## **APPENDIX C**

## Geotechnical Reports

# GEOTECHNICAL AND GEOHAZARD INVESTIGATION STADIUM IMPROVEMENTS PROJECT MOUNTAIN VIEW HIGH SCHOOL MOUNTAIN VIEW – LOS ALTOS UNION HIGH SCHOOL DISTRICT MOUNTAIN VIEW, CALIFORNIA

for

Mr. Joe White
Associate Business Services
Mountain View – Los Altos Union High School District
1299 Bryant Avenue
Mountain View, CA 94040

by

Cleary Consultants, Inc. 900 N. San Antonio Road Los Altos, California 94022

March 2014



Geotechnical Engineers and Geologists

Christophe A. Ciechanowski, President, GE Grant F. Foster, Vice-President, GE J. Michael Cleary, Principal, CEG, GE

> March 27, 2014 Project No. 1307.2D Ser. 4279

Mr. Joe White, Associate Business Services Mountain View – Los Altos Union High School District 1299 Bryant Avenue Mountain View, CA 94040

RE: GEOTECHNICAL AND GEOHAZARD INVESTIGATION

> STADIUM IMPROVEMENTS PROJECT MOUNTAIN VIEW HIGH SCHOOL 3535 TRUMAN AVENUE

**MOUNTAIN VIEW, CALIFORNIA** 

Dear Mr. White:

As authorized, we have performed a geotechnical and geohazard investigation for the planned stadium improvements project at Mountain View High School in Mountain View, California. The accompanying report presents the results of our field investigation, laboratory testing and engineering analyses. The site and subsurface conditions are discussed and recommendations for the geotechnical engineering aspects of the project design are presented. The recommendations presented in this report are contingent upon our review of the grading and foundation plans and observation/testing of the earthwork and foundation installation phases of the project.

Please refer to the text of the report for details of our findings and recommendations

any questions concerning this report, please call.

Yours very truly,

CLEARY CONSULTANTS, IN

Grant Foster

Geotechnical Engineer 2662

Chris Ciechanowski

Geotechnical Engineer 2584

GF/JMC/CC:cm

Copies: Addressee (1)

Kramer Project Development, Co. Inc. (2) Attn: Orlando Delgadillo

Sugimura Finney Architects (2)

J. Michael Cleary

Engineering Geologist 352

Geotechnical Engineer 222

#### **TABLE OF CONTENTS**

	rage No
Letter of Transmittal	
INTRODUCTION	. 1
SCOPE	. 2
A. Geotechnical Investigation	
B. Geologic and Seismic Hazards Assessment	
METHOD OF INVESTIGATION	4
CAME COMPANIONS	-
SITE CONDITIONS	
A. Surface	
B. Subsurface	
C. Groundwater	7
GEOLOGY AND SEISMICITY	7
GEOLOGIC AND SEISMIC HAZARDS EVALUATION	11
A. Fault Offset Hazards	
B. Ground Shaking Hazards	
1. Strong Ground Shaking	
2. Soil Liquefaction	
3. Soil Densification	
4. Other Seismic Hazards	
C. Flooding	14
CONCLUSIONS AND RECOMMENDATIONS	14
A. Earthwork	15
1. Stripping and Site Preparation.	
2. Overexcavation and Recompaction of Upper Soils	
3. Subgrade Recompaction Outside Bleacher/Press Box Areas	
4. Fill Placement and Compaction	
5. Temporary Cutslopes and Shoring	
6. Trench Backfill	. 18
7. Surface Drainage	. 19
8. Construction Observation	. 19
B. Press Box and Bleacher Foundations	20
C. Seismic Design Parameters	21
D. Slabs-on-Grade	
E. Flexible Pavements for Pedestrian Walkways	23
F. Soil Corrosivity	
PLAN REVIEW AND CONSTRUCTION OBSERVATION	25
LIST OF REFERENCES	

### **TABLES**

	<u>Page No.</u>
TABLE 1 - Summary of Significant Earthquake Faults Capable of Generating Strong Ground Shaking at Mountain View High School	10
TABLE 2 - Correlation Between Resistivity and Corrosion Potential	24
<u>DRAWINGS</u>	
<u>Drav</u>	wing No.
SITE VICINITY MAP	. 1
LOCAL GEOLOGIC MAP	2
REGIONAL EARTHQUAKE EPICENTER MAP	3
SITE PLAN	4
KEY TO EXPLORATORY BORING LOGS	. 5
SUMMARY OF FIELD SAMPLING PROCEDURES	6
LABORATORY TESTING PROCEDURES	7
LOGS OF EXPLORATORY BORINGS ONE THROUGH FOUR	8-15
PLASTICITY CHART	16
CORROSIVITY TEST SUMMARY	17
APPENDIX A – Mountain View High School, Liquefaction and Dry Settlen	

2014

#### **INTRODUCTION**

This report presents the results of our geotechnical investigation for the planned new stadium improvements project at Mountain View High School in Mountain View, California (see Drawing 1, Site Vicinity Map for location). The purpose of this investigation was to explore the soil and foundation conditions in the vicinity of the planned new press box and visitor bleacher sites and develop recommendations for the geotechnical engineering aspects of the project design. We have also performed a geologic and seismic hazards assessment for the project as part of the geotechnical investigation.

We understand from our correspondence with Mr. Orlando Delgadillo, with Kramer Project Development Company, Inc., that the stadium improvements project will include a new press box above the existing home side bleachers and new 500 person capacity visitor side bleachers. The new press box and bleachers are planned to be supported on a concrete spread footing foundations. The existing home side press box will be removed prior to the construction of the new press box. Details of the press box construction were not known at the time of this report.

We anticipate that the project will also include the installation of associated underground utilities, exterior slabs-on-grade and asphalt-paved pedestrian walkways.

#### **SCOPE**

#### A. Geotechnical Investigation

As outlined in our proposal agreement dated January 3, 2014, the scope of our services for this investigation has included:

- 1. Several reconnaissances of the site by our staff and review of relevant published and unpublished geologic literature and maps.
- 2. A subsurface investigation including the drilling and sampling of four exploratory borings in the vicinity of the planned new press box and bleacher structures.
- 3. Engineering analysis of the field and laboratory data.
- 4. Preparation of this geotechnical investigation and geologic and seismic hazards assessment report for use in the project design and construction. The report includes findings and recommendations for the following:
  - a. Geologic and seismic setting of the site and surrounding area, including research and review of available geologic/seismic reports and maps.
  - b. 2013 CBC seismic design criteria.
  - c. Site preparation and grading.
  - d. Press box and bleacher foundation type, allowable soil engineering design parameters, and minimum foundation dimensions.

- e. Estimated foundation settlements.
- f. Support of exterior concrete slabs-on-grade.
- g. Treatment of expansive soils (as required).
- h. Flexible pavement section for new pedestrian pathways.
- i. Backfill and compaction of utility trenches.
- j. Any other unusual design or construction conditions encountered in the investigation.

#### B. Geologic and Seismic Hazards Assessment

The Geologic and Seismic Hazards Assessment section of our report consists of the following:

- 1. Discussion of geologic and seismic conditions and data on the nature of the site and potential earthquake damage including:
  - a. Regional geology and seismic conditions and historical information on the seismicity of the local and regional area.
  - b. Location of known active and potentially active faults near the site, as well as possible nearby inactive faults.

- 2. Earthquake ground motion acceleration design parameters and geologic subgrade site classification in accordance with the 2013 California Building Code study requirements.
- 3. Potential for ground rupture related to faulting, liquefaction, seismic settlement and differential compaction, landsliding, tsunami and seiche inundation, flooding and dam failure inundation with recommended mitigation measures, where appropriate.

This report has been prepared for the specific use of the Mountain View - Los Altos Union High School District and their consultants in accordance with generally accepted geotechnical engineering principles and practices. No other warranty, either expressed or implied, is made. In the event that any substantial changes in the nature of the project are planned, the conclusions and recommendations of this report shall not be considered valid unless such changes are reviewed and the conclusions of this report modified or verified in writing. Any use or reliance of this report or the information herein by a third party shall be at such party's sole risk.

It should also be recognized that changes in the site conditions may occur with the passage of time due to environmental processes and/or acts of man, and that changes in building codes, the state of the practice or new information may require modifications in the recommendations presented herein. Accordingly, neither the client, nor any other party should rely on the information or conclusions contained in this report after three years from its date of issuance without the express written consent of Cleary Consultants, Inc.

#### **METHOD OF INVESTIGATION**

A site reconnaissance and the subsurface investigation were performed on February 12, 2014, using a truck-mounted, hollow-stem auger drill rig. Four exploratory borings were drilled under the guidance of our geologist, Tom DeSimone, to a maximum depth of 45 feet at the locations

shown on Drawing 4, Site Plan. A key describing the soil classification system and soil consistency terms used in this report is presented on Drawing 5 and the soil sampling procedures are described in Drawing 6. Logs of the borings are presented on Drawings 8 through 15.

The borings were located in the field by pacing/tape measurements and interpolation of the features shown on the site plan provided us. These locations should be considered accurate only to the degree implied by the method used.

Samples of the soil materials from the borings were returned to our laboratory for classification and testing. The results of moisture content, dry density, percent finer than No. 4 and No. 200 sieves, plasticity index and free swell testing are shown on the boring logs. The laboratory testing procedures followed during this investigation are summarized on Drawing 7. Drawing 16, Plasticity Chart, presents additional data on the plasticity index testing. Drawing 17 presents the results of soil corrosivity testing on a composite sample of the surficial soils collected from the borings.

A list of references consulted during the investigation is included at the end of the text.

#### SITE CONDITIONS

#### A. Surface

The existing stadium is located on the northeast corner of Truman Avenue and Oak Avenue, southwest of the main campus. The running track and football field is oriented north-south in the long direction, with the home bleachers on the west side and the visitor bleachers on the east side of the track.

An artificial berm appears to have been constructed for the support of the home side bleachers and existing press box. The berm ranges in height from one to five feet relative to the track with the high point at the press box behind the center of the bleachers. A concrete ramp located behind the press box and bleacher area provides access to the sidewalk at street level to the west. The berm around the bleachers is covered with grass and a row of medium-sized trees and a hedge borders the west side of the site.

The visitor bleacher area is relatively flat and covered with asphalt-pavement. This area was occupied by temporary bleachers and soccer goals during our site visit.

The regional slope gradient in the site vicinity is approximately one percent to the north. The site is approximately 190 feet above sea level.

#### B. Subsurface

The exploratory borings drilled for this investigation encountered predominantly loose to medium dense silty sand, clayey sand and sandy gravel, and firm to stiff sandy clay and gravelly sandy clay to the maximum depth explored of 45 feet. EB-3 and EB-4 (drilled on the artificial berm) encountered loose gravelly clayey sand fill in the upper two to three and one-half feet. EB-3 and EB-4 also encountered dense to very dense gravelly clayey sand at depths of 22 feet and 16 feet, respectively, continuing to the maximum depth explored of 45 feet.

The upper sandy clay and clayey sand soils have a low to moderate expansion potential based on their plasticity characteristics (Plasticity Indices of five to 16 percent) and the free swell test data (Free Swells of 30 to 50 percent).

The attached boring logs and related information depict subsurface conditions only at the specific locations shown on Drawing 4 and on the particular date designated on the logs. Soil conditions

at other locations may differ from conditions occurring at these boring locations. Also, the passage of time may result in a change of conditions at these boring locations due to environmental changes.

#### C. Groundwater

Free groundwater was not encountered in the borings performed during this investigation. However, the borings were only open for a short period, and this may not have been sufficiently long to establish the stabilized water table conditions. It should also be noted that fluctuations of localized perched groundwater and the regional groundwater level can occur due to such factors as variations in rainfall, temperature, runoff, irrigation, and other factors not evident at the time our measurements were made and reported herein.

The depth to historically high groundwater in the site vicinity is greater than 50 feet below the ground surface as shown on Plate 1.2 of the State of California Seismic Hazard Zone Report 068, Cupertino Quadrangle, "Depth to Historically High Groundwater."

#### **GEOLOGY AND SEISMICITY**

The Santa Clara Valley, a broad, sediment filled basin bordered on the east by the Diablo Range and on the west by the Santa Cruz Mountain Range, is about 13 miles wide in the vicinity of the site, which is situated on the west side of the Valley. Structurally, the Santa Clara Valley has formed as a result of tectonic downwarping controlled by three northwest trending active fault zones: the San Andreas fault on the southwest and the Hayward and the Calaveras faults on the northeast. The school site is located in an area of younger alluvial fan deposits (Qyf) which underlie this portion of the Santa Clara Valley (SR107 - see Local Geologic Map, Drawing 2).

The San Francisco Bay Area is recognized by geologists and seismologists as one of the most active seismic regions in the United States. The three major fault zones which pass through the Bay Area in a northwest direction have produced approximately a dozen earthquakes per century strong enough to cause structural damage. The faults causing these earthquakes are part of the San Andreas fault system, a major rift in the earth's crust that extends for at least 450 miles along the California Coast and includes the San Andreas, Hayward and Calaveras faults. The site is located approximately 5.8 miles northeast of the San Andreas fault, 13.5 miles southwest of the Hayward fault, and 15.5 miles southwest of the Calaveras fault, respectively. In addition, the site is located about 2.6 miles southwest of the potentially active Monte Vista-Shannon fault.

Since the early 1800's, major earthquakes have been recorded along the San Andreas, Hayward and Calaveras fault zones (Toppozoda et al, 2000). In 1861, an earthquake having a Richter magnitude of approximately 6.5 was reported on the Calaveras fault. The presumed epicenter of this earthquake was located approximately 28 miles northeast of the site. In 1984 and 2007, earthquakes having magnitudes of approximately 6.1 and 5.6 were reported on the Calaveras fault near Mt. Hamilton and the City of Milpitas. The epicenters of these earthquakes were located approximately 22 and 17 miles southeast and northeast of the site. In 1868, an earthquake having a Richter magnitude of approximately 7.0 was recorded along the Hayward fault. This earthquake opened fissures at random locations along the fault, from San Pablo to Mission San Jose. The presumed epicenter of the 1868 earthquake is located approximately 24 miles northwest of the site. The San Francisco Earthquake of 1906 had a Richter Magnitude of approximately 8.3 and the epicenter of this earthquake (Toppozoda et al, 2000) was located approximately 34 miles northwest of the site; also, the San Andreas fault produced earthquakes having approximate magnitudes of 7.0 and 6.6 in 1838 and 1865, the presumed epicenters of which are located about six miles southwest and 14 miles southeast of the site.

An earthquake with Richter Magnitude 5.4 experienced on the Concord fault in 1955 had its epicenter approximately 42 miles northeast of the site. Another damaging earthquake with Richter Magnitude 5.3 occurred in 1957 on the San Andreas fault in Daly City, causing

approximately one million dollars in damage. The epicenter of this earthquake was about 34 miles northwest of the site. Two earthquakes in 1980, along traces of the Greenville fault, had their epicenters approximately 36 miles northeast of the site. These 1980 earthquakes had Richter magnitudes of 5.5 and 5.8. In addition, numerous earthquakes of magnitudes 4.0 or greater have been recorded throughout the Bay Area along the San Andreas, Hayward and Calaveras faults.

On October 17, 1989, the Loma Prieta earthquake, which had its epicenter 24 miles southeast of the site and a recorded Moment Magnitude of 6.9, produced widespread damage through the Bay Area. Most of the liquefaction-related damage caused by this earthquake occurred in areas of shallow water table (10 feet or less) underlain by unconsolidated fill and loose soil deposits, such as the Marina District of San Francisco, the westerly portion of Oakland, and downtown Santa Cruz. Liquefaction was not observed in the northern portion of the Santa Clara Valley (DMG OFR 2000 - 010) during the Loma Prieta Earthquake.

The distances between the site and the capable segments of the above faults, as well as other significant faults within a radius of 60 miles from the site, was determined using the USGS Earthquake Hazards Program 2008 USGS National Seismic Hazard Maps – Fault Parameters, as presented below in Table 1:

TABLE 1 - Summary of Significant Earthquake Faults Capable of Generating Strong Ground Shaking at the Stadium Improvements Project at Mountain View High School,

Mountain View (1), (2)

Earthquake Generating Fault	Approximate Distance and Direction to Generating Fault (miles)	Maximum Earthquake (Moment Magnitude)	
Monta Vista - Shannon	2.6 SW	6.5	
N. San Andreas (SAO+SAN+SAP+SAS)	5.8 SW	8.1	
Hayward-Rodgers Creek (RC+HN+HS)	13.5 NE	7.3	
Calaveras (CN+CC+CS)	15.5 NE	7.0	
San Gregorio Connected	18.4 SW	7.5	
Zayante-Vergales	19.3 SW	7.0	
Mount Diablo Thrust	29.0 NE	6.7	
Monterey Bay-Tularcitos	30.3 SW	7.3	
Greenville Connected	30.4 NE	7.0	
Green Valley Connected	37.7 NE	6.8	
Great Valley	39.5 NE	6.9	
Ortigalita	43.7 SE	7.1	
Quien Sabe	48.9 SE	6.6	
Rinconada	50.1 SE	7.5	
West Napa	56.5 N	6.7	
Point Reyes	58.3 NW	6.9	

 $<sup>^{(1)}\,</sup>$  USGS Earthquake Hazards Program 2008 USGS National Seismic Hazard Maps – Fault Parameters, run March 25, 2014

The historical seismicity of the greater San Francisco Bay area and surrounding regions is presented on Drawing 3, Regional Earthquake Epicenter Map.

Similar to most of the San Francisco Bay Area, it is reasonable to assume that the stadium improvements project will be subjected to a moderate to large earthquake from one of the abovementioned faults during its lifetime. During such an earthquake, strong ground shaking is likely to occur at the site.

<sup>(2)</sup> Site Latitude: 37.35773°N; Site Longitude: 122.06795°W

#### **GEOLOGIC AND SEISMIC HAZARDS EVALUATION**

#### A. Fault Offset Hazard

Based on our review of existing geologic information, we conclude that there are no known active or potentially active faults crossing the site. The site is also located outside of the Special Studies Zones boundaries of the Alquist-Priolo Earthquake Fault Zoning Map. Therefore, the hazard resulting from surface rupture or fault offset is considered low.

#### B. Ground Shaking Hazards

#### 1. Strong Ground Shaking

Strong ground shaking is likely to occur during the lifetime of the planned improvements as a result of movement along one or more of the regional active faults discussed above. The proposed stadium improvements will need to be designed and constructed in accordance with current standards of earthquake-resistant construction.

#### 2. Soil Liquefaction

Liquefaction is a phenomenon in which saturated, essentially cohesionless soils lose strength during strong seismic shaking and may experience horizontal and vertical movements. Soils that are generally most susceptible to liquefaction are clean, loose, saturated, uniformly graded, fine-grained sands and silts that lie within roughly 50 feet of the ground surface.

This site is not mapped within a zone of required investigation for liquefaction (State of California Seismic Hazard Zones Map, Cupertino Quadrangle, 2002).

The water table was not encountered to the maximum depths explored in our borings of 45.0 feet. We have conservatively assumed the groundwater table to be at a depth of 50 feet for the purposes of liquefaction analysis based on the information provided in the State of California Historic High Groundwater map for the Cupertino Quadrangle.

Based on the relatively high consistency of the soils below a depth of approximately 16 to 20 feet and the absence of groundwater to a depth at least 50 feet, we conclude that the likelihood that the new construction will experience significant distress as a result of earthquake-induced soil liquefaction is remote.

#### 3. Soil Densification

The recognized procedures for evaluation of seismically-induced settlement in dry sandy soils (Tokimatsu and Seed, 1987; Pradel, 1998) are considered most applicable to non-cohesive loose clean sands with less than 5 percent fines (Day, 2002). The fines content of the loose to medium dense sand layers encountered in the borings ranges from approximately three to 45 percent.

EB-1 and EB-3 were analyzed for seismically-induced dry settlement using the LiquefyPro computer program (Version 5.0) and a factor of safety (FOS) of 1.3 per CGS Special Publication 117A. One-inch blowcounts were recorded in the sand layers encountered during drilling in intervals where gravels were observed; however, gravel interference was not indicated. The blow counts in EB-3 at 28.5 feet were conservatively reduced by 50% due to a 2.5-inch gravel that was found to be lodged in the sampler shoe.

LiquefyPro evaluates seismically induced settlement potential and calculates the settlement of saturated and unsaturated deposits due to seismic loads using SPT blowcount, total unit weight, fines content, peak horizontal acceleration and earthquake

moment magnitude data. The program is based on the most recent publications of the NCEER Workshop and SP117 Implementation.

Based on the results of our analysis, a theoretical dry settlement of approximately four to eight inches could occur at the site vicinity, with up to four inches of differential settlement over a distance of 50 feet, using the calculated peak ground acceleration  $(PGA_M = 0.646)$  for the site as specified in Item 20 of CGS Note 48 (2013), and the Tokimatsu and Seed calculation method with magnitude scaling correction.

Based on the above information, we conclude that the new press box and bleacher structures and foundations will need to be designed to tolerate settlements of these calculated magnitudes.

The results and supporting data for the liquefaction and dry settlement analysis are included in Appendix A of this report.

#### 4. Other Seismic Hazards

We have also considered the possibility of other seismically induced hazards at the site. Because of the sites relatively flat topography, and the absence of a shallow groundwater table, and "free face" in the site vicinity, soil lurching and lateral spreading are considered unlikely.

Ground cracking may be caused by any of the phenomena discussed above. Although there is a potential for soil densification of the soils underlying the site, it is unlikely that significant ground cracking would be present at the surface since the densification component predominately occurs below a depth of 10 feet. Landsliding is also very unlikely to occur at the site based on the relatively flat topography and absence of a shallow ground water table.

#### C. Flooding

The 2003 Anderson Dam Inundation Maps prepared by the Santa Clara Valley Water District indicates the site would be not be subject to inundation in the event that the dam failed catastrophically. The site is not located within the dam failure inundation areas of the other reservoirs in Santa Clara County such as the Calaveras, Lexington and Coyote Reservoirs.

The Santa Clara County Flood Insurance Rate Map (FIRM) dated May 18, 2009, indicates the site is in Zone X (Areas of 0.2% annual chance flood, areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile, and areas protected by levees from 1% annual chance flood. The site is not mapped within the "Special Flood Hazard Areas", and the likelihood of flooding in Zone X is considered low.

#### **CONCLUSIONS AND RECOMMENDATIONS**

Based on the findings of our investigation, we judge that there are no geologic hazards or constraints which would preclude the construction of the planned Stadium Improvements project at Mountain View High School. From a soil and foundation engineering standpoint, we also conclude that the improvements can be constructed as planned provided the recommendations of this report are incorporated into the design and construction of the project.

The upper gravelly clayey sand and sandy clay soils, and the low artificial berm fill at the west side of project site, are of variable consistency and strength, and are considered unsuitable for support of the proposed press box and bleacher structures in their present condition. Hence, to provide suitable support for conventional spread footings and slabs, we recommend that the upper soils beneath the footprint of the improvements be overexcavated, the bottom 12 inches scarified and recompacted, and the stockpiled materials replaced as a well-compacted engineered fill. The overexcavation should extend to a depth of five feet (or three feet below the bottoms of

new footings, whichever is greater), and three feet beyond the outer face of the footings. The structures can then be supported on conventional isolated and continuous spread footings obtaining support in the properly compacted soil.

