogic hazard ficant da ficant da	ARDS Is That T al Evalu ential (un vn) Is from ta ards or S mage/de	Trigger A ation? Aless SL2 aller adja oil Type terioratic	A cent F on to	ACT Detail Y Y Y Y Y Y Y Detail Y Detail Y N Detail Y N	ION R ed Struc es, unkno es, score es, other o ed Nons es, nonstru o, nonstru	EQUIF tural Ev wn FEM less tha hazards tructural ructural uctural h	RED aluation IA build n cut-of presen I Evalua hazards azards	n Require ing type o f t ation Rec i identified exist that	ed? or other bu comment d that sho may reau	uilding ded? (ch uld be ev ire mitiaa	e <i>ck one)</i> raluated ation, but	а
EXTENT OF REVIEW Exterior: Interior: Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING Yes, Final Level 2 Score, SL Negetenetwork beginstered	al All Sid Visible No No PERFORM	es Ae En ED? =	rial tered	OTHEF Are There Detailed Poun cut-o Fallin buildi Geole Signi the s	R HAZ Hazaro Structur ding poti ff, if knov g hazaro ng pogic haza ficant da tructural	ARDS Is That 1 al Evalu ential (un vn) Is from ta ards or S mage/de system	Frigger A ation? alless S _{L2} aller adja oil Type terioratic	k cent F n to	ACT Detail Y0 Y0 Y0 Y0 Y0 Y0 N0 Detail Y0 N0 Cetail Y0 Cetail	ed Struc es, unkno es, score es, other o ed Nonsi es, nonstru etailed evo	EQUIF tural Ev wn FEN less tha hazards tructural uctural h aluation	RED aluation IA build n cut-of presen I Evalue hazards azards is not n	n Require ing type o f t ation Rec identifiec exist that ecessary	ed? or other bi comment d that sho may requ	uilding ded? (ch uld be ev ire mitiga	<i>eck one)</i> raluated ation, but	а
EXTENT OF REVIEW Exterior: Partii Interior: None Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source: Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING Yes, Final Level 2 Score, SL Nonstructural hazards?	al All Sic Disible No PERFORM 2 Yes	es Ae En ED?	rial tered No	OTHEF Are Then Detailed Poun cut-o Fallin buildi Geolo Signi the s	R HAZ e Hazaro Structur ding pote ff, if know g hazaro ng ogic hazaro ficant da tructural	ARDS Is That I al Evalu ential (un vn) Is from ta ards or S mage/de system	Frigger A ation? alless SL2 aller adja oil Type terioratic	k cent F in to	ACT Detail Y Y Y Y Y O Y O N Detail Y O N O C N O O N O O N O O N O O N O O O N O	ed Struc es, unkno es, score es, other o ed Nons es, nonstru stailed evi o, no non	EQUIF tural Ev wn FEN less tha hazards tructural ructural h aluation structura	RED aluation IA build n cut-of presen I Evalua hazards azards is not n al hazar	n Require ing type o f t ation Rec i identifiec exist that ecessary ds identifi	ed? or other bu commence I that sho may requ	uilding ded? (ch uld be ev ire mitiga] DNK	<i>eck one)</i> raluated ation, but	a
EXTENT OF REVIEW Exterior: Partial Interior: None Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source: Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING Yes, Final Level 2 Score, SL Nonstructural hazards? Image: Where info	al All Sid Disible No PERFORM 2 Yes rmation cannot All Sid No	es Ae E En En ED? 	rial tered No No	OTHEF Are Ther Detailed Poun cut-o Fallin build Geol Signi the s	R HAZ e Hazard Structur ding pot ff, if know g hazard ng ogic hazar icant da tructural	ARDS Is That I al Evalu ential (un vn) is from ta ards or S mage/de system e follow	Frigger <i>A</i> ation? alless S _{L2} aller adja oil Type terioratic	cent F in to	ACT Detail Y4 Y4 Y4 Y4 Y4 Y4 Detail Y4 Detail Y4 N detail N mated o	ION R ed Struc es, unkno es, score es, other o ed Nonsi es, nonstru etailed ev, o, no non r unrelia	EQUIF tural Ev wm FEM less tha hazards tructural uctural h aluation structural ble data	RED aluation IA build n cut-of presen I Evalua hazards azards is not n al hazar	n Require ing type o f t ation Rec i identifiec exist that ecessary ds identifi DNK = D	ed? commend d that sho may requ ied [Do Not Kr	uilding ded? (ch uld be ev ire mitiga DNK	eck one) raluated ation, but	a

FEMA P-154 Data Collection Form

Level 2 (Optional) MODERATE Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bldg Name:	Final Level 1 Score:	S _{L1} =	(do not consider S_{MIN})
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, V_{L1} =	Plan Irregularity, P_{L1} =
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) =$	

STRUCTURA		S TO ADD TO ADJUSTED BASELINE SCO	RE									
Topic	Statement (statement is true, circle the "Yes" modifier; otherwise ci	ross out the modifier.)				Yes	Subtotals				
Vertical	Sloping	W1 building: There is at least a full story grade change	from one side of the building to the	other.			-1.4					
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade ch	ange from one side of the building to	o the oth	er.		-0.4					
	Weak	W1 building cripple wall: An unbraced cripple wall is vi	isible in the crawl space.				-0.7					
	and/or	W1 house over garage: Underneath an occupied story	, there is a garage opening without a	a steel m	noment fra	ame,						
	Soft Story	and there is less than 8' of wall on the same line (for m	ultiple occupied floors above, use 10	6' of wall	l minimur	n).	-1.4					
	(circle one	W1A building open front: There are openings at the gr	round story (such as for parking) ove	er at leas	st 50% of	the						
	maximum)	length of the building.					-1.4					
	Non-W1 building: Length of lateral system at any story is less than 50% of that at story above or height of any											
		story is more than 2.0 times the height of the story abo	ve.				-1.1					
	Non-W1 building: Length of lateral system at any story is between 50% and 75% of that at story above or height											
	of any story is between 1.3 and 2.0 times the height of the story above0.6											
	Setback Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the											
		diaphragm to cantilever at the offset.					-1.2					
	Vertical elements of the lateral system at upper stories are inboard of those at lower stories0.6											
	There is an in-plane offset of the lateral elements that is greater than the length of the elements0.4											
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of column	ns (or piers) along a column line in th	ne latera	l system	have						
	Column/	height/depth ratios less than 50% of the nominal heigh	t/depth ratio at that level.				-0.5					
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or	pier width) is less than one half of th	e depth	of the		0.5					
	0.111.1	spandrel, or there are infill walls or adjacent floors that	shorten the column.				-0.5					
	Split Level	I here is a split level at one of the floor levels or at the	root.				-0.6					
	Other	ince.	-1.2	V _{L2} =								
	Irregularity There is another observable moderate vertical irregularity that may affect the building's seismic performance0.6 (Cap at -1.4)											
Plan	l orsional irre	include the W1A open front irregularity listed above)										
Irregularity, PL2	include the W1A open front irregularity listed above.) -1.0											
	Non-parallel	ystem: There are one or more major vertical elements of	of the lateral system that are not orth	iogonal i	to each o	tner.	-0.5					
	Reentrant co	ner. Both projections from an intenor corner exceed 25	% of the overall plan dimension in tr	iat direc	tion.		-0.5					
	Diaphragm o	ening: There is an opening in the diaphragm with a wid	ath over 50% of the total diaphragm	width at	that leve		-0.3	D -				
	C1, C2 Dulld	ig out-of-plane offset. The exterior beams do not align v	with the columns in plan.	o porfor			-0.4	$P_{L2} = $				
Dodundanov	Other inegula	nty. There is another observable plan inegularity that of	the building in each direction	c periori	nance.		-1.0	(Cap at -1.4)				
Recuricancy	The building	as at least two bays of lateral elements on each side of	the building in each direction.		(Con total		+0.4					
Pounding	by loss than	25% of the height of the shorter of One building is	2 or more stories teller than the oth	or	(Cap lolai nounding	-	-1.Z					
	the building	ad adjacent structure and:	at the end of the block	ei. /	pouriuriy podifiors c	+ 1 1)	-1.2					
S2 Building	"K" bracing a	in adjacent structure and. The building is	at the end of the block.			(-1.4)	-0.0					
C1 Building	Flat plate se	ionelly is visible.					-0.5					
DC1/DM1 Bldg	Thoro are re	to wall tips that are visible or known from drawings that	at do not roly on cross grain bonding	(Do no	t combine	with	+0.0					
FO I/Rivit Blug	nost-henchr	ark or retrofit modifier.)	at do not rely on closs-grain bending	. (D0 110		7 VVILII	+0.4					
PC1/RM1 Bldg	The building	us closely spaced, full height interior walls (rather than	an interior space with few walls such	h as in a	warehou	se)	+0.4					
LIRM	Gable walls a	re present	an interior space with rew waits such	1 45 11 4	warenou	30).	-0.5					
MH	There is a supplemental seismic bracing system provided between the carriage and the ground +12											
Retrofit	Comprehens	ve seismic retrofit is visible or known from drawings					+1.2	M=				
		$S_{i,n} = (S' + V_{i,n} + P_{i,n} + M) > S_{i,m}$					Transfo	r to Level 1 form)				
There is observed		$S_{L2} = (S + V_{L2} + V_{L2} + W) = S_{MIN}$	the building's solemic performance:		<u></u> □	No	Tansie					
If yes describe th		elenoration of another condition that negatively affects be comment box below and indicate on the Level 1 form	the building's seisinic performance.	indenen	dont of th	NU no huildin	a's scor	Δ				
ii yes, uescribe lii		ie comment box below and indicate on the Level 1 10111		пиереп		e nanan	iy s scol	σ.				
OBSERVABL		CTURAL HAZARDS										
Location	Statement (heck "Yes" or "No")		Yes	No		Cor	nment				
Exterior	There is an u	nbraced unreinforced masonry parapet or unbraced unr	einforced masonry chimney.									

Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.									
	There is heavy cladding or heavy veneer.									
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.									
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.									
	There is a sign posted on the building that indicates hazardous materials are present.									
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.									
	Other observed exterior nonstructural falling hazard:									
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.									
	Other observed interior nonstructural falling hazard:									
Estimated Nonst	ructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)									
	□ Potential nonstructural hazards with significant threat to occupant life safety →Detailed Nonstructu	ral Evaluation r	ecommended							
	□ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nonstructural Evaluation required									
	□ Low or no nonstructural hazard threat to occupant life safety → No Detailed Nonstructural Evaluation required									

Comments:

Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

	-						Add	ress:										
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							Oth	er Ident	ifiers:									
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					in in	In the second line	No.	Stories	: Abov	ve Grade	:	Belov	w Grade	:	Year	Built:		EST
							Tota	al Floor	Area (se	q. ft.): _	-	<u> </u>			Code	Year:		
				kale			Add	litions:		one L	J Yes, 1	ear(s) B						
							Occ	upancy	: Ass	embly	Comme	rcial	Emer. S	ervices		storic	Shelt	er
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									Rock	Rock	Soi	I So	oil S	oil S	Soil			
	E	•	FE BA		1		Geo	logic H	azards:	Liquefac	tion: Yes	/No/DNł	< Lands	lide: Yes	/No/DNK	Surf. Ru	upt.: Yes/I	No/DNK
	ALL . AN	•	The				Adj	acency:		🗌 Po	ounding		Falling H	azards fr	om Taller	Adjacen	t Building	
			a la			-	Irre	gularitie	s:	🗌 Ve	ertical (ty	pe/sever	ity)					•
and the second second		-	TT							🗌 PI	an (type)							
a de a		-	А	-			Ext	erior Fal	ling	U	nbraced	Chimney	'S	🗌 Hea	avy Clado	ling or H	eavy Ven	eer
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	Do Not	W1	W1A	W2	S1	S2 62	сэ, л	\$4			000	C3		PC2	6M1	PM2	IIPM	мн
	Know			112	(MRF)	(BR)	(LM)	(RC	(URM	(MRF)	(SW)	(URM	(TU)	102	FD	(RD)	OIN	WILL
Basic Score		5.1	4.5	3.8	2.7	2.6	3.5	2.5	2.7	2.1	2.5	2.0	2.1	1.9	2.1	2.1	1.7	2.9
Severe Vertical Irregularity, VL1		-1.4	-1.4	-1.4	-1.2	-1.2	-1.4	-1.1	-1.2	-1.1	-1.2	-1.0	-1.1	-1.0	-1.1	-1.1	-1.0	NA
Moderate Vertical Irregularity, V_{L1}		-0.9	-0.9	-0.9	-0.8	-0.7	-0.9	-0.7	-0.7	-0.7	-0.7	-0.6	-0.7	-0.6	-0.7	-0.7	-0.6	NA
Plan Irregularity, PL1		-1.4	-1.3	-1.2	-1.0	-0.9	-1.2	-0.9	-0.9	-0.8	-1.0	-0.8	-0.9	-0.8	-0.8	-0.8	-0.7	NA 0.5
Pre-Code Post-Benchmark		-0.3 1.4	-0.5 2.0	-0.0	-0.3	-0.2	-0.2	-0.3	-0.3 NA	-0.3	-0.4 23	-0.3 NA	-0.2 2.1	-0.2 2.5	-0.2	-0.2 23	-0.1 NA	-0.5 1.2
Soil Type A or B		0.7	1.2	1.8	1.0	1.4	0.6	1.5	1.6	1.1	1.5	1.3	1.6	1.3	1.4	1.4	1.3	1.6
Soil Type E (1-3 stories)		-1.2	-1.3	-1.4	-0.9	-0.9	-1.0	-0.9	-0.9	-0.7	-1.0	-0.7	-0.8	-0.7	-0.8	-0.8	-0.6	-0.9
Soil Type E (> 3 stories)		-1.8	-1.6	-1.3	-0.9	-0.9	NA	-0.9	-1.0	-0.8	-1.0	-0.8	NA	-0.7	-0.7	-0.8	-0.6	NA
Minimum Score, S _{MIN}		1.6	1.2	0.9	0.6	0.6	0.8	0.6	0.6	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.5
FINAL LEVEL 1 SCORE, SL	$1 \ge S_{MIN}$:																	
EXTENT OF REVIEW				Τ	OTHE	R HAZ	ARDS	;		ACT	ION R	EQUIF	RED					
Exterior: Deartie	al 🗌 A	All Sides	🗌 Aeri	al	Are Ther	e Hazaro	ds That	Trigger /	4	Detail	ed Struc	tural Eva	aluation	Require	ed?			
Interior: 🗌 None	÷ آ ،	Visible	🗌 Ente	ered	Detailed	Structur	al Evalu	ation?		🗆 Ye	es, unkno	wn FEM	A buildir	ng type o	r other bu	uilding		
Drawings Reviewed: Yes No Pounding po								nless SL2	>		es, score	less that	n cut-off			Ŭ		
Geologic Hazards Source:					Cut-0	itt, it knov na hazarr	NN) 1s from t	aller adia	icent		es, other	nazards	present					
Contact Person:					build	ing	וווטווונ	unor auja		Detail	, d None	tructural	l Evalua	tion Rec	ommon	led? (ch	eck onel	
			D 2		Geol	ogic haza	ards or S	oil Type	F.		s nonet	ructural k	nazarde i	identified	that cho	uld he ev	valuated	
LEVEL 2 SCREENING	PERFO	JRME	ייש		∐ Signi	ticant da	mage/de	eterioratio	on to		o, nonstri	uctural h	azards e	xist that	may requ	ire mitiga	ation, but	а
Yes, Final Level 2 Score, SL	2			0	ule S	แน่งเปลี่ไ	ayatem			de	tailed ev	aluation	is not ne	cessary			,	
Nonstructural hazards?	Yes		LI N	0							o, no non	structura	al hazard	s identifi	ed [DNK		
Where info	rmation o	cannot b	e verifie	d, scre	ener sha	ll note th	ne follow	ving: E	ST = Esti	imated o	r unrelia	ble data	<u>OR</u>	DNK = D	o Not Kr	low		
Legend: MRF = M BR = Bra	Noment-resi	isting fram	e l	RC = Re SW = SI	einforced co near wall	ncrete		URM INF TU = Tilt II	= Unreinfo 10	rced maso	onry infill	MH LM :	= Manufa = Light me	ctured Ho etal	using Fl R	D = Flexib D = Rigid	le diaphrao diaphraom	gm
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FEMA P-154 Data Collection Form

## Level 2 (Optional) MODERATE Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bldg Name:	Final Level 1 Score:	S _{L1} =	(do not consider $S_{MIN}$ )
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1}$ =	Plan Irregularity, $P_{L1}$ =
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) =$	

STRUCTURA		S TO ADD TO ADJUSTED BASELINE SCO	RE									
Topic	Statement (	statement is true, circle the "Yes" modifier; otherwise ci	ross out the modifier.)				Yes	Subtotals				
Vertical	Sloping	W1 building: There is at least a full story grade change	from one side of the building to the	other.			-1.4					
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade ch	ange from one side of the building to	o the oth	er.		-0.4					
	Weak	W1 building cripple wall: An unbraced cripple wall is vi	isible in the crawl space.				-0.7					
	and/or	W1 house over garage: Underneath an occupied story	, there is a garage opening without a	a steel m	noment fra	ame,						
	Soft Story	and there is less than 8' of wall on the same line (for m	ultiple occupied floors above, use 10	6' of wall	l minimur	n).	-1.4					
	(circle one	W1A building open front: There are openings at the gr	round story (such as for parking) ove	er at leas	st 50% of	the						
	maximum)	length of the building.					-1.4					
	Non-W1 building: Length of lateral system at any story is less than 50% of that at story above or height of any											
		story is more than 2.0 times the height of the story abo	ve.				-1.1					
	Non-W1 building: Length of lateral system at any story is between 50% and 75% of that at story above or height											
	of any story is between 1.3 and 2.0 times the height of the story above0.6											
	Setback Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the											
		diaphragm to cantilever at the offset.					-1.2					
	Vertical elements of the lateral system at upper stories are inboard of those at lower stories0.6											
	There is an in-plane offset of the lateral elements that is greater than the length of the elements0.4											
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of column	ns (or piers) along a column line in th	ne latera	l system	have						
	Column/	height/depth ratios less than 50% of the nominal heigh	t/depth ratio at that level.				-0.5					
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or	pier width) is less than one half of th	e depth	of the		0.5					
	0.111.1	spandrel, or there are infill walls or adjacent floors that	shorten the column.				-0.5					
	Split Level	I here is a split level at one of the floor levels or at the	root.				-0.6					
	Other	ince.	-1.2	V _{L2} =								
	Irregularity   There is another observable moderate vertical irregularity that may affect the building's seismic performance0.6 (Cap at -1.4)											
Plan	l orsional irre	include the W1A open front irregularity listed above)										
Irregularity, PL2	include the W1A open front irregularity listed above.) -1.0											
	Non-parallel	ystem: There are one or more major vertical elements of	of the lateral system that are not orth	iogonal i	to each o	tner.	-0.5					
	Reentrant co	ner. Both projections from an intenor corner exceed 25	% of the overall plan dimension in tr	iat direc	tion.		-0.5					
	Diaphragm o	ening: There is an opening in the diaphragm with a wid	ath over 50% of the total diaphragm	width at	that leve		-0.3	D -				
	C1, C2 Dulld	ig out-of-plane offset. The exterior beams do not align v	with the columns in plan.	o porfor			-0.4	$P_{L2} = $				
Dodundanov	Other inegula	nty. There is another observable plan inegularity that of	the building in each direction	c periori	nance.		-1.0	(Cap at -1.4)				
Recuricancy	The building	as at least two bays of lateral elements on each side of	the building in each direction.		(Con total		+0.4					
Pounding	building is se	25% of the height of the shorter of One building is	2 or more stories teller than the oth	or	(Cap lolai nounding	-	-1.Z					
	the building	ad adjacent structure and:	at the end of the block	ei. /	pouriuriy podifiors c	+ 1 1)	-1.2					
S2 Building	"K" bracing a	in adjacent structure and. The building is	at the end of the block.			(-1.4)	-0.0					
C1 Building	Flat plate se	ionelly is visible.					-0.5					
DC1/DM1 Bldg	Thoro are re	to wall tips that are visible or known from drawings that	at do not roly on cross grain bonding	(Do no	t combine	with	+0.0					
FO I/Rivit blug	nost-henchr	ark or retrofit modifier.)	at do not rely on closs-grain bending	. (D0 110		7 VVILII	+0.4					
PC1/RM1 Bldg	The building	us closely spaced, full height interior walls (rather than	an interior space with few walls such	h as in a	warehou	se)	+0.4					
LIRM	Gable walls a	re present	an interior space with rew waits such	1 45 11 4	warenou	30).	-0.5					
MH	There is a supplemental seismic bracing system provided between the carriage and the ground +12											
Retrofit	Comprehens	ve seismic retrofit is visible or known from drawings					+1.2	M=				
		$S_{i,n} = (S' + V_{i,n} + P_{i,n} + M) > S_{i,m}$					Transfo	r to Level 1 form)				
There is observed		$S_{L2} = (S + V_{L2} + V_{L2} + W) = S_{MIN}$	the building's solemic performance:		<u> </u>	No	Tansie					
If yes describe th		elenoration of another condition that negatively affects be comment box below and indicate on the Level 1 form	the building's seisinic performance.	indenen	dont of th	NU no huildin	a's scor	Δ				
ii yes, uescribe lii		ie comment box below and indicate on the Level 1 10111		пиереп		e nanan	iy s scol	σ.				
OBSERVABL		CTURAL HAZARDS										
Location	Statement (	heck "Yes" or "No")		Yes	No		Cor	nment				
Exterior	There is an u	nbraced unreinforced masonry parapet or unbraced unr	einforced masonry chimney.									

Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.									
	There is heavy cladding or heavy veneer.									
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.									
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.									
	There is a sign posted on the building that indicates hazardous materials are present.									
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.									
	Other observed exterior nonstructural falling hazard:									
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.									
	Other observed interior nonstructural falling hazard:									
Estimated Nonst	ructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)									
	□ Potential nonstructural hazards with significant threat to occupant life safety →Detailed Nonstructu	ral Evaluation r	ecommended							
	□ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nonstructural Evaluation required									
	□ Low or no nonstructural hazard threat to occupant life safety → No Detailed Nonstructural Evaluation required									

Comments:

## **Rapid Visual Screening of Buildings for Potential Seismic Hazards** FEMA P-154 Data Collection Form

						Add	ress:										
7							. –	-						Zip:			
						Oth	er Identi	fiers:									
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				12.				Utilit	ty	Wareho	use	Reside	ntial, #U	nits:			
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		ALL ALL		- And		Adia	acencv:		Po	ounding		Falling H	lazards fi	rom Taller	Adjacen	t Buildina	
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	SKETCH			Ľ			Additiona	al sketch	es or cor	nments c	on separa	ate page	e				
	SKETCH E	BASIC	SCOF	RE, MO	DIFIEF	RS, AI	Additiona	al sketch	es or cor	nments c	on separa	ate page	9				
FEMA BUILDING TYPE	SKETCH E Do Not W1	BASIC W1A	SCOF W2	RE, MO	DIFIEF		Additiona ND FIN S4	al sketch	es or cor EVEL '	nments c 1 SCO c2	n separa RE, S	ate page	PC2	(RM1)	RM2	URM	МН
FEMA BUILDING TYPE	SKETCH E Do Not Know W1	BASIC W1A	SCOF W2	RE, MO	DIFIEF S2 (BR)	RS, AI	Additiona ND FIN S4 (RC SW)	IAL LE	es or cor EVEL 7 (MRF)	nments c 1 SCO C2 (SW)	on separa RE, S C3 (URM INF)	ate page	PC2	RM1 FD	<b>RM2</b> (RD)	URM	МН
FEMA BUILDING TYPE	SKETCH E Do Not Know 5.1	BASIC W1A 4.5	SCOF W2 3.8	RE, MO S1 (MRF) 2.7	DIFIEF S2 (BR) 2.6	RS, AI S3 (LM) 3.5 4.4	Additiona ND FIN S4 (RC SW) 2.5	al sketch IAL LE S5 (URM INF) 2.7	es or cor EVEL / C1 (MRF) 2.1	nments c 1 SCO (SW) 2.5	n separa RE, S (URM INF) 2.0	ate page L1 PC1 (TU) 2.1	PC2		<b>RM2</b> (RD) <b>2.1</b>	URM	MH 2.9
FEMA BUILDING TYPE     I       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1	SKETCH           E           Do Not Know           5.1           -1.4           -0.9	BASIC W1A 4.5 -1.4 -0.9	SCOF W2 3.8 -1.4 -0.9	RE, MO S1 (MRF) 2.7 -1.2 -0.8	DIFIEF S2 (BR) 2.6 -1.2 -0.7	RS, AI S3 (LM) 3.5 -1.4 -0.9	Additiona <b>ND FIN</b> (RC SW) <b>2.5</b> -1.1 -0.7	al sketch IAL LE S5 (URM INF) 2.7 -1.2 -0.7	es or cor EVEL 2 (MRF) 2.1 -1.1 -0.7	nments c <b>1 SCO</b> (SW) <b>2.5</b> -1.2 -0.7	on separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6	ate page L1 PC1 (TU) 2.1 -1.1 -0.7	PC2	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	<b>RM2</b> (RD) <b>2.1</b> -1.1 -0.7	<b>URM</b> <b>1.7</b> -1.0	MH 2.9 NA NA
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1	SKETCH           Boo Not Know         W1           -1.4         -0.9           -1.4         -0.9           -1.4         -1.4	BASIC W1A 4.5 -1.4 -0.9 -1.3	SCOF W2 3.8 -1.4 -0.9 -1.2	RE, MO S1 (MRF) 2.7 -1.2 -0.8 -1.0	DIFIEF 22 (BR) 2.6 -1.2 -0.7 -0.9	RS, Al S3 (LM) 3.5 -1.4 -0.9 -1.2	Additiona ND FIN S4 (RC SW) 2.5 -1.1 -0.7 -0.9	al sketch <b>IAL LE</b> <b>S5</b> (URM INF) <b>2.7</b> -1.2 -0.7 -0.9	es or cor EVEL - (MRF) 2.1 -1.1 -0.7 -0.8	nments c 1 SCO C2 (SW) 2.5 -1.2 -0.7 -1.0	n separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6 -0.8	ate page L1 PC1 (TU) 2.1 -1.1 -0.7 -0.9	PC2 1.9 -1.0 -0.6 -0.8	2.) -1.1 -0.8	RM2 (RD) 2.1 -1.1 -0.7 -0.8	URM 1.7 -1.0 -0.6 -0.7	<b>МН</b> <b>2.9</b> NA NA NA
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, PL1         Plan Irregularity, PL1       Pre-Code	SKETCH           B           Do Not Know           5.1           -1.4           -0.9           -1.4           -0.3	<b>BASIC</b> W1A 4.5 -1.4 -0.9 -1.3 -0.5	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6	RE, MO 81 (MRF) 2.7 -1.2 -0.8 -1.0 -0.3	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2	RS, AI 3.5 -1.4 -0.9 -1.2 -0.2	Additiona ND FIN (RC SW) 2.5 -1.1 -0.7 -0.9 -0.3	al sketch <b>JAL LE</b> (URM INF) <b>2.7</b> -1.2 -0.7 -0.9 -0.3	es or cor EVEL - (MRF) 2.1 -1.1 -0.7 -0.8 -0.3	nments c <b>1 SCO</b> (SW) <b>2.5</b> -1.2 -0.7 -1.0 -0.4	n separ RE, S (URM INF) 2.0 -1.0 -0.6 -0.8 -0.3	ate page L1 PC1 (TU) 2.1 -1.1 -0.7 -0.9 -0.2	PC2 1.9 -1.0 -0.6 -0.8 -0.2	21 -1.1 (07) -0.2	<b>RM2</b> (RD) <b>2.1</b> -1.1 -0.7 -0.8 -0.2	<b>URM</b> 1.7 -1.0 -0.6 -0.7 -0.1	MH 2.9 NA NA NA -0.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Post-Benchmark	SKETCH           E           Do Not         W1           1.4           -0.3           1.4	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5	RE, MO S1 (MRF) 2.7 -1.2 -0.8 -1.0 -0.3 1.5	DIFIEF (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5	RS, Al S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8	Additiona ND FIN (RC SW) 2.5 -1.1 -0.7 -0.9 -0.3 2.1	al sketch IAL LE (URM INF) 2.7 -1.2 -0.7 -0.9 -0.3 NA	es or cor EVEL - (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0	<b>1 SCO</b> (SW) <b>2.5</b> -1.2 -0.7 -1.0 -0.4 2.3	C3 (URM INF) 2.0 -1.0 -0.6 -0.8 -0.3 NA	ate page L1 PC1 (TU) 2.1 -1.1 -0.7 -0.9 -0.2 2.1	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5	<b>R</b> <b>(1)</b> <b>(2)</b> <b>-1.1</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)</b> <b>(0)(0)</b> <b>(0)(0)</b> <b>(0)(0)(0)(0)(0)(0)(0)(0)</b>	<b>RM2</b> (RD) <b>2.1</b> -1.1 -0.7 -0.8 -0.2 2.3	<b>URM</b> -1.0 -0.6 -0.7 -0.1 NA	MH 2.9 NA NA -0.5 1.2
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type A or B       Soil Type A or b	SKETCH           E           Do Not         W1           -1.4           -0.9           -1.4           -0.3           1.4           -0.3           1.4	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8	RE, MO S1 (MRF) 2.7 -1.2 -0.8 -1.0 -0.3 1.5 1.1 1.1	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 20	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 4 0	Additiona <b>ND FIN</b> (RC SW) <b>2.5</b> -1.1 -0.7 -0.9 -0.3 2.1 1.5 0.0	al sketch <b>IAL LE</b> (URM INF) <b>2.7</b> -1.2 -0.7 -0.9 -0.3 NA 1.6 2.0	es or cor EVEL - (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -7	<b>1 SCO</b> <b>C2</b> (SW) <b>2.5</b> -1.2 -0.7 -1.0 -0.4 2.3 1.5	on separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6 -0.8 -0.3 NA 1.3 .7	ate page L1 PC1 (TU) 2.1 -1.1 -0.7 -0.9 -0.2 2.1 1.6 0 0 0 0 0 0 0 0 0 0 0 0 0	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -1.3	<b>RM1</b> -1.1 (0.7) (0.8) -0.2 2.3 1.4	<b>RM2</b> (RD) <b>2.1</b> -1.1 -0.7 -0.8 -0.2 2.3 1.4	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 0.0	MH 2.9 NA NA -0.5 1.2 1.6
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (2 stories)	SKETCH           E           Do Not         W1           -1.4           -0.9           -1.4           -0.3           1.4           0.7           -1.2	<b>BASIC</b> W1A <b>4.5</b> -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -0.5 2.0 1.2 -1.3 -1.4	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.4 -1.2 -0.6 2.5 1.8 -1.4 -1.4 -1.2	RE, MO S1 (MRF) 2.7 -1.2 -0.8 -1.0 -0.3 1.5 1.1 -0.9 0.0	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 0.0	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA	Additiona <b>ND FIN</b> <b>S4</b> (RC SW) <b>2.5</b> -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 0.0	al sketch <b>IAL LE</b> <b>S5</b> (URM INF) <b>2.7</b> -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 1.0	es or cor EVEL - (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 0.8	<b>1 SCO</b> <b>2.5</b> -1.2 -0.7 -1.0 -0.4 2.3 1.5 -1.0	on separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 0 9	ate page L1 PC1 (TU) 2.1 -1.1 -0.7 -0.9 -0.2 2.1 1.6 -0.8 NA	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 0.7	<b>2.1</b> -1.1 <b>(1)</b> -0.2 2.3 1.4 -0.8 0.7	<b>RM2</b> (RD) <b>2.1</b> -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 0.8	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 0.6	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, PL1         Pre-Code       Post-Benchmark         Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (> 3 stories)       Minimum Score, SMIN	SKETCH           E           Do Not Know         W1           -1.4           -0.9           -1.4           -0.3           1.4           -0.3           1.4           -0.3           1.4           0.7           -1.2           -1.8           1.6	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9	RE, MO S1 (MRF) -1.2 -0.8 -1.0 -0.3 1.5 1.1 -0.9 -0.9 -0.9 0.6	DIFIER S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8	Additiona <b>ND FIN</b> (RC SW) <b>2.5</b> -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 -0.9 0.6	al sketchu <b>IAL LE</b> <b>S5</b> (URM INF) <b>2.7</b> -0.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6	es or cor EVEL - (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3	<b>1 SCO</b> 2.5 -1.2 -0.7 -1.0 -0.4 2.3 1.5 -1.0 -1.0 0.3	n separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3	ate page L1 PC1 (TU) 2.1 -1.1 -0.7 -0.9 -0.2 2.1 1.6 -0.8 NA 0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2	<b>RM1</b> -1.1 -1.1 -0.2 2.3 1.4 -0.8 -0.7 0.3	RM2 (RD) 2.1 -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 -0.8 0.3	URM -1.7 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 -0.6 0.2	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (> 3 stories)       Minimum Score, SMIN	SKETCH           SKETCH           E           Do Not Know           5.1           -1.4           -0.9           -1.4           -0.3           1.4           0.7           -1.2           -1.8           1.6	<b>BASIC</b> W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9	RE, MO S1 (MRF) 2.7 -1.2 -0.8 -1.0 -0.3 1.5 1.1 -0.9 -0.9 0.6	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 -0.9 0.6	<b>S3</b> (LM) <b>3.5</b> -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8	Additiona <b>ND FIN</b> (RC SW) <b>2.5</b> -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 -0.9 0.6	al sketch <b>IAL LE</b> <b>S5</b> (URM INF) <b>2.7</b> -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6	es or con EVEL - (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3	C2 (SW)           2.5           -1.2           -0.7           -1.0           -0.4           2.3           1.5           -1.0           -1.0           0.3	C3 (URM INF) 2.0 -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3	ate page L1 PC1 (TU) 2.1 -1.1 -0.7 -0.9 -0.2 2.1 1.6 -0.8 NA 0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2	(1.1) (1.1) (1.1) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2) (1.2)	<b>RM2</b> (RD) <b>2.1</b> -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 0.3	URM -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 -0.2	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMIN       FINAL LEVEL 1 SCORE, SL12	SKETCH           E           Do Not Know         W1           -1.4           -0.9           -1.4           -0.3           1.4           0.7           -1.2           -1.8           1.6	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9	RE, MO S1 (MRF) 2.7 -1.2 -0.8 -1.0 -0.3 1.5 1.1 -0.9 -0.9 0.6	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 -0.9 0.6	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8	Additiona ND FIN (RC SW) 2.5 -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 -0.9 0.6	al sketchu IAL LE S5 (URM INF) 2.7 -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6	es or cor EVEL - (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3	nments c <b>1 SCO</b> (SW) <b>2.5</b> -1.2 -0.7 -1.0 -0.4 2.3 1.5 -1.0 -1.0 0.3	on separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3	ate page L1 PC1 (TU) 2.1 -1.1 -0.7 -0.9 -0.2 2.1 1.6 -0.8 NA 0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2	<b>2.1</b> -1.1 <b>0.7</b> -0.2 2.3 1.4 -0.8 -0.7 0.3	<b>RM2</b> (RD) <b>2.1</b> -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 0.3	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 0.2	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMIN       FINAL LEVEL 1 SCORE, SL12         EXTENT OF REVIEW	SKETCH           E           Do Not Know         W1           -1.4           -0.9           -1.4           -0.3           1.4           0.7           -1.2           -1.8           1.6	BASIC W1A -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9	RE, MO S1 (MRF) 2.7 -1.2 -0.8 -1.0 -0.3 1.5 1.1 -0.9 -0.9 0.6 OTHEL	DIFIER S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 R HAZZ	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8 ARDS	Additiona <b>ND FIN</b> (RC SW) <b>2.5</b> -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 0.6	al sketchu IAL LE S5 (URM INF) 2.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6	es or cor EVEL - C1 (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 C1 -0.7 -0.8 -0.3 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.3 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.	<b>1 SCO</b> <b>2.5</b> -1.2 -0.7 -1.0 -0.4 2.3 1.5 -1.0 -1.0 0.3 <b>ION R</b>	on separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3 <b>EQUIF</b>	ate page L1 PC1 (TU) 2.1 -1.1 -0.7 -0.9 -0.2 2.1 1.6 -0.8 NA 0.3 RED	PC2 1.9 -1.0 -0.6 -0.2 2.5 1.3 -0.7 -0.7 0.2	<b>RM1</b> -1.1 -1.1 -0.2 2.3 1.4 -0.8 -0.7 0.3	<b>RM2</b> (RD) <b>2.1</b> -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 0.3	URM -1.7 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 0.2	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (> 3 stories)       Minimum Score, SMIN         FINAL LEVEL 1 SCORE, SL12       EXTENT OF REVIEW         Exterior:       Partial         Interior:       Partial	SKETCH           E           Do Not Know         W1           -1.4           -0.9           -1.4           -0.3           1.4           0.7           -1.2           -1.8           1.6           ≥ Smin:	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2 S □ Aerr Ent	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9	S1         (MRF)           2.7         -1.2           -0.8         -1.0           -0.3         1.5           1.1         -0.9           -0.9         0.6	DIFIER S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 R HAZA	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8 ARDS Is That T	Additiona ND FIN 84 (RC SW) 2.5 -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 -0.9 0.6 Frigger A Frigger A	al sketcho IAL LE S5 (URM INF) 2.7 -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6	es or cor EVEL / (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3 () ACT Detail	1 SCO 2.5 -1.2 -0.7 -1.0 -0.4 2.3 1.5 -1.0 -1.0 0.3 ION R ed Struc	on separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3 <b>EQUIF</b> tural Ev	ate page L1 PC1 (TU) 2.1 -1.1 -0.7 -0.9 -0.2 2.1 1.6 -0.8 NA 0.3 RED aluation	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2 D.2 D.2 D.2 D.2 D.2 D.2 D.2 D	<b>RM1</b> -1.1 -1.1 -1.2 2.3 1.4 -0.8 -0.7 0.3 <b>ed?</b>	<b>RM2</b> (RD) <b>2.1</b> -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 0.3	URM -1.7 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 0.2	<b>MH</b> <b>2.9</b> NA NA -0.5 1.2 1.6 -0.9 NA <i>1</i> .5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (> 3 stories)       Minimum Score, SMN         FINAL LEVEL 1 SCORE, SL12       EXTENT OF REVIEW         Exterior:       □ Partial         Interior:       □ Partial         Interior:       □ Partial         Interior:       □ Partial         Interior:       □ Partial	SKETCH           E           Do Not Know           5.1           -1.4           -0.9           -1.4           -0.3           1.4           0.7           -1.2           -1.8           1.6           ≥ SMIN:	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2 s Aert Ent	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9	S1           (MRF)           2.7           -1.2           -0.8           -1.0           -0.3           1.5           1.1           -0.9           0.6	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 R HAZ e Hazard Structura	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8 ARDS Is That al Evalu	Additiona ND FIN S4 (RC SW) 2.5 -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 0.6 Trigger A ation?	al sketchu IAL LE S5 (URM INF) 2.7 -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6	es or cor EVEL - C1 (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8	1 SCO 2.5 -1.2 -0.7 -1.0 -0.4 2.3 1.5 -1.0 -1.0 0.3 ION R ed Strucc es, unknow	on separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3 <b>EQUIE</b> tural Evo won FEW	PC1           (TU)           2.1           -1.1           -0.7           -0.9           -0.2           2.1           1.6           -0.8           NA           0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2 n Requir ng type of	(2.1) -1.1 (0.7) (0.8) -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.3 (0.3) (0.3)	RM2 (RD) 2.1 -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 0.3	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 0.2	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (> 3 stories)       Minimum Score, SMIN         FINAL LEVEL 1 SCORE, SL1 2       EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:	SKETCH           E           Do Not Know         W1           -1.4           -0.9           -1.4           -0.3           1.4           0.7           -1.2           -1.8           1.6           ≥ Smin:	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2 s _ Aer Ent	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9	S1         (MRF)           2.7         -1.2           -0.8         -1.0           -0.3         1.5           1.1         -0.9           -0.9         0.6	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 R HAZ R HAZ Structura ding pote ff, if know	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8 ARDS a Evalue ential (ur r/n)	Additiona ND FIN S4 (RC SW) 2.5 -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 0.6 Frigger A ation? hess S _{L2}	al sketch IAL LE S5 (URM INF) 2.7 -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6	es or cor EVEL - C1 (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8	1 SCO 1 SCO 2.5 -1.2 -0.7 -1.0 -0.4 2.3 1.5 -1.0 -1.0 0.3 ION R ed Struc es, score es, score	on separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3 <b>EQUIE</b> <b>tural Ev</b> own FEM less tha hazards	PC1           (TU)           2.1           -1.1           -0.7           -0.9           -0.2           2.1           1.6           -0.8           NA           0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2 n Requir ing type of t	(2.1) -1.1 (0.7) (0.8) -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.3 0.3	RM2 (RD) 2.1 -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 0.3	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 0.2	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMIN       FINAL LEVEL 1 SCORE, SL12         EXTENT OF REVIEW       Exterior:         Interior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:	SKETCH           E           Do Not Know         W1           -1.4           -0.9           -1.4           -0.3           1.4           0.7           -1.2           -1.8           1.6           ≥ Smin:	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2 s	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9	S1           (MRF)           2.7           -1.2           -0.8           -1.0           -0.3           1.5           1.1           -0.9           0.6   OTHEI Are Ther Detailed Pour cut-o Fallir	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 R HAZA ding pote ff, if know ng hazard	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8 ARDS a Evalue ential (ur rn) s from ta	Additiona <b>ND FIN</b> <b>S4</b> (RC SW) <b>2.5</b> -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 0.6 <b>Trigger A</b> <b>tation?</b> allers SL2 aller adja	al sketch IAL LE S5 (URM INF) 2.7 -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6 -0.9 -1.0 0.6	es or cor EVEL - C1 (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 -0.3 -0.3 -0.3 -0.3 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.3 -0.8 -0.3 -0.3 -0.8 -0.3 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.8 -0.9 -0.8 -0.9 -0.8 -0.9 -0.8 -0.9 -0.8 -0.9 -0.8 -0.9 -0.8 -0.9 -0.8 -0.9 -0.8 -0.9 -0.8 -0.9 -0.8 -0.9 -0.8 -0.9 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0	nments c 1 SCO 22 (SW) 2.5 -1.2 -0.7 -1.0 -0.4 2.3 1.5 -1.0 -1.0 0.3 ION R ed Struc es, score s, score	on separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3 <b>EQUIF</b> <b>tural Ev</b> bwn FEM less tha hazards	PC1           (TU)           2.1           -1.1           -0.7           -0.9           -0.2           2.1           1.6           -0.8           NA           0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2 n Requir ng type of t	(2.) -1.1 (0.) -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.2 2.3 1.4 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5	RM2 (RD) 2.1 -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 0.3	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 -0.6 0.2	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (2-3 stories)         Minimum Score, SMIN       FINAL LEVEL 1 SCORE, SL12         EXTENT OF REVIEW       Exterior:         Interior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:	SKETCH           E           Do Not Know         W1           -1.4           -0.9           -1.4           -0.3           1.4           0.7           -1.2           -1.8           1.6           ≥ Smin:	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2 s Aer Ent	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9 ial ered	S1           (MRF)           2.7           -1.2           -0.8           -1.0           -0.3           1.5           1.1           -0.9           0.6	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 R HAZ/ e Hazard Structura ding pote ff, if know ng hazard ing	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8 CARDS IS That al Evalue ential (ur /n) s from ta	Additiona ND FIN S4 (RC SW) 2.5 -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 0.6 Frigger A ation? mless SL2 aller adja	al sketch IAL LE S5 (URM INF) 2.7 -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6 -0.9 -1.0 0.6	es or cor EVEL - 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0	1 SCO 2.5 -1.2 -0.7 -1.0 -0.4 2.3 1.5 -1.0 -1.0 -1.0 0.3 ION R ed Struc es, score es, other o destace solutions	Dr. Separa           RE, S           C3           (URM           INF)           2.0           -1.0           -0.6           -0.3           NA           1.3           -0.7           -0.8           0.3           EQUIF           tural Evo           Down FEN           less that           hazards	PC1 (TU)           2.1           -1.1           -0.7           -0.9           -0.2           2.1           1.6           -0.8           NA           0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2 n Requir ing type of t ation Ref	<b>RM1</b> -1.1 <b>0.7</b> -0.2 2.3 1.4 -0.8 -0.7 0.3 <b>ed?</b> pr other but	RM2 (RD) 2.1 -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 0.3 uilding	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 0.2 eck one)	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMIN       FINAL LEVEL 1 SCORE, SL12         EXTENT OF REVIEW       Exterior:         Interior:       Partial         Interior:       Partial         Interior:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:       LEVEL 2 SCREENING P	SKETCH           E           Do Not Know         W1           -1.4           -0.9           -1.4           -0.3           1.4           -0.3           1.4           -0.3           1.4           -0.3           1.4           -0.3           1.4           -0.3           1.4           -0.3           1.4           -0.3           1.4           0.7           -1.2           -1.8           1.6           ≥ SMIN:           All Side:           No	BASIC W1A -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2 -1.3 -1.6 1.2 -1.3 -1.6 1.2 -1.3 -1.6 -1.2	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9	E, MO S1 (MRF) 2.7 -1.2 -0.8 -1.0 -0.3 1.5 1.1 -0.9 -0.9 0.6 CTHEI Are Ther Detailed □ Pour cut-o □ Fallir build □ Geol0 □ Signi	DIFIER S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 A HAZA ding pote ff, if known ng pote ff, if known ng pote fficant dar	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8 CARDS ARDS ARDS ARDS al Evalue ential (ur /n) is from ta urds or S mage/de	Additiona ND FIN (RC SW) 2.5 -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 0.6 Trigger A nation? nless SL2 aller adja soil Type i	al sketch IAL LE S5 (URM INF) 2.7 -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6 -0.9 -1.0 0.6	es or cor EVEL - C1 (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	1 SCO 2.5 -1.2 -0.7 -1.0 -0.4 2.3 1.5 -1.0 -1.0 -1.0 0.3 ION R ed Struc es, score es, other o ed Nons es, nonst	on separa           RE, S           C3           (URM           INF)           2.0           -1.0           -0.6           -0.3           NA           1.3           -0.7           -0.8           0.3           EQUIF           tural Evo           wm FEN           less tha           hazards           tructural	PC1           (TU)           2.1           -1.1           -0.7           -0.9           -0.2           2.1           1.6           0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2 n Requir ing type of t ation Rec	<b>RM1</b> -1.1 -1.1 -0.7 -0.2 2.3 1.4 -0.8 -0.7 0.3 <b>ed?</b> or other but commence d that sho	RM2 (RD) 2.1 -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.4 -0.8 -0.2 -0.8 -0.2 -0.2 -0.1 -0.1 -0.7 -0.8 -0.2 -0.2 -0.3 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.4 -0.5 -0.2 -0.5 -0.2 -0.5 -0.4 -0.5 -0.5 -0.2 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 0.2 eck one) raluated	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (> 3 stories)       Minimum Score, SMN         FINAL LEVEL 1 SCORE, SL12       EXTENT OF REVIEW         Exterior:       Partial         Interior:       Partial         Interior:       Partial         Interior:       Partial         Interior:       Yes         Soil Type Source:       Geologic Hazards Source:         Geologic Hazards Source:       Contact Person:         LEVEL 2 SCREENING P       Yes Final Level 2 Score	SKETCH         E         Do Not Know       W1         -1.4       -0.9         -1.4       -0.9         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.5       -1.4         -1.2       -1.8         -1.6       No         -1.8       No         -1.8       No         -1.9       No         -1.4       -1.4         -1.5       -1.4         -1.6       -1.4	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2 s Aer Ent	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9	S1         (MRF)           2.7         -1.2           -0.8         -1.0           -0.3         1.5           1.1         -0.9           -0.9         0.6 OTHEI Are Ther Detailed Pour Cut-co Fallir build Geol Gigni the s	DIFIER 22 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Complexed Co	RS, All S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8 ARDS al Evalue ential (ur /n) s from ta ards or S mage/de system	Additiona ND FIN S4 (RC SW) 2.5 -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 0.6 Frigger A nation? nless SL2 aller adjau terioratio	al sketchu IAL LE S5 (URM INF) 2.7 -0.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6 -0.9 -1.0 0.6	es or cor EVEL - C1 (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	I SCO           2:5           -1.2           -0.7           -1.0           -0.4           2.3           1.5           -1.0           0.3	on separa <b>RE, S</b> (URM INF) <b>2.0</b> -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3 <b>EQUIF</b> <b>tural Ev</b> bown FEM less that hazards <b>tructural</b> uctural in uctural i	PC1           (TU)           2.1           -1.1           -0.7           -0.9           2.1           1.6           -0.8           NA           0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2 n Requir ing type of t ation Rec identified exist that	(2.1) -1.1 -1.1 -0.2 2.3 1.4 -0.8 -0.7 0.3 ed? or other but commence d that sho may requ	RM2 (RD) 2.1 -1.1 -0.8 -0.2 2.3 1.4 -0.8 -0.8 -0.8 0.3 uilding	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 0.2 <i>eck one)</i> <i>r</i> aluated ation, but	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMIN       FINAL LEVEL 1 SCORE, SL13         EXTENT OF REVIEW       Exterior:         Partial       Interior:         Interior:       Partial         Interior:       None	SKETCH         E         Do Not Know       W1         -1.4       -0.9         -1.4       -0.9         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         -1.4       -0.3         1.4       0.7         -1.2       -1.8         1.6       X         ≥ SMIN:       No         □       No         □       No	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2 s Aer Ent Ent	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9 ial ered	S1           (MRF)           2.7           -1.2           -0.8           -1.0           -0.3           1.5           1.1           -0.9           0.6   OTHEI Are Ther Detailed Pour cut-cut-cut-cut-cut-cut-cut-cut-cut-cut-	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 R HAZ e Hazard Structura rdding pote ff, if know ig hazard ing ogic hazard ficant dar tructural st	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8 ARDS Is That al Evalue ential (ur /n) s from ta urds or S mage/de system	Additiona <b>ND FIN</b> <b>S4</b> (RC SW) <b>2.5</b> -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 0.6 <b>Trigger A</b> <b>Initian Part of Content of Content</b>	al sketch IAL LE S5 (URM INF) 2.7 -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6 Cent F n to	es or cor EVEL / C1 (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.3 -0.7 -0.8 -0.3 -0.3 -0.3 -0.5 -0.8 -0.3 -0.5 -0.8 -0.3 -0.5 -0.8 -0.3 -0.8 -0.3 -0.8 -0.7 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.5 -0.8 -0.8 -0.5 -0.8 -0.8 -0.8 -0.8 -0.9 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8	I SCO           2.5           -1.2           -0.7           -1.0           -0.4           2.3           1.5           -1.0           0.3           ION R           ed Struc           es, score           es, other           o           o	n separa RE, S (URM INF) 2.0 -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3 EQUIE tural Ev bown FEM less tha hazards tructural h aluation structural further	PC1           (TU)           2.1           -1.1           -0.7           -0.9           -0.2           2.1           1.6           -0.8           NA           0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2 n Requir ing type of ft ation Rec exist that eccessary ds identifier	Commence d that sho may requ Ted	RM2 (RD) 2.1 -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 0.3 illding ded? (ch uld be ev ire mitiga DNK	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 0.2 eck one) valuated ation, but	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (2-3 stories)       Minimum Score, SMW         FINAL LEVEL 1 SCORE, SL1       Exterior:         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:       Contact Person:         LEVEL 2 SCREENING P       Yes, Final Level 2 Score, SL2         Nonstructural hazards?       Yes	SKETCH         E         Do Not Know       W1         -1.4       -0.9         -1.4       -0.9         -1.4       -0.3         1.4       -0.3         1.4       -0.3         1.4       -0.3         1.4       -0.3         1.4       -0.3         1.4       -0.3         1.4       -1.2         -1.8       1.6         ≥ Smin:       Visible         No       No         ERFORME       No	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2 S Aer Ent D N N N N N N N N N N N N N	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9 ial ered	S1           (MRF)           2.7           -1.2           -0.8           -1.0           -0.3           1.5           1.1           -0.9           0.6   OTHEI Are Ther Detailed            Pour           cut-co           Fallir           build           Geol           Signither	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 RHAZA ding pote ff, if know g hazard ing pote ff, if know g hazard ing pote ff, if know g hazard ing pote ff, if know g hazard ing pote ff, if know g hazard ficant dar tructural s	RS, AI           S3           (LM)           3.5           -1.4           -0.9           -1.2           -0.8           0.6           -1.0           NA           0.8   ARDS s That al Evalue ential (ur n) s from ta urds or S mage/de system	Additiona ND FIN S4 (RC SW) 2.5 -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 0.6 Frigger A ation? aller adja soil Type   terioratio	al sketch IAL LE S5 (URM INF) 2.7 -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6 -0.9 -1.0 0.6 -0.9 -1.0 0.6	es or cor EVEL - C1 (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0	I SCO           2.5           -1.2           -0.7           -1.0           -0.4           2.3           1.5           -1.0           -1.0           ed Struct           es, score           es, other           o, nonstruct           o, nonstruct           ed Nons	C3 (URM INF) 2.0 -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3 EQUIE tural Ev pown FEM less tha hazards tructural hazards	PC1           (TU)           2.1           -1.1           -0.7           -0.9           -0.2           2.1           1.6           -0.8           NA           0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2 n Requir ing type of t ation Rec identified ecessary ds identified ecessary	(2.1)     (-1.1     (0.7)     (0.8)     (-2, 2.3)     1.4     (-0.8)     (-0.7)     (-0.3)  ed?  or other bu commence d that sho may requ ied	RM2 (RD) 2.1 -1.1 -0.7 -0.8 -0.2 2.3 1.4 -0.8 -0.8 0.3 illding uilding	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 0.2 <i>eck one)</i> <i>r</i> aluated ation, but	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5
FEMA BUILDING TYPE       I         Basic Score       Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1       Plan Irregularity, VL1         Plan Irregularity, PL1       Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (2-3 stories)         Minimum Score, SMIN       FINAL LEVEL 1 SCORE, SL12         EXTENT OF REVIEW       Exterior:         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:	SKETCH           E           Do Not Know         W1           -1.4           -0.9           -1.4           -0.3           1.4           -0.3           1.4           -0.3           1.4           0.7           -1.2           -1.8           1.6           SMIN:	BASIC W1A 4.5 -1.4 -0.9 -1.3 -0.5 2.0 1.2 -1.3 -1.6 1.2 -1.3 -1.6 1.2 -1.3 -1.6 1.2 -1.3 -1.6 1.2 -1.3 -1.6 -1.2 -1.3 -1.4 -0.5 2.0 1.2 -1.3 -1.4 -0.5 2.0 1.2 -1.3 -1.4 -0.5 2.0 1.2 -1.3 -1.4 -0.5 2.0 1.2 -1.3 -1.6 -1.2 -1.3 -1.6 -1.2 -1.4 -1.2 -1.3 -1.6 -1.2 -1.5 -1.4 -1.2 -1.3 -1.6 -1.2 -1.5 -1.4 -1.2 -1.3 -1.6 -1.2 -1.5 -1.4 -1.2 -1.3 -1.6 -1.2 -1.5 -1.4 -1.5 -1.4 -1.5 -1.4 -1.5 -1.4 -1.5 -1.4 -1.5 -1.4 -1.5 -1.4 -1.5 -1.3 -1.6 -1.2 -1.3 -1.6 -1.2 -1.5 -1.0 -1.2 -1.3 -1.6 -1.2 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7	SCOF W2 3.8 -1.4 -0.9 -1.2 -0.6 2.5 1.8 -1.4 -1.3 0.9 ial ered ered o lo d, scre	S1           (MRF)           2.7           -1.2           -0.8           -1.0           -0.3           1.5           1.1           -0.9           0.6   OTHEI Are Ther Detailed            Pour cut-o           Fallir           build           Geol           Signi           the s	DIFIEF S2 (BR) 2.6 -1.2 -0.7 -0.9 -0.2 1.5 1.4 -0.9 -0.9 0.6 R HAZA ding pote ff, if known g hazard ing ogic haza fficant dar tructural s <i>I note th</i>	RS, AI S3 (LM) 3.5 -1.4 -0.9 -1.2 -0.2 0.8 0.6 -1.0 NA 0.8 ARDS a Evalue ential (ur rn) s from ta ards or S mage/de system e follow	Additiona <b>ND FIN</b> <b>S4</b> (RC SW) <b>2.5</b> -1.1 -0.7 -0.9 -0.3 2.1 1.5 -0.9 -0.9 0.6 <b>Trigger A</b> <b>ation?</b> aller adja bill Type I terioratio <b>terioratio</b> <b>terioratio</b>	al sketch IAL LE S5 (URM INF) 2.7 -1.2 -0.7 -0.9 -0.3 NA 1.6 -0.9 -1.0 0.6 Cent F n to T = Esti	es or cor EVEL - C1 (MRF) 2.1 -1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 2.0 1.1 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.7 -0.8 -0.3 -0.5 -0.8 -0.3 -0.5 -0.8 -0.3 -0.5 -0.8 -0.3 -0.5 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.3 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8	nments c           1 SCO           2:5           -1.2           -0.7           -1.0           -0.4           2.3           1.5           -1.0           -1.0           0.3           ION R           ed Struct           es, score           es, other           o           ed Nons           es, nonstrutailed ev           o, nonstrutailed ev           o, nonstrutailed ev           o, no non	on separa RE, S (URM INF) 2.0 -1.0 -0.6 -0.8 -0.3 NA 1.3 -0.7 -0.8 0.3 EQUIE tural Ev bown FEN less tha hazards tructural h aluation istructural MH	ate page           L1           PC1 (TU)           2.1           -1.1           -0.7           -0.9           -0.2           2.1           1.6           -0.8           NA           0.3	PC2 1.9 -1.0 -0.6 -0.8 -0.2 2.5 1.3 -0.7 -0.7 0.2 n Requir ing type of t ation Received Homeson to a set that ecessary ds identified DNK = L actured Homeson	ed? commence d that sho may requ ied [] Do Not Kr Dusing []	RM2 (RD)         2.1         -1.1         -0.7         -0.8         -0.2         2.3         1.4         -0.8         -0.3         uilding         uild be exiire mitigation         DNK         DOW	URM 1.7 -1.0 -0.6 -0.7 -0.1 NA 1.3 -0.6 -0.6 0.2 <i>eck one)</i> <i>v</i> aluated ation, but	MH 2.9 NA NA -0.5 1.2 1.6 -0.9 NA 1.5

FEMA P-154 Data Collection Form

## Level 2 (Optional) MODERATE Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bldg Name:	Final Level 1 Score:	S _{L1} =	(do not consider $S_{MIN}$ )
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1}$ =	Plan Irregularity, $P_{L1}$ =
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) =$	

STRUCTURA		S TO ADD TO ADJUSTED BASELINE SCO	RE									
Topic	Statement (	statement is true, circle the "Yes" modifier; otherwise ci	ross out the modifier.)				Yes	Subtotals				
Vertical	Sloping	W1 building: There is at least a full story grade change	from one side of the building to the	other.			-1.4					
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade ch	ange from one side of the building to	o the oth	er.		-0.4					
	Weak	W1 building cripple wall: An unbraced cripple wall is vi	isible in the crawl space.				-0.7					
	and/or	W1 house over garage: Underneath an occupied story	, there is a garage opening without a	a steel m	noment fra	ame,						
	Soft Story	and there is less than 8' of wall on the same line (for m	ultiple occupied floors above, use 10	6' of wall	l minimur	n).	-1.4					
	(circle one	W1A building open front: There are openings at the gr	round story (such as for parking) ove	er at leas	st 50% of	the						
	maximum)	length of the building.					-1.4					
	Non-W1 building: Length of lateral system at any story is less than 50% of that at story above or height of any											
		story is more than 2.0 times the height of the story abo	ve.				-1.1					
	Non-W1 building: Length of lateral system at any story is between 50% and 75% of that at story above or height											
	of any story is between 1.3 and 2.0 times the height of the story above0.6											
	Setback Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the											
		diaphragm to cantilever at the offset.					-1.2					
	Vertical elements of the lateral system at upper stories are inboard of those at lower stories0.6											
	There is an in-plane offset of the lateral elements that is greater than the length of the elements0.4											
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of column	ns (or piers) along a column line in th	ne latera	l system	have						
	Column/	height/depth ratios less than 50% of the nominal heigh	t/depth ratio at that level.				-0.5					
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or	pier width) is less than one half of th	e depth	of the		0.5					
	0.111.1	spandrel, or there are infill walls or adjacent floors that	shorten the column.				-0.5					
	Split Level	I here is a split level at one of the floor levels or at the	root.				-0.6					
	Other	ince.	-1.2	V _{L2} =								
	Irregularity   There is another observable moderate vertical irregularity that may affect the building's seismic performance0.6 (Cap at -1.4)											
Plan	l orsional irre	include the W1A open front irregularity listed above)										
Irregularity, PL2	include the W1A open front irregularity listed above.) -1.0											
	Non-parallel	ystem: There are one or more major vertical elements of	of the lateral system that are not orth	iogonal i	to each o	tner.	-0.5					
	Reentrant co	ner. Both projections from an intenor corner exceed 25	% of the overall plan dimension in tr	iat direc	tion.		-0.5					
	Diaphragm o	ening: There is an opening in the diaphragm with a wid	ath over 50% of the total diaphragm	width at	that leve		-0.3	D -				
	C1, C2 Dulld	ig out-of-plane offset. The exterior beams do not align v	with the columns in plan.	o porfor			-0.4	$P_{L2} = $				
Dodundanov	Other inegula	nty. There is another observable plan inegularity that of	the building in each direction	c periori	nance.		-1.0	(Cap at -1.4)				
Recuricancy	The building	as at least two bays of lateral elements on each side of	the building in each direction.		(Con total		+0.4					
Pounding	by loss than	25% of the height of the shorter of One building is	2 or more stories teller than the oth	or	(Cap lolai nounding	-	-1.Z					
	the building	ad adjacent structure and:	at the end of the block	ei. /	pouriuriy podifiors c	+ 1 1)	-1.2					
S2 Building	"K" bracing a	in adjacent structure and. The building is	at the end of the block.			(-1.4)	-0.0					
C1 Building	Flat plate se	ionelly is visible.					-0.5					
DC1/DM1 Bldg	Thoro are re	to wall tips that are visible or known from drawings that	at do not roly on cross grain bonding	(Do no	t combine	with	+0.0					
FO I/Rivit blug	nost-henchr	ark or retrofit modifier.)	at do not rely on closs-grain bending	. (D0 110		7 VVILII	+0.4					
PC1/RM1 Bldg	The building	us closely spaced, full height interior walls (rather than	an interior space with few walls such	h as in a	warehou	se)	+0.4					
LIRM	Gable walls a	re present	an interior space with rew waits such	1 45 11 4	warenou	30).	-0.5					
MH	There is a supplemental seismic bracing system provided between the carriage and the ground +12											
Retrofit	Comprehens	ve seismic retrofit is visible or known from drawings					+1.2	M=				
		$S_{i,n} = (S' + V_{i,n} + P_{i,n} + M) > S_{i,m}$					Transfo	r to Level 1 form)				
There is observed		$S_{L2} = (S + V_{L2} + V_{L2} + W) = S_{MIN}$	the building's solemic performance:		<u> </u>	No	Tansie					
If yes describe th		elenoration of another condition that negatively affects be comment box below and indicate on the Level 1 form	the building's seisinic performance.	indenen	dont of th	NU no huildin	a's scor	۵				
ii yes, uescribe lii		ie comment box below and indicate on the Level 1 10111		пиереп		e nanan	iy s scol	σ.				
OBSERVABL		CTURAL HAZARDS										
Location	Statement (	heck "Yes" or "No")		Yes	No		Cor	nment				
Exterior	There is an u	nbraced unreinforced masonry parapet or unbraced unr	einforced masonry chimney.									

Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.									
	There is heavy cladding or heavy veneer.									
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.									
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.									
	There is a sign posted on the building that indicates hazardous materials are present.									
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.									
	Other observed exterior nonstructural falling hazard:									
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.									
	Other observed interior nonstructural falling hazard:									
Estimated Nonst	ructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)									
	□ Potential nonstructural hazards with significant threat to occupant life safety →Detailed Nonstructu	ral Evaluation r	ecommended							
	□ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nonstructural Evaluation required									
	□ Low or no nonstructural hazard threat to occupant life safety → No Detailed Nonstructural Evaluation required									

Comments:

## **Rapid Visual Screening of Buildings for Potential Seismic Hazards** FEMA P-154 Data Collection Form

# Bldg_FLevel 1MODERATE Seismicity

							Add	lress:										
														Z	Zip:			
						, det	Oth	er Ident	ifiers:									
		1.4		14			Bui	ding Na	ime:									
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	-	T	TT	PP.		Dal	No	Stories	· 4hov	e Grade	<u>.</u>	Relo	w Grade		Year	Built		<b>T</b> EST
		F					Tota	al Floor	Area (so	a. ft.):	. <u> </u>		wolaut	·	_ Code	Year:		
	-						Add	litions:	□ N	one [	Yes, Y	(ear(s) E	Built:					
							Occ	upancy	: Ass	embly	Comme	rcial	Emer. S	Services	🔲 His	storic	Shelt	er
									Indu	istrial	Office		School		. 🗌 Go	overnmer	nt	
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	E		19.19			1	Geo	logic H	azards:	Liquefa	ction: Yes	s/No/DN	K Lands	slide: Yes	/No/DNK	Surf. Ru	upt.: Yes/	No/DNK
	11 ° 11	-	No.	4.			Adja	acency:		🗌 P	ounding		Falling H	lazards fr	om Taller	Adjacen	t Building	
							Irre	gularitie	s:	ΠV	ertical (ty	pe/seve	rity)					
the second			TT							□ P	lan (type)	·						
		-	Α				Exte	erior Fal	ling		nbraced	Chimne	/s	Hea	avy Cladd	ling or H	eavy Ver	neer
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		В	ASIC	sco	RE, MO	DIFIE	RS, A			EVEL	1 SCO	RE, S	L1		~			
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	<b>S1</b> (MRF)	<b>S2</b> (BR)	<b>S3</b> (LM)	<b>S4</b> (RC	<b>S5</b> (URM	C1 (MRF)	C2 (SW)	C3 (URM	PC1 (TU)	PC2	RM1 FD	RM2 (RD)	URM	МН
Basic Score		5.1	4.5	3.8	2.7	2.6	3.5	SW)	INF) 2.7	2.1	2.5	INF) 2.0	2.1	1.9	(21)	2.1	1.7	2.9
Severe Vertical Irregularity, $V_{L1}$		-1.4	-1.4	-1.4	-1.2	-1.2	-1.4	-1.1	-1.2	-1.1	-1.2	-1.0	-1.1	-1.0	-1.1	-1.1	-1.0	NA
Moderate Vertical Irregularity, VL1		-0.9	-0.9	-0.9	-0.8	-0.7	-0.9	-0.7	-0.7	-0.7	-0.7	-0.6	-0.7	-0.6	0.7	-0.7	-0.6	NA
Plan Irregularity, PL1		-1.4	-1.3	-1.2	-1.0	-0.9	-1.2	-0.9	-0.9	-0.8	-1.0	-0.8	-0.9	-0.8	-0.8	-0.8	-0.7	NA
Pre-Code		-0.3	-0.5	-0.6	-0.3	-0.2	-0.2	-0.3	-0.3	-0.3	-0.4	-0.3	-0.2	-0.2	-0.2	-0.2	-0.1	-0.5
Post-Benchmark		1.4	2.0	2.5	1.5	1.5	0.8	2.1	NA 1.6	2.0	2.3	NA 12	Z.1	2.5	2.3	2.3	NA 12	1.2
Soil Type F (1-3 stories)		-12	-1.3	-1.0	-0.9	-0.9	-1.0	-0.9	-0.9	-0.7	-1.0	-0.7	-0.8	-0.7	-0.8	-0.8	-0.6	-0.9
Soil Type E (> 3 stories)		-1.8	-1.6	-1.3	-0.9	-0.9	NA	-0.9	-1.0	-0.8	-1.0	-0.8	NA	-0.7	-0.7	-0.8	-0.6	NA
Minimum Score, S _{MIN}		1.6	1.2	0.9	0.6	0.6	0.8	0.6	0.6	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.5
FINAL LEVEL 1 SCORE, SL	$1 \ge S_{MIN}$ :																	
EXTENT OF REVIEW					OTHER	R HAZ				АСТ		EQUII	RED					
Exterior:	ial 🗆 /	All Sides	🗌 Aer	al	Are There	e Hazan	ds That	Trigger 4	4	Detail	ed Struc	tural Fv	aluation	n Require	ed?			
Interior:	e Di	Visible		ered	Detailed	Structu	ral Evalu	ation?	-		es unkno	wn FFN	IA buildi	na tvne o	r other hi	ildina		
Drawings Reviewed: Ves	1 🗌	No			🗌 Poun	ding pot	ential (ur	nless SL2	>	ΗΥ	es, score	less tha	n cut-off					
Soil Type Source:					cut-o	ff, if kno	wn)			<u></u> Ч	es, other	hazards	present					
Geologic Hazards Source:						g hazar	ds from t	aller adja	icent	∣∐ N	0			. –				
						ny ogic haz	ards or S	soil Type	F	Detail	ed Nons	tructura	I Evalua	ation Rec	ommend	led? (ch	eck one)	
LEVEL 2 SCREENING	PERFO	ORME	D?		Signi	ficant da	mage/de	terioratio	on to		es, nonst	ructural	hazards	identified	I that sho	uld be ev	aluated	
Yes, Final Level 2 Score, SL			🗆 N	0	the st	tructural	system			L N de	o, nonstr etailed ev	aluation	is not ne	ECESSARV	mayrequ	ne muga	auon, DU	a
Nonstructural hazards?	Yes		🗆 N	0						□ Ñ	o, no nor	structur	al hazaro	ds identifi	ed 🗌	DNK		
Where info	ormation o	cannot k	e verifie	d, scre	ener shal	l note ti	he follow	ving: ES	ST = Esti	mated o	or unrelia	ble data	<u> 0R</u>	DNK = D	o Not Kn	ow		
Legend: MRF = N	Noment-resi	isting fran	ne	RC = Re	einforced cor	ncrete		URM INF	= Unreinfo	rced mas	onry infill	МН	= Manufa	actured Ho	using F[	) = Flexib	le diaphra	gm
BR = Bra	aced frame		:	SW = SI	near wall			ı U = Tilt u	p			LM	= Light m	etal	RI	) = Riaid	diaphragn	1 I

FEMA P-154 Data Collection Form

## Level 2 (Optional) MODERATE Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bldg Name:	Final Level 1 Score:	S _{L1} =	(do not consider $S_{MIN}$ )
Screener:	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1}$ =	Plan Irregularity, $P_{L1}$ =
Date/Time:	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) =$	