The overexcavation and replacement of the upper loose soils with engineered fill will also effectively mitigate one to two inches of the calculated seismically-induced dry settlement.

The recommendations presented in the remainder of this report are contingent on our review of the earthwork and foundation plans for the project and our observation of the grading, foundation installation, and pavement installation phases of the construction.

#### A. Earthwork

#### 1. Stripping and Site Preparation

Existing AC pavements, slabs, surface vegetation, underground utilities, trees designated to be removed, existing foundations, underground obstructions and other site improvements not designated to remain should be removed to their full depth and extent and hauled from the site.

Any holes resulting from the removal of underground obstructions (such as old concrete footings, abandoned utilities or tree root bulbs) that extend below the planned finished grade should be cleared of loose soil and debris, and backfilled with suitable material compacted to the requirements discussed below for engineered fill (see Section 4, Fill Placement and Compaction).

#### 2. Overexcavation and Recompaction of Surface Soils

After the site has been cleared and stripped of surface vegetation and organic laden topsoil, and the improvement areas have been cut to grade, the upper soils within the new press box and visitor bleacher area should be overexcavated and recompacted. The upper five feet of soil, or greater depth as required to provide at least 36 inches of engineered fill beneath footings, should be removed and stockpiled for re-use as engineered fill. The overexcavation should extend three feet beyond the outer face of any footings. Any existing fills remaining in the bottom of the overexcavation should be removed to their full extent and replaced with properly compacted engineered fill.

The exposed soil at the bottom of the overexcavation should then be ripped to a depth of 12 inches, moisture conditioned to about two percent above optimum moisture content and compacted to at least 90 percent relative compaction as determined by ASTM Test Designation D1557. Compaction should be performed using suitably sized compaction equipment such as a self-propelled sheepsfoot compactor. Placement of stabilizing fabric and a 12-inch layer of Class 2 aggregate baserock (or suitable import material, as discussed below) may be required to stabilize the bottom of the overexcavation if excessive pumping or instability is observed, prior to filling the overexcavation with on-site stockpiled material. After the exposed subgrade soils are recompacted, the overexcavated area can then be brought up in thin lifts with the excavated soils placed and compacted to the requirements given below for engineered fill.

#### 3. Subgrade Recompaction Outside Bleacher/Press Box Areas

After new construction areas outside of the press box and visitor bleacher areas have been cleared, stripped and excavated to required grade, the exposed soil should be moisture conditioned and compacted. The upper twelve inches of the exposed subgrade should be processed such that the moisture is at least two percent above the laboratory established

optimum moisture content, and then compacted to at least 90 percent relative compaction as determined by ASTM Test Designation D1557. The moisture conditioning process should be observed by our representative. Field testing of the moisture content in the upper 12 inches should be performed just prior to placing fill or aggregate base on the recompacted subgrade.

After the exposed subgrade soils are compacted, any required fill and the aggregate base section under slabs should be placed in thin lifts and compacted to the requirements given below for engineered fill.

The subgrade should be maintained at least two percentage points above the optimum moisture content prior to placing additional fill or Class 2 aggregate base. Should drying of the soils occur, they should again be scarified, moisture conditioned to the proper moisture content and recompacted.

#### 4. Fill Placement and Compaction

Existing soils having an organic content of less than three percent by volume, and which are free of construction debris, can be used as engineered fill. Fill material should not, however, contain rocks or lumps greater than six inches in greatest dimension with not more than 15 percent larger than 2.5 inches. Any imported fill to be used to raise grades in the improvement areas should be predominantly granular with a maximum plasticity index of twelve. Imported fill to be placed within press box and bleacher foundation areas should not contain asphaltic material.

Engineered fill should be compacted to at least 90 percent relative compaction, as determined by ASTM Test Designation D1557. Fill material should be spread and compacted in lifts not exceeding eight inches in uncompacted thickness. In order to achieve satisfactory compaction in the subgrade and fill soils, it may be necessary to adjust

the soil moisture content at the time of soil compaction. This may require that water be added and thoroughly mixed into any soils which are too dry or that scarification and aeration be performed in any soils which are too wet.

#### 5. Temporary Cutslopes and Shoring

Temporary slopes for overexcavations in the clayey sand to sandy clay soils encountered during the site investigation are anticipated to be reasonably stable at an inclination of 1.5:1 (horizontal to vertical). Excavations adjacent to existing improvements (i.e. in the vicinity of the existing home side bleachers) should be properly shored, or the overexcavation performed in relatively short (five to 10 foot) sections to prevent undermining or damage to slabs, foundations or utilities.

There are a number of factors which can influence the stability of temporary excavations, some of which the contractor can control. The contractor, therefore, should be solely responsible for designing and constructing stable temporary excavations and should shore, slope or bench the excavations as required to maintain their stability and comply with all applicable safety standards, including CAL-OSHA requirements. The temporary shoring system design and performance should be the responsibility of the contractor.

#### 6. Trench Backfill

The presently available subsurface information indicates that utility trenches can be excavated with conventional backhoe equipment. Trenches deeper than five feet should be properly braced or sloped in accordance with the current requirements of CAL-OSHA or the local governmental agency, whichever is more stringent.

Utility trenches should be backfilled with engineered fill placed in lifts not exceeding eight inches in uncompacted thickness, except thicker lifts may be used with the approval of the

soil engineer provided satisfactory compaction is achieved. If on-site soil is used, the material should be compacted to at least 85 percent relative compaction by mechanical means only. Imported sand can also be used for backfilling trenches provided it is compacted to at least 90 percent relative compaction. In bleacher, slab, and pavement areas, the trench backfill should be compacted to at least 90 percent relative compaction for on-site soils, and 95 percent where imported clean sand backfill is used. In addition, the upper six inches of all trench backfill materials under vehicular pavement areas should be compacted to at least 95 percent relative compaction.

Water jetting to achieve the required level of backfill compaction should not be permitted.

#### 7. Surface Drainage

Positive surface gradients of at least two percent on porous surfaces and one percent on impervious surfaces should be provided adjacent to the new press box, bleachers and other site improvements so that surface water is directed away from foundations and towards suitable discharge facilities. Ponding of surface water should not be allowed on pavements or slabs adjacent to the structures. Water from roof downspouts should be collected into closed pipes which carry the runoff away from the improvements and discharge into approved drainage facilities or discharged onto hardscape surfaces which drain toward collection basins or surface collectors.

#### 8. Construction Observation

The grading and earthwork operations should be observed and tested by our representative for conformance with the project plans/specifications and our recommendations. This work includes site preparation, selection of satisfactory fill materials, and placement and compaction of the subgrade and fill. Sufficient notification prior to commencement of earthwork is essential to make certain that the work will be properly observed.

#### B. Press Box and Bleacher Foundations

After the site has been properly prepared, the new home-side press box and visitor bleachers can be supported on conventional continuous perimeter and isolated spread footing foundations bearing in properly engineered fill.

Spread footings should be founded at least 18 inches below lowest adjacent finished grade. Continuous footings should have a minimum width of 16 inches, and isolated column footings should be at least 24 inches square. Footings located adjacent to utility trenches should have their bearing surfaces at least nine inches below an imaginary 2:1 (horizontal to vertical) plane projected upward from the edge of the bottom of the trench.

At the above depths, footings can be designed for an allowable bearing pressure of 2000 psf due to dead loads with a one-third increase for dead plus live loads (2667 psf) and a 50 percent increase (3000 psf) for total design loads including wind and seismic. Footings should be provided with top and bottom reinforcement as specified by the structural engineer to provide structural continuity and to permit spanning of local irregularities. Soil conditions in the foundation excavations should be checked by our representative prior to placing reinforcing steel or concrete.

Lateral loads can be resisted by friction between the foundation bottoms and the supporting subgrade. A friction coefficient of 0.25 is considered applicable. As an alternative, a passive pressure equal to an equivalent fluid pressure of 250 pcf can be taken against the sides of footings poured neat. The passive pressure may be assumed to start 12 inches below the ground surface.

Footing trenches should be kept moist so that any drying-shrinkage cracks are closed prior to placement of concrete. Moisture should be added in a light mist spray. Flooding of the footing excavations, which could result in softening of the subgrade, should be avoided.

Settlements under the anticipated loads are expected to be within tolerable limits for the

proposed construction.

C. <u>Seismic Design Parameters</u>

Seismic design values for the project were determined using the USGS Seismic Design Maps

Web Tool Application with the 2008 USGS Hazard Data and the 2010 ASCE 7 (with July 2013

errata), and the subsurface information obtained from the exploratory borings which was used for

determining the site classification. A site-specific seismic hazard analysis is not required (per

CBC 2013 Section 1616A.1.3), as the site is assigned to Seismic Design Category D (per CBC

2013 Section 1613A.3.5).

Using the site Latitude (37.3577 °N) and Longitude (122.0679 °W) and the site classification as

input, the computer application provides Seismic Hazard Curve information, Site Coefficients

and Uniform Hazard Response Spectra for both "short" (0.2 seconds) and long period (1-second)

durations as detailed in the 2013 CBC.

Based on the results of our investigation, the tables provided in Section 1613.5.2 of the 2013

CBC, and our analysis using the USGS Earthquake Ground Motion Parameter Java Application,

the following seismic design parameters can be used in lateral force analyses at this site:

Site Class D - Stiff Soil Profile with Standard Penetration Test Values of 15 to 50

blows/foot

**USGS** Website Values:

Site Coefficient  $F_a = 1.0$ 

Site Coefficient  $F_v = 1.5$ 

Mapped Spectral Acceleration Values;  $S_S = 1.692$ ,  $S_1 = 0.690$ 

Spectral Response Accelerations;  $SM_S = 1.692$ ,  $SM_1 = 1.035$ 

Design Spectral Response Accelerations;  $SD_S = 1.128$ ,  $SD_1 = 0.690$ 

21

**CLEARY CONSULTANTS, INC.** 

#### D. Slabs-on-Grade

Slab-on-grade construction will be used for press box and exterior slabs. Just prior to final slab preparation, the slab subgrade should be checked to determine that the upper 12 inches of native soils are at least at optimum moisture content and proof-rolled to provide firm, uniform support. Interior slabs should be underlain by a minimum 15 mil vapor retarder of permeance less than or equal to 0.01 perms (as tested by ASTM E1249) placed over six inches of 3/4-inch clean, free draining crushed rock. Care should be taken to prevent wear, punctures and/or tearing of the membrane during the construction phase (such as could result from the placement of rebar) subsequent to its installation; any tears or punctures should be tightly sealed. The six inch drain rock section should be further underlain by six inches of compacted Class 2 aggregate baserock.

Exterior concrete flatwork, sidewalks and curb and gutters should be underlain by at least six inches of Class 2 aggregate baserock placed on the prepared subgrade soil.

Reinforcement of slabs should be provided in accordance with their anticipated use and loading, but as a minimum, slabs should be reinforced with No. 3 bars at 18 inches on center, both ways, or No. 4 bars at 24 inches on center, both ways. Concrete slabs should be articulated with a maximum joint spacing of ten feet in both directions.

Prior to final construction of slabs, the subgrade surface should be proof rolled to provide a smooth, firm non-yielding surface. The baserock and upper eight inches of underlying subgrade should be compacted to at least 90 percent relative compaction.

The moisture content of the compacted subgrade should be maintained at, or slightly above, optimum moisture prior to placing non-expansive fill materials.

#### E. Flexible Pavements for Pedestrian Walkways

Any new hardscape areas required for the project (i.e pedestrian walkways) should consist of two inches AC over four inches Class 2 aggregate baserock.

The upper six inches of soil subgrade in AC hardscape areas and the Class 2 aggregate baserock section should be compacted to at least 90 percent relative compaction. Any fill required below the upper six inches of subgrade should be compacted to at least 90 percent.

Class 2 aggregate base should have an R-Value of at least 78 and conform to the requirements of Section 26, State of California "CALTRANS" Standard Specifications, latest edition. The aggregate base material should be placed in thin lifts in a manner to prevent segregation, and should be uniformly moisture conditioned and compacted to at least 90 percent relative compaction to provide a smooth, unyielding surface.

Concrete curbs should be embedded at least two inches below the soil subgrade (below the bottom of the aggregate base section) in any areas where irrigated landscape areas are planned adjacent to AC pavements.

The asphaltic concrete should conform to and be placed in accordance with the requirements of Section 39 in the State of California CALTRANS Standard Specifications, latest edition.

#### F. Soil Corrosivity

Laboratory resistivity, pH, chloride and sulfate testing was performed on a composite soil sample obtained from EB-1 through EB-4 during our geotechnical investigation for this project. The testing was performed by Cooper Testing Laboratory for the purpose of evaluating the soils'

corrosion potential for use in the design of underground utilities and embedded concrete on this project.

In summary, the test results indicated a minimum resistivity of 2,287 Ohm-Cm, a PH of 7.8, a chloride content of 26 ppm, and water soluble sulfate content of 88 ppm. Soils with chloride contents of less than 500 ppm and sulfate contents of less than 1500 ppm are considered to be of "low" Corrosivity. However, based on the resistivity testing, the soils are considered "mildly corrosive."

Table 2 below shows the general correlation between resistivity and corrosion potential.

<u>Table 2 - Correlation Between Resistivity</u> <u>and Corrosion Potential (c)</u>

Soil Resistivity (ohm-cm)	Soil Classification		
Below 500	Very Corrosive		
500 to 1,000	Corrosive		
1,000 to 2,000	Moderately Corrosive		
2,000 to 10,000	Mildly Corrosive		
Above 10,000	Progressively Less Corrosive		

<sup>(</sup>c) National Association of Corrosion Engineers.

This condition could result in reduced life span of buried steel piping and culverts for this project. Thicker gauge pipelines would have greater life spans. For example, the life spans for 18, 16 and 14 gauge steel culverts with a soil resistivity of 2,287 ohm-cm and a pH of 7.8 are estimated to be roughly 35, 46 and 56 years, respectively (California Division of Highways, 1993).

For the purposes of design of concrete in contact with the soil, there are no restrictions on types of cementitious materials to be used, based on the resistivity testing and sulfate testing.

#### PLAN REVIEW AND CONSTRUCTION OBSERVATION

We should be provided the opportunity to review the foundation and grading plans and the specifications for the project when they are available. We should also be retained to provide soil engineering observation and testing services during the grading and foundation installation phases of the project. This will provide the opportunity for correlation of the soil conditions found in our investigation with those actually encountered in the field, and thus permit any necessary modifications in our recommendations resulting from changes in anticipated conditions.

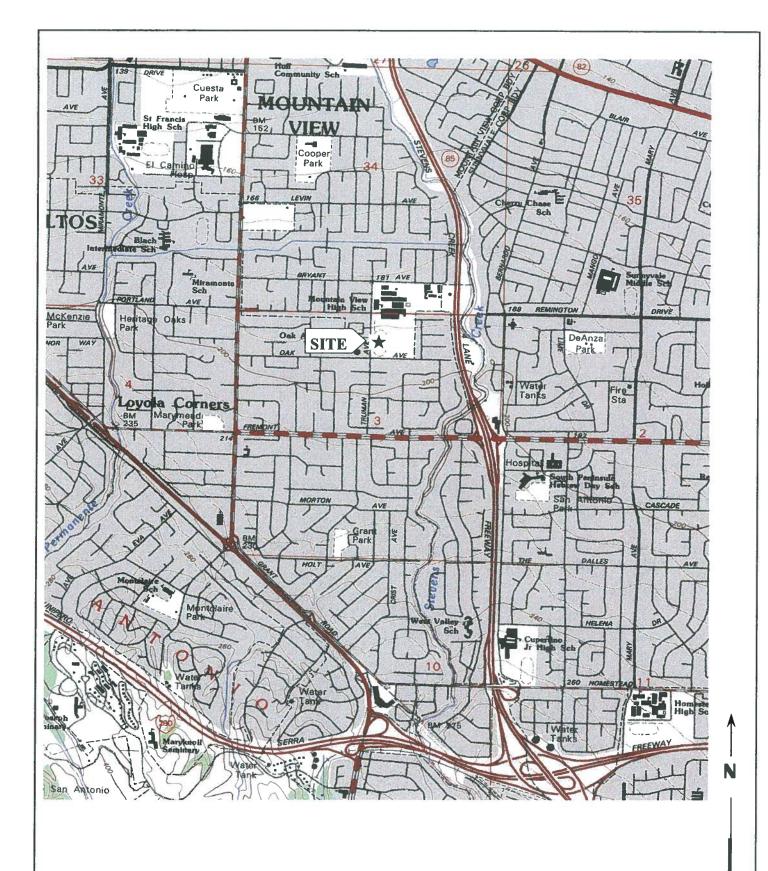
\*\*\*\*\*\*

#### **LIST OF REFERENCES**

- Association of Bay Area Governments, 1983, Plate 1. Fault Traces Used as Sources of Ground Shaking, San Francisco Bay Region.
- Boore, D.M., Joyner, W.B. and Fumal, T.E., 1997, Equations for Estimating Horizontal Response Spectra and Peak Accelerations from Western North American Earthquakes. A Summary of Recent Work. Seismological Research Letters, Vol. 68, No. 1, January, 1997.
- Borcherdt, R.D., 1975, Studies for Seismic Zonation of the San Francisco Bay Region: U.S. Geologic Survey, Professional Paper 941-A.
- Brabb, E.W., 1993, Preliminary Geologic Map of the On-Shore Part of the Palo Alto 1:100,000 Quadrangle, California, USGS OFR 93-271.
- California Building Code, 2013.
- California Geological Survey, 2008, Guidelines for Evaluating and Mitigating Seismic Hazards in California Special Publication 117A.
- CGS Note 48 (October 2013), Checklist for the Review of Engineering Geology and Seismology Reports for California Public Schools, Hospitals and Essential Services Buildings.
- Cleary Consultants, Inc., 2010, Geotechnical and Geohazard Investigation for New Classroom Building and Aquatic Center Projects at Mountain View High School, Mountain View, October 13, 2010.
- Cleary Consultants, Inc., 2010, Geotechnical and Geohazard Investigation for Photovoltaic Structures Project at Mountain View High School, Mountain View, October 6, 2010.
- Civiltech Software, Liquefy Pro Program, Version 5.0.
- Day, R.W., Geotechnical Earthquake Engineering Handbook, 2002, Mc Graw-Hall.
- Ensign and Buckley, Consulting Engineers, 1991, Inundation Study for Anderson Dam, Santa Clara County, California for the Santa Clara Valley Water District.
- Federal Emergency Management Agency, Flood Insurance Rate Map, May 18, 2009, Santa Clara, CA, Panel 38 of 830.
- Housner, G.W., 1985, Liquefaction of Soils During Earthquakes, Committee on Earthquake Engineering, National Research Council, National Academy of Sciences.

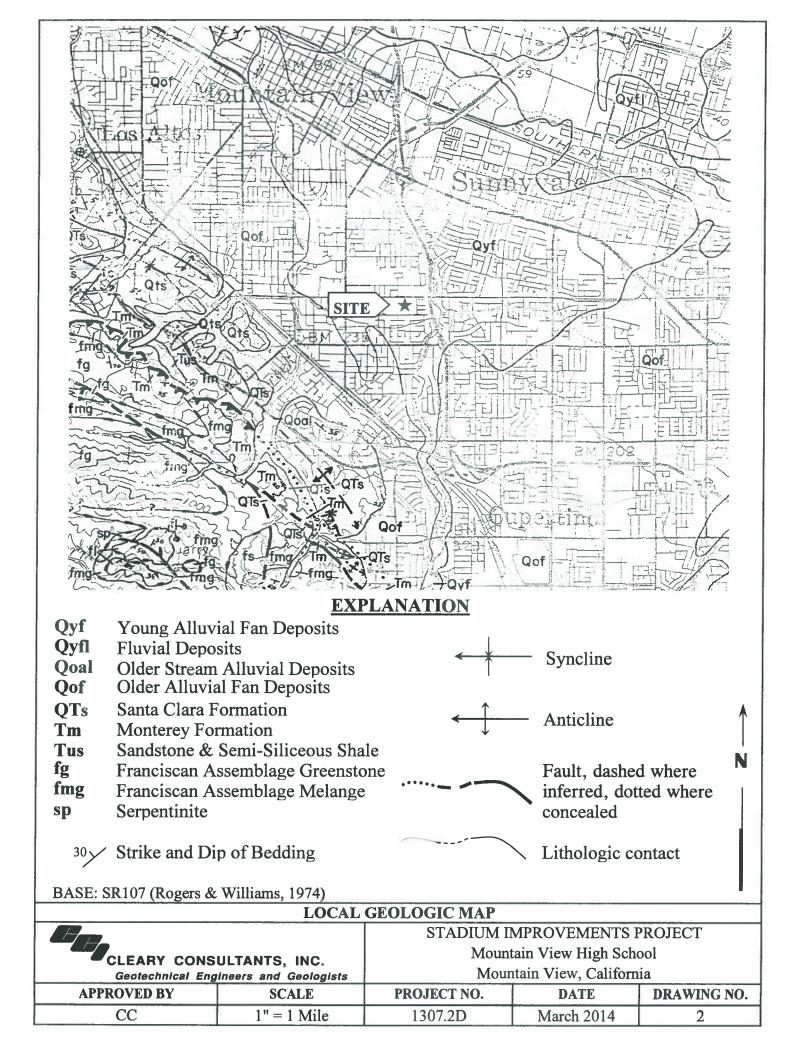
#### **LIST OF REFERENCES CONTINUED**

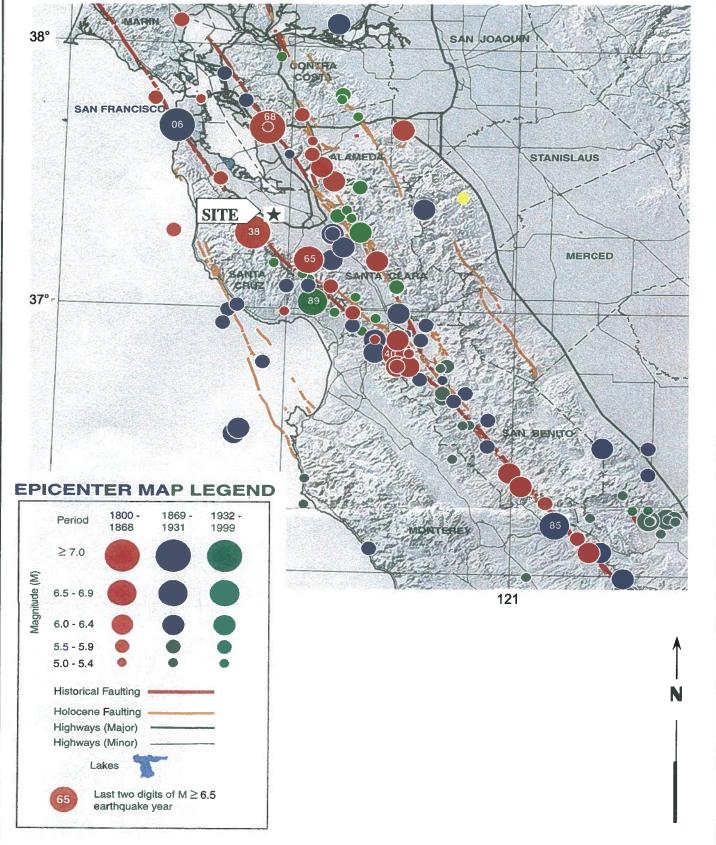
- Ishihara, Kenji, 1985, Stability of Natural Deposits During Earthquakes, In Proceedings of the 11th International Conference on Soil Mechanics and Foundation Engineering.
- Jennings, C.W., and Bryant, W.A., 2010, Fault Activity map of California: California Geologic Survey Geologic Data Map No. 6. map scale 1:750,000.
- Pradel, Daniel, Procedure to Evaluate Earthquake-Induced Settlements in Dry Sandy Soils, Journal of Geotechnical and Geoenvironmental Engineering, ASCE, April 1998, P364 368.
- Risk Engineering, EZ-FRISK Program, Version 7.61.001
- Rogers, T.H., and Williams, J.W., 1974, Potential Seismic Hazards in Santa Clara County, California: California Division of Mines and Geology, Special Report 107.
- Seed, H. Bolton, and Idriss, I.M., 1982, Ground Motions and Soil Liquefaction During Earthquakes, EERI Monograph.
- Southern California Earthquake Center, March 1999, Recommended Procedures for Implementation of DMG Special Publication 117.
- State of California, 2002, Seismic Hazard Zone Report for the Cupertino 7½' Quadrangle, Santa Clara County, CA, Seismic Hazards Zone Report 068.
- State of California Department of Conservation, 2009, Tsunami Inundation Map for Emergency Planning San Francisco Bay Area, County of Santa Clara.
- Tokimatsu, K. and Seed, H.B., Evaluation of Settlements in Sands Due to Earthquake Shaking, Journal of Geotechnical Engineering Division, ASCE, August 1987, Volume 113, pages 861 878.
- Toppozada, T. et al, 2000, Epicenters of and Areas Damaged by M>5 California Earthquakes, 1800-1999, CDMG Map Sheet 49.
- U. S. Geological Survey, 7 1/2' Cupertino Quadrangle Map.
- U.S. Geological Survey, 2008 National Seismic Hazard Maps Fault Parameters online program, http://geohazards.usgs.gov/cfusion/hazfaults search/hf search main.cfm.
- Youd, T.L., 1997, Updates in the Simplified Procedure: An Overview of NCEER Workshop in Salt Lake City on Liquefaction Resistance of Soils, Third Seismic Short Course on Evaluation and Mitigation of Earthquake Induced Liquefaction Hazards, San Francisco, CA.