STRUCTURAL MODIFIERS TO ADD TO ADJUSTED BASELINE SCORE								
Topic	Statement (	statement is true, circle the "Yes" modifier: otherwise	cross out the modifier.)				Yes	Subtotals
Vertical	Sloping	oping W1 building: There is at least a full story grade change from one side of the building to the other					-1.4	
Irregularity, $V_{L2}$	Site	Non-W1 building: There is at least a full story grade change from one side of the building to the other.				-0.4		
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.				-0.7		
	and/or	W1 building clipple waii. All displaced clipple wai is visible in the claw space. W1 house over garage: Underneath an occupied story, there is a garage opening without a steel moment frame.						
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above. use 16' of wall minimum).				-1.4		
	(circle one	W1A building open front: There are openings at the	pround story (such as for parking) ove	er at leas	st 50% of	the		
	maximum)	length of the building.					-1.4	
		Non-W1 building: Length of lateral system at any story is less than 50% of that at story above or height of any						
		story is more than 2.0 times the height of the story above.				-1.1		
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that at story above or height						
		of any story is between 1.3 and 2.0 times the height of the story above.				-0.6		
	Setback	Vertical elements of the lateral system at an upper ste	bry are outboard of those at the story	below ca	ausing the	e		
		diaphragm to cantilever at the offset.					-1.2	
		Vertical elements of the lateral system at upper storie	s are inboard of those at lower stories	S.			-0.6	
		There is an in-plane offset of the lateral elements that	t is greater than the length of the elem	nents.			-0.4	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of colur	nns (or piers) along a column line in th	ne latera	l system	have		
	Column/	height/depth ratios less than 50% of the nominal heig	ht/depth ratio at that level.				-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (o	r pier width) is less than one half of th	e depth	of the			
		spandrel, or there are infill walls or adjacent floors that shorten the column.					-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.					-0.6	
	Other	There is another observable severe vertical irregularity that obviously affects the building's seismic performance.				-1.2	V _{L2} =	
	Irregularity There is another observable moderate vertical irregularity that may affect the building's seismic performance0.6 (Cap at -1.4)							
Plan	Torsional irregularity: Lateral system does not appear relatively well distributed in plan in either or both directions. (Do not							
Irregularity, PL2	include the V	the W1A open tront irregularity listed above.) -1.0					-1.0	
	Non-parallel	arallel system: There are one or more major vertical elements of the lateral system that are not orthogonal to each other.					-0.5	
	Reentrant co	at corner: Both projections from an interior corner exceed 25% of the overall plan dimension in that direction.					-0.5	
	Diaphragm o	n opening: There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level.					-0.3	D -
	C1, C2 Dulld	Inding out-of-plane offset: The exterior beams do not align with the columns in plan.					-0.4	$P_{L2} = $
Dedundanav	Other inegula	Uther irregularity: There is another observable plan irregularity that obviously affects the building's seismic performance1.0 (Cap at -1.4)						
Redundancy	The building	has at least two bays of lateral elements of each side	of the building in each direction.		Con total		+0.4	
Founding	by loss than	25% of the height of the shorter of One building	not alight vehically within 2 reet.	or	ounding	ŀ	-1.Z	
	the building	nd adjacent structure and:	s 2 of more stones taken than the other	ei. /	pouriuriy nodifiars a	t -1 1)	-1.2	
S2 Building	"K" bracing a	pomotry is visible	s at the end of the block.			(-1.4)	-0.0	
C1 Building	R bracing geometry is visible.				-0.5			
DC1/DM1 Bldg	That plate serves as the stating in the moment induce0.0							
FO I/Rivit blug	nere are root-to-wait ues that are visible or known from drawings that do not rely on cross-grain bending. (Do not combine with +0.4							
PC1/RM1 Bldg	Pust-perior mark or remain an interior walls (rather than an interior space with few walls such as in a warehouse)							
LIRM	Gable walls are present				30).	-0.5		
MH	There is a supplemental seismic bracing system provided between the carriage and the ground					+1.2		
Retrofit	Comprehensive seismic retrofit is visible or known from drawings.				+1.2	M=		
FINAL LEVEL 2 SCORE $S_{12} = (S' + V_{12} + P_{12} + M) > S_{100}$								
There is observable damage or deterioration or another condition that negatively affects the building's seismic performance: $\Box$ Vec. $\Box$ No.								
If yes, describe the condition in the comment box below and indicate on the Level 1 form that detailed evaluation is required independent of the building's score								
" yes, uescribe li		ie comment box below and indicate on the Level 1 101	n that detailed evaluation is required	nuepen	aoni Ui lii	o bullull	19 3 3001	<i>.</i>
OBSERVABLE NONSTRUCTURAL HAZARDS								
Location	Statement (	heck "Yes" or "No")		Yes	No		Cor	nment
Exterior	There is an u	nbraced unreinforced masonry parapet or unbraced ur	reinforced masonry chimney.					

Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.				
	There is heavy cladding or heavy veneer.				
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.				
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.				
	There is a sign posted on the building that indicates hazardous materials are present.				
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.				
	Other observed exterior nonstructural falling hazard:				
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.				
	Other observed interior nonstructural falling hazard:				
Estimated Nonst	ructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)				
	Potential nonstructural hazards with significant threat to occupant life safety  Total and the safety  Total and the safety  Total and the safety  Potential nonstructural Evaluation recommended				
	Nonstructural hazards identified with significant threat to occupant life safety ->But no Detailed Nonstructural Evaluation required				
	$\Box$ Low or no nonstructural hazard threat to occupant life safety $ ightarrow$ No Detailed Nonstructural Evaluation required				

Comments:

## STATE OF OREGON STANDARD PROFESSIONAL SERVICES CONTRACT

(Architectural, Engineering, Land Surveying and Related Services)

THIS PROFESSIONAL SERVICES CONTRACT (the "Contract") is between the State of Oregon, by and through its *[Ontario School District 8C]*, (the "Owner"), and:

Company	Contract #	
Address	PCA Project/Phase	
City, State Zip		
Phone	Fax #	

(the "Consultant") (collectively Owner and Consultant are referred to as the "Parties"). This Contract is for all Services related to completion of the project more particularly described as follows (the "Project"):

#### [NOTE: Ontario High School Gym Seismic Rehabilitation, architectural, engineering, and structural design and Project Management services for the Seismic Rehabilitation of Ontario High School Gym, at 1115 W. Idaho Ave. Ontario Oregon 97914. The following completed statement must be provided here if the provisions of Section D.2.03 are included in the contract: "The fixed limit for construction of the Project is \$2,460,345______]

This Contract shall become effective on the date that the Contract is fully executed by the Parties and all required State of Oregon approvals have been obtained (the "Effective Date"). No Services shall be performed prior to the Effective Date. The Contract shall expire, unless otherwise terminated or extended, on  $\frac{12/31/2024}{12}$ . Generally, the Services to be performed by Consultant on the Project consist of the following (the "Services"):

## [NOTE: Insert a brief, general description of all the <u>services</u> that Consultant will perform on the Project, such as "Programming, design, construction contract administration and warranty services for the Project."]

The Services are more specifically described in the **EXHIBIT A, Statement of Work**. Owner agrees to pay Consultant a sum not to exceed (§______) for performance of the Services, which shall include all allowable expenses. Progress payments shall be made in accordance with **EXHIBIT B, Consultant Compensation**.

This Contract consists of these introductory provisions and the signature page(s), Section 1-Relationship of the Parties, Section 2-Consultant's Responsibilities; Representations and Warranties, Section 3-Responsibilities of Owner; Special Contract Provisions, Section 4-General Contract Provisions and the following exhibits attached hereto and incorporated herein by this reference:

EXHIBIT A: Statement of Work EXHIBIT B: Consultant Compensation EXHIBIT C: Insurance Provisions EXHIBIT D: Special Contract Provisions **EXHIBIT E:** Critical Date Schedule **EXHIBIT F:** Rate Schedule **EXHIBIT G:** Assumptions and Exclusions

THIS CONTRACT CONSTITUTES THE ENTIRE AGREEMENT BETWEEN THE PARTIES ON THE SUBJECT MATTERS ADDRESSED HEREIN. THE TERMS OF THIS CONTRACT CANNOT BE WAIVED, ALTERED, MODIFIED, SUPPLEMENTED OR AMENDED, IN ANY MANNER WHATSOEVER, EXCEPT BY WRITTEN INSTRUMENT SIGNED BY THE PARTIES AND CONTAINING ALL REOUIRED STATE OF OREGON APPROVALS. ANY SUCH WAIVER, ALTERATION, MODIFICATION, SUPPLEMENTATION OR AMENDMENT SHALL BE EFFECTIVE ONLY IN THE SPECIFIC INSTANCE AND FOR THE SPECIFIC PURPOSE GIVEN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS, OR REPRESENTATIONS, ORAL OR WRITTEN, REGARDING THIS CONTRACT EXCEPT AS CONTAINED, INCORPORATED OR REFERENCED HEREIN. CONSULTANT, BY THE SIGNATURE BELOW OF ITS AUTHORIZED REPRESENTATIVE, HEREBY ACKNOWLEDGES THAT IT HAS READ THIS CONTRACT, UNDERSTANDS THIS CONTRACT, AND AGREES TO BE BOUND BY ALL OF THIS CONTRACT'S TERMS AND CONDITIONS. THIS CONTRACT, AND ANY AMENDMENTS TO IT, MAY BE EXECUTED IN COUNTERPARTS (EACH OF WHICH SHALL BE AN ORIGINAL AND ALL OF WHICH SHALL CONSTITUTE BUT ONE AND THE SAME INSTRUMENT) OR IN MULTIPLE ORIGINALS. A FAXED FORM OF THIS CONTRACT OR ANY AMENDMENT THERETO, EXECUTED BY ONE OR MORE OF THE PARTIES, WILL CONSTITUTE A COUNTERPART HEREOF, AS LONG AS THE COUNTERPART BEARING THE PARTY'S ORIGINAL SIGNATURE IS PROMPTLY TRANSMITTED TO THE OTHER PARTY AND RECEIVED BY THAT PARTY FORTHWITH.

Consultant	Name/Title	Date
Ontario School District 8C		
	Name/Title	Date
Approved for Legal Sufficiency	Approved by	
Department of Justice	Name/Title	Date

#### 1. RELATIONSHIP OF THE PARTIES

**1.1.** Consultant shall provide the Services for the Project in accordance with the terms and conditions of this Contract. Consultant's performance of Services shall be as a professional consultant to Owner to carry out the Project and to provide the technical documents and supervision to achieve Owner's Project objectives.

**1.2.** In administering this Contract, Owner may retain the services of an independent project manager and other consultants as needed to fulfill Owner's objectives.

**1.3.** Consultant shall provide a list of all sub-consultants which Consultant intends to utilize on the Project (the "Sub-consultants"). This list shall include such information on the qualifications of the Sub-consultants as may be requested by Owner. Owner reserves the right to review the Sub-consultants proposed. Consultant shall not retain a Sub-consultant to which Owner has a reasonable objection.

1.4. Consultant acknowledges that this Contract was awarded on the basis of the unique background and abilities of the key personnel of Consultant and Subconsultants identified by Consultant (collectively, the "Key Personnel" and individually, the "Key Person"). Therefore, Consultant shall make available Key Personnel as identified in its proposal. Consultant shall provide to Owner a list of the proposed Key Personnel to be assigned to the Project. This list shall include such information on the professional background of each Key Person as may be requested by Owner. If any Key Person becomes unavailable to Consultant, the Parties shall mutually agree upon an appropriate replacement. Without prior notice to, and the written consent of, Owner, Consultant shall not: (i) re-assign or transfer any Key Person to other duties or positions so that the Key Person is unable to fully perform his or her responsibilities under the Contract; (ii) allow any Key Person to delegate to anyone his or her performance of any management authority or other responsibility required under the Contract; or (iii) substitute any Key Person. Any of these actions shall constitute a material breach of the Contract. Consultant shall remove any individual or Sub-consultant from the Project if so directed by Owner in writing following discussion with Consultant, provided that Consultant shall have a reasonable time period within which to find a suitable replacement.

#### 2. CONSULTANT'S RESPONSIBILITIES; REPRESENTATIONS AND WARRANTIES

**2.1.** Consultant agrees that:

2.1.1. The phrase "Standard of Care" that is used in this Contract is defined as follows: the same professional skill, care, diligence and standards as other professionals performing similar services under similar conditions (the "Standard of Care");

2.1.2. Consultant shall perform all Services in accordance

with the Standard of Care;

2.1.3. Consultant shall prepare, in accordance with the Standard of Care, all drawings, specifications, deliverables and other documents so that they accurately reflect, fully comply with and incorporate all applicable laws, rules, and regulations, and so that they are complete and functional for the purposes intended, except as to any deficiencies which are due to causes beyond the control of Consultant;

2.1.4. Consultant shall be responsible for correcting any inconsistencies, errors or omissions in the drawings, specifications, deliverables and other documents prepared by Consultant at no additional cost to Owner;

2.1.5. Owner's review or acceptance of documents shall not be deemed as approval of the adequacy of the drawings, specifications, deliverables and other documents. Any review or acceptance by Owner will not relieve Consultant of any responsibility for complying with the Standard of Care;

2.1.6. Except as provided in Supplemental Services addressed within **Exhibits A and B**, Consultant shall, at no additional cost to Owner, render assistance to Owner in resolving problems or other issues relating to the Project design or to specified materials;

2.1.7. During the term of the Contract, Consultant shall obtain, hold, maintain and fully pay for all licenses and permits required by law for Consultant to conduct its business and perform the Services. During the term of the Contract, Owner shall pay for and Consultant shall obtain, hold and maintain all licenses and permits required for the Project, unless otherwise specified in the Contract. Consultant shall review the Project site and the nature of the Services and advise Owner throughout the course of the Project as to the necessity of obtaining all Project permits and licenses, and any issues or impediments related to the issuance or continuation of any such permits and licenses; and

2.1.8. Consultant shall pay all Sub-consultants and other subcontractors as required by Consultant's contracts with those Sub-consultants and subcontractors. Consultant agrees that Owner has no direct or indirect contractual obligation or other legal duty whatsoever to pay the Subconsultants and other subcontractors of Consultant or otherwise ensure that Consultant makes full and timely payment to those Sub-consultants and subcontractors for services performed on the Project.

**2.2.** Consultant represents and warrants to Owner that:

2.2.1. Consultant has the power and authority to enter into and perform this Contract; the persons executing this Contract on behalf of Consultant have the actual authority to bind Consultant to the terms of this Contract;

2.2.2. When executed and delivered, this Contract shall be

a valid and binding obligation of Consultant enforceable in accordance with its terms; the provisions of this Contract do not conflict with or result in a default under any agreement or other instrument binding upon Consultant and do not result in a violation of any law, regulation, court decree or court order or other legal process applicable to Consultant;

2.2.3. Consultant shall, at all times during the term of this Contract, be duly licensed to perform the Services, and if there is no licensing requirement for the profession or Services, be duly qualified and competent;

2.2.4. Consultant is an experienced firm having the skill, legal capacity, and professional ability necessary to perform all the Services required under this Contract and to design and administer a project having the scope and complexity of the Project;

2.2.5. Consultant has the capabilities and resources necessary to perform Consultant's obligations under this Contract;

2.2.6. Consultant is, or shall become, in a manner consistent with the Standard of Care, familiar with all current laws, rules, and regulations which are applicable to the design and construction of the Project;

2.2.7. All Services shall be performed in accordance with the Standard of Care;

2.2.8. The Project, when completed and if constructed in accordance with the intent established by the drawings, specifications, deliverables and other documents prepared by Consultant pursuant to this Contract, shall be structurally sound and a complete and properly functioning facility suitable for the purposes for which it is intended; and

2.2.9. The published specifications of the "Automated Systems" that Consultant has specified, designated and planned pursuant to this Contract conform to the Contract requirements. For the purposes of this subsection, "Automated Systems" shall mean any computers, software, firmware, HVAC systems, elevators, electrical systems, fire or life safety systems, security systems and any other electrical, mechanized or computerized devices serving the Project.

**2.3.** The warranties set forth in this section are in addition to, and not in lieu of, any other warranties provided in this Contract or at law.

## 3. RESPONSIBILITIES OF OWNER; SPECIAL CONTRACT PROVISIONS

Owner's responsibilities under this Contract, and certain additional responsibilities of Consultant, are set forth in **Exhibit D-Special Contract Provisions**.

#### 4. GENERAL CONTRACT PROVISIONS

**4.1. Contract Performance.** Consultant shall at all times perform the Services diligently and without delay and shall punctually fulfill all Contract requirements consistent with the schedule for the performance of Services set forth in **Exhibits A and E**. Expiration or termination of the Contract shall not extinguish, prejudice, or limit either party's right to enforce this Contract with respect to any default or defect in performance. <u>Time is of the essence in the performance of this Contract</u>.

4.2. Access to Records. For not less than three (3) years after the Contract's expiration or termination, Owner, the Secretary of State's Office of the State of Oregon, the federal government, and their duly authorized representatives shall have access to the books, documents, papers, and records of Consultant and the Sub-consultants which pertain to the Contract for the purpose of making audits, examination, excerpts, and transcripts. If, for any reason, any part of this Contract, any Project-related consultant contract or any Project-related construction contract(s) is involved in litigation, Consultant shall retain all pertinent records for not less than three years or until all litigation is resolved, whichever is longer. Consultant shall provide Owner and the other entities referenced above with full access to these records in preparation for and during litigation.

**4.3.** Funds Available and Authorized. Owner reasonably believes as of the Effective Date that sufficient funds are available and authorized for expenditure to finance the cost of this Contract within Owner's appropriation or limitation. Consultant understands and agrees that, to the extent that sufficient funds are not available and authorized for expenditure to finance the cost of this Contract, Owner's payment of amounts under this Contract attributable to Services performed after the last day of the current biennium is contingent on Owner receiving from the Oregon Legislative Assembly appropriations, limitations or other expenditure authority sufficient to allow Owner, in the exercise of its reasonable administrative discretion, to continue to make payments under this Contract.

**4.4. Insurance.** Consultant shall maintain in effect for the duration of this Contract, or any other time periods required herein, the insurance set forth in **Exhibit C-Insurance Provisions**.

#### 4.5 Indemnity.

4.5.1. <u>CLAIMS FOR OTHER THAN PROFESSIONAL</u> <u>LIABILITY</u>. CONSULTANT SHALL INDEMNIFY, DEFEND, SAVE, AND HOLD HARMLESS THE STATE OF OREGON AND OWNER, AND THEIR OFFICERS, AGENTS, AND EMPLOYEES, FROM AND AGAINST ALL CLAIMS, SUITS, ACTIONS, LOSSES, DAMAGES, LIABILITIES, COSTS AND EXPENSES OF WHATSOEVER NATURE RESULTING FROM OR ARISING OUT OF THE ACTS OR OMISSIONS OF CONSULTANT OR ITS SUB-CONSULTANTS, SUBCONTRACTORS, AGENTS, OR EMPLOYEES UNDER THIS CONTRACT.

4.5.2. <u>CLAIMS FOR PROFESSIONAL LIABILITY</u>. CONSULTANT SHALL INDEMNIFY, DEFEND, SAVE, AND HOLD HARMLESS THE STATE OF OREGON AND OWNER, AND THEIR OFFICERS, AGENTS, AND EMPLOYEES, FROM AND AGAINST ACTIONS, ALL CLAIMS, SUITS, LOSSES. DAMAGES, LIABILITIES, COSTS AND EXPENSES OF WHATSOEVER NATURE ARISING OUT OF THE PROFESSIONALLY NEGLIGENT ACTS, ERRORS OR **OMISSIONS** OF CONSULTANT OR ITS SUB-CONSULTANTS. SUBCONTRACTORS. AGENTS. OR EMPLOYEES IN THE PERFORMANCE OF PROFESSIONAL SERVICES UNDER THIS CONTRACT.

4.5.3. Owner Defense Requirements. Notwithstanding the obligations under Sections 4.5.1 and 4.5.2, neither Consultant nor any attorney engaged by Consultant shall defend any claim in the name of the State of Oregon or any agency of the State of Oregon, nor purport to act as legal representative of the State of Oregon or any of its agencies, without the prior written consent of the Oregon Attorney General. Owner may, at any time and at its election, assume its own defense and settlement of any claims in the event that: it determines that Consultant is prohibited from defending the State of Oregon; Consultant is not adequately defending the State of Oregon's interests; an important governmental principle is at issue; or it is in the best interests of the State of Oregon to do so. The State of Oregon reserves all rights to pursue any claims it may have against Consultant if the State of Oregon elects to assume its own defense.

4.5.4. <u>Owner's Actions</u>. This Section 4.5 does not include indemnification by Consultant of the State of Oregon or Owner or their officers, agents, and employees, for the acts or omissions of the State of Oregon, Owner or their officers, agents, and employees, whether within the scope of the Contract or otherwise.

#### 4.6. Consultant's Status.

4.6.1. Consultant shall perform all Services as an independent contractor. Although Owner reserves the right to set the delivery schedule for the Services to be performed and to evaluate the quality of the completed performance, Owner cannot and will not control the means and manner of Consultant's performance. Consultant is responsible for determining the appropriate means and manner of performing the Services. Consultant, Consultant's employees and the Sub-consultants are not "officers, employees, or agents" of the State of Oregon or Owner, as those terms are used in ORS 30.265.

4.6.2. Consultant shall not have control or charge of, and shall not be responsible for, the acts or omissions of other consultants or contractors under contract with Owner who

are performing services or construction work on the Project. However, this provision does not in any way change Consultant's professional responsibility to report to Owner any information, including information on the performance of consultants or contractors outside the control or charge of Consultant, concerning activities or conditions that have or could have an adverse effect on Owner or the Project.

4.6.3. Consultant is not a contributing member of the Public Employee's Retirement System and will be responsible for any federal, state or other taxes applicable to any compensation or payments paid to Consultant under this Contract. Consultant will not be eligible for any benefits from any payments made under this Contract for federal Social Security, unemployment insurance, or worker's compensation, except as a self-employed individual. If any payment under this Contract is to be charged against federal funds, Consultant certifies that it is not currently employed by the federal government.

**4.7.** Successors & Assignments. The provisions of this Contract shall be binding upon and shall inure to the benefit of the Parties and their respective successors and assigns. After the original Contract is executed, Consultant shall not enter into any Sub-consultant agreements for any of the Services or assign or transfer any of its interest in this Contract, without the prior written consent of Owner.

**4.8.** Compliance with Applicable Law. Consultant shall comply with all federal, state and local laws, regulations, executive orders and ordinances applicable to the Services. Owner's performance under this Contract is conditioned upon Consultant's compliance with the provisions of ORS 279C.505, 279C.515, 279C.520, and 279C.530, which are hereby incorporated by reference. Consultant, the Sub-consultants, if any, and all employers providing Services, labor or materials under this Contract are subject employers under the Oregon workers' compensation law and shall comply with ORS 656.017.

4.9. Governing Law; Jurisdiction; Venue. This Contract shall be governed by and construed in accordance with the laws of the State of Oregon without regard to principles of conflicts of law. Any claim, action, suit or proceeding (collectively "Claim") between Owner and Consultant that arises from or relates to this Contract shall be brought and conducted solely and exclusively within the Circuit Court of Marion County for the State of Oregon; provided, however, if a Claim must be brought in a federal forum, then it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon. In no event shall this "Governing Law; Jurisdiction; Venue" section be construed as a waiver by the State of Oregon of any form of defense or immunity, whether based on sovereign immunity, governmental immunity, immunity based on the Eleventh Amendment to the United States Constitution or otherwise. CONSULTANT, BY EXECUTION OF THIS CONTRACT, HEREBY CONSENTS TO THE IN PERSONAM JURISDICTION OF SAID COURTS.

#### 4.10. Tax Compliance Certification.

4.10.1. By signature on this Contract, the undersigned certifies under penalty of perjury that the undersigned is authorized to act on behalf of Consultant and that Consultant is, to the best of the undersigned's knowledge, not in violation of any Oregon Tax Laws.

4.10.2. For purposes of this certification, "Oregon Tax Laws" means a state tax imposed by ORS 401.792 to 401.816 (Tax For Emergency Communications), 118 (Inheritance Tax), 314 (Income Tax), 316 (Personal Income Tax), 317 (Corporation Excise Tax), 318 (Corporation Income Tax), 320 (Amusement Device and Transient Lodging Taxes), 321 (Timber and Forestland Tax), 323 (Cigarettes and Tobacco Products Tax), the elderly rental assistance program under ORS 310.630 to 310.706, and any local taxes administered by the Department of Revenue under ORS 305.620.