BASE: U.S. Geological Survey, Cupertino 7.5' Quadrangle, Mountain View, California
SITE VICINITY MAP

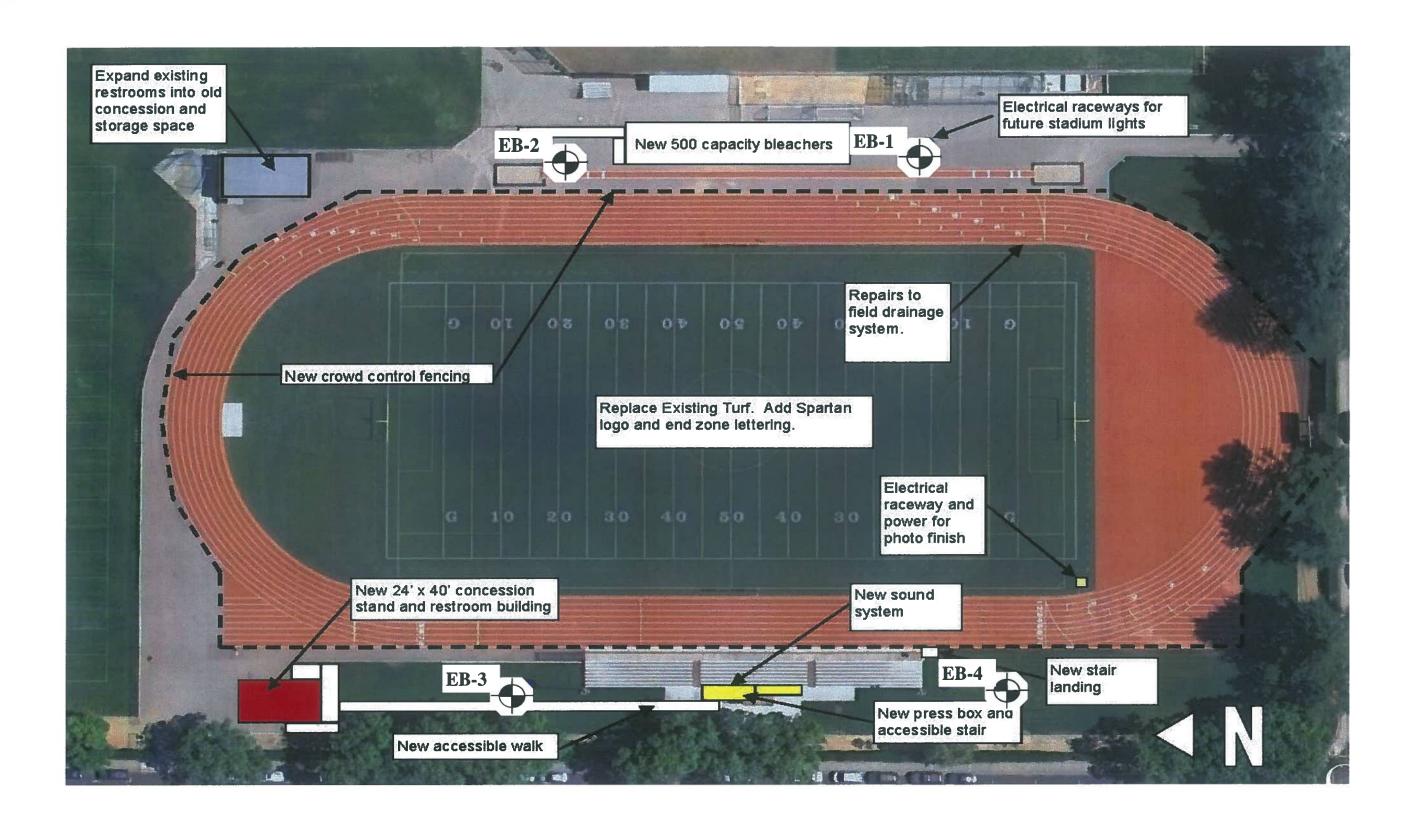
CLEARY CONSULTANTS, INC.  Geotechnical Engineers and Geologists		Moun	MPROVEMENTS I tain View High Sch ntain View, Califorr	ool
APPROVED BY	SCALE	PROJECT NO.	DATE	DRAWING NO.
GF	1" = 2000'	1307.2D	March 2014	1





BASE: CDMG Map Sheet 49; Toppozada et al, 2000. Magnitude 5.0 and greater earthquakes plotted through 1999; subsequent epicenters through 2012 plotted in yellow

#### REGIONAL EARTHQUAKE EPICENTER MAP STADIUM IMPROVEMENTS PROJECT Mountain View High School CLEARY CONSULTANTS, INC. Mountain View, California Geotechnical Engineers and Geologists **APPROVED BY** PROJECT NO. **SCALE** DRAWING NO. **DATE GF** $1" = 25 \text{ miles} \pm$ 1307.2D March 2014 3



<-- Z -----



Approximate Location of Exploratory Boring

BASE: Sugimura Finney Architects, received December 2, 2013

	5	SITE PLAN		
CLEARY CONSULTANTS, INC.  Geotechnical Engineers and Geologists		STADIUM IM	IPROVEMENTS I	PROJECT
		Mountain View High School  Mountain View, California		
APPROVED BY	SCALE	PROJECT NO.	DATE	DRAWING NO.
GF	1" = 50' ±	1307.2D	March 2014	4

	PRIMARY DIVISION	S	GROUP SYMBOL	SECONDARY DIVISION
	GRAVELS	CLEAN GRAVELS	GW	Well graded gravels, gravel-sand mixtures, little or no fines
LS ERIAL 90	MORE THAN HALF	(LESS THAN 5% FINES)	GP	Poorly graded gravels or gravel-sand mixtures, little or no fines
ARSE GRAINED SOILS THAN HALF OF MATERIAL LARGER THAN NO. 200 SIEVE SIZE	OF COARSE FRACTION IS	GRAVEL WITH	GM	Silty gravels, gravel-sand-silt mixtures, non-plastic fines
GRAINED HALF OF N ER THAN N EVE SIZE	LARGER THAN NO. 4 SIEVE	FINES	GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines
	SANDS	CLEAN SANDS	SW	Well graded sands, gravelly sands, little or no fines
COARSE MORE THAN IS LARG	MORE THAN HALF	(LESS THAN 5% FINES)	SP	Poorly graded sands or gravelly sands, little or no fines
CC MORU	OF COARSE FRACTION IS	SANDS WITH	SM	Silty sands, sand-silt mixtures, non-plastic fines
	SMALLER THAN NO. 4 SIEVE	FINES	SC	Clayey sands, sand-clay mixtures, plastic fines
S Z R Z	SILTS AND C	LAYS	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
ED SOILS HALF OF SMALLER SIEVE SIZE	LIQUID LIM		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
AINED SO HAN HALF L IS SMAL 200 SIEVE	LESS THAN	50%	OL	Organic silts and organic silty clays of low plasticity
GR E TI RIA NO.	SILTS AND C	LAYS	МН	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
FINE MORI MATE THAN I	LIQUID LIM		СН	Inorganic clays of high plasticity, fat clays
Ĺ	GREATER THA		ОН	Organic clays of medium to high plasticity, organic silts
Н	GHLY ORGANIC SOI	LS	Pt	Peat and other highly organic soils

### **UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D-2487)**

U.S. STANDARD SERIES SIEVE

**CLEAR SQUARE SIEVE OPENINGS** 

2	00 4	0 1	10 4	4. 3/	<b>'4''</b>	" 12	2"
SILTS AND CLAYS	*	SAND		GRA	VEL	COBBLES	BOULDERS
SILIS AND CLAIS	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLES	DOULDERS

#### **GRAIN SIZES**

SANDS AND GRAVELS	BLOWS/FOOT∳
VERY LOOSE	0 - 4
LOOSE	4 - 10
MEDIUM DENSE	10 - 30
DENSE	30 - 50
VERY DENSE	OVER 50

SILTS AND CLAYS	STRENGTH *	BLOWS/FOOT
VERY SOFT	0 - 1/4	0 - 2
SOFT	1/4 - 1/2	2 - 4
FIRM	1/2 - 1	4 - 8
STIFF	1 - 2	8 - 16
VERY STIFF	2 - 4	16 - 32
HARD	OVER 4	OVER 32

#### RELATIVE DENSITY

#### **CONSISTENCY**

- Number of blows of 140 pound hammer falling 30 inches to drive a 2 inch O.D. (1-3/8 inch I.D.) split barrel (ASTM D-1586).
- ★ Unconfined compressive strength in tons/sq.ft. as determined by laboratory testing or approximated by the standard penetration test (ASTM D-1586), pocket penetrometer, torvane, or visual observation.

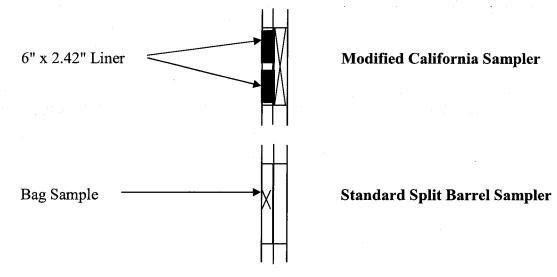
# CLEARY CONSULTANTS, INC. Geotechnical Engineers and Geologists KEY TO EXPLORATORY BORING LOGS STADIUM IMPROVEMENTS PROJECT Mountain View High School Mountain View, California PROJECT NO. DATE DRAWING NO. 1307.2D March 2014 5

#### FIELD SAMPLING PROCEDURES

The soils encountered in the borings were continuously logged in the field by our representative and described in accordance with the Unified Soil Classification System (ASTM D-2487).

Representative soil samples were obtained from the borings at selected depths appropriate to the soil investigation. All samples were returned to our laboratory for classification and testing.

In accordance with the ASTM D1586 procedure, the standard penetration resistance was obtained by dropping a 140 pound hammer through a 30-inch free fall. The 2-inch O.D. Standard split barrel sampler was driven 18 inches or to practical refusal and the number of blows were recorded for each 6-inch penetration interval. The blows per foot recorded on the boring logs represent the accumulated number of blows, or N-value, required to drive the penetration sampler the final 12 inches. In addition, 3.0 inch O.D. x 2.42 inch I.D. drive samples were obtained using a Modified California Sampler and 140 pound hammer. Blow counts for the Modified California Sampler were converted to standard penetration resistance by multiplying by 0.6. The sample type is shown on the boring logs in accordance with the designation below.



Where obtained, the shear strength of the soil samples using either Torvane (TV) or Pocket Penetrometer (PP) devices is shown on the boring logs in the far right hand column.

	SUMMARY OF F	ELD SAMPLING	<b>PROCEDURES</b>						
	STADIUM I	MPROVEMENTS I	PROJECT						
	Moun	tain View High Sch	ool						
CLEARY CONSULTANTS, INC.	Mountain View, California								
Geotechnical Engineers and Geologists	PROJECT NO.	DATE	DRAWING NO.						
	1307.2D	March 2014	6						
	`								

#### **LABORATORY TESTING PROCEDURES**

The laboratory testing program was directed toward a quantitative and qualitative evaluation of the physical and mechanical properties of the soils underlying the proposed photovoltaic sites.

The natural water content was determined on 45 samples of the materials recovered from the borings in accordance with the ASTM D2216 Test Procedure. The water contents are recorded on the boring logs at the appropriate sample depths.

Dry density determinations were performed on 27 samples to measure the unit weight of the subsurface soils in accordance with the ASTM D2937 Test Procedure. The results of the tests are shown on the boring logs at the appropriate sample depths.

Atterberg Limit determinations were performed on 10 samples of the subsurface soils in accordance with the ASTM D4318 Test Procedure to determine the range of water contents over which the materials exhibited plasticity. The Atterberg Limits are used to classify the soils in accordance with the Unified Soil Classification System and to evaluate the soil's expansion potential. The results of the tests are presented on Drawing 16 and on the boring logs at the appropriate sample depths.

The percent soil fraction passing the #4 and/or #200 sieves was determined on 35 samples of the subsurface soils, respectively, in accordance with the ASTM D1140 Test Procedure to aid in the classification of the soils. The results of the tests are shown on the boring logs at the appropriate sample depths.

Free swell tests were performed on 34 samples of the soil materials to evaluate the swelling potential of the soil. The free swell tests were performed by slowly pouring 10 ml of air dried soil passing the No. 40 sieve into a 100 ml graduated cylinder filled with approximately 90 ml of distilled water. The suspension was stirred repeatedly to ensure thorough wetting of the soil specimen. The graduated cylinder was then filled with distilled water to the 100 ml mark and allowed to settle until equilibrium was reached (approximately 24 hours). The free swell volume of the soil was then noted. The percent free swell was calculated by subtracting the initial soil volume from the free swell volume, dividing the difference by the initial volume, and multiplying the result by 100 percent. The results of the tests are presented on the boring logs at the appropriate sample depths.

Corrosion testing was performed on a composite sample of the surficial soil materials from the site. Testing included resistivity, pH, chloride and sulfate testing performed in accordance with ASTM G57, ASTM G51, Caltrans 422 (modified) and Caltrans 417(modified), respectively. The results of these tests are presented on Drawing 17 and are discussed in Section F. Soil Corrosivity.

**DRAWING NO. 7** 

EQUIPMENT 8" Di	ameter Hollow Stem Auger  Not Enc.		ON O BEDRO	יער			GGED		D 2	TD	
		<del>'                                    </del>	O REDKO(	<u> </u>			TE DR			/12/	2014
DESCRI	PTION AND CLASSIFICA	TION	<u> </u>	Д	DEPTH	ER	VITION VNCE S/FT)	ER T (%)	sstry (	ĸ.	HE (
DESCRIPTION A	ND REMARKS	COLOR	CONSIST.	SOIL TYPE	(feet)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	SHEAR	STRENGTH (KSF)
AC Hardscape: 4" AC Over 6"	AB	Dark	Medium	SC- SM							
GRAVELLY CLAYEY SAND grained sand, fine subangu gravel up to 3/4" diameter	, moist, fine to coarse llar to subrounded	Brown	Dense	SM	_ 1 _	lacksquare	10	13			
@1.0': Finer than #4 = Finer than #200 = Free Swell = 40	88% = 40% %				_ 2 _	$\Lambda$	12	11	120		
@3.0': Liquid Limit = 2 Plasticity Index = Finer than #4 = Finer than #200 = Free Swell = 30				CL	3 -		5	13			
SANDY CLAY, very moist, fir		Dark Brown	Firm			$ begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	4	16	106		
	fine to coarse silty sand 99% = 56% %				- 6 -	(	5	14			
@6.0': Liquid Limit = 2 Plasticity Index = Finer than #4 = Finer than #200 = Free Swell = 30	25% = 11% 96% = 56%			!							
Free Swell = 30	<del>%</del> 30%	Dark Yellowish Brown			8 -	17					
@9.5': Finer than #4 = Finer than #200 = Free Swell = 40	99% = 55% %				- 9 - - 10 - - 11 -		7	14	110		
CLAYEY SAND, moist, fine to grained sand, occasional fine gravel up to 5/8" diameter	o occasionally coarse ne subangular	Dark Yellowish Brown	Medium Dense	SC	- 12 - - 13 - - 13 -						
@14.5': Liquid Limit = 2 Plasticity Index = Finer than #4 = Finer than #200 = Free Swell = 40	26% = 11% = 92% = 45%				- 14		17	12			
@18.5': coarse gravel laye gravel up to 2" die Finer than #4 = Finer than #200 = Free Swell = 30	er, subangular ameter 68% = 13% %		Loose		— 17 — — 17 — — 18 —			:			
@19.5': Finer than #4 = Finer than #200 = Free Swell = 30		:			_ <sub>19</sub> _			5			
* Drilled with a B53 Truck N					20	$\mathbb{N}$	7	11	107		
THE STRATIFICATION LINES REPRES	ENT THE APPROXIMATE BOUNI	DARY BETWE						BE GRA	DUAL		
			LOG OF I								
CLEARY CONSUL	TANTS, INC.	STADIUM IMPROVEMENTS PROJECT  Mountain View High School									
Geotechnical Engine	eers and Geologists	Mountain View, California									
APPROVED BY	SCALE	PROJECT NO. DATE DRAWING NO					NO				
GF	# w w	1307	7.2D	N	March 2014	<u> </u>			8		

EQUIPMENT 8" DEPTH TO GROUNDWATER	ameter Hollow Stem Auger		ON O BEDRO	¬v		_	GGED			TD
	Not Enc. PTION AND CLASSIFICA		O BEDROO	<u>K</u>			TE DR		_	/12/2014
DESCRIPTION A		COLOR	CONSIST.	SOIL TYPE	DEPTH (feet)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	SHEAR STRENGTH (KSF)
CLAYEY SAND, moist, contin	nued	Dark Yellowish Brown	Loose	SC- CL	 _ 21 _					
GRAVELLY SAND, moist, fin sand, occasionally fine sul diameter	ne to coarse grained coangular gravel up to 1/2"	Dark Grayish Brown	Loose	SP	- 22 - - 23 -				•	
@23.5': Finer than #4 = Finer than #200 Free Swell = 10	- — — — — — –	ļ — — -	<u> </u>		23 —	XV		3		
SANDY CLAY, moist, fine to grained sand, occasionally up to 1/2" diameter		Brown	Stiff	CL	 _ 25 _		10	10 17	111 97	
@24.5': Finer than #4 = Finer than #200 : Free Swell = 10	100% = 60% = 80							:		
GRAVELLY CLAYEY SAND grained sand, fine subangu 1/2" diameter	, moist, fine to coarse ilar gravel up to	Dark Yellowish Brown	Medium Dense	SC	— 27 — — — — — 28 —					
@29.0': Finer than #4 = Finer than #200: Free Swell = 30  SANDY CLAY, moist, fine to	<u> </u>	Yellowish	Stiff	CL	_ 29 _ 		25	8 13	122	
grained sand  @29.5': Liquid Limit = 2 Plasticity Index = Finer than #4 = Finer than #200 = Free Swell = 40	•	Brown			- 30 - - 31 - 					
					- 32 - - 33 - - 34 -					
@34.5': Liquid Limit = 2 Plasticity Index = Finer than #4 = Finer than #200 = Free Swell = 30	28% = 9% = 100% = 54% %				- 35 - - 36 - - 36 -		13	15	108	
SANDY SILT, moist, fine grain	ned sand	Yellowish Brown	Stiff	ML	- 37 -  - 38 -					
@39.5': Finer than #4 = Finer than #200 = Free Swell = 0%	100% = 91%			:	— — — — — — — — — — — — — — — — — — —	$\bigvee$				
* Drilled with a B53 Truck I	Mounted Rig						13	26	95	
THE STRATIFICATION LINES REPRES	EENT THE APPROXIMATE BOUNT	OUNDARY BETWEEN SOIL TYPES AND THE TRAI						BE GRA	DUAL	
		ļ	LOG OF I		ORATOR IPROVEM					
CLEARY CONSUL	•				in View H				•	
Geotechnical Engineers and Geologists		PT 0		Mount	ain View,	Cal		\ <b>T</b>		NIC
APPROVED BY  GF	SCALE	PROJE	CT NO. 7.2D	n.	DATE March 201	<u> </u>	<del>                                     </del>	DRAV	VING 9	NU.
UI.		I 130	1.4 <b>U</b>	<u>IN</u>	raich 201	†	1		フ	

	ameter Hollow Stem Auger*									TD
DEPTH TO GROUNDWATER		DEPTH TO BEDROCK DATE DRILI						i e		/12/2014
DESCRIPTION A	PTION AND CLASSIFICAT ND REMARKS	COLOR	CONSIST.	SOIL TYPE	DEPTH (feet)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	SHEAR STRENGTH (KSF)
SANDY SILT, moist, continue	d	Yellowish Brown	Stiff	ML			<u>a</u>	0	ם	
					— 41 —				į	
CLAYEY SAND, very moist,	fine grained sand	Dark Yellowish Brown	Medium Dense	SC	- 42 -  - 43 -					
@45.0': Liquid Limit = : Plasticity Index = Finer than #4 = Finer than #200 = Free Swell = 40	29% = 13% = 96% = 47% %				44 45		23	14	114	
Bottom of Boring = 45.0'					45					
					_ 46 _					
					47 -					
					 _ 48 _					
	:				— 49 — — —		,			
					— 50 — — —					
					— 51 <b>—</b>					
					— 52 —					
					_ _ 53					
					 _ 54 _	-				
	į				 _ 55 _					
					 _ 56 _					
					 - 57 -					
					_					
					— 58 — — —					
* Drilled with a B53 Truck I	Mounted Rig				- 59 - 					
		ADV DEGREE	ENI COLL TRUE	70 A 77	60		20134437	77.77	ADVIII	
THE STRATIFICATION LINES REPRES	DENT THE APPROXIMATE BOUND		LOG OF I	EXPL		XY I	BORIN	G NO	. 1	
CLEARY CONSUL	TANTS, INC.		N	<b>l</b> ounta	in View H	Iigh	School		-	
APPROVED BY	SCALE	PROJE	CT NO.		ain View, <b>DATE</b>			DRAV	VING	NO.
GF		1307	7.2D	N	larch 201	4			10	

EQUIPMENT 8" Dia DEPTH TO GROUNDWATER	ameter Hollow Stem Auger Not Enc.		ON O BEDRO	CK			GGEI TE D	O BY RILLE	<b>ED</b> 2	TD 2/12/2014	
	PTION AND CLASSIFICA				1	<del>† – –</del>	T				
DESCRIPTION A		COLOR	CONSIST.	SOIL TYPE	DEPTH (feet)	SAMPLER	PENETRATION RESISTANCE	WATER CONTENT (%	DRY DENSITY (PCF)	SHEAR STRENGTH (KSF)	
AC Hardscape: 4" AC Over 6"	AB	Dark	Stiff	CL							
SANDY CLAY, moist, fine to occasional fine to coarse sup to 1" diameter		Brown	i		_ 1 _		11	12	:	PP > 4 5	
@1.5': Finer than #4 = Finer than #200 = Free Swell = 40	98% = 64% %	Brown			2 -	<b>.</b> /\		13	115	PP>4.5 **8.4ksf@ 5.0%strain	
					3 -	X    17	7	10			
@4.5': Finer than #4 = Finer than #200 = Free Swell = 30	96% = 55% %	<u> </u>			- 4 -  - 5 -		7	15	110		
CLAYEY SAND, moist, fine to	coarse grained sand	Brown	Loose	SC							
@6.0': Liquid Limit = 2 Plasticity Index = Finer than #4 = Finer than #200 = Free Swell = 40	24% 9% 89%				- 6 - 	X	5	11			
Free Swell = 40	~ <del>44</del> %				<u></u>	ł					
		Dark									
		Dark Yellowish Brown			- 8 −						
					F	$\square$					
60 St. 15' #4	0.00				F 9 -	<b>X</b>					
@9.5': Finer than #4 = Finer than #200 = Free Swell = 30	96% = 43%				L 10 -		8	11	105		
Free Swell $= 30$	%						,				
				İ	_ 11 _						
					_ ` _						
		<b>↓ — —</b> -	<b> </b>	<b>⊢</b> –	12 —						
GRAVELLY CLAYEY SAND grained sand, occasional fi up to 3/4" diameter	moist, fine to coarse ne subangular gravel	Dark Yellowish	Medium Dense	SC	<u> </u>						
up to 3/4" diameter	<b>o</b>	Brown			<del>-</del> 13 -			-			
					<u> </u>	$\forall$					
					□ 14 - □				ł		
@14.5': Finer than #4 = Finer than #200 = Free Swell = 30	69% - 21%				<b>├</b>	$ \mathbf{x} $	16	7			
Free Swell = 30	% 21 /0				□ 15 □			'			
@15.0': driller added wate	r				<u>├</u> _						
					<u> </u>						
GRAVELLY CLAYEY SAND, sand, fine to coarse angular gravel up to 3" diameter	fine to coarse grained to subrounded	Grayish Brown	Medium	GP	_ 17 <u>_</u>						
@19.5': Finer than #4 = Finer than #200 = Free Swell = 50			Dense		_ 18 _						
* Drilled with a B53 Truck M ** Unconfined Compressive S PP = Pocket Penetrometer Bottom of Boring = 20.0'	Mounted Rig trength				— 19 —		28		1.5-		
Bottom of Boring = 20.0' THE STRATIFICATION LINES REPRES		DABA DELLIN	EN SOIL TVD	ES ANT	20	STTT/		7	123		
THE STRATIFICATION LINES REPRES	ENT THE AFFROADVIATE BOUND	LAKI DELWE	LOG OF								
	TANTO INC				<b>IPROVEN</b>				CT		
CLEARY CONSUL  Geotechnical Engine					ain View I						
APPROVED BY	SCALE	PROJE		1710411	DATE	n View, California  DATE DRAWING NO.				NO.	
GF	·		7.2D	l	March 2014			11			

	iameter Hollow Stem Auger	*ELEVAT	ION	·		LO	GGE	D BY		TD
DEPTH TO GROUNDWATE			O BEDRO	CK		DA	TE D	RILLE	D 2	2/12/2014
DESCRI	PTION AND CLASSIFICA	TION			DEDELL	es .	G J	£ , 8	Ĕ	_ ⊭
DESCRIPTION A	ND REMARKS	COLOR	CONSIST	SOIL TYPE	DEPTH (feet)	SAMPLER	PENETRATION RESISTANCE	(BLOWS/FT) WATER CONTENT (%	DRY DENSITY (PCF)	SHEAR STRENGTH (KSF)
Irrigated Lawn: 2" Grass Over GRAVELLY CLAYEY SAND occasionally coarse graine subangular gravel up to 3,  @1.0': Liquid Limit = Plasticity Index Finer than #4 = Finer than #200 Free Swell = 50	, very moist, fine to d sand, occasional fine 4" diameter	Very Dark Brown	Loose	sc sc	- 1 2		7	15	101	
GRAVELLY CLAYEY SAND  @4.0': occasional fine st subrounded grave  @4.5': Liquid Limit = Plasticity Index = Finer than #4 = Finer than #200 Free Swell = 30	o, moist  Libangular to el up to 1/2" diameter	Dark Grayish Brown	Loose		- 3	× X	7	16	117	**1.5ksf@ 5.0%strain
@7.5': poor sample reconding the diameter  @8.5': Finer than #4 = Finer than #200  CLAYEY SAND, moist, fine that #4 = Plasticity Index = Finer than #4 = Finer than #4 = Finer than #200 = Free Swell = 30	o medium grained sand	Dark Olive Brown	Loose	SC	- 8 - - 9 - - 10 - - 11 -	×  X V 	7	10	107	
					- 12 - - 13 - - 14 - - 15 - - 16 -	X	7	10		
GRAVELLY CLAYEY SAND grained sand, fine to coars subrounded gravel up to 2  @19.5': Finer than #4 = Finer than #200 = Free Swell = 40  * Drilled with a B53 Truck 1  ** Unconfined Compressive STRATIFICATION LINES REPRES	75% = 17% % Mounted Rig Strength	Brown with Yellowish Brown Mottling	Medium Dense	SC SAND	— 17 — — 18 — — 19 — — 20		26	9 V BE CB	120	
The state of the s	ZILL THE ROADWATE BOUN.	CAKI DEI WE	LOG OF							
CLEARY CONSUL	STADIUM IMPROVEMENTS PROJECT									
APPROVED BY	SCALE	PROJE		Juni	DATE	-ui	1	DRAV	VING	NO.
GF			7.2D	N	farch 201	4	<del>                                     </del>		12	

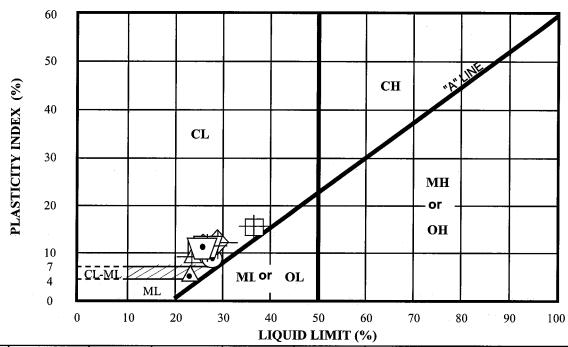
	iameter Hollow Stem Auger*					LO	GGE	D BY		TD	
DEPTH TO GROUNDWATE	R Not Enc.	DEPTH T	O BEDRO	CK		DA	TE I	RILLE	D 2	/12/	2014
DESCRI	IPTION AND CLASSIFICAT	ΓΙΟΝ				×	G G	£ 8	ΣE		F
DESCRIPTION A	AND REMARKS	COLOR	CONSIST.	SOIL TYPE	DEPTH (feet)	SAMPLER	PENETRATION RESISTANCE	(BLOWS/FT) WATER CONTENT (%)	DRY DENSITY (PCF)	SHEAR	STRENGTH (KSF)
GRAVELLY CLAYEY SAND	D, moist, continued	Brown with Yellowish Brown Mottling	Medium Dense	SC	- 21 -						
GRAVELLY CLAYEY SAND grained sand, fine to coar subrounded gravel up to 1	), moist, fine to coarse se subangular to 1 1/2" diameter	Grayish Brown	Dense	SC	— 22 — — 23 — — 24 —						
@24.5': Finer than #4 = Finer than #200 Free Swell = 30	61% = 6% 0%		·		25 _ 25 _ 26		39	5	117		
CLAYEY SANDY GRAVEL, sand, fine to coarse suban gravel up to 1 1/2" diame	moist, fine to coarse grained gular to subrounded ter	Grayish Brown	Very Dense	GC	— 27 — — — — — 28 —	<b>-</b> 17					
@29.0': Finer than #4 = Finer than #200 Free Swell = 30					— 29 — — 30 — — 31 —		30/6	5" 4	117		
GRAVELLY CLAYEY SAND grained sand, fine to coars subrounded gravel up to 1  @34.5': Finer than #4 ==		Dark Yellowish Brown	Dense	SC	- 32 - - 33 - - 34 -		27				
@34.5': Finer than #4 = Finer than #200 : Free Swell = 60	= 9% )%		– – – Very Dense		- 35 - - 36 - - 37 -			9	120		-
@38.5': increased sand an	nd clay content										
@39.0': 6" thick layer of	, ,				— 38 —						
@39.5': Finer than #4 = Finer than #200 = Free Swell = 20	92% = 31%				 - 39 -	$\bigvee$					
* Drilled with a B53 Truck l							51	17	111		
THE STRATIFICATION LINES REPRE	SENT THE APPROXIMATE BOUND	ARY BETWE	EN SOIL TYPI	ES AND	4UE THE TRANS	SITIC	N MA				
En.			LOG OF	EXPL	ORATOR	YE	BOR	ING NO	). 3		
CLEARY CONSU	I TANTS INC				PROVEM				T		
	eers and Geologists				in View H ain View,						
APPROVED BY	SCALE	PROJE		· · · · · · · · · · · · · · · · · · ·	DATE	-ai	1011		WING	NO.	
GF		1307		N	1arch 2014	1			13		

EQUIPMENT 8" Di	ameter Hollow Stem Auger*												
DEPTH TO GROUNDWATER			O BEDRO	CK			1-7			/12/2	2014		
DESCRIPTION A	PTION AND CLASSIFICAT ND REMARKS	COLOR	CONSIST.	SOIL TYPE	DEPTH (feet)	SAMPLER	PENETRATION RESISTANCE (BLOWS/FT)	WATER CONTENT (%)	DRY DENSITY (PCF)	SHEAR	KSF)		
GRAVELLY CLAYEY SAND	, moist, continued	Dark Yellowish Brown	Very Dense	SC	- 41 - - 42 - 42 -								
@44.0': Finer than #4 = Finer than #200 = Free Swell = 20	64% = 11%				— 43 — — — — — 44 —		30/5"	10	121				
* Drilled with a B53 Truck M					- 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60								
				60									
THE STRATIFICATION LINES REPRES	ENT THE APPROXIMATE BOUND		EN SOIL TYPE LOG OF 1										
	,				IPROVEM								
CLEARY CONSUL			N	1ounta	in View H	ligh	School						
Geotechnical Engine		DE 0 ***		Mount	ain View,	Cal		<b></b>	785 -	N. C.			
APPROVED BY	SCALE	PROJE	JECT NO. DATE				DRAWING N						

 APPROVED BY
 SCALE
 PROJECT NO.
 DATE
 DRAWING NO.

 GF
 --- 1307.2D
 March 2014
 14

EQUIPMENT 8" Di	ameter Hollow Stem Auger*	ELEVATI	ON			LO	GGI	ΞD	BY		TD	
DEPTH TO GROUNDWATER			O BEDRO	CK					ILLE	D 2		2014
DESCRI	PTION AND CLASSIFICA	TION				~	Z H	٦.	(%)	Ł		Ξ
DESCRIPTION A	ND REMARKS	COLOR	CONSIST.	SOIL TYPE	DEPTH (feet)	SAMPLER	PENETRATION RESISTANCE	(BLOWS/FT)	WATER CONTENT (	DRY DENSITY (PCF)	SHEAR	STRENGTH (KSF)
Irrigated Lawn: 2" Grass Over	4" Topsoil	Dark Brown	Loose	SC								
GRAVELLY CLAYEY SAND medium grained sand	, very moist, fine to	BIOWII			_ 1 _	$oldsymbol{\bot} V$						
1				ĺ	L	۸.	8					
@1.5': Finer than #4 = Finer than #200 = Free Swell = 50	= 48 % 0%				<u> </u>	$+$ \			15	114		
					<u> </u>							
		ļ		<u> </u>	3 -	X,	3		16			
SANDY CLAY, very moist, fin	ne to medium grained sand	Dark Brown	Firm	CL	- 4 -	$\mathbb{V}$						
@3.5': fine grained sand				ļ		-\	4	.	10	0.4		
@4.5': Finer than #4 = Finer than #200 = Free Swell = 30	99%	Dorle			<u></u> 5 −	4			18	94		
Free Swell = 30	_ <i>39 %</i>  %	Dark Yellowish Brown			$\vdash$ $\dashv$							
		Brown			<u></u> 6 −	X	6	,	21			
					├ <i>,</i>			ŀ				
		<u> </u>	L	<u> </u>								
GRAVELLY SILTY SAND, m sand, fine to occasionally of to subrounded gravel up to	oist, fine to coarse grained	Dark Yellowish	Loose	SM		ĺ						
to subrounded gravel up to	1" diameter	Brown	<u> </u>		$\bot$ $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	_				·		
@9.0': Finer than #4 =	74%				9 -	-V						
@9.0': Finer than #4 = Finer than #200 = Free Swell = 10	= 14% %					<b>-</b> ∖	4	•	8	106		
SANDY CLAY, very moist, fir	o grained and	D		CL	<u> </u>	_/_\						
SANDI CLAI, Very moist, in	ie granieu sanu	Brown		CL								
1.0					— 11 —							
					$\begin{bmatrix} \\ \\ \end{bmatrix}$ 13 $\begin{bmatrix} \\ \end{bmatrix}$							
					<u> </u>			l				
					$\vdash$ $\dashv$		8	İ	.			
					<b>−</b> 15 <b>−</b>	1		1	13			
GRAVELLY CLAYEY SAND.	moist, fine to coarse	 Brown	 Dense	SC	— 16 <b>—</b>							
GRAVELLY CLAYEY SAND, grained sand, fine to coars subrounded gravel up to 1	e subangular to 1/2" diameter	210 1111	Denie									
					<u> </u>	$\mathbb{N}$						
					 18		31	İ				
@18.0': Finer than #4 = Finer than #200 = Free Swell = 40	57% = 12%				_ ' _	$\Lambda$	31		8	119		
Free Swell = 40				<b>—</b> 19 <b>—</b>								
* Drilled with a B53 Truck M Bottom of Boring = 20.0'				$ \rightarrow$		35		4				
THE STRATIFICATION LINES REPRES												
				LOG OF EXPLORATORY BORING NO. 4 STADIUM IMPROVEMENTS PROJECT								
CLEARY CONSULTANTS, INC.  Geotechnical Engineers and Geologists		Mountain V				n View High School						
APPROVED BY	SCALE	PROJE		Mount	ain View, <b>DATE</b>	Cal	1fori		RAV	VING	NO	
GF		1307		N	March 2014	4	+	L		15	110	



		T			1			
			NATURAL			PASSING		UNIFIED
KEY	BORING	SAMPLE	WATER	LIQUID	PLASTICITY	NO.	LIQUIDITY	SOIL
SYMBOL	NO.	DEPTH	CONTENT	LIMIT	INDEX	200 SIEVE	INDEX	CLASSIFICATION
		(feet)	%	%	%	%		SYMBOL
_	, .							
$\triangle$	1	3.0	13	23	5	42	-1.0	SC - SM*
	1	6.0	. 14	25	11	56	0.0	CL
	_							
•	1	14.5	12	26	11	45	-0.3	SC*
		20.5	10	26		<b>5</b> 0	0.0	GT 66
•	1	29.5	13	26	11	50	-0.2	CL - SC
	1	34.5	15	28	9	. E1	0.4	CT
	1	34.3	13	20	9	54	-0.4	CL
	1	44.5	14	29	13	47	-0.2	SC*
	1	77.5	17	29	15	7 /	-0.2	SC.
	2	6.0	11	24	9	44	-0.4	SC*
4	~	0.0		2.			0	50
++	3	1.0	15	37	16	29	-0.4	SC*
'+'	_				- "	_,	• • • • • • • • • • • • • • • • • • • •	~ ~
🔷	3	4.5	12	29	12	38	-0.4	SC*
*								-
+ + -	3	9.5	14	27	11	37	-0.2	SC*
			:					

\*Classified as coarse-grained soil since less than 50% passes #200 sieve



## PLASTICITY CHART

STADIUM IMPROVEMENTS
Mountain View High School
Mountain View, California

	,	
PROJECT NO.	DATE	DRAWING NO.
1307.2D	March 2014	16

			Soil Visual Description		Dark Brown Sandy CLAY										
	PJ 1307.2D	Moisture	At Test	ASTI	14.1										
		Sulfide	Qualitative by Lead	٦,	1										
	Checked: Proj. No:	ORP	(Redox)	_	22										-
ary			(Rec E <sub>H</sub> (mv)		493										
nmm	r: PJ nents	Hd		7 ASTM G51	7.8										
ests S	Tested By:	Sulfate	Dry Wt.	7 ASTM D432	0.0088										
vity To	-IS - Stadiu	Š	mg/kg Dry Wt.	ASTM D432	88										
Corrosivity Tests Summary	3/5/2014 Tested By: Mountain View HS - Stadium Improvements	Chloride	mg/kg Dry Wt.	ASTM D4327 ASTM D4327 ASTM D4327	56			:							
ပ		hm-cm)	Sat.	ASTM G57	2,287										
7	Date: _ Project: _	Resistivity @ 15.5 °C (Ohm-cm)	MIII	Cal 643					·						
	lnc.		As nec.	ASTM G57	•										
	018-707 Cleary Consultants, Inc.	01-		Depth, ft.	0.5-4.0										
(COPER)	Cleary Cor	Sample Location or ID		Sample, No.	1								į		
	CTL # Client: Remarks:	San		Boring	EB-1,2,3,4			1 Or PARAMETER							

#### APPENDIX A

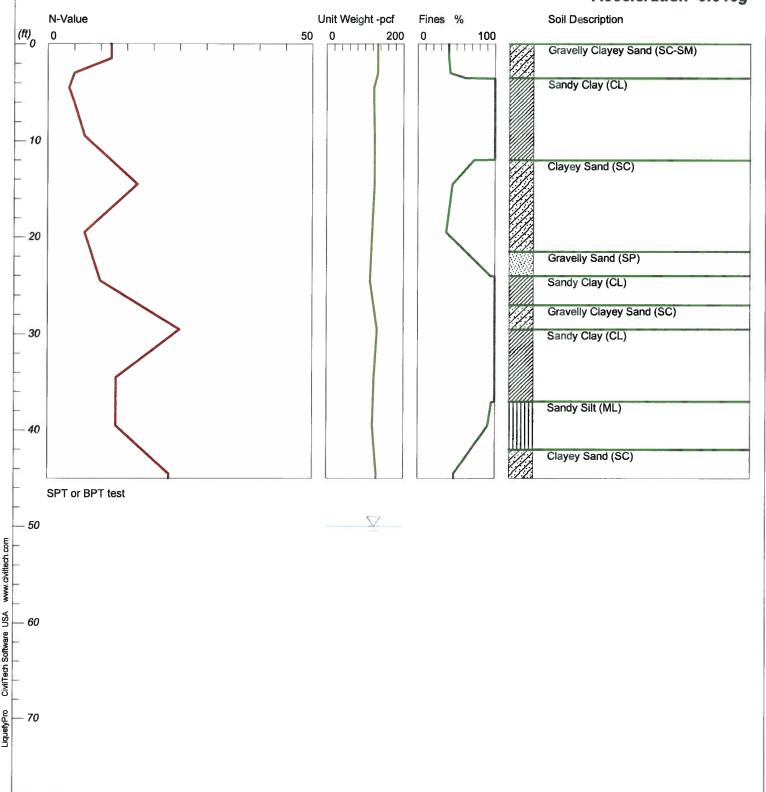
Mountain View High School
Stadium Improvements
Liquefaction and Dry Settlement Analyses and Calculations,
EB-1 and EB-3, Drilled February 12, 2014

# **LIQUEFACTION ANALYSIS**

## **Mountain View HS School Stadium Improvements**

Hole No.=EB-1 Water Depth=50 ft

Magnitude=8.5
Acceleration=0.646g

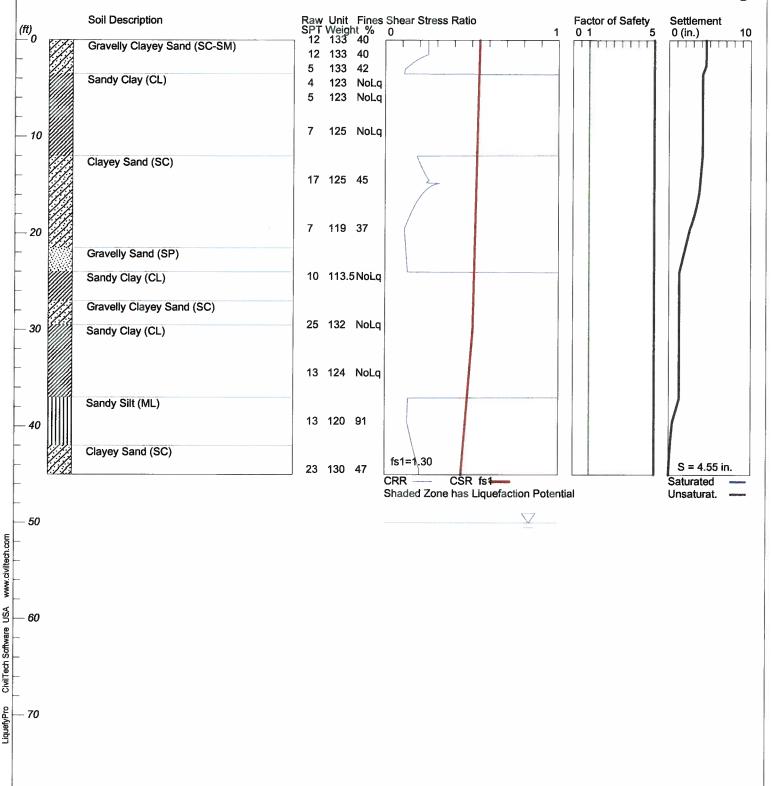


# **LIQUEFACTION ANALYSIS**

## **Mountain View HS School Stadium Improvements**

Hole No.=EB-1 Water Depth=50 ft

Magnitude=8.5 Acceleration=0.646g



#### Mtn View HS Stadium EB1.sum

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### LIQUEFACTION ANALYSIS SUMMARY

www.civiltechsoftware.com

Copyright by CivilTech Software \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\* Font: Courier New, Regular, Size 8 is recommended for this report. Licensed to , 3/25/2014 4:07:21 PM Input File Name: \\GRANT-PC\Grant Rough Drafts\Liquefy Pro Data Files\Mtn View HS Stadium EB1.liq Title: Mountain View HS School Stadium Improvements Subtitle: Surface Elev.= Hole No.=EB-1 Depth of Hole= 45.00 ft Water Table during Earthquake= 50.00 ft Water Table during In-Situ Testing= 50.00 ft Max. Acceleration= 0.65 g Earthquake Magnitude= 8.50 Input Data: Surface Elev.= Hole No.=EB-1 Depth of Hole=45.00 ft Water Table during Earthquake= 50.00 ft Water Table during In-Situ Testing= 50.00 ft Max. Acceleration=0.65 g Earthquake Magnitude=8.50 No-Liquefiable Soils: CL, OL are Non-Liq. Soil 1. SPT or BPT Calculation. 2. Settlement Analysis Method: Tokimatsu, M-correction
3. Fines Correction for Liquefaction: Idriss/Seed
4. Fine Correction for Settlement: During Liquefaction\*
5. Settlement Calculation in: All zones\* 6. Hammer Energy Ratio, 7. Borehole Diameter, Ce = 1.25Cb=1Cs=18. Sampling Method, 9. User request factor of safety (apply to CSR), User= 1.3 Plot one CSR curve (fs1=User) 10. Use Curve Smoothing: Yes\*

In-Situ	Test	Data:
Danth	CDT	~~

\* Recommended Options

Depth ft	SPT	gamma pcf	Fines %
0.00	12.00	133.00	40.00
1.50	12.00	133.00	40.00
3.00	5.00	133.00	42.00
4.50	4.00	123.00	NoLiq
6.00	5.00	123.00	NoLiq
9.50	7.00	125.00	NoLiq
14.50	17.00	125.00	45.0Ó
19.50	7.00	119.00	37.00
24.50	10.00	113.50	NoLia

#### Mtn View HS Stadium EB1.sum

29.50	25.00	132.00	NoLiq	
34.50	13.00	124.00	NoLia	
39.50	13.00		91.00	
44.50	23.00	130.00	47.00	

#### Output Results:

Settlement of Saturated Sands=0.00 in.
Settlement of Unsaturated Sands=4.55 in.
Total Settlement of Saturated and Unsaturated Sands=4.55 in.
Differential Settlement=2.274 to 3.002 in.