**4.11.** Severability. The Parties agree that if any term or provision of this Contract is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected and the rights and obligations of the Parties shall be construed and enforced as if the Contract did not contain the particular term or provision held to be invalid.

**4.12.** Force Majeure. Neither party shall be held responsible for delay or default in the performance of its obligations due to a cause beyond its reasonable control, including, but not limited to fire, riot, acts of God, terrorist acts or war where such cause was beyond such party's reasonable control. Each party shall, however, make all reasonable efforts to remove or eliminate such a cause of delay or default and shall, upon the cessation of the cause, diligently pursue performance of its obligations under the Contract.

**4.13. Waiver.** The failure of Owner to enforce any provision of this Contract shall not constitute a waiver by Owner of that or any other provision.

**4.14.** Third Party Beneficiaries. Nothing contained in this Contract shall create a contractual relationship with or a cause of action in favor of a third party against Owner or Consultant. Consultant's Services under this Contract shall be performed solely for Owner's benefit and no other entity or person shall have any claim against Consultant because of this Contract for the performance or nonperformance of Services hereunder.

#### 4.15. Ownership of Work Product; Confidentiality.

4.15.1. <u>Definitions</u>. As used in this Contract, the following terms have the meanings set forth below:

a. "Consultant Intellectual Property" means any intellectual property that is owned by Consultant and developed independently from this Contract and that is applicable to the Services or included in the Work Product. b. "Third Party Intellectual Property" means any intellectual property that is owned by parties other than Owner or Consultant and that is applicable to the Services or included in the Work Product.

c. "Work Product" means the Services Consultant delivers or is required to deliver to Owner under this Contract. Work Product includes every invention, discovery, work of authorship, trade secret or other tangible or intangible item and all intellectual property rights therein, and all copies of plans, specifications, reports and other materials, whether completed, partially completed or in draft form.

4.15.2. Work Product. Except as provided in Sections 4.15.3 and 4.15.4, all Work Product created by Consultant pursuant to this Contract, including derivative works and compilations, and whether or not such Work Product is considered a "work made for hire" or an employment to invent, shall be the exclusive property of Owner. Owner and Consultant agree that such original works of authorship are "work made for hire" of which Owner is the author within the meaning of the United States Copyright Act. To the extent that Owner is not the owner of the intellectual property rights in such Work Product, Consultant hereby irrevocably assigns to Owner any and all of its rights, title, and interest in all original Work Product created pursuant to this Contract, whether arising from copyright, patent, trademark, trade secret, or any other state or federal intellectual property law or doctrine. Upon Owner's reasonable request, Consultant shall execute such further documents and instruments necessary to fully vest such rights in Owner. Consultant forever waives any and all rights relating to original Work Product created pursuant to this Contract, including without limitation, any and all rights arising under 17 USC §106A or any other rights of identification of authorship or rights of approval, restriction or limitation on use or subsequent modifications.

4.15.3. <u>Consultant Intellectual Property</u>. In the event that Consultant Intellectual Property is necessary for the use of any Work Product, Consultant hereby grants to Owner an irrevocable, non-exclusive, non-transferable, perpetual, royalty-free license to use Consultant Intellectual Property, including the right of Owner to authorize contractors, consultants and others to use Consultant Intellectual Property, for the purposes described in this Contract.

4.15.4. <u>Third Party Intellectual Property</u>. In the event that Third Party Intellectual Property is necessary for the use of any Work Product, Consultant shall secure on Owner's behalf and in the name of Owner, an irrevocable, non-exclusive, non-transferable, perpetual, royalty-free license to use the Third Party Intellectual Property, including the right of Owner to authorize contractors, consultants and others to use the Third Party Intellectual Property, for the purposes described in this Contract.

4.15.5. <u>Consultant Intellectual Property-Derivative Work</u>. In the event that Work Product created by Consultant under this Contract is a derivative work based on Consultant Intellectual Property or is a compilation that includes Consultant Intellectual Property, Consultant hereby grants to Owner an irrevocable, non-exclusive, non-transferable, perpetual, royalty-free license to use the pre-existing elements of Consultant Intellectual Property employed in the Work Product, including the right of Owner to authorize contractors, consultants and others to use the pre-existing elements of Consultant Intellectual Property employed in a Work Product, for the purposes described in this Contract.

4.15.6. <u>Third Party Intellectual Property-Derivative</u> <u>Work</u>. In the event that Work Product created by Consultant under this Contract is a derivative work based on Third Party Intellectual Property, or is a compilation that includes Third Party Intellectual Property, Consultant shall secure on Owner's behalf and in the name of Owner an irrevocable, non-exclusive, non-transferable, perpetual, royalty-free license to use the pre-existing elements of the Third Party Intellectual Property employed in a Contract Work Product, including the right to authorize contractors, consultants and others to use the pre-existing elements of the Third Party Intellectual Property employed in a Contract Work Product, for the purposes described in this Contract.

4.15.7. <u>Limited Owner Indemnity</u>. To the extent permitted by the Oregon Constitution, Article XI, Section 7, and by the Oregon Tort Claims Act, ORS 30.260 through 30.397, Consultant shall be indemnified and held harmless by Owner from liability arising out of re-use or alteration of the Work Product by Owner which was not specifically contemplated and agreed to by the Parties in this Contract or under separate contract.

4.15.8. <u>Consultant Use of Work Product</u>. Consultant may refer to the Work Product in its brochures or other literature that Consultant utilizes for advertising purposes and, unless otherwise specified, Consultant may use standard line drawings, specifications and calculations on other, unrelated projects.

4.15.9. Confidential Information. Consultant acknowledges that it or its employees, Sub-consultants, subcontractors or agents may, in the course of performing their responsibilities under this Contract, be exposed to or acquire information that is the confidential information of Owner or Owner's clients. Any and all information provided by Owner and marked confidential, or identified as confidential in a separate writing, that becomes available to Consultant or its employees, Sub-consultants, subcontractors or agents in the performance of this Contract shall be deemed to be confidential information of Owner ("Confidential Information"). Any reports or other documents or items, including software, that result from Consultant's use of the Confidential Information and any Work Product that Owner designates as confidential are deemed Confidential Information. Confidential Information shall be deemed not to include information that: (a) is or becomes (other than by disclosure by Consultant) publicly known; (b) is furnished by Owner to others without restrictions similar to those imposed by this

Contract; (c) is rightfully in Consultant's possession without the obligation of nondisclosure prior to the time of its disclosure under this Contract; (d) is obtained from a source other than Owner without the obligation of confidentiality; (e) is disclosed with the written consent of Owner; or (f) is independently developed by employees or agents of Consultant who can be shown to have had no access to the Confidential Information.

4.15.10. Non-Disclosure. Consultant agrees to hold Confidential Information in strict confidence, using at least the same degree of care that Consultant uses in maintaining the confidentiality of its own confidential information, and not to copy, reproduce, sell, assign, license, market, transfer or otherwise dispose of, give, or disclose Confidential Information to third parties or use Confidential Information for any purposes whatsoever other than the provision of Services to Owner under this Contract, and to advise each of its employees, Subconsultants, subcontractors and agents of their obligations to keep Confidential Information confidential. Consultant shall use its best efforts to assist Owner in identifying and preventing any unauthorized use or disclosure of any Confidential Information. Without limiting the generality of the foregoing, Consultant shall advise Owner immediately in the event Consultant learns or has reason to believe that any person who has had access to Confidential Information has violated or intends to violate the terms of this Contract and Consultant will at its expense cooperate with Owner in seeking injunctive or other equitable relief in the name of Owner or Consultant against any such person. Consultant agrees that, except as directed by Owner, Consultant will not at any time during or after the term of this Contract disclose, directly or indirectly, any Confidential Information to any person, except in accordance with this Contract, and that upon termination of this Contract or at Owner's request, Consultant will turn over to Owner all documents, papers, and other matter in Consultant's possession that embody Confidential Information.

4.15.11. <u>Injunctive Relief</u>. Consultant acknowledges that breach of this **Section 4.15**, including disclosure of any Confidential Information, will give rise to irreparable injury to Owner that is inadequately compensable in damages. Accordingly, Owner may seek and obtain injunctive relief against the breach or threatened breach of this **Section 4.15**, in addition to any other legal remedies that may be available. Consultant acknowledges and agrees that the covenants contained herein are necessary for the protection of the legitimate business interests of Owner and are reasonable in scope and content.

4.15.12. <u>Publicity</u>. Consultant agrees that news releases and other publicity relating to the subject of this Contract will be made only with the prior written consent of Owner.

4.15.13. <u>Security</u>. Consultant shall comply with all virusprotection, access control, back-up, password, and other security and other information technology policies of Owner when using, having access to, or creating systems for any of Owner's computers, data, systems, personnel, or other information resources.

#### 4.16. Termination.

4.16.1. <u>Parties Right to Terminate by Agreement</u>. This Contract may be terminated at any time, in whole or in part, by written mutual consent of the Parties.

4.16.2. <u>Owner's Right to Terminate for Convenience</u>. Owner may, at its sole discretion, terminate this Contract, in whole or in part, by written notice to Consultant specifying the termination date of the Contract.

4.16.3. <u>Owner's Right to Terminate for Cause</u>. Owner may terminate this Contract immediately, in whole or in part, upon written notice to Consultant, or such later date as Owner may establish in such notice, upon the occurrence of any of the following events:

4.16.3.1. Owner lacks lawful funding, appropriations, limitations or other expenditure authority at levels sufficient to allow Owner, in the exercise of its reasonable discretion, to pay for Consultant's Services;

4.16.3.2. Federal, state or local laws, regulations or guidelines are modified or interpreted in such a way that either the Services under this Contract are prohibited or Owner is prohibited from paying for such Services from the planned funding source;

4.16.3.3. Consultant no longer holds all licenses or certificates that are required to perform the Services; or

4.16.3.4. Consultant fails to provide Services within the times specified or allowed under this Contract; fails to perform any of the provisions of this Contract; or so fails to perform the Services as to endanger performance of this Contract in accordance with its terms, and after receipt of written notice from Owner, does not correct such failures within the time that Owner specifies (which shall not be less than 10 calendar days, except in the case of emergency).

4.16.4. <u>Cessation of Services</u>. Upon receiving a notice of termination, and except as otherwise directed in writing by Owner, Consultant shall immediately cease all activities related to the Services or the Project.

4.16.5. Consultant's Right to Terminate for Cause.

4.16.5.1. Consultant may terminate this Contract if Owner fails to pay Consultant pursuant to this Contract, provided that Owner has failed to make such payment to Consultant within forty-five (45) calendar days after receiving written notice from Consultant of such failure.

4.16.5.2. Consultant may terminate this Contract, for reasons other than non-payment, if Owner commits any material breach or default of any covenant, warranty, obligation or agreement under this Contract, fails to perform under the Contract within the time specified, or so

fails to perform as to endanger Consultant's performance under this Contract, and such breach, default or failure is not cured within thirty (30) calendar days after delivery of Consultant's notice, or such longer period as Consultant may specify in such notice.

4.16.6. <u>Delivery of Work Product/Retained Remedies of</u> <u>Owner</u>. As directed by Owner, Consultant shall, upon termination, promptly deliver to Owner all documents, information, works in progress and other property that are deliverables or would be deliverables if the Contract had been completed. By Consultant's signature on this Contract, Consultant allows Owner to use Work Product and other property for Owner's intended use. The rights and remedies of Owner provided in this **Section 4.16** are not exclusive and are in addition to any other rights and remedies provided by law or under this Contract.

4.16.7. Payment upon Termination.

4.16.7.1. In the event of termination pursuant to Sections 4.16.1. 4.16.2. 4.16.3.1. 4.16.3.2 or 4.16.5. Consultant's sole remedy shall be a claim for the sum designated for accomplishing the Services multiplied by the percentage of Services completed and accepted by Owner plus Consultant's reasonable Contract close-out costs, less previous amounts paid and any claim(s) which Owner has against Consultant, except in the event of a termination under Section 4.16.3.1, where no payment will be due and payable for Services performed or costs incurred after the last day of the current biennium, consistent with Section **4.3**. Within thirty (30) days after termination, Consultant shall submit an itemized invoice for all un-reimbursed Services completed before termination and all Contract close-out costs actually incurred by Consultant. Owner shall not be obligated to pay for any such costs invoiced to and received by Owner later than thirty (30) days after termination. If previous amounts paid to Consultant exceed the amount due to Consultant under this subsection, Consultant shall promptly refund any excess amount upon demand.

4.16.7.2. In the event of termination pursuant to **Sections 4.16.3.3** or **4.16.3.4**, Owner shall have any remedy available to it in law or equity. Such remedies may be pursued separately, collectively or in any order whatsoever. If it is determined for any reason that Consultant was not in default under **Sections 4.16.3.3** or **4.16.3.4**, the rights and obligations of the Parties shall be the same as if the Contract was terminated pursuant to **Section 4.16.2**.

**4.17. Foreign Contractor.** If Consultant is not domiciled in or registered to do business in the State of Oregon as of the Effective Date, Consultant shall promptly provide to the Oregon Department of Revenue and the Secretary of State's Corporation Division all information required by those agencies relative to this Contract. Consultant shall demonstrate its legal capacity to perform the Services under this Contract in the State of Oregon prior to executing this Contract.

**4.18.** Notice. Except as otherwise expressly provided in this Contract, any notices to be given hereunder shall be given in writing by personal delivery, facsimile, or mail, postage prepaid, to Consultant or Owner at the address or number set forth on Exhibit A, or to such other address or number as either party may provide pursuant to this "Notice" section. Any notice delivered by mail shall be deemed to be given five (5) calendar days after the date of mailing. Any notice delivered by facsimile shall be deemed to be given when the transmitting machine generates a receipt of the transmission. To be effective against Owner, any facsimile communication or notice must be confirmed by telephone notice to Owner's Representative for the Project as indicated in Exhibit A and shall not be deemed to be given until such confirmation is completed. Any notice by personal delivery shall be deemed to be given when actually delivered. Regular, day-to-day communications between the Parties may be transmitted through one of the methods set forth above, in person, by telephone, by e-mail, or by other similar electronic transmission.

**4.19.** Media Contacts; Confidentiality. Consultant shall provide no news release, press release, or any other statement to a member of the news media regarding this

Project, without Owner's prior written authorization.

**4.20. Conflict of Interest.** Except with Owner's prior written consent, Consultant shall not engage in any activity, or accept any employment, interest or contribution that would, or would reasonably appear to, compromise Consultant's professional judgment with respect to this Project, including, without limitation, concurrent employment on any project in direct competition with the Project.

Exhibits A through G are attached.

#### STATE OF OREGON STANDARD PROFESSIONAL SERVICES CONTRACT EXHIBIT A STATEMENT OF WORK

[ATTENTION USERS: This Exhibit A is drafted for a new building construction project, with complete phases for most aspects of such a project; this Statement of Work should be reviewed carefully and revised as necessary to fit the particular project and Services addressed in this Contract; certain terms and conditions may need to be removed or revised, or additional terms and conditions added to accurately describe the Services to be performed by Consultant.]

Owner and Consultant agree that the following Services shall be provided by Consultant for the design and construction administration of the Project. The completed Project is intended to be a functional structure and improved site that can be legally occupied and fully used for the intended functions as constructed. For purposes of this Contract, "Basic Services" are those Services described in Phases 1 through 6 of this **Exhibit A**, "Supplemental Services" are those Services described in Section B.2 of **Exhibit B**-Consultant Compensation, and further defined in Section B.1.03 of **Exhibit B**.

**PROJECT DESCRIPTION:** (*NOTE: Insert a general, more detailed description of the Project*)

**PROJECT PHILOSOPHY:** Consultant shall perform professional services for the design of the Project to obtain the greatest long-term value for the State of Oregon, and to result in the prudent expenditure of public funds within the constraints of the Project program, context, and budget. In pursuing these goals, Consultant, with Owner's assistance, shall:

- a. Perform Services which are appropriate for the context of the Project and the nature of its function, both present and future.
- b. Avoid expenditures for aesthetic effect which are disproportionate when compared to the additional benefit to the Project as a whole.
- c. Help assure the Project is completed on time and within budget.
- d. Strive to reduce the construction cost of the Project while keeping life-cycle costs low.
- e. Apprise Owner throughout the Project concerning the economic impact of all design decisions.
- f. Document all Project requirements and verify, to Owner's satisfaction, that requirements are included in the Construction Documents.
- g. Reduce the number of toxic chemicals used on the Project in specified products, like those indicated on the Oregon DEQ Toxics Focus List, in compliance with the Oregon Department of Administrative Services ("DAS") Green Chemistry Procurement Guidelines" policy number 107-009-0080-PO.
- h. Comply with the DAS"Sustainability Facility Standards and Guidelines" policy number 125-6-010.
- i. Prepare a comprehensive State Energy Efficiency Design ("SEED") analysis of the Project, provide all documentation required for a SEED Award to Owner for the Project and provide all other Services for the Project that are required under the SEED Program of the State of Oregon Department of Energy, consistent with the requirements of ORS 276.900 through 276.915 and OAR 330-130-0010 through 330-130-0080, that are applicable to the particular phases of Services. When completed, the Project shall exceed the State Building Code requirements for energy efficiency by 20% or more, and shall be a "model of energy efficiency" as that term is described in the above-referenced administrative rules.
- j. As directed by Owner, provide all documentation necessary to incorporate appropriate green energy technology in the Project that meets the requirements of ORS 279C.527 and 279C.528 and the State of Oregon Department of Energy.

Representatives of the Parties for this Contract and the Project are:

Consultant:	Telephone:	
Owner:	Telephone:	

The Services that Consultant shall perform for each phase of the Project are described below:

#### A.1 PHASE 1 - BASIC SERVICES - PROGRAMMING SERVICES

During the programming phase, Consultant shall provide those Basic Services necessary to refine programming, site-related limitations and general requirements for the Project. Some of the described Services will be provided during this activity phase and some during other phases of Project design. Consultant's Services during Phase 1 shall consist of the following:

- A.1.01 PROGRAMMING Services. Consultant shall confirm and refine the program information already developed for the Project, detailing the space needs, dimensions, interrelationships and special requirements such as telecommunications systems, access control, standby power and security for each area of the new facility. Consultant shall gather information from Owner and Project stakeholders to identify requirements, problems, issues, expectations and concerns, as well as Project goals. The programming information developed by Consultant shall include, but is not limited to, a list of spaces, their sizes, activities, hours of use, finishes, equipment, furniture and systems, and a brief narrative describing the relationship between spaces. Consultant shall prepare a refined program report, in an 8 1/2" X 11" format and with any drawings attached and in an 11" X 17" format, for presentation to and approval by Owner.
- A.1.02 SITE DEVELOPMENT PLANNING Services. Consultant shall provide preliminary site development planning Services including, but not limited to, providing an executive summary, a building analysis, and a comparative evaluation of conceptual site development designs, based on: land utilization; structures placement; facilities development; movement systems, circulation and parking; utilities and Project description; preliminary systems descriptions; code review; master plan provisions; Owner requirements; subsurface conditions; ecological requirements; and landscape concepts.
- A.1.03 NEEDS ANALYSIS Services. Consultant shall gather information from Owner and Project stakeholders to identify requirements, problems, issues, expectations, concerns, as well as Project goals. The programming information shall include but is not limited to a list of spaces, their sizes, activities, hours of use, finishes, equipment, furniture and systems, and a brief narrative describing the relationship between spaces.
- A.1.04 ARCHITECTURAL SPACE PLANNING Services. Consultant shall analyze space utilization needs and assessments in accordance with DAS "Space Standards" requirements. (These can be reviewed at: <a href="http://www.das.state.or.us/DAS/FAC/index.shtml">http://www.das.state.or.us/DAS/FAC/index.shtml</a> under 'Policies' or will be provided by Owner to Consultant upon request.) Consultant shall provide diagrams showing functional relationships of the various program areas of the Project. Consultant shall provide an efficiency analysis of the programmed space needs. Consultant shall work with Owner and comply with current DAS Policy.
- A.1.05 ON-SITE UTILITY STUDIES Services. Consultant shall establish requirements and prepare initial designs for on-site utilities required for the Project.
- A.1.06 OFF-SITE UTILITY STUDIES Services. Consultant shall determine the requirements for Project connections to required utilities.
- A.1.07 STATEMENT OF PROBABLE CONSTRUCTION COST Services. Consultant shall develop a probable construction cost range, +/- 20%, for the Project (the "Programming Design Phase Statement of Probable Construction Cost") based on the most recent programming information. Consultant shall arrange the costs of constituent elements in the "Construction Specification Institute" ("CSI") format and shall include the costs of systems, assemblies, and functional areas.
- A.1.08 GREEN ENERGY REQUIREMENT Services. Consultant shall establish criteria and design elements to incorporate appropriate green energy technology in the Project that meets the requirements of ORS 279C.527 and 279C.528 and the rules of the State of Oregon Department of Energy (1.5% for green energy technology in public building construction contracts).

#### A.2 PHASE 2 - BASIC SERVICES - SCHEMATIC DESIGN SERVICES

In the schematic design phase, from the Owner-approved programming information, Consultant shall provide those Basic Services necessary to prepare schematic design documents consisting of drawings and other documents illustrating the general scope, scale and relationship of Project components (the "Schematic Design Documents") for acceptance by Owner. Designs will be conceptual in character and based on program requirements provided by Owner. Consultant's Services during Phase 2 shall consist of the following:

- A.2.01 ARCHITECTURAL DESIGN/DOCUMENTATION Services. Consultant shall respond to program requirements and prepare: conceptual building plans; preliminary sections and elevations; and development of approximate dimensions, areas and volumes. These Services shall also include the following:
  - a. Single-line drawings showing complete building layout, identifying the various major areas, core areas and their relationships.
  - b. Identification of all proposed finishes (includes all exterior surfaces, doors and windows).
- A.2.02 STRUCTURAL DESIGN/DOCUMENTATION Services. Consultant shall recommend basic structural materials and systems, analyses, and develop conceptual design solutions for a primary structural system and alternate structural systems. These Services shall also include the following:
  - a. Structural systems layout with overall dimensions and floor elevations. Identification of structural system (pre-cast, structural steel with composite deck, structural steel with bar joists, etc.).
  - b. Identification of foundation requirements (fill requirements, piles, caissons, spread footings, etc.).
- A.2.03 MECHANICAL DESIGN/DOCUMENTATION Services. Consultant shall consider alternate materials, systems and equipment and develop conceptual design solutions for: energy sources; energy conservation; heating and ventilating; air conditioning; plumbing; fire protection; and general space requirements necessary to allow for installation and utilization. These Services shall also include the following:
  - a. Block heating, ventilating and cooling load calculations including envelope and internal loads.
  - b. Minimum of two HVAC systems that appear compatible with loading conditions for subsequent life-cycle costing.
  - c. Single-line drawings of all mechanical equipment spaces, duct chases and pipe chases.
  - d. Location of all major equipment in allocated spaces.
- A.2.04 ELECTRICAL DESIGN/DOCUMENTATION Services. Consultant shall respond to program requirements, recommend basic electrical materials and systems, analyses, and develop conceptual design solutions for: lighting; electrical; security and telecommunications systems. These Services shall also include the following:
  - a. An illumination plan showing estimated quantity of light from all sources and for all areas. Incorporation of daylight strategies to minimize artificial lighting. Recommendations for types and quantities of fixtures to be used.
  - b. Major electrical equipment roughly scheduled indicating size and capacity.
  - c. Complete preliminary one-line electrical distribution diagrams with indications of final location of service entry, switchboards, motor control centers, panels, transformers and onsite power generator.
  - d. Legend showing all symbols used on drawings.
- A.2.05 CIVIL DESIGN/DOCUMENTATION Services. Consultant shall consider alternate materials and systems and develop conceptual design solutions for on-site utility systems and fire protection systems.
- A.2.06 MATERIALS RESEARCH/SPECIFICATIONS Services. Consultant shall: identify potential architectural materials, systems and equipment, including their criteria and quality standards, which are consistent with the conceptual design; investigate availability and suitability of alternative architectural materials, systems and equipment; and coordinate similar activities of other disciplines. Consultant shall include research for less toxic materials that provide safer alternatives for people and the building environment.
- A.2.07 INTERIOR DESIGN Services. From the approved "Needs Analysis," Consultant shall provide interior space planning based on functional relationships, DAS policy, code requirements, finishes, colors, systems, furniture and equipment. Consultant shall integrate interior space planning with conceptual design solutions for architectural, structural, mechanical, electrical and equipment requirements in order to establish an integrated design approach for a fully functional and coordinated building environment. Consultant shall obtain design input from Owner. The space plan shall include the number and location of all workstations and office layouts, loose furniture, special equipment, high density filing systems, and other rooms. Consultant shall perform these Services within the constraints of the proposed furniture system, taking into account panel dimensions and standards to provide basic workstation layouts that provide block dimensions.
- A.2.08 PROJECT DEVELOPMENT SCHEDULING Services. Consultant shall update the Critical Date Schedule as previously established.
- A.2.09 STATEMENT OF PROBABLE CONSTRUCTION COST Services. Consultant shall develop a probable construction cost range, +/- 20%, for the Project (the "Schematic Design Phase Statement of Probable Construction Cost") based on the most recent schematic design studies, current area, volume, or other unit costs, and expected Project contingencies and consistent with the construction cost budget.
- A.2.10 COMMISSIONING PROCESS INTEGRATION Services. Consultant shall coordinate those activities directly related to the commissioning of the building at the Project. These Services include working with the commissioning agent (the "CA") in the development of a clearly defined design intent for the Project building and its systems.

Consultant shall review and respond to all CA input provided throughout the Project. Consultant shall collaborate with the CA and provide specifications that list and describe the duties of the contractor that will perform the work on the Project (the "Contractor") in the commissioning processes.

- A.2.11 ENERGY EFFICIENCY DESIGN Services. Consultant shall provide: the Services performed during phases A.1 through A.6 which are related to the preparation of a comprehensive SEED analysis of the Project; all documentation required for a SEED "award" to Owner for the Project; and all other Services for the Project that are required under the SEED program. These Services shall be provided consistent with the requirements of ORS 276.900 through 276.915 and OAR 330-130-0010 through 330-130-0080 that are applicable to this phase of Services. When completed, the Project must exceed the State Building Code requirements for energy efficiency by 20% or more, and shall be a "model of energy efficiency" as that term is described in the above-referenced administrative rules.
- A.2.12 FINE ARTS AND CRAFTS Services. Consultant shall comply with the 1% for Art Program, pursuant to ORS 276.073-276.090 as it is related to acquisition of fine arts or crafts to be part of the Project and shall consult on the selection, commissioning and implementation of those fine arts or crafts.
   NOTE: Fine Arts and Crafts Services do not apply to projects when construction cost is less than \$100K or if certain other circumstances are present.
- A.2.13 GREEN ENERGY REQUIREMENT Services. Consultant shall refine the green energy technology criteria and design elements consistent with the requirements of ORS 279C.527 and 279C.528 and the rules of the State of Oregon Department of Energy (1.5% for green energy technology in public building construction contracts).

#### A.3 PHASE 3 - BASIC SERVICES - DESIGN DEVELOPMENT SERVICES

In the design development phase Consultant shall provide those Basic Services necessary to prepare, from the Ownerapproved Schematic Design Documents, the design development documents consisting of drawings and other documents to fix and describe the size and character of the entire Project, including architectural, structural, mechanical, electrical, and other systems, materials and such other elements as may be appropriate (the "Design Development Documents"). Consideration shall be given to availability of materials, equipment and labor, construction sequencing and scheduling, economic analysis of construction and operations, Owner's safety and maintenance requirements, sustainability and energy conservation. Outline specifications shall be prepared in accordance with the Construction Specification Institute standards and shall include, but not be limited to, general and product information. Consultant's Services during Phase 3 shall consist of the following:

- A.3.01 ARCHITECTURAL DESIGN/DOCUMENTATION Services. On an ongoing basis, Consultant shall develop and expand architectural Schematic Design Documents to establish the scope, relationship, forms, size and appearance of the Project through: plans, sections and elevations; typical construction details; and equipment layouts. These Services shall also include the following:
  - a. Floor plans with final room locations including all openings.
  - b. Building sections showing coordination and relationship between components.
  - c. Wall sections showing final dimensional relationships, materials and component relationships.
  - d. Identification of all fixed and loose equipment to be installed.
  - e. Finish schedule identifying all finishes.
  - f. Door and hardware schedule showing final quantity plus type and quality levels.
  - g. Site plan, including grading and drainage.
  - h. Preliminary development of details and large scale blow-ups.
  - i. Legend showing all symbols used on the drawings.
  - j. Outline specifications, in accordance with the CSI standards.
  - k. Reflected ceiling development including ceiling grid and all devices that penetrate ceiling (i.e., light fixtures, sensors, sprinkler heads, ceiling register or diffusers, etc.).
- A.3.02 STRUCTURAL DESIGN/DOCUMENTATION Services. On an ongoing basis, Consultant shall develop the specific structural system(s) and Schematic Design Documents in sufficient detail to establish: basic structural system and dimensions; final structural design criteria; foundation design criteria; preliminary sizing of additional major structural components; critical coordination clearances; and outline specifications or materials lists. These Services shall also include the following:
  - a. Plan drawings with all structural members located and sized.
  - b. Footing, beam, column and connection schedules.
  - c. Final building elevations.
  - d. Outline specifications.
  - e. Foundation drawings.

- A.3.03 MECHANICAL DESIGN/DOCUMENTATION Services. On an ongoing basis, Consultant shall develop and expand mechanical Schematic Design Documents and develop outline specifications or materials lists to establish: approximate equipment sizes and capabilities; preliminary equipment layouts; required space for equipment; required chases and clearances; acoustical and vibration control; visual impacts; and energy conservation measures. These Services also include the following:
  - a. Heating and cooling load calculations for each space and major duct or pipe runs sized to interface with structural elements.
  - b. Major mechanical equipment scheduled indicating size and capacity.
  - c. Duct work and piping systems substantially located and sized.
  - d. Devices in ceiling located.
  - e. Legend showing all symbols used on the drawings.
  - f. Outline specifications.
- A.3.04 ELECTRICAL DESIGN/DOCUMENTATION Services. On an ongoing basis, Consultant shall develop and expand electrical Schematic Design Documents and develop outline specifications or materials lists to establish: criteria for lighting, electrical, security and telecommunications systems; approximate sizes and capacities of major components; preliminary equipment layouts; required space for equipment; and required chases and clearances. These Services also include the following:
  - a. All power consuming equipment and load characteristics.
  - b. Total electrical load.
  - c. Major electrical equipment (switchgear, distribution panels, emergency generator, transfer switches, UPS system, etc.) dimensioned and drawn to scale into the space allocated.
  - d. Complete preliminary site lighting design.
  - e. Outline specifications.
  - f. Lighting, power, telecommunications and office automation devices and receptacles shown on the plan.
  - g. Final light fixture schedule.
  - h. Interior electrical loads estimate for systems furniture, receptacles, lighting, food service equipment, and any other special use areas.
- A.3.05 CIVIL DESIGN/DOCUMENTATION Services. On an ongoing basis, Consultant shall develop and expand civil Schematic Design Documents and develop outline specifications or materials lists to establish the final scope and preliminary details for on-site engineering services.
- A.3.06 LANDSCAPE DESIGN/DOCUMENTATION Services. On an ongoing basis, Consultant shall develop and expand landscape Schematic Design Documents and develop outline specifications or materials lists to establish final scope and preliminary details for landscape work.
- A.3.07 MATERIALS RESEARCH/SPECIFICATIONS Services. Consultant shall: prepare for Owner's approval the proposed Special Conditions of the construction contract (the "Construction Contract"); develop architectural outline specifications or itemized lists and brief form identification of significant architectural materials, systems and equipment and their criteria and quality standards; coordinate similar activities of other disciplines; produce a design manual, including design criteria and outline specifications or materials lists. Where applicable, Consultant shall include: less toxic materials specifications or materials lists reviewed by third-party certification programs; safer products which are already commercially available to the extent that is practical; safer options that also limit premium costs and overall lifecycle costs.
- A.3.08 INTERIOR DESIGN/DOCUMENTATION Services. Consultant shall further develop and coordinate the approved schematic interior space plan based on functional relationships, DAS policy, code requirements, finishes, colors, systems and equipment. Consultant shall develop conceptual design solutions that are coordinated with architectural, structural, mechanical, electrical and equipment requirements and dimensions in order to establish an integrated design approach for a fully functional building. Consultant's coordination Services shall include verification of the building layout with the selected furniture system. Consultant shall provide workstation layout including low voltage ports, service voltage, special equipment, and panel feeds.
- A.3.09 PROJECT DEVELOPMENT SCHEDULING Services. Consultant shall review and update previously established schedules for the Project.
- A.3.10 STATEMENT OF PROBABLE CONSTRUCTION COST Services. Consultant shall update and refine the Schematic Design Phase Statement of Probable Construction Cost of the Project as it is related to the construction cost budget and taking into consideration: availability of materials and labor; Project delivery procedures; construction sequencing and scheduling; changes in scope of the Project; and adjustments in quality standards. Completion of these Services shall result in the "Design Development Phase Statement of Probable Construction Cost."

- A.3.11 VALUE ENGINEERING Services. Consultant shall lead a review team during the design development phase of the Project. Consultant shall provide an intensive analysis of the entire Project.
- A.3.12 COMMISSIONING PROCESS INTEGRATION Services. Consultant shall provide Services to coordinate those activities directly related to the commissioning of the building at the Project. These Services include working with the CA to develop a clearly defined design intent for the Project building and its systems. Consultant shall review and respond to all CA input provided throughout the Project. Consultant shall collaborate with the CA and provide specifications that list and describe the Contractor's duties in the commissioning processes.
- A.3.13 ENERGY EFFICIENCY DESIGN SERVICES. Consultant shall provide: the Services performed during phases A.1 through A.6 which are related to the preparation of a comprehensive SEED analysis of the Project; all documentation required for a SEED "award" to Owner for the Project; and all other Services for the Project that are required under the SEED program. These Services shall be provided consistent with the requirements of ORS 276.900 through 276.915 and OAR 330-130-0010 through 330-130-0080 that are applicable to this phase of Services. When completed, the Project must exceed the State Building Code requirements for energy efficiency by 20% or more, and shall be a "model of energy efficiency" as that term is described in the above-referenced administrative rules.
- A.3.14 FINE ARTS AND CRAFTS SERVICES. Consultant shall comply with the 1% for Art Program, pursuant to ORS 276.073-276.090) as it is related to acquisition of fine arts or crafts to be part of the Project and shall consult on the selection, commissioning and implementation of those fine arts or crafts.
   NOTE: Fine Arts and Crafts Services do not apply to projects when construction cost is less than \$100K or if certain other circumstances are present.
- A.3.15 GREEN ENERGY REQUIREMENT Services. Consultant shall document the green energy technology design elements used to meet the requirements of ORS 279C.527 and 279C.528 and the rules of the State of Oregon Department of Energy (1.5% for green energy technology in public building construction contracts).

#### A.4 PHASE 4 - BASIC SERVICES - CONSTRUCTION DOCUMENTS SERVICES

In the Construction Documents phase Consultant shall provide those Basic Services necessary to prepare, from the approved Design Development Documents, construction documents consisting of drawings, specifications and other documents setting forth in detail the requirements for construction of the Project, as well as the documents pertaining to bidding and contracting for the construction of the Project (the "Construction Documents"). Consultant's Services during Phase 4 shall consist of the following:

- A.4.01 Upon written authorization from Owner to proceed, Consultant shall prepare, from the approved Design Development Documents, working drawings and specifications setting forth in detail the requirements for the construction of the entire Project. Additional requirements of the documents are:
  - a. Owner shall provide the General and Supplemental General Conditions of the Construction Contract, which Consultant shall incorporate into the Construction Documents.
  - b. Complete specifications shall be prepared using the Construction Specifications Institute's 3-part and 16division format.
  - c. Consultant shall provide Owner with in-progress Construction Documents as needed during development of this phase.
  - d. After review and approval of the 100% complete draft Construction Documents by Owner, Consultant shall continue with preparation of the final documents, including final specifications for all authorized work on the Project, and shall incorporate in those final documents the comments and any modifications or changes desired by Owner, any modifications required for compliance with all applicable codes, regulations or standards, and the approved program or prior written approvals and instructions of Owner. The resulting final Construction Document submittal shall be a complete, fully coordinated, integrated package, suitable for bidding distribution, without any significant addenda or further clarifications required.
- A.4.02 ARCHITECTURAL DESIGN/DOCUMENTATION Services. Consultant shall prepare drawings based on approved Design Development Documents setting forth in detail the architectural construction requirements for the Project.
- A.4.03 STRUCTURAL DESIGN/DOCUMENTATION Services. Consultant shall prepare final structural engineering calculations; drawings, and specifications based on approved Design Development Documents, setting forth in detail the structural construction requirements for the Project.
- A.4.04 MECHANICAL DESIGN/DOCUMENTATION Services. Consultant shall prepare final mechanical engineering calculations, drawings, and specifications based on approved Design Development Documents, setting forth in detail the mechanical construction requirements for the Project.

- A.4.05 ELECTRICAL DESIGN/DOCUMENTATION Services. Consultant shall prepare final electrical engineering calculations, drawings, and specification based on approved Design Development Documents, setting forth in detail the electrical construction requirements for the Project.
- A.4.06 CIVIL DESIGN/DOCUMENTATION Services. Consultant shall prepare final civil engineering calculations, drawings, and specifications based on approved Design Development Documents, setting forth in detail the civil construction requirements.
- A.4.07 LANDSCAPE DESIGN/DOCUMENTATION Services. Consultant shall prepare drawings and specifications based on approved Design Development Documents, setting forth in detail the landscape requirements for the Project.
- A.4.08 MATERIALS RESEARCH/SPECIFICATIONS Services. Consultant's in-house architectural personnel shall: assist Owner in development and preparation of: bidding documents which describe the time, place, and conditions of bidding; bidding forms; and architectural specifications describing materials, systems ,and equipment; workmanship; quality and performance criteria required for the construction of the Project (the "Bidding Documents"). These personnel shall also coordinate the development of specifications by other disciplines and compile the Project Manual, including conditions of the contract, Bidding Documents and specifications.
- A.4.09 PROJECT DEVELOPMENT SCHEDULING Services. Consultant shall review and update previously established schedules for the Project.
- A.4.10 STATEMENT OF PROBABLE CONSTRUCTION COST Services. Consultant shall update and refine the Design Development Phase Statement of Probable Construction Cost of the Project related to the construction cost budget and shall take into consideration: availability of materials and labor; Project delivery; procedures; construction sequencing, and scheduling; changes in scope of the Project; and adjustments in quality standards. Completion of these Services shall result in the "Construction Documents Phase Statement of Probable Construction Cost."
- A.4.11 ALL SPECIFIED ITEMS SHALL BE STANDARD, cataloged, manufactured items or "off the shelf" items. No custom items shall be designed or specified without prior written authorization of Owner. No proprietary or "sole source" items shall be specified. Brand name products may be specified so long as "approved equal" is included with their specification, if there is no other practical method of specification.
- A.4.12 RECYCLED PRODUCTS SHALL BE USED where they are economically feasible. Consultant shall give preference to materials and supplies manufactured from recycled materials under the following conditions:
  - a. The recycled product is available;
  - b. The recycled product meets applicable standards;
  - c. The recycled product can be substituted for a comparable non-recycled product; and
  - d. Recycled product costs do not exceed the costs of non-recycled products by more than five percent.
- A.4.13 INTERIOR DESIGN/DOCUMENTATION Services. Consultant shall further develop and coordinate the space plan based on approval by Owner of the Design Development Documents. Consultant shall consult and coordinate with Owner to develop the detailed drawings with all information required for bidding. These Services shall include detailed requirements for the selected system furniture power and low voltage feeds.
- A.4.14 PLAN REVIEW INITIATION & COORDINATION Services. Consultant shall prepare all necessary project documents, with appropriate formatting and registration stamps, for submission to the mandatory authority having jurisdiction (the "AHJ") over the Project to obtain the building permit. Consultant shall apply and fill out all necessary documentation for a complete "plan check" submission prior to AHJ code review. In addition, Consultant shall meet with the AHJ as requested and answer project related questions and review applicable code compliance issues. Consultant shall be responsible for paying the "plan check" fees and will be reimbursed without markup as a Reimbursable Expense per Section B.2 of this Contract. The Construction Contractor will pay the building permit fee and all trades permits per the State of Oregon General Conditions for Public Improvement Contracts.
- A.4.15 COMMISSIONING PROCESS INTEGRATION Services. Consultant shall coordinate those activities directly related to the commissioning of the building at the Project. These Services shall include working with the CA in the development of a clearly defined design intent for the building and its systems. Consultant shall review and respond to all CA input provided throughout the Project. Consultant shall collaborate with and provide specifications that list and describe the Contractor's duties in the commissioning processes.
- A.4.16 ENERGY EFFICIENCY DESIGN SERVICES. Consultant shall provide: the Services performed during phases A.1 through A.6 which are related to the preparation of a comprehensive SEED analysis of the Project; all documentation required for a SEED "award" to Owner for the Project; and all other Services for the Project that are

required under the SEED program. These Services shall be provided consistent with the requirements of ORS 276.900 through 276.915 and OAR 330-130-0010 through 330-130-0080 that are applicable to this Phase of Services. When completed, the Project must exceed the State Building Code requirements for energy efficiency by 20% or more, and shall be a "model of energy efficiency" as that term is described in the above-referenced administrative rules.

- A.4.17 FINE ARTS AND CRAFTS SERVICES. Consultant shall comply with the 1% for Art Program, pursuant to ORS 276.073-276.090) as it is related to acquisition of fine arts or crafts to be part of the Project and shall consult on the selection, commissioning and implementation of those fine arts or crafts.
   NOTE: Fine Arts and Crafts Services do not apply to projects when construction cost is less than \$100K or if certain other circumstances are present.
- A.4.18 GREEN ENERGY REQUIREMENT Services. Consultant shall document with particularity the green energy technology costs and design elements used to meet the requirements of ORS 279C.527 and 279C.528 and the rules of the State of Oregon Department of Energy (1.5% for green energy technology in public building construction contracts).

#### A.5 PHASE 5 - BASIC SERVICES - BIDDING SERVICES

In the bidding phase Consultant, following Owner's approval of the Construction Documents Phase Statement of Probable Construction Cost, shall provide those Basic Services necessary for Consultant to assist Owner in obtaining bids and in awarding contracts for the work required for the full construction of the Project (the "Work"). In the case of phased construction, Owner may authorize bidding of portions of the Work prior to completion of the Construction Documents phase. Consultant's Services during Phase 5 shall consist of the following:

- A.5.01 BIDDING MATERIALS Services. Consultant shall organize and manage Bidding Documents for: coordination; reproduction; completeness review; distribution; distribution records; retrieval; receipt and return of document deposits; review, repair and re-assembly of returned materials.
- A.5.02 ADDENDA Services. Consultant shall prepare, for distribution by Owner, all addenda, including supplemental drawings, specifications, instructions and notices of changes in the bidding schedule and procedure.
- A.5.03 BIDDING Services. Consultant shall assist Owner in: establishing a list of bidders; participating in pre-bid conferences; responding to questions from bidders and clarifications or interpretations of the Bidding Documents; and documenting and distributing bidding results.
- A.5.04 ANALYSIS OF ALTERNATES/SUBSTITUTIONS Services. Consultant shall consider, analyze, compare, and approve or reject alternatives or substitutions proposed by bidders prior to and after receipt of bids or proposals.
- A.5.05 SPECIAL BIDDING Services. Consultant shall document: decisions regarding multiple Construction Contracts or phased construction; technical evaluation of alternate building systems; and participation in detailed evaluation procedures for building systems proposals.

#### A.6 PHASE 6 - BASIC SERVICES - CONSTRUCTION CONTRACT ADMINISTRATION SERVICES

In the construction administration phase Consultant shall provide those Basic Services necessary for the administration of the Construction Contract as set forth in the General Conditions and Supplemental General Conditions of the Construction Contract. Consultant shall receive and transmit information as a representative of Owner during the construction of the Project and shall advise and consult with Owner. Instructions to Contractor shall be forwarded through Consultant. Consultant shall have authority to act on behalf of Owner only to the extent provided in the Construction Contract. The construction phase for each portion of the Project will commence with the award of the Construction Contract to the Contractor, and will terminate when the Construction Contract warranty period expires. Consultant's Services during Phase 6 shall consist of the following:

- A.6.01 OFFICE CONSTRUCTION ADMINISTRATION Services. Consultant shall process submittals, including receipt, review of, and appropriate action on shop drawings, product data, samples and other submittals required by the Construction Contract and all documents specifically incorporated by reference into the Construction Contract (the "Contract Documents"). Consultant shall distribute submittals as required and shall maintain a master file of submittals and related communications.
- A.6.02 INSPECTION COORDINATION Services. With respect to independent inspection and testing agencies, Consultant shall: administer and coordinate field testing and inspections by independent agencies as required by the

Contract Documents; recommend the scope, standards, procedures, and frequency of testing and inspections; arrange for testing and inspection on Owner's behalf; notify inspecting and testing agencies of status of the Work requiring testing and inspection; evaluate compliance by testing and inspection agencies with required scope, standards, procedures, and frequency of testing and inspections; review reports on inspections and tests and notify Owner and Contractor of observed deficiencies in the Work. Consultant shall oversee, and coordinate with Owner and Contractor, the review of any system furniture installation by the Contractor to verify that dimension requirements are met.