Depth ft	CRRM	CSRfs	F.S.	S_sat. in.	S_dry in.	S_all in.
0.00 0.05 0.10 0.15 0.25 0.35 0.45 0.65 0.65 0.65 0.75 0.85 0.95 0.05 0.05 0.05 0.15 0.15 0.15 0.15 0.1	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55	5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4.555 4.555 4.555 4.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555 5.555	4.55 4.55 4.55 5.5 5.5 5.5 5.5 5.5 5.5 5

		M <sup>.</sup>	tn View	HS Stadi	um EB1.sı	Jm
2.40	0.16	0.54	5.00	0.00	4.53	4.53
2.45	0.15	0.54	5.00	0.00	4.53	4.53
2.50	0.15	0.54	5.00	0.00	4.52	4.52
2.55	0.15	0.54	5.00	0.00	4.52	4.52
2.60	0.14	0.54	5.00	0.00	4.51	4.51
2.65	0.14	0.54	5.00	0.00	4.50	4.50
2.70	0.13	0.54	5.00	0.00	4.49	4.49
2.75	0.13	0.54	5.00	0.00	4.47	4.47
2.80	0.13	0.54	5.00	0.00	4.45	4.45
2.85	0.12	0.54	5.00	0.00	4.43	4.43
2.90	0.12	0.54	5.00	0.00	4.41	4.41
2.95	0.12	0.54	5.00	0.00	4.39	4.39
3.00 3.05	$\substack{0.11\\0.11}$	0.54 0.54	5.00 5.00	0.00	4.37	4.37
3.10	0.11	0.54	5.00	$0.00 \\ 0.00$	4.35 4.32	4.35 4.32
3.15	$0.11 \\ 0.11$	0.54	5.00	0.00	4.30	4.30
3.20	$0.11 \\ 0.11$	0.54	5.00	0.00	4.28	4.28
3.25	0.11	0.54	5.00	0.00	4.26	4.26
3.30	0.11	0.54	5.00	0.00	4.23	4.23
3.35	0.11	0.54	5.00	0.00	$4.2\bar{1}$	4.21
3.40	0.11	0.54	5.00	0.00	4.19	4.19
3.45	0.11	0.54	5.00	0.00	4.16	4.16
3.50	0.11	0.54	5.00	0.00	4.14	4.14
3.55	2.00	0.54	5.00	0.00	4.12	4.12
3.60	2.00	0.54	5.00	0.00	4.12	4.12
3.65	2.00	0.54	5.00	0.00	4.12	4.12
3.70 3.75	2.00 2.00	0.54 0.54	5.00 5.00	$0.00 \\ 0.00$	4.12 4.12	4.12 4.12
3.80	2.00	0.54	5.00	0.00	4.12	4.12
3.85	2.00	0.54	5.00	0.00	4.12	4.12
3.90	2.00	0.54	5.00	0.00	4.12	4.12
3.95	2.00	0.54	5.00	0.00	4.12	4.12
4.00	2.00	0.54	5.00	0.00	4.12	4.12
4.05	2.00	0.54	5.00	0.00	4.12	4.12
4.10	2.00	0.54	5.00	0.00	4.12	4.12
4.15	2.00	0.54	5.00	0.00	4.12	4.12
4.20	2.00	0.54	5.00	0.00	4.12	4.12
4.25 4.30	2.00	0.54	5.00	0.00	4.12	4.12
4.35	2.00 2.00	0.54 0.54	5.00 5.00	0.00 0.00	4.12 4.12	4.12 4.12
4.40	2.00	0.54	5.00	0.00	4.12	4.12
4.45	2.00	0.54	5.00	0.00	4.12	4.12
4.50	2.00	0.54	5.00	0.00	4.12	4.12
4.55	2.00	0.54	5.00	0.00	4.12	4.12
4.60	2.00	0.54	5.00	0.00	4.12	4.12
4.65	2.00	0.54	5.00	0.00	4.12	4.12
4.70	2.00	0.54	5.00	0.00	4.12	4.12
4.75	2.00	0.54	5.00	0.00	4.12	4.12
4.80	2.00	0.54	5.00	0.00	4.12	4.12
4.85	2.00	0.54	5.00	0.00	4.12	4.12
4.90	2.00	0.54	5.00	0.00	4.12	4.12
4.95 5.00	2.00 2.00	0.54 0.54	5.00 5.00	$0.00 \\ 0.00$	4.12 4.12	4.12 4.12
5.05	2.00	0.54	5.00	0.00	4.12	4.12
5.10	2.00	0.54	5.00	0.00	4.12	4.12
5.15	2.00	0.54	5.00	0.00	4.12	4.12
5.20	2.00	0.54	5.00	0.00	4.12	4.12
5.25	2.00	0.54	5.00	0.00	4.12	4.12
5.30	2.00	0.54	5.00	0.00	4.12	4.12
5.35	2.00	0.54	5.00	0.00	4.12	4.12
5.40	2.00	0.54	5.00	0.00	4.12	4.12
5.45	2.00	0.54	5.00	0.00	4.12	4.12
5.50	2.00	0.54	5.00	0.00	4.12	4.12

		ĺ	Mtn View	HS Stadi	um EB1.sı	ım
5.55	2.00	0.54	5.00	0.00	4.12	4.12
5.60 5.65	2.00	0.54	5.00	0.00	4.12	4.12
5.70	2.00 2.00	0.54 0.54	5.00 5.00	$0.00 \\ 0.00$	4.12 4.12	4.12 4.12
5.75	2.00	0.54	5.00	0.00	4.12	4.12
5.80	2.00	0.54	5.00	0.00	4.12	4.12
5.85	2.00	0.54	5.00	0.00	4.12	4.12
5.90 5.95	2.00 2.00	0.54 0.54	5.00 5.00	$0.00 \\ 0.00$	4.12 4.12	4.12 4.12
6.00	2.00	0.54	5.00	0.00	4.12	4.12
6.05	2.00	0.54	5.00	0.00	4.12	4.12
6.10	2.00	0.54	5.00	0.00	4.12	4.12
6.15 6.20	2.00 2.00	0.54 0.54	5.00 5.00	$0.00 \\ 0.00$	4.12 4.12	4.12 4.12
6.25	2.00	0.54	5.00	0.00	4.12	4.12
6.30	2.00	0.54	5.00	0.00	4.12	4.12
6.35	2.00	0.54	5.00	0.00	4.12	4.12
6.40 6.45	2.00 2.00	0.54 0.54	5.00 5.00	$0.00 \\ 0.00$	4.12 4.12	4.12 4.12
6.50	2.00	0.54	5.00	0.00	4.12	4.12
6.55	2.00	0.54	5.00	0.00	4.12	4.12
6.60 6.65	2.00 2.00	0.54 0.54	5.00 5.00	0.00	4.12	4.12 4.12
6.70	2.00	0.54	5.00	$0.00 \\ 0.00$	4.12 4.12	4.12
6.75	2.00	0.54	5.00	0.00	4.12	4.12
6.80	2.00	0.54	5.00	0.00	4.12	4.12
6.85 6.90	2.00 2.00	0.54 0.54	5.00 5.00	$0.00 \\ 0.00$	4.12 4.12	4.12 4.12
6.95	2.00	0.54	5.00	0.00	4.12	4.12
7.00	2.00	0.54	5.00	0.00	4.12	4.12
7.05	2.00	0.54	5.00	0.00	4.12	4.12
7.10 7.15	2.00 2.00	0.54 0.54	5.00 5.00	0.00 0.00	4.12 4.12	4.12 4.12
7.20	2.00	0.54	5.00	0.00	4.12	4.12
7.25	2.00	0.54	5.00	0.00	4.12	4.12
7.30 7.35	2.00 2.00	0.54 0.54	5.00 5.00	0.00 0.00	4.12 4.12	4.12 4.12
7.40	2.00	0.54	5.00	0.00	4.12	4.12
7.45	2.00	0.54	5.00	0.00	4.12	4.12
7.50	2.00	0.54	5.00	0.00	4.12	4.12
7.55 7.60	2.00 2.00	0.54 0.54	5.00 5.00	0.00 0.00	4.12 4.12	4.12 4.12
7.65	2.00	0.54	5.00	0.00	4.12	4.12
7.70	2.00	0.54	5.00	0.00	4.12	4.12
7.75 7.80	2.00 2.00	0.54 0.54	5.00 5.00	0.00 0.00	4.12 4.12	4.12 4.12
7.85	2.00	0.54	5.00	0.00	4.12	4.12
7.90	2.00	0.54	5.00	0.00	4.12	4.12
7.95	2.00	0.54	5.00	0.00	4.12	4.12
8.00 8.05	2.00 2.00	0.54 0.54	5.00 5.00	0.00 0.00	4.12 4.12	4.12 4.12
8.10	2.00	0.54	5.00	0.00	4.12	4.12
8.15	2.00	0.54	5.00	0.00	4.12	4.12
8.20 8.25	2.00	0.54	5.00	0.00	4.12	4.12
8.30	2.00 2.00	0.54 0.54	5.00 5.00	0.00 0.00	4.12 4.12	4.12 4.12
8.35	2.00	0.54	5.00	0.00	4.12	4.12
8.40	2.00	0.54	5.00	0.00	4.12	4.12
8.45 8.50	2.00 2.00	0.54 0.54	5.00 5.00	$0.00 \\ 0.00$	4.12 4.12	4.12 4.12
8.55	2.00	0.53	5.00	0.00	4.12	4.12
8.60	2.00	0.53	5.00	0.00	4.12	4.12
8.65	2.00	0.53	5.00	0.00	4.12	4.12

Mtn View Hs Stadium EB1.sum				Mtn View	HC Stadi	um ER1 ci	ım
8.75         2.00         0.53         5.00         0.00         4.12         4.12           8.85         2.00         0.53         5.00         0.00         4.12         4.12           8.90         2.00         0.53         5.00         0.00         4.12         4.12           9.00         2.00         0.53         5.00         0.00         4.12         4.12           9.05         2.00         0.53         5.00         0.00         4.12         4.12           9.15         2.00         0.53         5.00         0.00         4.12         4.12           9.15         2.00         0.53         5.00         0.00         4.12         4.12           9.20         2.00         0.53         5.00         0.00         4.12         4.12           9.25         2.00         0.53         5.00         0.00         4.12         4.12           9.35         2.00         0.53         5.00         0.00         4.12         4.12           9.35         2.00         0.53         5.00         0.00         4.12         4.12           9.45         2.00         0.53         5.00         0.00         4.12	8 70	2 00					
8.80       2.00       0.53       5.00       0.00       4.12       4.12         8.85       2.00       0.53       5.00       0.00       4.12       4.12         8.95       2.00       0.53       5.00       0.00       4.12       4.12         9.05       2.00       0.53       5.00       0.00       4.12       4.12         9.10       2.00       0.53       5.00       0.00       4.12       4.12         9.10       2.00       0.53       5.00       0.00       4.12       4.12         9.20       2.00       0.53       5.00       0.00       4.12       4.12         9.25       2.00       0.53       5.00       0.00       4.12       4.12         9.35       2.00       0.53       5.00       0.00       4.12       4.12         9.35       2.00       0.53       5.00       0.00       4.12       4.12         9.40       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.50       2.00       0.53       5.00       0.00       4.12 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1 12</td>							1 12
8.85       2.00       0.53       5.00       0.00       4.12       4.12         8.95       2.00       0.53       5.00       0.00       4.12       4.12         9.00       2.00       0.53       5.00       0.00       4.12       4.12         9.05       2.00       0.53       5.00       0.00       4.12       4.12         9.15       2.00       0.53       5.00       0.00       4.12       4.12         9.20       2.00       0.53       5.00       0.00       4.12       4.12         9.25       2.00       0.53       5.00       0.00       4.12       4.12         9.35       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.55       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.55       2.00       0.53       5.00       0.00       4.12 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
8.90       2.00       0.53       5.00       0.00       4.12       4.12         9.00       2.00       0.53       5.00       0.00       4.12       4.12         9.05       2.00       0.53       5.00       0.00       4.12       4.12         9.10       2.00       0.53       5.00       0.00       4.12       4.12         9.15       2.00       0.53       5.00       0.00       4.12       4.12         9.25       2.00       0.53       5.00       0.00       4.12       4.12         9.35       2.00       0.53       5.00       0.00       4.12       4.12         9.40       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.50       2.00       0.53       5.00       0.00       4.12       4.12         9.60       2.00       0.53       5.00       0.00       4.12 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
8.95       2.00       0.53       5.00       0.00       4.12       4.12         9.05       2.00       0.53       5.00       0.00       4.12       4.12         9.15       2.00       0.53       5.00       0.00       4.12       4.12         9.15       2.00       0.53       5.00       0.00       4.12       4.12         9.20       2.00       0.53       5.00       0.00       4.12       4.12         9.30       2.00       0.53       5.00       0.00       4.12       4.12         9.35       2.00       0.53       5.00       0.00       4.12       4.12         9.40       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.55       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
9.00         2.00         0.53         5.00         0.00         4.12         4.12           9.05         2.00         0.53         5.00         0.00         4.12         4.12           9.10         2.00         0.53         5.00         0.00         4.12         4.12           9.15         2.00         0.53         5.00         0.00         4.12         4.12           9.20         2.00         0.53         5.00         0.00         4.12         4.12           9.35         2.00         0.53         5.00         0.00         4.12         4.12           9.45         2.00         0.53         5.00         0.00         4.12         4.12           9.45         2.00         0.53         5.00         0.00         4.12         4.12           9.50         2.00         0.53         5.00         0.00         4.12         4.12           9.55         2.00         0.53         5.00         0.00         4.12         4.12           9.65         2.00         0.53         5.00         0.00         4.12         4.12           9.65         2.00         0.53         5.00         0.00         4.12							
9.05       2.00       0.53       5.00       0.00       4.12       4.12         9.15       2.00       0.53       5.00       0.00       4.12       4.12         9.20       2.00       0.53       5.00       0.00       4.12       4.12         9.25       2.00       0.53       5.00       0.00       4.12       4.12         9.35       2.00       0.53       5.00       0.00       4.12       4.12         9.30       2.00       0.53       5.00       0.00       4.12       4.12         9.40       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.50       2.00       0.53       5.00       0.00       4.12       4.12         9.55       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12       4.12         9.75       2.00       0.53       5.00       0.00       4.12 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
9.10       2.00       0.53       5.00       0.00       4.12       4.12         9.15       2.00       0.53       5.00       0.00       4.12       4.12         9.25       2.00       0.53       5.00       0.00       4.12       4.12         9.35       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.55       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.55       2.00       0.53       5.00       0.00       4.12       4.12         9.60       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12       4.12         9.75       2.00       0.53       5.00       0.00       4.12       4.12         9.75       2.00       0.53       5.00       0.00       4.12 <td></td> <td></td> <td>0.55</td> <td></td> <td></td> <td></td> <td></td>			0.55				
9.15       2.00       0.53       5.00       0.00       4.12       4.12         9.25       2.00       0.53       5.00       0.00       4.12       4.12         9.35       2.00       0.53       5.00       0.00       4.12       4.12         9.35       2.00       0.53       5.00       0.00       4.12       4.12         9.40       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.50       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12       4.12         9.70       2.00       0.53       5.00       0.00       4.12       4.12         9.80       2.00       0.53       5.00       0.00       4.12 <td></td> <td></td> <td>0.53</td> <td></td> <td></td> <td></td> <td></td>			0.53				
9.20       2.00       0.53       5.00       0.00       4.12       4.12         9.30       2.00       0.53       5.00       0.00       4.12       4.12         9.35       2.00       0.53       5.00       0.00       4.12       4.12         9.40       2.00       0.53       5.00       0.00       4.12       4.12         9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.55       2.00       0.53       5.00       0.00       4.12       4.12         9.55       2.00       0.53       5.00       0.00       4.12       4.12         9.60       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12       4.12         9.70       2.00       0.53       5.00       0.00       4.12       4.12         9.85       2.00       0.53       5.00       0.00       4.12       4.12         9.85       2.00       0.53       5.00       0.00       4.12       4.12         9.85       2.00       0.53       5.00       0.00       4.12 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
9.25			0.55				
9.30	9.20		0.53	5.00			
9.45	9.25		0.53			4.12	
9.40       2.00       0.53       5.00       0.00       4.12       4.12         9.50       2.00       0.53       5.00       0.00       4.12       4.12         9.55       2.00       0.53       5.00       0.00       4.12       4.12         9.60       2.00       0.53       5.00       0.00       4.12       4.12         9.70       2.00       0.53       5.00       0.00       4.12       4.12         9.75       2.00       0.53       5.00       0.00       4.12       4.12         9.80       2.00       0.53       5.00       0.00       4.12       4.12         9.85       2.00       0.53       5.00       0.00       4.12       4.12         9.95       2.00       0.53       5.00       0.00       4.12       4.12         9.95       2.00       0.53       5.00       0.00       4.12       4.12         10.00       2.00       0.53       5.00       0.00       4.12       4.12         10.10       2.00       0.53       5.00       0.00       4.12       4.12         10.10       2.00       0.53       5.00       0.00       4.12		2.00	0.53				4.12
9.45       2.00       0.53       5.00       0.00       4.12       4.12         9.50       2.00       0.53       5.00       0.00       4.12       4.12         9.60       2.00       0.53       5.00       0.00       4.12       4.12         9.65       2.00       0.53       5.00       0.00       4.12       4.12         9.75       2.00       0.53       5.00       0.00       4.12       4.12         9.85       2.00       0.53       5.00       0.00       4.12       4.12         9.85       2.00       0.53       5.00       0.00       4.12       4.12         9.95       2.00       0.53       5.00       0.00       4.12       4.12         9.95       2.00       0.53       5.00       0.00       4.12       4.12         10.00       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.01       2.00       0.53       5.00       0.00       4.12       4.12         10.15       2.00       0.53       5.00       0.00       4.1			0.53				4.12
9,50         2,00         0,53         5,00         0,00         4,12         4,12           9,60         2,00         0,53         5,00         0,00         4,12         4,12           9,65         2,00         0,53         5,00         0,00         4,12         4,12           9,70         2,00         0,53         5,00         0,00         4,12         4,12           9,75         2,00         0,53         5,00         0,00         4,12         4,12           9,80         2,00         0,53         5,00         0,00         4,12         4,12           9,85         2,00         0,53         5,00         0,00         4,12         4,12           9,95         2,00         0,53         5,00         0,00         4,12         4,12           10,05         2,00         0,53         5,00         0,00         4,12         4,12           10,05         2,00         0,53         5,00         0,00         4,12         4,12           10,05         2,00         0,53         5,00         0,00         4,12         4,12           10,20         2,00         0,53         5,00         0,00         4,12 </td <td></td> <td></td> <td>0.53</td> <td></td> <td></td> <td></td> <td></td>			0.53				
9,55       2,00       0,53       5,00       0,00       4,12       4,12         9,65       2,00       0,53       5,00       0,00       4,12       4,12         9,70       2,00       0,53       5,00       0,00       4,12       4,12         9,75       2,00       0,53       5,00       0,00       4,12       4,12         9,80       2,00       0,53       5,00       0,00       4,12       4,12         9,85       2,00       0,53       5,00       0,00       4,12       4,12         9,90       2,00       0,53       5,00       0,00       4,12       4,12         9,95       2,00       0,53       5,00       0,00       4,12       4,12         10,00       2,00       0,53       5,00       0,00       4,12       4,12         10,10       2,00       0,53       5,00       0,00       4,12       4,12         10,11       2,00       0,53       5,00       0,00       4,12       4,12         10,15       2,00       0,53       5,00       0,00       4,12       4,12         10,25       2,00       0,53       5,00       0,00       4,		2.00	0.53				4.12
9.60         2.00         0.53         5.00         0.00         4.12         4.12           9.70         2.00         0.53         5.00         0.00         4.12         4.12           9.75         2.00         0.53         5.00         0.00         4.12         4.12           9.80         2.00         0.53         5.00         0.00         4.12         4.12           9.85         2.00         0.53         5.00         0.00         4.12         4.12           9.95         2.00         0.53         5.00         0.00         4.12         4.12           9.95         2.00         0.53         5.00         0.00         4.12         4.12           10.05         2.00         0.53         5.00         0.00         4.12         4.12           10.10         2.00         0.53         5.00         0.00         4.12         4.12           10.15         2.00         0.53         5.00         0.00         4.12         4.12           10.20         2.00         0.53         5.00         0.00         4.12         4.12           10.20         2.00         0.53         5.00         0.00         4.12<			0.53				
9,70       2,00       0.53       5,00       0.00       4,12       4,12         9,80       2,00       0.53       5,00       0.00       4,12       4,12         9,85       2,00       0.53       5,00       0.00       4,12       4,12         9,90       2,00       0.53       5,00       0.00       4,12       4,12         9,95       2,00       0.53       5,00       0.00       4,12       4,12         10,00       2,00       0.53       5,00       0.00       4,12       4,12         10,00       2,00       0.53       5,00       0.00       4,12       4,12         10,15       2,00       0.53       5,00       0.00       4,12       4,12         10,15       2,00       0.53       5,00       0.00       4,12       4,12         10,15       2,00       0.53       5,00       0.00       4,12       4,12         10,25       2,00       0.53       5,00       0.00       4,12       4,12         10,30       2,00       0.53       5,00       0.00       4,12       4,12         10,35       2,00       0.53       5,00       0.00 <td< td=""><td></td><td></td><td>0.53</td><td></td><td></td><td></td><td></td></td<>			0.53				
9,70       2,00       0.53       5,00       0.00       4,12       4,12         9,80       2,00       0.53       5,00       0.00       4,12       4,12         9,85       2,00       0.53       5,00       0.00       4,12       4,12         9,90       2,00       0.53       5,00       0.00       4,12       4,12         9,95       2,00       0.53       5,00       0.00       4,12       4,12         10,00       2,00       0.53       5,00       0.00       4,12       4,12         10,00       2,00       0.53       5,00       0.00       4,12       4,12         10,15       2,00       0.53       5,00       0.00       4,12       4,12         10,15       2,00       0.53       5,00       0.00       4,12       4,12         10,15       2,00       0.53       5,00       0.00       4,12       4,12         10,25       2,00       0.53       5,00       0.00       4,12       4,12         10,30       2,00       0.53       5,00       0.00       4,12       4,12         10,35       2,00       0.53       5,00       0.00 <td< td=""><td></td><td>2.00</td><td>0.53</td><td></td><td></td><td></td><td>4.12</td></td<>		2.00	0.53				4.12
9.75         2.00         0.53         5.00         0.00         4.12         4.12           9.85         2.00         0.53         5.00         0.00         4.12         4.12           9.90         2.00         0.53         5.00         0.00         4.12         4.12           9.95         2.00         0.53         5.00         0.00         4.12         4.12           10.05         2.00         0.53         5.00         0.00         4.12         4.12           10.05         2.00         0.53         5.00         0.00         4.12         4.12           10.10         2.00         0.53         5.00         0.00         4.12         4.12           10.15         2.00         0.53         5.00         0.00         4.12         4.12           10.25         2.00         0.53         5.00         0.00         4.12         4.12           10.25         2.00         0.53         5.00         0.00         4.12         4.12           10.25         2.00         0.53         5.00         0.00         4.12         4.12           10.30         2.00         0.53         5.00         0.00         4.			0.53				
9.80       2.00       0.53       5.00       0.00       4.12       4.12         9.85       2.00       0.53       5.00       0.00       4.12       4.12         9.95       2.00       0.53       5.00       0.00       4.12       4.12         10.00       2.00       0.53       5.00       0.00       4.12       4.12         10.10       2.00       0.53       5.00       0.00       4.12       4.12         10.10       2.00       0.53       5.00       0.00       4.12       4.12         10.15       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       <			0.53			4.12	4.12
9.85       2.00       0.53       5.00       0.00       4.12       4.12         9.90       2.00       0.53       5.00       0.00       4.12       4.12         10.00       2.00       0.53       5.00       0.00       4.12       4.12         10.05       2.00       0.53       5.00       0.00       4.12       4.12         10.15       2.00       0.53       5.00       0.00       4.12       4.12         10.15       2.00       0.53       5.00       0.00       4.12       4.12         10.20       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.30       2.00       0.53       5.00       0.00       4.12       4.12         10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.40       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.55       2.00       0.53       5.00       0.00			0.53				
9.90       2.00       0.53       5.00       0.00       4.12       4.12         10.00       2.00       0.53       5.00       0.00       4.12       4.12         10.05       2.00       0.53       5.00       0.00       4.12       4.12         10.10       2.00       0.53       5.00       0.00       4.12       4.12         10.10       2.00       0.53       5.00       0.00       4.12       4.12         10.20       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.30       2.00       0.53       5.00       0.00       4.12       4.12         10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.55       2.00       0.53       5.00       0.00							
9.95       2.00       0.53       5.00       0.00       4.12       4.12         10.00       2.00       0.53       5.00       0.00       4.12       4.12         10.10       2.00       0.53       5.00       0.00       4.12       4.12         10.15       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.30       2.00       0.53       5.00       0.00       4.12       4.12         10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.55       2.00       0.53       5.00       0.00						4.12	
10.00       2.00       0.53       5.00       0.00       4.12       4.12         10.10       2.00       0.53       5.00       0.00       4.12       4.12         10.10       2.00       0.53       5.00       0.00       4.12       4.12         10.15       2.00       0.53       5.00       0.00       4.12       4.12         10.20       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.30       2.00       0.53       5.00       0.00       4.12       4.12         10.40       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00	9.90		0.53				
10.05       2.00       0.53       5.00       0.00       4.12       4.12         10.10       2.00       0.53       5.00       0.00       4.12       4.12         10.15       2.00       0.53       5.00       0.00       4.12       4.12         10.20       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.40       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00			0.53	5.00			
10.10       2.00       0.53       5.00       0.00       4.12       4.12         10.15       2.00       0.53       5.00       0.00       4.12       4.12         10.20       2.00       0.53       5.00       0.00       4.12       4.12         10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.40       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.55       2.00       0.53       5.00       0.00       4.12       4.12         10.60       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.85       2.00       0.53       5.00       0.00			0.53	5.00			4.12
10.15       2.00       0.53       5.00       0.00       4.12       4.12         10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.30       2.00       0.53       5.00       0.00       4.12       4.12         10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.40       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00			0.53				
10.20       2.00       0.53       5.00       0.00       4.12       4.12         10.30       2.00       0.53       5.00       0.00       4.12       4.12         10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.40       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.55       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.80       2.00       0.53       5.00       0.00       4.12       4.12         10.95       2.00       0.53       5.00       0.00			0.53				
10.25       2.00       0.53       5.00       0.00       4.12       4.12         10.30       2.00       0.53       5.00       0.00       4.12       4.12         10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.40       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.55       2.00       0.53       5.00       0.00       4.12       4.12         10.60       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.80       2.00       0.53       5.00       0.00       4.12       4.12         10.90       2.00       0.53       5.00       0.00       4.12       4.12         11.00       2.00       0.53       5.00       0.00		2.00	0.53			4.12	
10.30       2.00       0.53       5.00       0.00       4.12       4.12         10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.40       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.55       2.00       0.53       5.00       0.00       4.12       4.12         10.60       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.80       2.00       0.53       5.00       0.00       4.12       4.12         10.99       2.00       0.53       5.00       0.00       4.12       4.12         11.00       2.00       0.53       5.00       0.00	10.20		0.53			4.12	
10.35       2.00       0.53       5.00       0.00       4.12       4.12         10.40       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.55       2.00       0.53       5.00       0.00       4.12       4.12         10.60       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.80       2.00       0.53       5.00       0.00       4.12       4.12         10.95       2.00       0.53       5.00       0.00       4.12       4.12         11.00       2.00       0.53       5.00       0.00       4.12       4.12         11.10       2.00       0.53       5.00       0.00	10.25		0.53				
10.40       2.00       0.53       5.00       0.00       4.12       4.12         10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.55       2.00       0.53       5.00       0.00       4.12       4.12         10.60       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.80       2.00       0.53       5.00       0.00       4.12       4.12         10.85       2.00       0.53       5.00       0.00       4.12       4.12         10.95       2.00       0.53       5.00       0.00       4.12       4.12         11.00       2.00       0.53       5.00       0.00       4.12       4.12         11.10       2.00       0.53       5.00       0.00	10.30				0.00		
10.45       2.00       0.53       5.00       0.00       4.12       4.12         10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.55       2.00       0.53       5.00       0.00       4.12       4.12         10.60       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.80       2.00       0.53       5.00       0.00       4.12       4.12         10.85       2.00       0.53       5.00       0.00       4.12       4.12         10.95       2.00       0.53       5.00       0.00       4.12       4.12         11.00       2.00       0.53       5.00       0.00       4.12       4.12         11.10       2.00       0.53       5.00       0.00       4.12       4.12         11.15       2.00       0.53       5.00       0.00			0.53		0.00		
10.50       2.00       0.53       5.00       0.00       4.12       4.12         10.55       2.00       0.53       5.00       0.00       4.12       4.12         10.60       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.80       2.00       0.53       5.00       0.00       4.12       4.12         10.85       2.00       0.53       5.00       0.00       4.12       4.12         10.95       2.00       0.53       5.00       0.00       4.12       4.12         11.00       2.00       0.53       5.00       0.00       4.12       4.12         11.01       2.00       0.53       5.00       0.00       4.12       4.12         11.10       2.00       0.53       5.00       0.00       4.12       4.12         11.10       2.00       0.53       5.00       0.00					0.00	4.12	
10.55       2.00       0.53       5.00       0.00       4.12       4.12         10.60       2.00       0.53       5.00       0.00       4.12       4.12         10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.80       2.00       0.53       5.00       0.00       4.12       4.12         10.85       2.00       0.53       5.00       0.00       4.12       4.12         10.95       2.00       0.53       5.00       0.00       4.12       4.12         11.00       2.00       0.53       5.00       0.00       4.12       4.12         11.05       2.00       0.53       5.00       0.00       4.12       4.12         11.10       2.00       0.53       5.00       0.00       4.12       4.12         11.10       2.00       0.53       5.00       0.00       4.12       4.12         11.25       2.00       0.53       5.00       0.00	10.45	2.00			0.00		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10.50		0.53		0.00		4.12
10.65       2.00       0.53       5.00       0.00       4.12       4.12         10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.80       2.00       0.53       5.00       0.00       4.12       4.12         10.85       2.00       0.53       5.00       0.00       4.12       4.12         10.90       2.00       0.53       5.00       0.00       4.12       4.12         11.09       2.00       0.53       5.00       0.00       4.12       4.12         11.00       2.00       0.53       5.00       0.00       4.12       4.12         11.05       2.00       0.53       5.00       0.00       4.12       4.12         11.10       2.00       0.53       5.00       0.00       4.12       4.12         11.15       2.00       0.53       5.00       0.00       4.12       4.12         11.25       2.00       0.53       5.00       0.00       4.12       4.12         11.35       2.00       0.53       5.00       0.00				5.00			
10.70       2.00       0.53       5.00       0.00       4.12       4.12         10.75       2.00       0.53       5.00       0.00       4.12       4.12         10.80       2.00       0.53       5.00       0.00       4.12       4.12         10.85       2.00       0.53       5.00       0.00       4.12       4.12         10.90       2.00       0.53       5.00       0.00       4.12       4.12         11.09       2.00       0.53       5.00       0.00       4.12       4.12         11.00       2.00       0.53       5.00       0.00       4.12       4.12         11.05       2.00       0.53       5.00       0.00       4.12       4.12         11.10       2.00       0.53       5.00       0.00       4.12       4.12         11.15       2.00       0.53       5.00       0.00       4.12       4.12         11.20       2.00       0.53       5.00       0.00       4.12       4.12         11.25       2.00       0.53       5.00       0.00       4.12       4.12         11.30       2.00       0.53       5.00       0.00						4.12	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					0.00		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							4.12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							4.12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			0.53				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			0.53	5.00			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			0.53			4.12	4.12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11.10		0.53			4.12	4.12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11.15		0.53				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				5.00			4.12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11.25		0.53	5.00		4.12	4.12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11.30		0.53				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11.35		0.53				4.12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		2.00	0.53	5.00			4.12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		2.00	0.53				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
11.60     2.00     0.53     5.00     0.00     4.12     4.12       11.65     2.00     0.53     5.00     0.00     4.12     4.12       11.70     2.00     0.53     5.00     0.00     4.12     4.12       11.75     2.00     0.53     5.00     0.00     4.12     4.12       11.75     2.00     0.53     5.00     0.00     4.12     4.12	11.55		0.53				4.12
11.70 2.00 0.53 5.00 0.00 4.12 4.12 11.75 2.00 0.53 5.00 0.00 4.12 4.12			0.53				
11.75 2.00 0.53 5.00 0.00 4.12 4.12						4.12	4.12
11.75 2.00 0.53 5.00 0.00 4.12 4.12			0.53				4.12
11.80 2.00 0.53 5.00 0.00 4.12 4.12							
	11.80	2.00	0.53	5.00	0.00	4.12	4.12