- A.6.03 SUPPLEMENTAL DOCUMENTS Services. Consultant shall: prepare, reproduce and distribute supplemental drawings, specifications, and interpretations in response to requests for clarification by the Contractor or Owner and as required by construction exigencies; and forward Owner's instructions and provide guidance to the Contractor on Owner's behalf relative to changed requirements and schedule revisions.
- A.6.04 QUOTATION REQUESTS/CHANGE ORDERS Services. Consultant shall: prepare, reproduce and distribute drawings and specifications to describe Work to be added, deleted, or modified; review proposals from Contractor for reasonableness of quantities and costs of labor and materials; review and make recommendations regarding changes in time for substantial completion; review and make detailed recommendations, including, if requested, a specific alternative cost breakdown, regarding impact on space planning design; negotiate with Contractor on Owner's behalf regarding costs of Work proposed to be added, deleted, or modified; assist in the preparation of appropriate modifications of the Construction Contract; coordinate communications, approvals, notifications, and record keeping regarding changes in the Work.
- A.6.05 PAYMENT REVIEW Services. Consultant shall: evaluate and certify applications for payment, including review and determination of whether each charge is accurate and constitutes payment for fully authorized and completed Work, and maintain complete records regarding performance of this Service.
- A.6.06 PROJECT CLOSEOUT Services. Upon notice from the Contractor that the Work, or a designated portion thereof which is acceptable to Owner, is sufficiently complete, in accordance with the Contract Documents, to permit occupancy or utilization for the use for which it is intended, Consultant shall:
  - a. Perform a detailed inspection, with Owner's representative, of the Work for conformity to the Contract Documents to verify the list submitted by the Contractor of items to be completed or corrected; and determine the amounts to be withheld until final completion.
  - b. Issue certificates of substantial completion and perform inspection(s) upon notice by Contractor that the Work is ready for final inspection and acceptance.
  - c. Notify Owner and Contractor of deficiencies found in follow-up inspection(s), if any;
  - d. Perform a final inspection with Owner's representative to verify final completion of the Work, and receipt and transmittal of warranties, affidavits, receipts, and releases and waivers of lien or bonds indemnifying Owner against liens;
  - e. Issue final certificate(s) for payment; and
  - f. Issue a summary of expenses in accordance with OAR 125-248-0120. In accordance with this requirement Consultant shall maintain and provide Owner with records regarding direct expenses including both general and specific travel expenses, whether reimbursable or not. This summary shall include all expenses incurred by Consultant and any Sub-consultants as a direct result of the performance of Services. The breakdown of these expenses shall be as follows:
    - i. All of Consultant's direct travel expenses, whether reimbursed or included in a Supplemental Service and therefore not separately reimbursed;
    - ii. All of Sub-consultants' direct travel expenses, whether reimbursed or included in a Supplemental Service and therefore not separately reimbursed;
    - iii. All of Consultant's direct general expenses, other than travel expenses, whether reimbursed or included in a Supplemental Service and therefore not separately reimbursed; and
    - iv. All of Sub-consultants' direct general expenses, other than travel expenses, whether reimbursed or included in a Supplemental Service and therefore not separately reimbursed.
- A.6.07 RECORD DOCUMENT Services. Consultant shall provide Owner with accurate record drawings and record specifications manuals for the Project as more particularly described in this Section. Consultant shall deliver to Owner, within _____ days from receipt of the Contractor's working record documents, the following record documents (the "Record Documents"):
  - a. <u>Hardcopy Set</u> The Record Documents shall consist of two (2) complete sets of record drawings, prepared on reproducible vellum or 24 lb. (minimum) bond media (the "Record Drawings"). The Record Drawings shall include all drawing sheets used for bidding including; addenda, all changes resulting from regulatory reviews, change orders and as-built conditions. Consultant is not responsible for the accuracy of the working as-built drawings furnished by Contractor.
- b. <u>Electronic Set</u> A complete set of Record Drawings (as described above in Section A.6.07(a) above) and generated in AutoCAD (version as directed by Owner) shall be provided to Owner by Consultant, as well as an electronic version of the complete specifications in a file format approved by Owner. Consultant shall verify that all electronic drawings are readable and that all AutoCAD xreference ("Xrefs") files are bound and formatted in such a way as to be readable by the AutoCAD version they are saved in. Consultant shall provide a list of all drawings, including Xrefs that are associated with the Record Drawings. The electronic Record Documents shall be provided on recordable (not re-recordable) compact discs.
- A.6.08 WARRANTY REVIEW Services. Consultant shall: consult with and make recommendations to Owner, during the duration of the Construction Contract warranty period, concerning inadequate performance of materials, systems, and equipment under warranty; perform inspections prior to expiration of the warranty period to ascertain adequacy of performance of materials, systems, and equipment; and document defects or deficiencies and assist Owner in preparing instructions to the Contractor for correction of noted defects.
- A.6.09 CONSTRUCTION CONTRACT ADMINISTRATION Services. Consultant shall perform Construction Contract administration Services as set forth in this section and the Contract Documents.
  - a. Consultant shall visit the site at weekly intervals, and upon special circumstances as requested by Owner, to be familiar with the progress and quality of the Work, and to determine if the Work is generally proceeding in accordance with the Contract Documents. Consultant, in conjunction with the payment review, shall report to Owner on the accuracy of Contractor's working record drawings each month during construction. However, Consultant shall not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. On the basis of such on-site observations, Consultant shall report such visits, observations, and information in a weekly written report to Owner.
  - b. Consultant shall not have control or charge of, and shall not be responsible for construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the Work. Consultant, by virtue of its position alone and without regard for Consultant's actual involvement on site, shall not have control or charge of, and shall not be responsible for the acts or omissions of Contractor and any subcontractors or any other persons performing any of the Work, or for the failure of any of them to carry out the Work in accordance with the Contract Documents.
  - c. Subject to the concurrence of Owner, Consultant shall be the interpreter of the requirements of the Contract Documents, regarding the performance thereunder by both Owner and Contractor. Accordingly, Consultant shall render interpretations necessary for the proper execution or progress of the Work with reasonable promptness on written request of either Owner or Contractor, and shall render written decisions, within a reasonable time, on all claims, disputes and other matters in question between Owner and Contractor relating to the execution or progress of the Work or the interpretation of the Contract Documents. Owner shall render a final determination in the event that Owner disagrees with Consultant's proposed interpretation or decision.
  - d. Consultant shall review and take appropriate action on Contractor's submittals, including shop drawings, product data, and samples, checking for conformance with the design concept of the Work and the Contract Documents. Such action shall be taken with reasonable promptness so as to cause no delay. Consultant shall forward to Owner one (1) copy of all approved shop drawings, product data, and samples, together with correspondence related to these documents as a record of the Work. Consultant's approval of a specific item shall not indicate approval of an assembly of which the item is a component.
  - e. Consultant shall conduct construction observations and reviews to determine "Substantial Completion" and "Final Completion" (as those terms are defined in the Construction Contract) and shall receive and forward to Owner written warranties and related documents required by the Contract Documents and assembled by Contractor. Consultant, with Owner's concurrence, shall prepare and certify a "Certificate of Substantial Completion" and a "Certificate of Final Payment" under the Construction Contract.

# A.7 PHASE 7 - SUPPLEMENTAL SERVICES

[NOTE: <u>This Section includes descriptions of Services that may be required on some projects. Remove</u> descriptions that do not apply. Note that some of the Supplemental Services are included in the Basic Services of this Exhibit A and may be removed at the discretion of the user.] In addition to the generally sequential Services described in Phases 1 through 6, Consultant shall provide supplemental services designated below (the "Supplemental Services") upon written instruction from Owner. These non-sequential Services may be provided during a single phase of Services or during several phases, as herein specified, and shall include the following (Owner reserves the right to amend the Contract and delete Supplemental Services not needed as a part of the Project; in that event, Owner shall receive a credit against the Contract amount payable to Consultant, based on the value of the Services removed from Statement of Work or such other standard as agreed by the Parties):

- A.7.01 GRAPHICS DESIGN SERVICES. Consultant shall: design interior signs and identify symbols; and document requirements for procurement of graphics work.
- A.7.02 FINE ARTS AND CRAFTS SERVICES. Consultant shall comply with the 1% for Art Program as it is related to acquisition of fine arts or crafts to be part of the Project and shall consult on selection, commissioning and execution of the fine arts or crafts, as well as design integration. These Services shall accompany Services performed under Phases A.2, A.3, A.4, and A.6.
- A.7.03 ADDITIONAL FINE ARTS AND CRAFTS Services. Consultant shall comply with the 1% for Art Program as it is related to design integration. The specific Services, if any, and cost shall be determined after developing the statements of probable construction cost during Phases 2 through 4 and shall be based on quantity take-offs and unit cost pricing for materials, labor, tools, equipment, and Services required for the Work plus estimates for art to be installed in the Contractor's supervision cost, Work required by the General and Supplemental General Conditions of the Construction Contract, and an allowance for a reasonable Contractor's overhead and profit and culminating in a Detailed Estimate of Construction Cost at a point representing 90 percent of A.4 Phase 4 Construction Documents Services portion of the Project.
- A.7.04 RENDERING Services. Consultant shall provide a graphic pictorial representation of the proposed Project consisting of one black and white exterior view to the entry, approximately 18" X 24" format.
- A.7.05 INTERIOR DESIGN AND SPACE PLANNING Services. In the various phases of the Work, Consultant shall provide those Services necessary to prepare Interior Schematic Design Documents and Interior Design Development Documents to establish the scope, scale, special relationships, and interior appearance of any structures of the Project, and provide other documents setting forth in detail the requirements for the equipment, interior construction, and selected interior finishes. Consultant shall provide:

a. Interior design and space planning Services during the schematic design phase, consisting of space allocation and utilization plans based on functional relationships, consideration of alternate materials, systems, and equipment and development of conceptual design solutions for architectural, mechanical, electrical, and equipment requirements in order to establish workstation layouts based upon the DAS "Space Standards" requirements. Consultant shall provide Owner with a sample form to be used as an inventory document of existing furnishings. Owner shall be responsible for conducting the furniture inventory and provide Consultant with the fully completed inventory document within six (6) weeks of the receipt of the blank inventory form; and

- b. Interior design/documentation Services during the design development phase, consisting of ongoing development and expansion of interior Schematic Design Documents relative to: floor plan layouts indicating all loose and fixed furniture and equipment; identification and relationships of organizational units; all other aspects of space planning; special interior design features; materials, finishes and colors; total length of space partitions required; and listing additional movable furnishings required.
- A.7.06 LOW VOLTAGE SECURITY & FIRE ALARM SYSTEM DESIGN Services. Consultant shall provide design, layout, specification and document development of a comprehensive low voltage fire alarm and keycard-access security system, identifying and locating each device utilizing Owner's authorized system provider's equipment. Consultant shall be required to determine and coordinate the electrical interface between building electrical and security at all designated door locations, and to observe installation and testing of security system(s), equipment and devices during construction.
- A.7.07 COMMUNICATIONS AND DATA CONSULTANT Services. Consultant shall provide such Services in the programming, design, layout, specifications, coordination, installation, and observation of installation and testing, as may be necessary to complete installation of a successful telecom and data system in accordance with DAS and end-user requirements.
- A.7.08 STRUCTURAL SEISMIC ANALYSIS AND DESIGN Services. Consultant shall provide such Services in the inspection, research, analysis, programming, design and specifications as may be required to bring the building into conformance with current regulatory seismic structural stability requirements.

- A.7.09 OWNER REQUESTED ADDITIONAL MEETINGS (maximum of 5 meetings with 5 attendees each visit) Services. Consultant shall attend and participate in additional meetings, at either Owner's offices or other locations, of members of the design team as requested by Owner. Payment for additional meetings shall be based on: a) the specific personnel requested by Owner to be in attendance; b) the specific hourly rates as set forth in **Exhibit F**, Rate Schedule, and, c) the duration of the meeting in hours or fractions of hours for each of the requested attending personnel. Hourly rates for travel time required to attend such meetings shall be fifty percent (50%) of the applicable Contract rate. Reimbursable expenses shall be allowed in accordance with **Exhibit B**, Section B.2, up to an amount not to exceed 10% of Owner-approved total combined hourly fees associated with this meeting.
- A.7.10 OWNER-REQUESTED ADDITIONAL SPACE PROGRAM REVISION Services. Consultant shall provide a substantial revision of the Space Plan Program after Owner has approved the program for design.
- A.7.11 OWNER-REQUESTED ADDITIONAL CONCEPT PLAN OPTION Services. Consultant shall provide an additional concept plan beyond the scope and sequence of the plan included as a part of Basic Services.
- A.7.12 OWNER-REQUESTED ADDITIONAL CONCEPT PLAN REVISION Services. Consultant shall provide, a substantial revision of a concept plan after Owner has approved a concept plan for design.
- A.7.13 OWNER-REQUESTED ADDITIONAL COMPLETE COST ESTIMATE Services. Consultant shall provide an additional estimate of the cost of the Work beyond the scope and sequence of the cost of the Work estimate included in Part 1 and Part 2, Basic Services.
- A.7.14 OWNER-REQUESTED ADDITIONAL MINOR COST ESTIMATE REVISION Services. Consultant shall provide a minor cost-estimate revision in addition to and beyond the scope and sequence of previously Owner-approved cost of the Work estimates included in Part 1 and Part 2, Basic Services. For purposes of this Supplemental Service description, the term "minor" shall be defined as the addition to, or revision of, less than one-third of the line items developed in a previously approved estimate.
- A.7.15 BUILDING CODE APPEAL Services. Consultant shall provide Services to appeal a Building Code administrative ruling/decision and follow the process through to an official appeals ruling/decision.
- A.7.16 ENERGY STUDIES Services. Consultant shall provide additional special analyses and computer modeling to further analyze and incorporate additional cost-effective energy conservation measures in compliance with the Oregon Department of Energy SEED guidelines for state buildings.
- A.7.17 COMMISSIONING PROCESS INTEGRATION AND CERTIFICATION Services. Consultant shall coordinate those activities directly related to the commissioning process. These Services include working with the CA in the development of design intent for the electrical and mechanical building systems being evaluated by the CA. Consultant shall review all CA input provided during the design development document review periods. Consultant shall review all CA evaluation documents such as balance and testing reports, and shall coordinate with the Contractor in directing the implementation of any needed corrections of the Work.
- A.7.18 EXPANDED ON-SITE A&E CONSTRUCTION ADMINISTRATION ADDITIONAL SITE VISITS (maximum 10 visits with 5 attendees each visit) Services. Consultant shall provide additional construction administration observations in addition to the site visits included in A.6 Phase 6, Basic Services. These additional site visits shall be at the Project construction site in ______, Oregon, and shall be attended by members of the design team, as requested by Owner. Payment per meeting shall be based on: a) the specific personnel requested by Owner to be in attendance; b) the applicable hourly rates as set forth in Exhibit F; and c) the duration of the meeting in hours or fractions of hours for each of the requested attending personnel. No payment will be made for travel time. Reimbursable expenses will be allowed in accordance with Exhibit B, Section B.2, up to an amount not to exceed 5% of Owner-approved total combined hourly fees associated with the meeting.
- A.7.19 ROOFING CONSULTANT Services shall be provided by an industry-recognized qualified roofing consultant who will perform the following Services, as may be required: inspection evaluation, recommendation, assistance with development of specifications, and necessary on-site observation of installation, and final inspections leading to certification that all materials, conditions, means and methods of installation have met with manufacturers recommendations and other conditions to insure performance of the manufacturer's warranty.
- A.7.20 CIVIL ENGINEERING/SURVEYING Services shall be provided by a registered engineer who shall: evaluate existing pavement surfaces, grading and on-site utilities and identify potential areas to upgrade: and develop, from conceptual design through construction closeout, potential upgrades, including specifications and bid drawings; surveying to include determining legal descriptions and verification of lot lines (meets and bounds), and building and equipment placement.

- A.7.21 TESTING OF ELECTRICAL SERVICE EQUIPMENT Services. Consultant shall provide for the necessary testing of existing electrical service equipment for the purpose of establishing and verifying the electrical integrity of the system through infrared technology as performed by an approved outside testing agency.
- A.7.22 ENERGY INCENTIVES COORDINATION Services. Consultant shall provide analysis and documentation necessary for Owner to obtain the maximum amount of energy incentives available through the State of Oregon, Business Energy Tax Credit (BETC) through the Oregon Department of Energy (ODOE), utility incentives available through an appropriate local utility, and energy incentives available through the Energy Trust of Oregon (ETO). Consultant's responsibilities shall include, but are not limited to: determining requirements for available incentives through cooperation with ODOE, the local utility, and ETO; completing all required documentation for submission; and ensuring that all required documentation is submitted in the required timeline. Consultant shall coordinate with Owner to resolve any potential issues to ensure that documentation is submitted when required.

## STATE OF OREGON STANDARD PROFESSIONAL SERVICES CONTRACT EXHIBIT B CONSULTANT COMPENSATION

[ATTENTION USERS: This Exhibit B provides for a fixed price for Services rendered; if another method of compensation is intended, this Exhibit B must be revised to meet the agreement of the Parties; if a cost reimbursement method is used with a maximum, not-to-exceed amount for any part of the Services, the Parties should attach to this Exhibit B an agreed-upon schedule of rates and markups for the various personnel of Consultant and any Sub-consultants.]

# **B.1 BASIS OF COMPENSATION**

B.1.01 Owner shall compensate Consultant for the performance of Services set forth in **Exhibit A**, as follows:

[Sample Alternate #1]

The maximum, not to exceed total amount payable under this Contract is <u></u>for the combination of Basic Services, Supplemental Services, and Reimbursable Expenses.

Consultant shall perform the Basic Services for: a fixed price of <u>\$</u>. [NOTE: Insert amount of fixed price or revise this Sub-section as needed to provide another method of compensation for Basic Services, such as cost reimbursement with a maximum, not-to-exceed amount.]

Consultant shall perform the Supplemental Services for: <u>a fixed price of </u><u>a fixed price of </u><u>a fixed price or revise this Sub-section as needed to provide for another method</u> <u>of compensation for Supplemental Services, such as cost reimbursement with a maximum, not-to-exceed</u> <u>amount.</u>]

Owner shall reimburse Consultant for any allowable Reimbursable Expenses up to a maximum amount of

#### [Sample Alternate #2]

The maximum, not to exceed total amount payable under this Contract is \$_____, for the combination of Basic Services, Supplemental Services and Reimbursable Expenses.

Consultant shall perform the Basic Services for: a maximum, not-to-exceed price of **S**[NOTE: Insert a maximum not-to-exceed amount or fixed price or revise this section as needed to provide another method of compensation for Basic Services, such as cost reimbursement with a maximum, not-to-exceed amount.].

Consultant shall perform the Supplemental Services for: a maximum, not-to-exceed price of  $\underline{\$}$ . [NOTE: Insert a maximum not-to-exceed amount or fixed price or revise this Sub-section as needed to provide for another method of compensation for Supplemental Services, such as cost reimbursement with a maximum, not-to-exceed amount.]

Owner shall reimburse Consultant for any allowable Reimbursable Expenses up to a maximum amount of **\$**_____.

- B.1.02 Payments for Services and Reimbursable Expenses shall be made monthly, following Owner's review and approval of detailed invoices submitted by Consultant and acceptance of the Services or approval of Reimbursable Expenses by Owner. Payment for all Services performed and for Reimbursable Expenses shall not exceed the amounts indicated in Section B.1.03, below. Owner shall make payments only after Owner's receipt and approval of (i) Consultant's detailed monthly invoice as described in Section B.1.07, and (ii) all reports, designs, certificates, and documents covered by the invoice. Payments are subject to the provisions of ORS 293.462.
- B.1.03 Payments for Basic Services shall be in proportion to the Services performed within Phases 1 through 6 set forth in Exhibit A. The total compensation for each Phase of the Services shall not exceed the following percentages of the total amount payable for the Services (<u>Note</u>: The Supplemental Services indicated in Section A.7 of Exhibit A, may or may not be provided concurrently with Phases 1 through 6. Therefore, the percentages set forth below do not include the Phase 7 Supplemental Services. Supplemental Services, if authorized, are to be billed as separate line items in accordance with Section B.1.07. Warranty Period Services, which may be included by Contract amendment, are listed separately):

Phase		Percentage	\$ Amount
Programming/Schematic Design Services		0.0%	\$0.00
Design Development Services		0.0%	\$0.00
Construction Documents Services		0.0%	\$0.00
Bidding Services		0.0%	\$0.00
Construction Contract Administration Services		0.0%	\$0.00
Warranty Period Services		0.0%	\$0.00
	Total	100.0%	\$0.00

B.1.04 All Supplemental Services (See Exhibit A, Section A.7), while included in the above-stated maximum not to exceed amount, are considered Services to be provided on an "as needed" basis and will be performed only if authorized by Owner in writing. The authorization of the Supplemental Services is not restricted by the Basic Services schedule. It is the goal of the Parties to agree upon a fixed price for any Supplemental Service for which the actual scope of Service can be defined and agreed upon. The price for each Supplemental Service shall, at Owner's sole discretion, be a fixed price agreed upon by the Parties and documented by Contract amendment prior to authorization to proceed with the Service. If a fixed price cannot be agreed upon, the price shall be the not to exceed amount indicated below for that Supplemental Service (as those amounts may be revised in accordance with this Section B.1.04) derived from Consultant's personnel time to complete the Service, multiplied by the hourly rates for those personnel as set forth in **EXHIBIT F Rate Schedule**. The estimated dollar amounts for each of the Supplemental Services is the actual amount for all Supplemental Services. It is understood that the actual amount payable for each Supplemental Service may be more or less than the estimate below, however, the total amount of all Supplemental Services shall not exceed the maximum, not-to-exceed price stated in Section B.1.01 for Supplemental Services are as follows:

Supplemental Service	Amount
Total:	

B.1.05 Reimbursable Expenses, as described in Section B.2, are defined as the direct costs expended by Consultant, Consultant's employees and Sub-consultants for performance of Services rendered to complete the Project. The estimated dollar amounts for each of the identified Reimbursable Expense items are as follows:

1	Travel Related Expenses		\$ .00
2	General Reimbursable Expenses		\$ .00
		Total	\$ .00

It is understood that the actual total amount payable for each individual Reimbursable Expense item may be more or less than the estimate above, however, the total amount of all Reimbursable Expenses shall not exceed the maximum amount stated in Section B.1.01 for Reimbursable Expenses without a Contract amendment. Payments for Reimbursable Expenses shall be identified and tracked on monthly invoices according to the expense items listed above.

B.1.06 Consultant shall not submit invoices for, and Owner will not pay, any amount in excess of the maximum, not to exceed amount payable under this Contract set forth in Section B.1.01. If this amount is increased by Contract amendment, the amendment must be effective before Consultant performs Services subject to the amendment. Consultant shall notify Owner's Representative identified in this Contract in writing of the expiration of the Contract, thirty (30) days prior to such expiration. No payment will be made for any Services performed prior to the Effective Date or after the expiration date of the Contract.

B.1.07 Consultant shall submit monthly invoices for Services performed. To be processed for payment by Owner, the invoices shall include the following basic information:

# [ATTENTION USERS: Enter all pertinent information that is required to process invoices for payment.] (Example)

- A. The correct name of Owner's authorized representative
- B. Invoice date
- C. Date range during which the Services being invoiced for were provided
- E. The correct Contract number
- F. Original Contact total, not to exceed amount broken out by: Basic Services, Supplemental Services released to date by line item, and Reimbursable Expenses separated by two categories of Travel Expenses and General Reimbursables
- G. Statement of changes to the original total, not to exceed amount by amendment(s) and broken out in the same way as in item F, showing the revised Contract amounts
- H. Paid to date amounts showing the amounts submitted for prior to the current invoice (regardless of payment status) and broken out the same way as in item F
- I. Amounts being invoiced for in the current invoice and broken out the same way as in item F, with a roll up of a "Total Amount Billed For This Invoice" line item amount
- J. Balances Remaining after receipt of payment for the current invoice broken out the same way as in item F

Consultant shall describe all Services performed with particularity and by whom it was performed and shall itemize and explain all expenses for which reimbursement is claimed. Reimbursable Expenses shall be broken out into to line item categories, 1) Travel Expenses and 2) General Reimbursable Expenses. Invoices for Basic Services under a specific Phase shall be for completed Basic Services only and shall indicate the percentage of the total Basic Services for that Phase that the amount invoiced represents. Invoice amounts for authorized fixed price Supplemental Services shall indicate the Supplemental Service, its contract reference number, the total amount of the fixed price Supplemental Service, and the total percentage and related dollar amount of the fixed price Supplemental Service completed by the end of the current invoice period, less the total dollar amount previously billed for, with the balance representing the total amount being currently billed for. Invoices for authorized Supplemental Services based on a not to exceed amount shall set forth the number of hours worked by Consultant's personnel on the identified Service, describe the Services performed by each such personnel in detail on a daily basis, and set forth the rate of compensation for each of such personnel as set forth in **EXHIBIT F**.

Consultant shall send invoices to Owner's Representative identified in this Contract, using the following address:

# [ATTENTION USERS: Enter address and name of Owner's Representative.]

Consultant shall not indicate or invoice for any past due amounts in the current invoice. All such notifications of a past due amount must be handled by a separate Statement of Account.

Owner shall have the right to reject any invoice which does not have the proper information as required by this section without incurring penalty liabilities for late payment.

- B.1.08 Owner and Consultant agree in accordance with the terms and conditions of this Contract that:
  - a. If the scope of the Project or the Services are changed materially, Consultant shall request in writing an amendment to the Contract before additional Services are provided and before compensation is adjusted. All legally required approvals must be obtained for any Contract amendment before the amendment is effective and before Services may be performed or payment made under the amendment.
  - b. Consultant's fee for preparing routine change orders adding or deleting Services from the Project shall be included in the maximum not-to-exceed amount for Basic Services stated in Section B.1.03.
  - c. Upon Owner's request and without additional compensation, Consultant shall make such revisions to completed Contract Documents as are necessary to correct errors or omissions appearing therein, in accordance with the standard of care described in Section 2.1.1 of Consultant's Responsibilities; Representations and Warranties.