			Mtn View	HS Stadi	ım EB1.sı	ım
11.85	2.00	0.53	5.00	0.00	4.12	4.12
11.90	2.00	0.53	5.00	0.00	4.12	4.12
11.95	2.00	0.53	5.00	0.00	4.12	4.12
12.00	0.18	0.53	5.00	0.00	4.12	4.12
12.05	0.19	0.53	5.00	0.00	4.11	4.11
12.10	0.19	0.53	5.00	0.00	4.10	4.10
12.15	0.19	0.53	5.00	0.00	4.10	4.10
12.20	0.19	0.53	5.00	0.00	4.09	4.09
12.25	0.19	0.53	5.00	0.00	4.09	4.09
12.30	0.19	0.53	5.00	0.00	4.08	4.08
12.35	0.19	0.53	5.00	0.00	4.08	4.08
12.40 12.45	$0.19 \\ 0.19$	0.53 0.53	5.00	0.00	4.07	4.07
12.43	0.19	0.53	5.00 5.00	$0.00 \\ 0.00$	4.07 4.06	4.07 4.06
12.55	0.20	0.53	5.00	0.00	4.05	4.05
12.60	0.20	0.53	5.00	0.00	4.05	4.05
12.65	0.20	0.53	5.00	0.00	4.04	4.04
12.70	0.20	0.53	5.00	0.00	4.04	4.04
12.75	0.20	0.53	5.00	0.00	4.03	4.03
12.80	0.20	0.53	5.00	0.00	4.03	4.03
12.85	0.20	0.53	5.00	0.00	4.02	4.02
12.90	0.21	0.53	5.00	0.00	4.02	4.02
12.95	0.21	0.53	5.00	0.00	4.01	4.01
13.00	0.21	0.53	5.00	0.00	4.01	4.01
13.05	0.21	0.53	5.00	0.00	4.00	4.00
13.10	0.21	0.53	5.00	0.00	4.00	4.00
13.15 13.20	0.21 0.21	0.53 0.53	5.00 5.00	0.00	3.99	3.99
13.25	0.21	0.53	5.00	0.00 0.00	3.99 3.98	3.99 3.98
13.30	0.22	0.53	5.00	0.00	3.98	3.98
13.35	0.22	0.53	5.00	0.00	3.97	3.97
13.40	0.22	0.53	5.00	0.00	3.97	3.97
13.45	0.22	0.53	5.00	0.00	3.96	3.96
13.50	0.22	0.53	5.00	0.00	3.95	3.95
13.55	0.22	0.53	5.00	0.00	3.95	3.95
13.60	0.22	0.53	5.00	0.00	3.94	3.94
13.65	0.23	0.53	5.00	0.00	3.94	3.94
13.70	0.23	0.53	5.00	0.00	3.93	3.93
13.75	0.23	0.53 0.53	5.00	0.00	3.93	3.93
13.80	0.23	0.53	5.00	0.00	3.92	3.92
13.85 13.90	0.23	0.53	5.00 5.00	$0.00 \\ 0.00$	3.92	3.92 3.91
13.95	0.23 0.23	0.53 0.53	5.00	0.00	$\frac{3.91}{3.91}$	3.91
14.00	0.24	0.53	5.00	0.00	3.90	3.90
14.05	0.24	0.53	5.00	0.00	3.90	3.90
14.10	0.24	0.53	5.00	0.00	3.89	3.89
14.15	0.24	0.53	5.00	0.00	3.89	3.89
14.20	0.24	0.53	5.00	0.00	3.89	3.89
14.25	0.24	0.53	5.00	0.00	3.88	3.88
14.30	0.25 0.25 0.25	0.53	5.00	0.00	3.88	3.88
14.35	0.25	0.53 0.53	5.00	0.00	3.87	3.87
14.40	0.25	0.53	5.00	0.00	3.87	3.87
14.45	0.25	0.53	5.00	0.00	3.86	3.86
14.50	0.25 0.25 0.25	0.53 0.53 0.53	5.00	0.00	3.86	3.86
14.55 14.60	0.25	0.53	5.00 5.00	0.00 0.00	3.85 3.85	3.85
14.65	0.23	0.JJ	5.00	0.00	3.84	3.85 3.84
14.70	0.24 0.24	0.53 0.53	5.00	0.00	3.84	3.84
14.75	0.24	0.53	5.00	0.00	3.83	3.83
14.80	0.31	0.53	5.00	0.00	3.82	3.82
14.85	0.30	0.53	5.00	0.00	3.82	3.82
14.90	0.29	0.53	5.00	0.00	3.82	3.82
14.95	0.28	0.53	5.00	0.00	3.81	3.81
				Dago 6		

		N/I	tn View	HS Stadiu	ım FR1 cı	ım
15.00	0.27	0.53	5.00	0.00	3.81	3.81
15.05	0.27	0.53	5.00		3.80	3.80
15.10	0.26	0.53	5.00	0.00	3.80	3.80
15.15	0.26	0.53	5.00	0.00	3.79	3.79
15.20	0.26	0.53	5.00	0.00	3.79	3.79
15.25	0.25	0.53	5.00	0.00	3.78	3.78
15.30	0.25	0.53	5.00	$0.00 \\ 0.00$	3.78	3.78
15.35	0.24	0.53	5.00		3.77	3.77
15.40	0.24	0.53	5.00	$0.00 \\ 0.00$	3.76	3.76
15.45	0.24	0.53	5.00		3.76	3.76
15.50	0.24	0.53	5.00	0.00	3.75	3.75
15.55	0.23	0.53	5.00	$0.00 \\ 0.00$	3.75	3.75
15.60	0.23	0.53	5.00		3.74	3.74
15.65	0.23	0.53	5.00	0.00	3.73	3.73
15.70	0.22	0.53	5.00	0.00		3.72
15.75	0.22	0.53	5.00	0.00	3.72 3.72	3.72
15.80	0.22	0.53	5.00	0.00	3.71	3.71
15.85	0.22	0.53	5.00	0.00	3.70	3.70
15.90	0.21	0.53	5.00	0.00	3.69	3.69
15.95	0.21	0.53	5.00	0.00	3.68	3.68
16.00	0.21	0.53	5.00	0.00	3.68	3.68
16.05	0.21	0.53	5.00	$0.00 \\ 0.00$	3.67	3.67
16.10	0.21	0.53	5.00		3.66	3.66
16.15	0.20	0.53	5.00	0.00	3.65	3.65
16.20	0.20	0.53	5.00	0.00	3.64	3.64
16.25	0.20	0.53	5.00	0.00	3.63	3.63
16.30	0.20	0.53	5.00	$0.00 \\ 0.00$	3.62	3.62
16.35	0.20	0.53	5.00		3.60	3.60
16.40 16.45	$0.19 \\ 0.19$	0.52 0.52	5.00 5.00	0.00	3.59 3.58	3.59 3.58
16.50	0.19	0.52	5.00	0.00	3.57	3.57
16.55	$0.19 \\ 0.19$	0.52	5.00	0.00	3.56	3.56
16.60		0.52	5.00	0.00	3.55	3.55
16.65 16.70	$\substack{0.19\\0.18}$	0.52 0.52	5.00 5.00	$0.00 \\ 0.00$	3.53 3.52	3.53 3.52
16.75	0.18	0.52	5.00	0.00	3.51	3.51
16.80	$\begin{array}{c} 0.18 \\ 0.18 \end{array}$	0.52	5.00	0.00	3.50	3.50
16.85		0.52	5.00	0.00	3.48	3.48
16.90 16.95	$\begin{array}{c} 0.18 \\ 0.18 \end{array}$	0.52 0.52	5.00 5.00	$0.00 \\ 0.00$	3.47 3.46	3.47 3.46
17.00	0.17	0.52	5.00	0.00	3.45	3.45
17.05	$\begin{array}{c} 0.17 \\ 0.17 \end{array}$	0.52	5.00	0.00	3.43	3.43
17.10		0.52	5.00	0.00	3.42	3.42
17.15 17.20	$\begin{array}{c} 0.17 \\ 0.17 \end{array}$	0.52 0.52	5.00 5.00	$0.00 \\ 0.00$	3.41 3.39	3.41 3.39
17.25	0.17	0.52	5.00	0.00	3.38	3.38
17.30	$0.17 \\ 0.16$	0.52	5.00	0.00	3 . 37	3.37
17.35		0.52	5.00	0.00	3 . 35	3.35
17.40	$0.16 \\ 0.16$	0.52	5.00	0.00	3.34	3.34
17.45		0.52	5.00	0.00	3.32	3.32
17.50	0.16	0.52	5.00	0.00	3.31	3.31
17.55	$\begin{array}{c} 0.16 \\ 0.16 \end{array}$	0.52	5.00	0.00	3.29	3.29
17.60		0.52	5.00	0.00	3.28	3.28
17.65	0.16	0.52	5.00	$0.00 \\ 0.00$	3.27	3.27
17.70	0.15	0.52	5.00		3.25	3.25
17.75	0.15	0.52	5.00	0.00	3.24 3.22	3.24 3.22
17.80	0.15	0.52	5.00	0.00	3.22	3.22
17.85	0.15	0.52	5.00	0.00	3.20	3.20
17.90	0.15	0.52	5.00	$0.00 \\ 0.00$	3.19	3.19
17.95	0.15	0.52	5.00		3.17	3.17
18.00	0.15	0.52	5.00	0.00	3.16	3.16
18.05	0.15	0.52	5.00	$\begin{smallmatrix}0.00\\0.00\_\end{smallmatrix}$	3.14	3.14
18.10	0.14	0.52	5.00		3.13	3.13

			Mtn View	HS Stadi	ıım FR1 cı	ım
18.15	0.14	0.52	5.00	0.00	3.11	3.11
18.20	0.14	0.52	5.00	0.00	3.09	3.09
18.25	0.14	0.52	5.00	0.00	3.08	3.08
18.30	0.14	0.52	5.00	0.00	3.06	3.06
18.35	0.14	0.52	5.00	0.00	3.04	3.04
18.40	0.14	0.52	5.00	0.00	3.02	3.02
18.45 18.50	$0.14 \\ 0.13$	0.52 0.52	5.00 5.00	$0.00 \\ 0.00$	3.01 2.99	3.01 2.99
18.55	0.13	0.52	5.00	0.00	2.97	2.97
18.60	0.13	0.52	5.00	0.00	2.95	2.95
18.65	0.13	0.52	5.00	0.00	2.93	2.93
18.70	0.13	0.52	5.00	0.00	2.92	2.92
18.75	0.13	0.52	5.00	0.00	2.90	2.90
$\begin{array}{c} 18.80 \\ 18.85 \end{array}$	$0.13 \\ 0.13$	0.52 0.52	5.00 5.00	$0.00 \\ 0.00$	2.88 2.86	2.88 2.86
18.90	0.13	0.52	5.00	0.00	2.84	2.84
18.95	0.12	0.52	5.00	0.00	2.82	2.82
19.00	0.12	0.52	5.00	0.00	2.80	2.80
19.05	0.12	0.52	5.00	0.00	2.78 2.76	2.78
19.10	0.12	0.52	5.00	0.00	2.76	2.76
19.15 19.20	0.12 0.12	0.52 0.52	5.00	0.00	2.74	2.74
19.25	0.12	0.52	5.00 5.00	$0.00 \\ 0.00$	2.72 2.70	2.72 2.70
19.30	0.12	0.52	5.00	0.00	2.68	2.68
19.35	0.12	0.52	5.00	0.00	2.65	2.65
19.40	0.11	0.52	5.00	0.00	2.63	2.63
19.45	0.11	0.52	5.00	0.00	2.61	2.61
19.50 19.55	$\substack{0.11\\0.11}$	0.52	5.00	0.00	2.59	2.59
19.60	$0.11 \\ 0.11$	0.52 0.52	5.00 5.00	$0.00 \\ 0.00$	2.57 2.56	2.57 2.56
19.65	$0.11 \\ 0.11$	0.52	5.00	0.00	2.54	2.54
19.70	0.11	0.52	5.00	0.00	2.53	2.53
19.75	0.11	0.52	5.00	0.00	2.52	2.52
19.80	0.11	0.52	5.00	0.00	2.50	2.50
19.85 19.90	$\substack{0.11\\0.11}$	0.52 0.52	5.00 5.00	0.00 0.00	2.49 2.47	2.49 2.47
19.95	$0.11 \\ 0.11$	0.52	5.00	0.00	2.46	2.46
20.00	0.11	0.52	5.00	0.00	2.44	2.44
20.05	0.11	0.52	5.00	0.00	2.43	2.43
20.10	0.11	0.52	5.00	0.00	2.42	2.42
20.15	0.11	0.52	5.00	0.00	2.40	2.40
20.20 20.25	$0.12 \\ 0.12$	0.52 0.52	5.00 5.00	0.00	2.39 2.37	2.39 2.37
20.30	0.12	0.52	5.00	0.00	2.36	2.36
20.35	0.12	0.52	5.00	0.00	2.34	2.34
20.40	0.12	0.52	5.00	0.00	2.33	2.33
20.45	0.12	0.52	5.00	0.00	2.32	2.32
20.50 20.55	0.12 0.12	0.52 0.52	5.00 5.00	$0.00 \\ 0.00$	2.30	2.30
20.60	0.12	0.52	5.00	0.00	2.29	2.29 2.27
20.65	0.12	0.52	5.00	0.00	2.26	2.26
20.70	0.12	0.52	5.00	0.00	2.25	2.25
20.75	0.12	0.52	5.00	0.00	2.23	2.23
20.80	0.12	0.52	5.00	0.00	2.22	2.22
20.85 20.90	$0.12 \\ 0.12$	0.52 0.52	5.00 5.00	0.00 0.00	2.20 2.19	2.20 2.19
20.95	0.12	0.52	5.00	0.00	2.17	2.13
21.00	0.12	0.52	5.00	0.00	2.16	2.16
21.05	0.12	0.52	5.00	0.00	2.15	2.15
21.10	0.12	0.52	5.00	0.00	2.13	2.13
21.15 21.20	0.12 0.12	0.52 0.52	5.00	0.00	2.12	2.12
21.25	0.12	0.52	5.00 5.00	$0.00 \\ 0.00$	2.10 2.09	2.10 2.09
,	V. 1L	3.32	3.00	0.00	2.05	2.03