## **B.2 REIMBURSABLE EXPENSES**

- B.2.01 Reimbursable Expenses are in addition to compensation for Services and shall not exceed the maximum amount stated in Section B.1.05without prior authorization by Owner. This amount is separated into two categories, Travel Expenses and General Reimbursable Expenses, as outlined below. Reimbursable Expenses include actual, allowable and reasonable expenditures made by Consultant and Consultant's employees in performing the Services required in Exhibit A. Reimbursable Expenses must be evidenced by copies of actual third-party invoices or receipts delivered to Owner to qualify for reimbursement and are limited to the types of actual expenses listed below.
  - B.2.01.1 General Reimbursable Expenses consist of:
    - a. Long distance communications.
    - b. Reproductions, postage and handling of drawings and specifications and other documents, excluding reproductions of drawings, specifications and other documents used by Consultant and Consultant's subconsultants.
    - c. Data processing and photographic production techniques when used in connection with Supplemental Services.
    - d. Third-party models and mock-ups requested by Owner.
    - e. The printing of master or reproducible sets of plans and project manuals including specifications.
    - f. Plan check fees.

## B.2.01.2 Travel Expenses:

It is the policy of the State that all travel shall be allowed only when the travel is essential to the normal discharge of Consultant's responsibilities under the Contract. All travel shall be conducted in the most efficient and cost-effective manner resulting in the best value to the State. The travel must comply with all the requirements set forth in this section and must be for official State business only. Personal expenses shall not be authorized at any time. All expenses are included in the total maximum Contract amount stated in Section B.1.01.

Consultant understands and agrees that travel expenses shall be reimbursed only in accordance with rates approved by the Oregon Department of Administrative Services and in effect at the time the expense was incurred. The current approved rates for reimbursement of travel expenses are set forth below. Consultant understands and agrees that the rates are subject to change and, in such event, the changed rates shall immediately become part of this Contract and govern reimbursement of any travel expenses incurred after the date of the change. Owner shall, as soon as reasonably practicable, notify Consultant of any change in the approved rates for mileage and meals. Mileage and travel expenses are based upon State of Oregon rates set by the Department of Administrative Services travel policy, as amended (the "Travel Policy"). The full text of the Travel Policy, which is binding upon the Parties, can be reviewed at the Oregon State Controller's Division website: <a href="http://scd.das.state.or.us/">http://scd.das.state.or.us/</a> under "travel". The approved mileage rate follows the current United States General Services Administration (GSA) federal rate. Lodging and meal per diem is based on the GSA per diem rates. The Travel Policy provides a GSA website link to view the standard rate for continental United States (CONUS) and rates for locations that are paid above the CONUS rate. Per diems for Alaska, Hawaii, and U.S. Territories and Possessions can be found at the U.S. Department of Defense website link provided in the Travel Policy.

Current approved rates are as follows:

a. **Mileage**. Mileage for travel in a private automobile, while Consultant is acting within the course and scope of his/her duties under this Contract and driving over the most direct and usually traveled route, will be reimbursed at a rate of ______ cents per mile, absent an official and completed amendment to the Travel Policy by the State of Oregon Department of Administrative Services. To qualify for mileage reimbursement, Consultant must hold a valid, current driver's license for the class of vehicle to be driven and carry personal automobile liability insurance in amounts not less than those required by (i) the Oregon Financial Responsibility Law (ORS 806.060) or (ii) the jurisdiction in which the vehicle is being operated, whichever is greater. No mileage reimbursement will be paid for the use of motorcycles or mopeds.

b. <u>Meals</u>. The standard rate for meals is _____ per day. For purposes of calculating individual meals where Consultant is entitled only to a partial day reimbursement, the following allocation of the meal per diem applies:

Breakfast	25%
Lunch	25%
Dinner	50%

Receipts are not required for reimbursement.

Except in the event of necessary overnight travel as provided below, breakfast and dinner expenses shall be reimbursed only if Consultant, while acting within the course and scope of his/her duties under this Contract, is required to travel more than two (2) hours: (a) <u>before</u> the start (for breakfast expense reimbursement), or (b) <u>after</u> the end (for dinner expense reimbursement) of Consultant's regular workday (8:00 a.m. to 5:00 p.m.). Lunch expense is reimbursable only if Consultant, while acting within the course and scope of his/her duties under this Contract, is required to travel overnight and begins or ends the journey, respectively, before or after 11:00 a.m. Breakfast and dinner expenses are reimbursable during Consultant's necessary overnight travel while acting within the course and scope of his/her duties under this Contract.

c. <u>Lodging</u>. The standard rate for lodging is _____ per day. Owner will reimburse Consultant for Consultant's actual cost of lodging up to the specified per diem lodging rates for the locality. Reimbursement rates for lodging are not considered "per diem" and receipts are required for reimbursement.

d. <u>Other Travel Expenses</u>. In addition to meals and lodging, travel expenses will be reimbursed for airfare and rental vehicles only if Consultant is acting within the course and scope of his/her duties under this Contract. Receipts are required for all out-of-state travel expenses. All Consultant representatives will fly "coach class," unless Consultant personally pays the difference. All Consultant representatives will be limited to economy or compact size rental vehicles, unless Consultant personally pays the difference.

For any exceptions to the expense items listed above, Consultant must obtain the separate written approval of Owner's Representative prior to incurring any expense for which reimbursement will be sought. Owner will not pay any mark up over actual allowable reimbursement costs. Any costs associated with recordkeeping or labor to create reproductions of receipts is considered indirect overhead and therefore part of Consultant's Professional Hourly Rates.

# STATE OF OREGON STANDARD PROFESSIONAL SERVICES CONTRACT EXHIBIT C INSURANCE PROVISIONS

[ATTENTION USERS: This Exhibit C must be reviewed carefully and the appropriate boxes must be checked that apply to the particular Parties and Services contemplated in this Contract.]

# [(Agency must check boxes for Sections C.1.02, C.1.03, and C.1.04 as to whether the insurance is required and, if so, in what amount.)]

REQUIRED INSURANCE. Consultant shall obtain at Consultant's expense the insurance specified in this exhibit C prior to performing under this Contract and shall maintain it in full force and at its own expense throughout the duration of this Contract and all warranty periods. Consultant shall obtain the following insurance from insurance companies or entities that are authorized to transact the business of insurance and issue coverage in State and that are acceptable to Owner.

**C.1.01** WORKERS COMPENSATION. All employers, including Consultant, that employ subject workers, as defined in ORS 656.027, shall comply with ORS 656.017 and shall provide workers' compensation insurance coverage for those workers, unless they meet the requirement for an exemption under ORS 656.126(2). Consultant shall require and ensure that each of its sub-consultants complies with these requirements.

# C.1.02 PROFESSIONAL LIABILITY

□ Required by Owner □ Not required by Owner.

**Professional Liability.** Professional Liability Insurance covering any damages caused by an error, omission or any negligent acts related to the services to be provided under this Contract. Consultant shall provide proof of insurance of not less than the following amounts as determined by Owner:

\$(Agency to enter amount) Per occurrence limit for any single claimant; and
\$(Agency to enter amount) Per occurrence limit for any number of claimants

# OR

Per occurrence limit for any single claimant:	
From commencement of the Contract term to June 30, 2010:	\$1,600,000.
July 1, 2010 to June 30, 2011:	\$1,700,000.
July 1, 2011 to June 30, 2012:	\$1,800,000.
July 1, 2012 to June 30, 2013:	\$1,900,000.
July 1, 2013 to June 30, 2014:	\$2,000,000.
July 1, 2014 to June 30, 2015:	\$2,100,000.
July 1, 2015 and thereafter the adjusted limitation as determined	by the State Court Administrator pursuant to
Oregon Laws 2009, chapter 67, sections 3 and 5 (Senate Bill 311).	
Per occurrence limit for any number of claimants:	
From commencement of the Contract term to June 30, 2010:	\$3,500,000.
July 1, 2010 to June 30, 2011:	\$3,700,000.
July 1, 2011 to June 30, 2012:	\$3,900,000.
July 1, 2012 to June 30, 2013:	\$4,100,000.
July 1, 2013 to June 30, 2014:	\$4,300,000.
July 1, 2014 to June 30, 2015:	\$4,500,000.
July 1, 2015 and thereafter the adjusted limitation as determined	by the State Court Administrator pursuant to

Oregon Laws 2009, chapter 67, sections 3 and 5 (Senate Bill 311).

# C.1.03 COMMERCIAL GENERAL LIABILITY.

□ Required by Owner □ Not required by Owner.

**Commercial General Liability.** Commercial General Liability Insurance covering bodily injury, death and property damage in a form and with coverages that are satisfactory to the State. This insurance shall include personal injury liability, products and completed operations. Coverage shall be written on an occurrence basis. Consultant shall provide proof of insurance of not less than the following amounts as determined by Owner:

#### **Bodily Injury/Death:**

\$(Agency to enter amount) Per occurrence limit for any single claimant; and
\$(Agency to enter amount) Per occurrence limit for any number of claimants:

#### OR

Per occurrence limit for any single claimant:	
From commencement of the Contract term to June 30, 2010:	\$1,500,000.
July 1, 2010 to June 30, 2011:	\$1,600,000.
July 1, 2011 to June 30, 2012:	\$1,700,000.
July 1, 2012 to June 30, 2013:	\$1,800,000.
July 1, 2013 to June 30, 2014:	\$1,900,000.
July 1, 2014 to June 30, 2015:	\$2,000,000.
July 1, 2015 and thereafter the adjusted limitation as determined	by the State Court Administrator pursuant to
Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).	
Per occurrence limit for any number of claimants:	
From commencement of the Contract term to June 30, 2010:	\$3,000,000.
July 1, 2010 to June 30, 2011:	\$3,200,000.
July 1, 2011 to June 30, 2012:	\$3,400,000.
July 1, 2012 to June 30, 2013:	\$3,600,000.
July 1, 2013 to June 30, 2014:	\$3,800,000.
July 1, 2014 to June 30, 2015:	\$4,000,000.
July 1, 2015 and thereafter the adjusted limitation as determined	by the State Court Administrator pursuant to

AND

#### **Property Damage:**

\$(Agency to enter amount) Per occurrence limit for any single claimant; and

(Agency to enter amount) Per occurrence limit for any number of claimants

## OR

Per occurrence limit for any single claimant:

Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

From commencement of the Contract term to January 1, 2010: \$100,000.

From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).

Per occurrence limit for any number of claimants:

From commencement of the Contract term to January 1, 2010: \$500,000.

From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).

# C.1.04. AUTOMOBILE LIABILITY INSURANCE: AUTOMOBILE LIABILITY.

# □ Required by Owner □ Not required by Owner.

**Automobile Liability.** Automobile Liability Insurance covering all owned, non-owned, or hired vehicles. This coverage may be written in combination with the Commercial General Liability Insurance (with separate limits for "Commercial General Liability" and "Automobile Liability"). Consultant shall provide proof of insurance of not less than the following amounts as determined by Owner:

## **Bodily Injury/Death:**

\$(Agency to enter amount) Per occurrence limit for any single claimant; and
\$(Agency to enter amount) Per occurrence limit for any number of claimants

## OR

Per occurrence limit for any single claimant:	
From commencement of the Contract term to June 30, 2010:	\$1,500,000.
July 1, 2010 to June 30, 2011:	\$1,600,000.
July 1, 2011 to June 30, 2012:	\$1,700,000.
July 1, 2012 to June 30, 2013:	\$1,800,000.
July 1, 2013 to June 30, 2014:	\$1,900,000.
July 1, 2014 to June 30, 2015:	\$2,000,000.
July 1, 2015 and thereafter the adjusted limitation as determined	by the State Court Administrator pursuant to
Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).	
Per occurrence limit for any number of claimants:	
From commencement of the Contract term to June 30, 2010:	\$3,000,000.
July 1, 2010 to June 30, 2011:	\$3,200,000.
July 1, 2011 to June 30, 2012:	\$3,400,000.
July 1, 2012 to June 30, 2013:	\$3,600,000.
July 1, 2013 to June 30, 2014:	\$3,800,000.
July 1, 2014 to June 30, 2015:	\$4,000,000.
July 1, 2015 and thereafter the adjusted limitation as determined	by the State Court Administrator pursuant to
Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).	

## AND

#### **Property Damage:**

\$(Agency to enter amount) Per occurrence limit for any single claimant; and
\$(Agency to enter amount) Per occurrence limit for any number of claimants

#### OR

Per occurrence limit for any single claimant:
From commencement of the Contract term to January 1, 2010: \$100,000.
From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).
Per occurrence limit for any number of claimants:

From commencement of the Contract term to January 1, 2010: \$500,000. From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).

[Optional for Auto Liability if Consultant is transporting any commodity that could cause environmental damage, ranging from fuel oil to radioactive materials:

AUTOMOBILE LIABILITY. Automobile Liability Insurance, including MCS-90 endorsement, with a combined single limit of no less than **§** [If applicable, contact DAS Risk Management] or equal to the U.S. Department of Transportation requirements, whichever is greater. The policy shall insure against bodily injury, property damage, or environmental damage arising out of the use (including loading, transporting and unloading) by or on behalf of Consultant, its agents and employees of owned, non-owned or hired vehicles.]

[Optional – If Consultant is a subject employer, as defined in ORS 656.023 use the following provision: C.1.05. EMPLOYERS' LIABILITY.

□ Required by Owner □ Not required by Owner.

If Consultant is a subject employer, as defined in ORS 656.023, Consultant shall obtain employers' liability insurance coverage. Consultant shall provide proof of insurance of not less than the following amounts as determined by Owner:

\$(Agency to enter amount) Per occurrence limit for any single claimant; and \$(Agency to enter amount) Per occurrence limit for any number of claimants

## OR

Per occurrence limit for any single claimant:	
From commencement of the Contract term to June 30, 2010:	\$1,500,000.
July 1, 2010 to June 30, 2011:	\$1,600,000.
July 1, 2011 to June 30, 2012:	\$1,700,000.
July 1, 2012 to June 30, 2013:	\$1,800,000.
July 1, 2013 to June 30, 2014:	\$1,900,000.
July 1, 2014 to June 30, 2015:	\$2,000,000.
July 1, 2015 and thereafter the adjusted limitation as determined	by the State Court Administrator pursuant to
Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).	
Per occurrence limit for any number of claimants:	
From commencement of the Contract term to June 30, 2010:	\$3,000,000.
July 1, 2010 to June 30, 2011:	\$3,200,000.
July 1, 2011 to June 30, 2012:	\$3,400,000.
July 1, 2012 to June 30, 2013:	\$3,600,000.
July 1, 2013 to June 30, 2014:	\$3,800,000.
July 1, 2014 to June 30, 2015:	\$4,000,000.
July 1, 2015 and thereafter the adjusted limitation as determined	by the State Court Administrator pursuant to
Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).	

[*Optional – use the following provision below if there is a possibility of sudden or accidental pollution:* C.1.06. POLLUTION LIABILITY.

# □ Required by Owner □ Not required by Owner.

Pollution Liability Insurance covering Consultant's liability for bodily injury, property damage and environmental damage resulting from either sudden or gradual accidental pollution and related cleanup costs incurred by Consultant, all arising out of the Goods delivered or Services (including transportation risk) performed under this Contract. Combined single limit per occurrence shall not be less than **\$ [If applicable, contact DAS Risk Management]**. Annual aggregate limit shall not be less than **\$ [If applicable, contact DAS Risk Management]**.]

[Note: If applicable, contact DAS Risk Management] Other type of coverage may be available if, different coverage is advisable to address the risks associated with the purchase of Goods and Services under this contract. Consider whether any of the following insurance coverages may be necessary: Garagekeepers' Legal Liability, Aircraft Liability, Aircraft/Aerial Application Liability, Marine Protection and Indemnity, Employee Dishonesty and (when applicable) Money and Securities, Inland Marine Insurance.]

# C.1.07. EXCESS/UMBRELLA INSURANCE.

A combination of primary and excess/umbrella insurance is acceptable to meet the minimum coverage requirements for liability insurance. In such case, the insurance certificate must include a list of the policies that fall under the excess/umbrella insurance. Sample wording is "The Excess/Umbrella policy is excess over primary Professional Liability, Commercial General Liability, Automobile Liability Insurance, etc."

#### C.1.08. ADDITIONAL INSURED.

The Commercial General Liability insurance and Automobile Liability insurance required under this Contract shall include the State of Oregon, its officers, employees and agents as Additional Insureds but only with respect to

Consultant's activities to be performed under this Contract. Coverage shall be primary and non-contributory with any other insurance and self-insurance.

# C.1.09. "TAIL" COVERAGE.

If any of the required professional liability insurance is on a "claims made" basis, Consultant shall either maintain either "tail" coverage or continuous "claims made" liability coverage, provided the effective date of the continuous "claims made" liability coverage, provided the effective date of the continuous "claims made" coverage is on or before the effective date of this Contract, for a minimum of 24 months following the later of (i) Consultant's completion and Owner's acceptance of all Services required under this Contract, or, (ii) The expiration of all warranty periods provided under this Contract. Notwithstanding the foregoing 24-month requirement, if Consultant elects to maintain "tail" coverage and if the maximum time period "tail" coverage reasonably available in the marketplace is less than the 24-month period described above, then Consultant shall maintain "tail" coverage for the maximum time period that "tail" coverage is reasonably available in the marketplace for the coverage required under this Contract. Consultant shall provide to Owner, upon Owner's request, certification of the coverage required under this Exhibit C.

#### C.1.10. NOTICE OF CANCELLATION OR CHANGE.

There shall be no cancellation, material change, potential exhaustion of aggregate limits or non-renewal of insurance coverage(s) without sixty (60) days' written notice from this Consultant or its insurer(s) to Owner. Any failure to comply with the reporting provisions of this clause shall constitute a material breach of Contract and shall be grounds for immediate termination of this Contract by Owner.

## C.1.11. CERTIFICATE(S) OF INSURANCE.

Consultant shall provide to Owner Certificate(s) of Insurance for all required insurance before delivering any Goods and performing any Services required under this Contract. The Certificate(s) must specify all entities and individuals who are endorsed on the policy as Additional Insured (or Loss Payees). Consultant shall pay for all deductibles, self-insured retention and self-insurance, if any. The Consultant shall immediately notify the Owner's Representative in writing of any change in insurance coverage.

# STATE OF OREGON STANDARD PROFESSIONAL SERVICES CONTRACT EXHIBIT D SPECIAL CONTRACT PROVISIONS

[ATTENTION USERS: <u>This Exhibit D was drafted for a new building construction contract; it must be</u> reviewed carefully and revised as necessary to meet the specific agreement of the Parties to this Contract; certain terms and conditions may need to be removed or revised, or additional terms and conditions may need to be added, to accurately describe the agreement of the Parties.]

#### **D.1 RESPONSIBILITIES OF OWNER**

- D.1.01 Owner's Project budget shall include contingencies for design, bidding, changes in the Work during construction, and other costs described below.
- D.1.02 Owner, at Owner's sole option, may retain an inspector to inspect the Project in order to protect Owner's interests. The costs of the inspector are to be paid by Owner and the inspector shall serve at the pleasure of Owner. When retained by Owner, the inspector's duties are not to be interpreted as conflicting with the duties of Consultant or relieving Consultant of any responsibility or duty incurred under this Contract, nor may the inspector act as Consultant's agent.
- D.1.03 Owner shall furnish to Consultant a certified land survey, soils report of the building site, and other related information as Owner deems necessary.
- D.1.04 Owner shall furnish to Consultant a Hazardous Material Survey, and any subsequent testing and/or abatement as may be required.
- D.1.05 Owner shall furnish to Consultant structural, mechanical, chemical and other laboratory tests, inspections and reports as required by law or the Contract Documents.
- D.1.06 Owner shall be responsible for payment of all plan check fees, review fees, permit fees, taxes, development charges, or any other costs related to obtaining governing bodies' approval for construction of the Project.

## D.2 PROJECT RESPONSIBILITIES

- D.2.01 Consultant shall prepare a schedule of its activities through all phases of the Project. Consultant shall schedule and prepare agendas for all meetings which involve Consultant's Services. Consultant shall chair such meetings and shall record and distribute minutes, in a format and level of detail acceptable to Owner, of decisions and actions to attendees.
- D.2.02 Consultant shall confirm first hand, through site investigations of the observable circumstances and existing conditions, the critical issues that may impact design criteria and shall not rely solely on furnished As Built documents. Consultant shall be liable, at Owner's discretion, for any cost change impacts as a result of using inaccurate As Built drawings which, if used solely for the design process without confirmation, create conflicts on site.
- D.2.03 The "maximum allowable construction cost" shall be the total cost or estimated cost to Owner of all elements of the Project designed or specified by Consultant in the Construction Documents Phase Statement of Probable Construction Costs prepared pursuant to Section A.4. PHASE 4 of **Exhibit A**, excluding equipment supplied by Owner, and delineated in outline form according to the industry standard CSI 16 divisions of the Work, excluding equipment supplied by Owner. Construction cost does not include the compensation of Consultant and Subconsultants, the cost of the land, rights-of-way, or other costs which are the responsibility of Owner. If the fixed limit of the maximum allowable construction cost is exceeded by the lowest bona fide bid for construction of the Project, Owner, at its discretion, shall (i) give written approval of an increase in such fixed limit, (ii) authorize rebidding of the Project within a reasonable time, (iii) if the Project is abandoned, terminate the bid process, or (iv) cooperate in revising the Project scope and quality as required to reduce the construction cost. In the case of (iv), Consultant, without additional charge, shall modify the drawings and specifications as necessary to comply with the fixed limit. The providing of such Service shall be the limit of Consultant's responsibility arising from the establishment of such fixed limit, and having done so, Consultant shall be entitled to compensation for all Services performed in accordance with this Contract, whether or not the Construction Phase is commenced.

# STATE OF OREGON STANDARD PROFESSIONAL SERVICES CONTRACT EXHIBIT E CRITICAL DATE SCHEDULE

[ATTENTION USERS: <u>This Exhibit E must be carefully completed by the Parties to accurately state the</u> <u>Critical Date Schedule agreed to by the Parties for the Project described in this Contract.</u>]

> Programming Complete Schematic Design Complete Design Development Complete Construction Documents Complete Construction Contract Award Substantial Completion Final Completion Warranty Period Complete

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# STATE OF OREGON STANDARD PROFESSIONAL SERVICES CONTRACT EXHIBIT F RATE SCHEDULE

[ATTENTION USERS: The rate table in Exhibit F may or may not apply depending on whether the fee is based on lump sum or maximum not to exceed invoiced at hourly rates, or if supplemental services are required.]

Hourly Rate*

Senior Engineer/Architect/Construction Manager

Engineer 6/Architect 6/Estimator 6/Controls Specialist 6/Purchasing Agent 6/ Construction Manager 6/Field Superintendent 6

Engineer 5/Architect 5/Senior Designer 2/Estimator 5/ Controls Specialist 5/Purchasing Agent 5/Construction Manager 5/Field Superintendent 5

Engineer 4/Architect 4/Senior Designer 1/Estimator 4/Controls Specialist 4/ Purchasing Agent 4/Construction Manager 4/Field Superintendent 4

Engineer 3/Architect 3/Senior Designer/Estimator 3/Controls Specialist 3/ Purchasing Agent 3/Construction Manager 3/Field Superintendent 3/Interior Designer 5

Engineer 2/Architect 2/Designer 2/Estimator 2/Controls Specialist 2/ Purchasing Agent 2/Construction Manager 2/Field Superintendent 2/Interior Designer 4

Engineer 1/Architect 1/Designer 1/Estimator 1/Controls Specialist 1/ Purchasing Agent 1/Construction Manager 1/Field Superintendent 1/Interior Designer 3

Designer/Drafter 1/2/Interior Designer 1/2

Project Assistant/Project Support/Purchasing Clerk

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# STATE OF OREGON STANDARD PROFESSIONAL SERVICES CONTRACT EXHIBIT G ASSUMPTIONS AND EXCLUSIONS