			Mtn View	HS Stadiu	ım EB1.s	um
21.30	0.12	0.52	5.00	0.00	2.08	2.08
21.35	0.12	0.52	5.00	0.00	2.06	2.06
21.40	0.12	0.52	5.00	0.00	2.05	2.05
21.45	0.12	0.52	5.00	0.00	2.03	2.03
21.50	0.12	0.52	5.00	0.00	2.02	2.02
21.55	0.12	0.52	5.00	0.00	2.00	2.00
21.60	0.12	0.52	5.00	0.00	1.99	1.99
21.65	0.12	0.52	5.00	0.00	1.98	1.98
21.70 21.75	0.12 0.12	0.52 0.52	5.00 5.00	0.00	$1.96 \\ 1.95$	1.96
21.73	0.12	0.52	5.00	0.00 0.00	1.93	$1.95 \\ 1.93$
21.85	0.12	0.52	5.00	0.00	1.93	1.93
21.90	0.12	0.52 0.52	5.00	0.00	1.91	1.91
21.95	0.12	0.52	5.00	0.00	1.89	1.89
22.00	0.12	0.52	5.00	0.00	1.88	1.88
22.05	0.12	0.52 0.52	5.00	0.00	1.86	1.86
22.10	0.12	0.52	5.00	0.00	1.85	1.85
22.15	0.12	0.52	5.00	0.00	1.83	1.83
22.20	0.12	0.52	5.00	0.00	1.82	1.82
22.25	0.12	0.52	5.00	0.00	1.81	1.81
22.30	0.12	0.52	5.00	0.00	1.79	1.79
22.35	0.12	0.52	5.00	0.00	$\frac{1.78}{1.76}$	1.78
22.40 22.45	0.12 0.12	0.52	5.00	0.00	$\frac{1.76}{1.75}$	1.76
22.50	0.12	0.52 0.52	5.00 5.00	$0.00 \\ 0.00$	$1.75 \\ 1.74$	$1.75 \\ 1.74$
22.55	0.12	0.52	5.00	0.00	1.72	1.72
22.60	0.12	0.52	5.00	0.00	$\frac{1.72}{1.71}$	1.71
22.65	0.13	0.52	5.00	0.00	1.69	1.69
22.70	0.13	0.52	5.00	0.00	1.68	1.68
22.75	0.13	0.52	5.00	0.00	1.67	1.67
22.80	0.13	0.52	5.00	0.00	1.65	1.65
22.85	0.13	0.52	5.00	0.00	1.64	1.64
22.90	0.13	0.52	5.00	0.00	1.62	1.62
22.95	0.13	0.52	5.00	0.00	1.61	1.61
23.00 23.05	$0.13 \\ 0.13$	0.52 0.52	5.00 5.00	0.00	$1.59 \\ 1.58$	1.59
23.10	0.13	0.52	5.00	$0.00 \\ 0.00$	1.57	$1.58 \\ 1.57$
23.15	0.13	0.52	5.00	0.00	1.55	1.55
23.20	0.13	0.52	5.00	0.00	1.54	1.54
23.25	0.13	0.52	5.00	0.00	1.52	1.52
23.30	0.13	0.52	5.00	0.00	1.51	1.51
23.35	0.13	0.52	5.00	0.00	1.50	1.50
23.40	0.13	0.52	5.00	0.00	1.48	1.48
23.45	0.13	0.52	5.00	0.00	1.47	1.47
23.50	0.13	0.52	5.00	0.00	1.45	1.45
23.55	0.13	0.52	5.00	0.00	1.44	$\frac{1.44}{1.42}$
23.60 23.65	0.13	0.52 0.52	5.00	0.00	$\frac{1.43}{1.41}$	1.43
23.70	0.13 0.13	0.52	5.00 5.00	0.00 0.00	$\frac{1.41}{1.40}$	$\frac{1.41}{1.40}$
23.75	0.13	0.52	5.00	0.00	1.38	1.38
23.80	0.13	0.52	5.00	0.00	1.37	1.37
23.85	0.13	0.52	5.00	0.00	1.36	1.36
23.90	0.13	0.52	5.00	0.00	1.34	1.34
23.95	0.13	0.52 0.52	5.00	0.00	1.33	1.33
24.00	0.13	0.52	5.00	0.00	1.31	1.31
24.05	2.00	0.52	5.00	0.00	1.30	1.30
24.10	2.00	0.52 0.52	5.00	0.00	$\frac{1.30}{1.30}$	1.30
24.15 24.20	2.00 2.00	0.52	5.00 5.00	0.00 0.00	1.30	$\frac{1.30}{1.30}$
24.25	2.00	0.52	5.00	0.00	$\frac{1.30}{1.30}$	$\frac{1.30}{1.30}$
24.30	2.00	0.52	5.00	0.00	1.30	1.30
24.35	2.00	0.51	5.00	0.00	1.30	1.30
24.40	2.00	0.51	5.00	0.00	1.30	1.30
				Dago 0		

				HS Stadiu		
24.45	2.00	0.51	5.00	0.00	1.30	1.30
24.50	2.00	0.51	5.00	0.00	1.30	1.30
24.55	2.00	0.51	5.00	0.00	1.30	1.30
24.60 24.65	2.00 2.00	0.51 0.51	5.00 5.00	0.00 0.00	$\frac{1.30}{1.30}$	1.30 1.30
24.70	2.00	0.51	5.00	0.00	$\frac{1.30}{1.30}$	1.30
24.75	2.00	0.51	5.00	0.00	1.30	1.30
24.80	2.00	0.51	5.00	0.00	1.30	1.30
24.85	2.00	0.51	5.00	0.00	1.30	1.30
24.90	2.00	0.51	5.00	0.00	1.30	1.30
24.95	2.00	0.51	5.00	0.00	1.30	1.30
25.00	2.00	0.51	5.00	0.00	1.30	1.30
25.05	2.00	0.51	5.00	0.00	1.30	1.30
25.10 25.15	2.00 2.00	$0.51 \\ 0.51$	5.00	0.00	1.30	1.30
25.20	2.00	0.51	5.00 5.00	0.00 0.00	$\frac{1.30}{1.30}$	1.30 1.30
25.25	2.00	0.51	5.00	0.00	1.30	1.30
25.30	2.00	0.51	5.00	0.00	1.30	1.30
25.35	2.00	0.51	5.00	0.00	1.30	1.30
25.40	2.00	0.51	5.00	0.00	1.30	1.30
25.45	2.00	0.51	5.00	0.00	1.30	1.30
25.50	2.00	0.51	5.00	0.00	1.30	1.30
25.55	2.00	0.51	5.00	0.00	1.30	1.30
25.60	2.00	0.51	5.00	0.00	1.30	1.30
25.65	2.00	0.51	5.00	0.00	1.30	1.30
25.70 25.75	2.00 2.00	$0.51 \\ 0.51$	5.00 5.00	0.00 0.00	1.30 1.30	$\frac{1.30}{1.30}$
25.80	2.00	0.51	5.00	0.00	1.30	1.30
25.85	2.00	0.51	5.00	0.00	1.30	1.30
25.90	2.00	0.51	5.00	0.00	1.30	1.30
25.95	2.00	0.51	5.00	0.00	1.30	1.30
26.00	2.00	0.51	5.00	0.00	1.30	1.30
26.05	2.00	0.51	5.00	0.00	1.30	1.30
26.10	2.00	0.51	5.00	0.00	1.30	1.30
26.15	2.00	0.51	5.00	0.00	1.30	1.30
26.20 26.25	2.00 2.00	$0.51 \\ 0.51$	5.00 5.00	0.00 0.00	$\frac{1.30}{1.30}$	$\frac{1.30}{1.30}$
26.30	2.00	0.51	5.00	0.00	1.30	$\frac{1.30}{1.30}$
26.35	2.00	0.51	5.00	0.00	1.30	1.30
26.40	2.00	0.51	5.00	0.00	1.30	1.30
26.45	2.00	0.51	5.00	0.00	1.30	1.30
26.50	2.00	0.51	5.00	0.00	1.30	1.30
26.55	2.00	0.51	5.00	0.00	1.30	1.30
26.60	2.00	0.51	5.00	0.00	1.30	1.30
26.65	2.00	0.51	5.00	0.00	1.30	$\frac{1.30}{1.30}$
26.70 26.75	2.00 2.00	$0.51 \\ 0.51$	5.00 5.00	0.00 0.00	$\frac{1.30}{1.30}$	$\frac{1.30}{1.30}$
26.80	2.00	0.51	5.00	0.00	1.30	1.30
26.85	2.00	0.51	5.00	0.00	1.30	1.30
26.90	2.00	0.51	5.00	0.00	1.30	1.30
26.95	2.00	0.51	5.00	0.00	1.30	1.30
27.00	2.00	0.51	5.00	0.00	1.30	1.30
27.05	2.00	0.51	5.00	0.00	1.30	1.30
27.10	2.00	0.51	5.00	0.00	1.30	1.30
27.15 27.20	2.00 2.00	0.51 0.51	5.00	0.00	1.30	1.30
27.25	2.00	$0.51 \\ 0.51$	5.00 5.00	0.00 0.00	$\frac{1.30}{1.30}$	$\frac{1.30}{1.30}$
27.30	2.00	0.51	5.00	0.00	1.30	1.30
27.35	2.00	0.51	5.00	0.00	1.30	1.30
27.40	2.00	0.51	5.00	0.00	1.30	1.30
27.45	2.00	0.51	5.00	0.00	1.30	1.30
27.50	2.00	0.51	5.00	0.00	1.30	1.30
27.55	2.00	0.51	5.00	0.00	1.30	1.30

				HS Stadium		
27.60	2.00	0.51	5.00	0.00	1.30	1.30
27.65	2.00	0.51	5.00	0.00	1.30	1.30
27.70 27.75	2.00 2.00	0.51 0.51	5.00 5.00	0.00 0.00	1.30 1.30	1.30 1.30
27.80	2.00	0.51	5.00	0.00	1.30	1.30
27.85	2.00	0.51	5.00	0.00	1.30	1.30
27.90	2.00	0.51	5.00	0.00	1.30	1.30
27.95	2.00	0.51	5.00	0.00	1.30	1.30
28.00	2.00	0.51	5.00	0.00	1.30	$\bar{1.30}$
28.05	2.00	0.51	5.00	0.00	1.30	1.30
28.10	2.00	0.51	5.00	0.00	1.30	1.30
28.15	2.00	0.51	5.00	0.00	1.30	1.30
28.20	2.00	0.51	5.00	0.00	1.30	1.30
28.25	2.00	0.51	5.00	0.00	1.30	1.30
28.30 28.35	2.00	$0.51 \\ 0.51$	5.00 5.00	0.00	1.30	1.30
28.40	2.00 2.00	0.51	5.00	0.00 0.00	1.30 1.30	1.30 1.30
28.45	2.00	0.51	5.00	0.00	1.30	$\frac{1.30}{1.30}$
28.50	2.00	0.51	5.00	0.00	1.30	1.30
28.55	2.00	0.51	5.00	0.00	1.30	1.30
28.60	2.00	0.51	5.00	0.00	1.30	1.30
28.65	2.00	0.51	5.00	0.00	1.30	1.30
28.70	2.00	0.51	5.00	0.00	1.30	1.30
28.75	2.00	0.51	5.00	0.00	1.30	1.30
28.80	2.00	0.51	5.00	0.00	1.30	1.30
28.85	2.00	0.51	5.00	0.00	1.30	1.30
28.90	2.00	0.51	5.00	0.00	1.30	1.30
28.95	2.00	0.51	5.00	0.00	1.30	1.30
29.00	2.00	0.51	5.00	0.00	1.30	1.30
29.05 29.10	2.00 2.00	$0.51 \\ 0.51$	5.00 5.00	0.00 0.00	1.30 1.30	$\frac{1.30}{1.30}$
29.15	2.00	0.51	5.00	0.00	1.30	1.30
29.20	2.00	0.51	5.00	0.00	1.30	1.30
29.25	2.00	0.51	5.00	0.00	1.30	1.30
29.30	2.00	0.51	5.00	0.00	1.30	1.30
29.35	2.00	0.51	5.00	0.00	1.30	1.30
29.40	2.00	0.51	5.00	0.00	1.30	1.30
29.45	2.00	0.51	5.00	0.00	1.30	1.30
29.50	2.00	0.51	5.00	0.00	1.30	1.30
29.55	2.00	0.51	5.00	0.00	1.30	1.30
29.60	2.00	0.51	5.00	0.00	1.30	1.30
29.65 29.70	2.00 2.00	$0.51 \\ 0.51$	5.00 5.00	0.00	1.30 1.30	$\frac{1.30}{1.30}$
29.75	2.00	0.51	5.00	0.00 0.00	1.30	$\frac{1.30}{1.30}$
29.80	2.00	0.51	5.00	0.00	1.30	1.30
29.85	2.00	0.51	5.00	0.00	1.30	1.30
29.90	2.00	0.51	5.00	0.00	1.30	1.30
29.95	2.00	0.51	5.00	0.00	1.30	1.30
30.00	2.00	0.51	5.00	0.00	1.30	1.30
30.05	2.00	0.51	5.00	0.00	1.30	1.30
30.10	2.00	0.51	5.00	0.00	1.30	1.30
30.15	2.00	0.51	5.00	0.00	1.30	1.30
30.20	2.00	0.51	5.00	0.00	1.30	1.30
30.25	2.00	0.51	5.00	0.00	1.30	$\frac{1.30}{1.30}$
30.30 30.35	2.00	$0.51 \\ 0.51$	5.00 5.00	0.00 0.00	1.30 1.30	$\frac{1.30}{1.30}$
30.33	2.00	0.51	5.00	0.00	1.30	1.30 1.30
30.45	2.00	0.51	5.00	0.00	1.30	$\frac{1.30}{1.30}$
30.50	2.00	0.51	5.00	0.00	1.30	1.30
30.55	2.00	0.51	5.00	0.00	1.30	1.30
30.60	2.00	0.50	5.00	0.00	1.30	1.30
30.65	2.00	0.50	5.00	0.00	1.30	1.30
30.70	2.00	0.50	5.00	0.00	1.30	1.30

0.00 Page 11

		M	tn View	HS Stadiu	um EB1.s	um
30.75	2.00	0.50	5.00	0.00	1.30	1.30
30.80	2.00	0.50	5.00	0.00	1.30	1.30
30.85	2.00	0.50	5.00	0.00	1.30	1.30
30.90	2.00	0.50	5.00	0.00	1.30	1.30
30.95	2.00	0.50	5.00	0.00	1.30	1.30
31.00	2.00	0.50	5.00	0.00	1.30	1.30
31.05	2.00	0.50	5.00	0.00	1.30	$\frac{1.30}{1.30}$
31.10 31.15	2.00	0.50	5.00	0.00	$\frac{1.30}{1.30}$	1.30
31.20	2.00 2.00	0.50 0.50	5.00 5.00	0.00 0.00	$\frac{1.30}{1.30}$	$\frac{1.30}{1.30}$
31.25	2.00	0.50	5.00	0.00	1.30	$\frac{1.30}{1.30}$
31.30	2.00	0.50	5.00	0.00	1.30	1.30
31.35	2.00	0.50	5.00	0.00	1.30	1.30
31.40	2.00	0.50	5.00	0.00	1.30	1.30
31.45	2.00	0.50	5.00	0.00	1.30	1.30
31.50	2.00	0.50	5.00	0.00	1.30	1.30
31.55	2.00	0.50	5.00	0.00	1.30	1.30
31.60	2.00	0.50	5.00	0.00	1.30	1.30
31.65	2.00	0.50	5.00	0.00	1.30	1.30
31.70	2.00	0.50	5.00	0.00	1.30	1.30
31.75	2.00	0.50	5.00	0.00	1.30	1.30
31.80	2.00	0.50	5.00	0.00	1.30	1.30
31.85 31.90	2.00 2.00	0.50 0.50	5.00 5.00	0.00	1.30	1.30
31.95	2.00	0.50	5.00	$0.00 \\ 0.00$	$\frac{1.30}{1.30}$	$\frac{1.30}{1.30}$
32.00	2.00	0.50	5.00	0.00	1.30	1.30
32.05	2.00	0.50	5.00	0.00	1.30	1.30
32.10	2.00	0.50	5.00	0.00	1.30	1.30
32.15	2.00	0.50	5.00	0.00	1.30	1.30
32.20	2.00	0.50	5.00	0.00	1.30	1.30
32.25	2.00	0.50	5.00	0.00	1.30	1.30
32.30	2.00	0.50	5.00	0.00	1.30	1.30
32.35	2.00	0.50	5.00	0.00	1.30	1.30
32.40	2.00	0.50	5.00	0.00	1.30	1.30
32.45	2.00 2.00	0.50 0.50	5.00 5.00	0.00 0.00	$\frac{1.30}{1.30}$	$\frac{1.30}{1.30}$
32.50 32.55	2.00	0.50	5.00	0.00	1.30	1.30
32.60	2.00	0.50	5.00	0.00	1.30	1.30
32.65	2.00	0.50	5.00	0.00	1.30	1.30
32.70	2.00	0.50	5.00	0.00	1.30	1.30
32.75	2.00	0.50	5.00	0.00	1.30	1.30
32.80	2.00	0.50	5.00	0.00	1.30	1.30
32.85	2.00	0.49	5.00	0.00	1.30	1.30
32.90	2.00	0.49	5.00	0.00	1.30	1.30
32.95	2.00	0.49	5.00	0.00	1.30	1.30
33.00	2.00	0.49	5.00	0.00	$\frac{1.30}{1.30}$	1.30
33.05 33.10	2.00 2.00	0.49 0.49	5.00 5.00	0.00 0.00	$\frac{1.30}{1.30}$	1.30
33.15	2.00	0.49	5.00	0.00	1.30	$\frac{1.30}{1.30}$
33.20	2.00	0.49	5.00	0.00	1.30	1.30
33.25	2.00	0.49	5.00	0.00	1.30	1.30
33.25 33.30	2.00	0.49	5.00	0.00	1.30	1.30
33.35	2.00	0.49	5.00	0.00	1.30	1.30
33.40	2.00	0.49	5.00	0.00	1.30	1.30
33.45	2.00	0.49	5.00	0.00	1.30	1.30
33.50	2.00	0.49	5.00	0.00	1.30	1.30
33.55	2.00	0.49	5.00	0.00	$\frac{1.30}{1.30}$	1.30
33.60 33.65	2.00	0.49 0.49	5.00	0.00	1.30	1.30
33.70	2.00	0.49	5.00 5.00	$0.00 \\ 0.00$	1.30 1.30	$\frac{1.30}{1.30}$
33.75	2.00	0.49	5.00	0.00	1.30	$\frac{1.30}{1.30}$
33.80	2.00	0.49	5.00	0.00	1.30	1.30
33.85	2.00	0.49	5.00	0.00	1.30	1.30
				Dago 12		

		M.	tn View	HS Stadiu	ım EB1.s	um
33.90	2.00	0.49	5.00	0.00	1.30	1.30
33.95	2.00	0.49	5.00	0.00	1.30	1.30
34.00	2.00	0.49	5.00	0.00	1.30	1.30
34.05	2.00	0.49	5.00	0.00	1.30	1.30
34.10	2.00	0.49	5.00	0.00	1.30	1.30
34.15	2.00	0.49	5.00	0.00	1.30	1.30
34.20	2.00	0.49	5.00	0.00	1.30	1.30
34.25	2.00	0.49	5.00	0.00	1.30	1.30
34.30	2.00	0.49	5.00	0.00	1.30	1.30
34.35	2.00	0.49	5.00	0.00	1.30	1.30
34.40 34.45	2.00	0.49	5.00	0.00	1.30	1.30
34.43	2.00 2.00	0.49 0.49	5.00 5.00	0.00	$\frac{1.30}{1.30}$	1.30
34.55	2.00	0.49	5.00	0.00	1.30	$\frac{1.30}{1.30}$
34.60	2.00	0.49	5.00	0.00	1.30	1.30
34.65	2.00	0.49	5.00	0.00	1.30	1.30
34.70	2.00	0.49	5.00	0.00	1.30	1.30
34.75	2.00	0.49	5.00	0.00	1.30	1.30
34.80	2.00	0.49	5.00	0.00	1.30	1.30
34.85	2.00	0.49	5.00	0.00	1.30	1.30
34.90	2.00	0.49	5.00	0.00	1.30	1.30
34.95	2.00	0.49	5.00	0.00	1.30	1.30
35.00	2.00	0.49	5.00	0.00	1.30	1.30
35.05	2.00	0.49	5.00	0.00	1.30	1.30
35.10	2.00	0.48	5.00	0.00	1.30	1.30
35.15	2.00	0.48	5.00	0.00	1.30	1.30
35.20	2.00	0.48	5.00	0.00	1.30	1.30
35.25	2.00	0.48	5.00	0.00	1.30	1.30
35.30	2.00	0.48	5.00	0.00	1.30	1.30
35.35 35.40	2.00 2.00	0.48	5.00	0.00	1.30	$\frac{1.30}{1.30}$
35.45	2.00	0.48 0.48	5.00 5.00	$0.00 \\ 0.00$	$\begin{array}{c} 1.30 \\ 1.30 \end{array}$	1.30
35.50	2.00	0.48	5.00	0.00	1.30	$\frac{1.30}{1.30}$
35.55	2.00	0.48	5.00	0.00	1.30	1.30
35.60	2.00	0.48	5.00	0.00	1.30	1.30
35.65	2.00	0.48	5.00	0.00	1.30	1.30
35.70	2.00	0.48	5.00	0.00	1.30	1.30
35.75	2.00	0.48	5.00	0.00	1.30	1.30
35.80	2.00	0.48	5.00	0.00	1.30	1.30
35.85	2.00	0.48	5.00	0.00	1.30	1.30
35.90	2.00	0.48	5.00	0.00	1.30	1.30
35.95	2.00	0.48	5.00	0.00	1.30	1.30
36.00	2.00	0.48	5.00	0.00	1.30	1.30
36.05	2.00	0.48	5.00	0.00	1.30	1.30
36.10 36.15	2.00 2.00	0.48 0.48	5.00 5.00	$0.00 \\ 0.00$	1.30	1.30
36.20	2.00	0.48	5.00	0.00	$\frac{1.30}{1.30}$	$\frac{1.30}{1.30}$
36.25	2.00	0.48	5.00	0.00	1.30	1.30
36.30	2.00	0.48	5.00	0.00	1.30	1.30
36.35	2.00	0.48	5.00	0.00	1.30	1.30
36.40	2.00	0.48	5.00	0.00	1.30	1.30
36.45	2.00	0.48	5.00	0.00	1.30	1.30
36.50	2.00	0.48	5.00	0.00	1.30	1.30
36.55	2.00	0.48	5.00	0.00	1.30	1.30
36.60	2.00	0.48	5.00	0.00	1.30	1.30
36.65	2.00	0.48	5.00	0.00	1.30	1.30
36.70	2.00	0.48	5.00	0.00	1.30	1.30
36.75	2.00	0.48	5.00	0.00	1.30	1.30
36.80	2.00	0.48	5.00	0.00	1.30	1.30
36.85	2.00	0.48	5.00	0.00	1.30	1.30
36.90 36.95	2.00 2.00	0.48 0.48	5.00 5.00	0.00 0.00	1.30 1.30	$\frac{1.30}{1.30}$
37.00	2.00	0.48	5.00	0.00	$\frac{1.30}{1.30}$	$\frac{1.30}{1.30}$
37.00	2.00	0.40	3.00	0.00	1.30	1.30

		ľ	1tn View	HS Stadiu	um EB1.s	um
37.05	0.13	0.48	5.00	0.00	1.30	1.30
37.10	0.13	0.48	5.00	0.00	1.28	1.28
37.15	0.13	0.48	5.00	0.00	1.27	1.27
37.20	0.13	0.48	5.00	0.00	1.25	1.25
37.25	0.13	0.48	5.00	0.00	1.23	1.23
37.30	0.13	0.48	5.00	0.00	1.22	1.22
37.35 37.40	$0.13 \\ 0.13$	0.47	5.00	0.00	1.20	1.20
37.45	$0.13 \\ 0.13$	0.47 0.47	5.00	0.00	$\substack{1.18\\1.17}$	$\frac{1.18}{1.17}$
37.50	0.13	0.47	5.00 5.00	$0.00 \\ 0.00$	$\frac{1.17}{1.15}$	$1.17 \\ 1.15$
37.55	0.13	0.47	5.00	0.00	1.13	1.13
37.60	0.13	0.47	5.00	0.00	1.11	1.11
37.65	0.13	0.47	5.00	0.00	1.10	1.10
37.70	0.13	0.47	5.00	0.00	1.08	1.08
37.75	0.13	0.47	5.00	0.00	1.06	1.06
37.80	0.13	0.47	5.00	0.00	1.05	1.05
37.85	0.13	0.47	5.00	0.00	1.03	1.03
37.90	0.13	0.47	5.00	0.00	1.01	1.01
37.95	0.13	0.47	5.00	0.00	1.00	1.00
38.00	0.13	0.47	5.00	0.00	0.98	0.98
38.05	0.13	0.47	5.00	0.00	0.96	0.96
38.10 38.15	$0.13 \\ 0.13$	0.47	5.00	0.00	0.95	0.95
38.20	$0.13 \\ 0.13$	0.47 0.47	5.00 5.00	0.00 0.00	$0.93 \\ 0.91$	$0.93 \\ 0.91$
38.25	0.13	0.47	5.00	0.00	0.91	0.90
38.30	0.13	0.47	5.00	0.00	0.88	0.88
38.35	0.13	0.47	5.00	0.00	0.86	0.86
38.40	0.13	0.47	5.00	0.00	0.85	0.85
38.45	0.13	0.47	5.00	0.00	0.83	0.83
38.50	0.13	0.47	5.00	0.00	0.81	0.81
38.55	0.13	0.47	5.00	0.00	0.79	0.79
38.60	0.13	0.47	5.00	0.00	0.78	0.78
38.65	0.13	0.47	5.00	0.00	0.76	0.76
38.70	0.13	0.47	5.00	0.00	0.74	0.74
38.75 38.80	$0.13 \\ 0.13$	0.47 0.47	5.00	0.00	0.73	0.73
38.85	0.13	0.47	5.00 5.00	0.00 0.00	0.71 0.69	$0.71 \\ 0.69$
38.90	0.13	0.47	5.00	0.00	0.68	0.68
38.95	0.13	0.47	5.00	0.00	0.66	0.66
39.00	0.13	0.47	5.00	0.00	0.64	0.64
39.05	0.13	0.47	5.00	0.00	0.62	0.62
39.10	0.13	0.47	5.00	0.00	0.61	0.61
39.15	0.13	0.47	5.00	0.00	0.59	0.59
39.20	0.13	0.47	5.00	0.00	0.57	0.57
39.25	0.13	0.47	5.00	0.00	0.56	0.56
39.30	0.13	0.47	5.00	0.00	0.54	0.54
39.35	0.13	0.47	5.00	0.00	0.52	0.52
39.40	0.13	0.47	5.00	0.00	0.50	0.50
39.45 39.50	$\begin{array}{c} 0.13 \\ 0.13 \end{array}$	0.47	5.00	0.00	0.49	0.49
39.55	0.13	0.47 0.47	5.00 5.00	$0.00 \\ 0.00$	0.48 0.47	0.48 0.47
39.60	0.13	0.46	5.00	0.00	0.47	0.47
39.65	0.13	0.46	5.00	0.00	0.46	0.46
39.70	0.13	0.46	5.00	0.00	0.45	0.45
39.75	0.13	0.46	5.00	0.00	0.45	0.45
39.80	0.13	0.46	5.00	0.00	0.44	0.44
39.85	0.13	0.46	5.00	0.00	0.43	0.43
39.90	0.14	0.46	5.00	0.00	0.43	0.43
39.95	0.14	0.46	5.00	0.00	0.42	0.42
40.00	0.14	0.46	5.00	0.00	0.41	0.41
40.05	0.14	0.46	5.00	0.00	0.41	0.41
40.10	0.14	0.46	5.00	0.00	0.40	0.40
40.15	0.14	0.46	5.00	0.00 Page 14	0.39	0.39

			Mtn View	HS Stadi	um EB1.sı	ım
40.20	0.14	0.46	5.00	0.00	0.39	0.39
40.25	0.14	0.46	5.00	0.00	0.38	0.38
40.30	0.14	0.46	5.00	0.00	0.38	0.38
40.35	0.14	0.46	5.00	0.00	0.37	0.37
40.40	0.14	0.46	5.00	0.00	0.36	0.36
40.45	0.14	0.46	5.00	0.00	0.36	0.36
40.50	0.14	0.46	5.00	0.00	0.35	0.35
40.55	0.14	0.46	5.00	0.00	0.35	0.35
40.60	0.14	0.46	5.00	0.00	0.34	0.34
40.65	0.14	0.46	5.00	0.00	0.34	0.34
40.70	0.15	0.46	5.00	0.00	0.33	0.33
40.75 40.80	$0.15 \\ 0.15$	0.46 0.46	5.00 5.00	0.00	0.33	0.33
40.85	0.15	0.46	5.00	$0.00 \\ 0.00$	$0.32 \\ 0.31$	0.32 0.31
40.90	0.15	0.46	5.00	0.00	0.31	0.31
40.95	0.15	0.46	5.00	0.00	0.30	0.30
41.00	0.15	0.46	5.00	0.00	0.30	0.30
41.05	0.15	0.46	5.00	0.00	0.29	0.29
41.10	0.15	0.46	5.00	0.00	0.29	0.29
41.15	0.15	0.46	5.00	0.00	0.28	0.28
41.20	0.15	0.46	5.00	0.00	0.28	0.28
41.25	0.15	0.46	5.00	0.00	0.27	0.27
41.30	0.15	0.46	5.00	0.00	0.27	0.27
41.35	0.15	0.46	5.00	0.00	0.26	0.26
41.40	0.15	0.46	5.00	0.00	0.26	0.26
41.45 41.50	$0.15 \\ 0.16$	0.46	5.00 5.00	0.00	0.25	0.25
41.55	$0.16 \\ 0.16$	0.46 0.46	5.00	$0.00 \\ 0.00$	0.25 0.25	0.25 0.25
41.60	0.16	0.46	5.00	0.00	0.24	0.24
41.65	0.16	0.46	5.00	0.00	0.24	0.24
41.70	0.16	0.46	5.00	0.00	0.23	0.23
41.75	0.16	0.46	5.00	0.00	0.23	0.23
41.80	0.16	0.46	5.00	0.00	0.22	0.22
41.85	0.16	0.45	5.00	0.00	0.22	0.22
41.90	0.16	0.45	5.00	0.00	0.21	0.21
41.95	0.16	0.45	5.00	0.00	0.21	0.21
42.00	0.16	0.45	5.00	0.00	0.21	0.21
42.05	0.16	0.45	5.00	0.00	0.20	0.20
42.10 42.15	$\begin{array}{c} 0.16 \\ 0.16 \end{array}$	0.45 0.45	5.00 5.00	0.00	0.20	0.20
42.13	$0.10 \\ 0.17$	0.45	5.00	$0.00 \\ 0.00$	$\substack{0.19\\0.19}$	$0.19 \\ 0.19$
42.25	0.17	0.45	5.00	0.00	0.18	0.18
42.30	0.17	0.45	5.00	0.00	0.18	0.18
42.35	0.17	0.45	5.00	0.00	0.18	0.18
42.40	0.17	0.45	5.00	0.00	0.17	0.17
42.45	0.17	0.45	5.00	0.00	0.17	0.17
42.50	0.17	0.45	5.00	0.00	0.16	0.16
42.55	0.17	0.45	5.00	0.00	0.16	0.16
42.60	0.17	0.45	5.00	0.00	0.16	0.16
42.65	0.17	0.45	5.00	0.00	0.15	0.15
42.70	0.17	0.45	5.00	0.00	0.15	0.15
42.75 42.80	$0.17 \\ 0.17$	0.45 0.45	5.00 5.00	$0.00 \\ 0.00$	0.14 0.14	0.14 0.14
42.85	0.17	0.45	5.00	0.00	$0.14 \\ 0.14$	$0.14 \\ 0.14$
42.90	0.18	0.45	5.00	0.00	0.14	$0.14 \\ 0.13$
42.95	0.18	0.45	5.00	0.00	0.13	0.13
43.00	0.18	0.45	5.00	0.00	0.13	0.13
43.05	0.18	0.45	5.00	0.00	0.12	0.12
43.10	0.18	0.45	5.00	0.00	0.12	0.12
43.15	0.18	0.45	5.00	0.00	0.12	0.12
43.20	0.18	0.45	5.00	0.00	0.11	0.11
43.25	0.18	0.45	5.00	0.00	0.11	0.11
43.30	0.18	0.45	5.00	0.00	0.11	0.11

```
Mtn View HS Stadium EB1.sum
                   0.45
43.35
         0.18
                             5.00
                                      0.00
                                                         0.10
43.40
         0.18
                   0.45
                                      0.00
                             5.00
                                                         0.10
                                                0.10
                                      0.00
43.45
         0.18
                   0.45
                            5.00
                                                0.09
                                                         0.09
43.50
43.55
         0.18
                   0.45
                            5.00
                                      0.00
                                                0.09
                                                         0.09
                   0.45
                            5.00
         0.19
                                      0.00
                                                0.09
                                                         0.09
43.60
         0.19
                   0.45
                             5.00
                                      0.00
                                                0.08
                                                         0.08
43.65
         0.19
                   0.45
                             5.00
                                                0.08
                                      0.00
                                                         0.08
43.70
         0.19
                   0.45
                            5.00
                                      0.00
                                                0.08
                                                         0.08
43.75
         0.19
                   0.45
                             5.00
                                      0.00
                                                0.08
                                                         0.08
43.80
         0.19
                   0.45
                             5.00
                                      0.00
                                                0.07
                                                         0.07
43.85
         0.19
                   0.45
                             5.00
                                      0.00
                                                0.07
                                                         0.07
43.90
43.95
44.00
         0.19
                   0.45
                            5.00
                                      0.00
                                                0.07
                                                         0.07
         0.19
                            5.00
                                      0.00
                   0.45
                                                0.06
                                                         0.06
         0.19
                                                         0.06
                   0.45
                            5.00
                                      0.00
                                                0.06
44.05
         0.19
                   0.45
                            5.00
                                      0.00
                                                0.06
                                                         0.06
44.10
         0.19
                   0.44
                                      0.00
                            5.00
                                                0.05
                                                         0.05
                            5.00
44.15
         0.20
                   0.44
                                      0.00
                                               0.05
                                                         0.05
44.20
         0.20
                   0.44
                            5.00
                                      0.00
                                               0.05
                                                         0.05
44.25
         0.20
                   0.44
                            5.00
                                      0.00
                                               0.04
                                                         0.04
44.30
                   0.44
                                      0.00
         0.20
                            5.00
                                               0.04
                                                         0.04
44.35
                   0.44
                                      0.00
         0.20
                            5.00
                                               0.04
                                                         0.04
44.40
         0.20
                   0.44
                                      0.00
                                               0.03
                            5.00
                                                         0.03
44.45
44.50
44.55
                   0.44
         0.20
                            5.00
                                      0.00
                                               0.03
                                                         0.03
         0.20
0.20
0.20
                   0.44
                            5.00
                                      0.00
                                               0.03
                                                         0.03
                   0.44
                            5.00
                                      0.00
                                               0.03
                                                         0.03
44.60
                   0.44
                                      0.00
                            5.00
                                               0.02
                                                         0.02
44.65
         0.20
                   0.44
                            5.00
                                      0.00
                                               0.02
                                                         0.02
44.70
         0.20
                   0.44
                            5.00
                                      0.00
                                               0.02
                                                         0.02
44.75
44.80
         0.20
                   0.44
                            5.00
                                      0.00
                                               0.01
                                                         0.01
         0.20
                   0.44
                            5.00
                                      0.00
                                               0.01
                                                         0.01
44.85
         0.20
                   0.44
                            5.00
                                      0.00
                                               0.01
                                                         0.01
44.90
44.95
         0.20
                   0.44
                                      0.00
                            5.00
                                               0.01
                                                         0.01
         0.20
                   0.44
                            5.00
                                      0.00
                                               0.00
                                                         0.00
45.00
         0.20
                   0.44
                            5.00
                                      0.00
                                               0.00
                                                         0.00
```

\* F.S.<1, Liquefaction Potential Zone
(F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

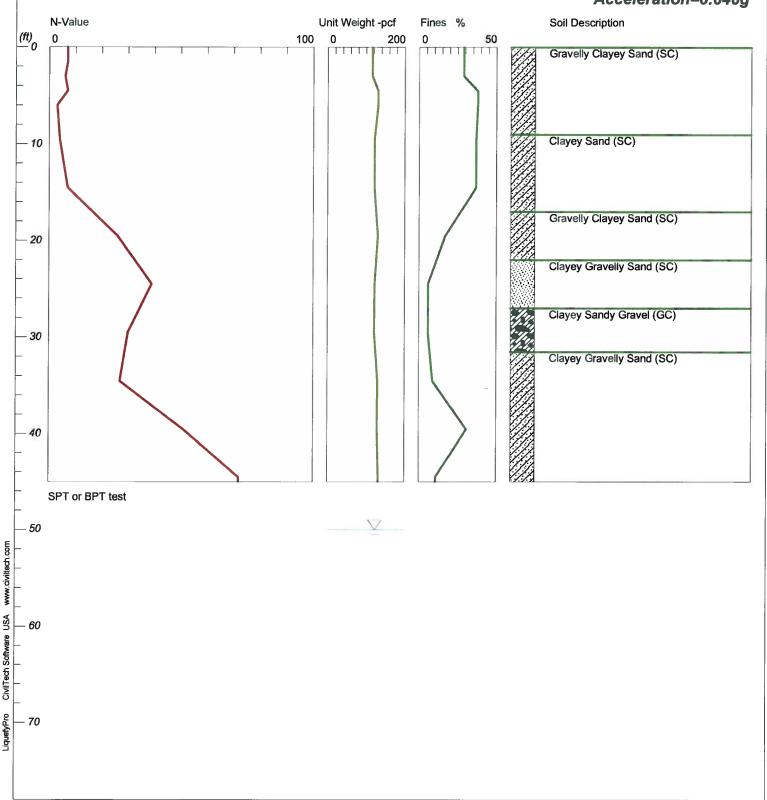
```
1 \text{ atm (atmosphere)} = 1 \text{ tsf (ton/ft2)}
                         Cyclic resistance ratio from soils
        CRRm
        CSRsf
                         Cýclic stress ratio induced by a given earthquake (with user
request factor of safety)
                         Factor of Safety against liquefaction, F.S.=CRRm/CSRsf
        F.S.
        S_sat
                         Settlement from saturated sands
        S_dry
                         Settlement from Unsaturated Sands
        s_all
                         Total Settlement from Saturated and Unsaturated Sands
        NoLiq
                         No-Liquefy Soils
```

# **LIQUEFACTION ANALYSIS**

## **Mountain View HS School Stadium Improvements**

Hole No.=EB-3 Water Depth=50 ft

Magnitude=8.5
Acceleration=0.646g

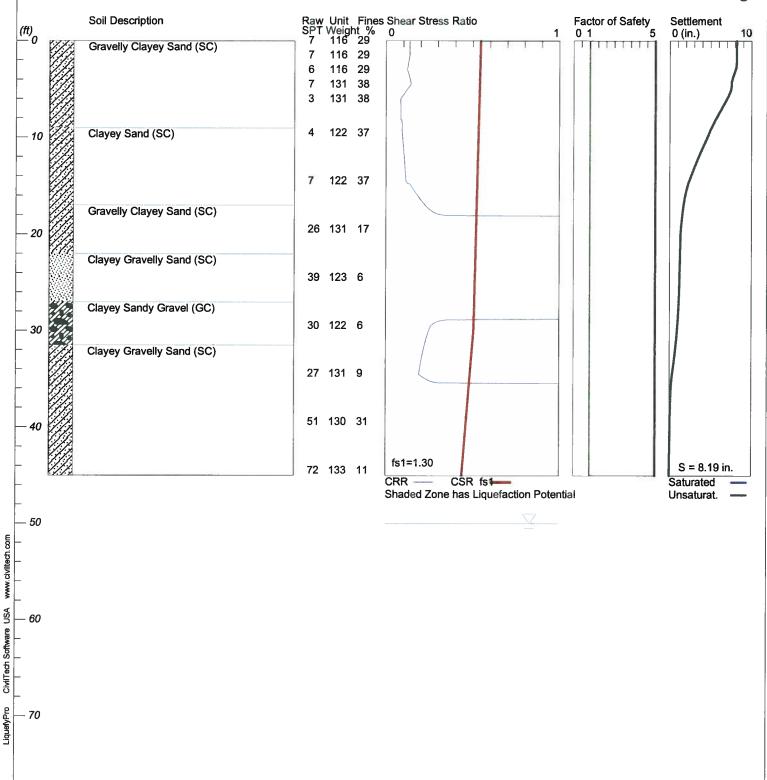


## **LIQUEFACTION ANALYSIS**

## **Mountain View HS School Stadium Improvements**

Hole No.=EB-3 Water Depth=50 ft

Magnitude=8.5 Acceleration=0.646g



#### Mtn View HS Stadium EB3.sum

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*

#### LIQUEFACTION ANALYSIS SUMMARY

Copyright by CivilTech Software www.civiltechsoftware.com

\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\* Font: Courier New, Regular, Size 8 is recommended for this report. Licensed to , 3/25/2014 4:07:58 PM Input File Name: \\GRANT-PC\Grant Rough Drafts\Liquefy Pro Data Files\Mtn View HS Stadium EB3.liq Title: Mountain View HS School Stadium Improvements Subtitle: Surface Elev.= Hole No.=EB-3 Depth of Hole= 45.00 ft Water Table during Earthquake= 50.00 ft Water Table during In-Situ Testing= 50.00 ft Max. Acceleration 0.65 g Earthquake Magnitude= 8.50 Input Data: Surface Elev.= Hole No.=EB-3 Depth of Hole=45.00 ft Water Table during Earthquake= 50.00 ft Water Table during In-Situ Testing= 50.00 ft Max. Acceleration=0.65 g Earthquake Magnitude=8.50 No-Liquefiable Soils: CL, OL are Non-Lig. Soil 1. SPT or BPT Calculation. 2. Settlement Analysis Method: Tokimatsu, M-correction 3. Fines Correction for Liquefaction: Idriss/Seed 4. Fine Correction for Settlement: During Liquefaction\* 5. Settlement Calculation in: All zones\* Hammer Energy Ratio,
 Borehole Diameter, Ce = 1.25Cb=1Cs=18. Sampling Method. 9. User request factor of safety (apply to CSR), User= 1.3Plot one CSR curve (fs1=User) 10. Use Curve Smoothing: Yes\* \* Recommended Options

In-Situ Depth ft	Test SPT	Data: gamma pcf	Fines %	
0.00	7.00	116.00	29.00	
1.50	7.00	116.00	29.00	
3.00	6.00	116.00	29.00	
4.50	7.00	131.00	38.00	
6.00	3.00	131.00	38.00	
9.50	4.00	122.00	37.00	
14.50	7.00	122.00	37.00	
19.50	26.00	131.00	17.00	
24.50	39.00	123.00	6.00	

## Mtn View HS Stadium EB3.sum

29.50	30.00	122.00	6.00	
34.50	27.00	131.00	9.00	
39.50	51.00	130.00	31.00	
44.50	72.00	133.00	11.00	

Output Results:
Settlement of Saturated Sands=0.00 in.
Settlement of Unsaturated Sands=8.19 in.
Total Settlement of Saturated and Unsaturated Sands=8.19 in.
Differential Settlement=4.094 to 5.404 in.

Depth CRRm CSRfs	F.S.	S_sat.	S_dry	S_all
ft		in.	in.	in.
0.00       0.14       0.55         0.05       0.14       0.55         0.10       0.14       0.55         0.15       0.14       0.55         0.20       0.14       0.55         0.25       0.14       0.55         0.30       0.14       0.55         0.35       0.14       0.55         0.40       0.14       0.55         0.45       0.14       0.55         0.45       0.14       0.55         0.50       0.14       0.55         0.50       0.14       0.55         0.50       0.14       0.55         0.50       0.14       0.55         0.50       0.14       0.55         0.50       0.14       0.55         0.60       0.14       0.55         0.70       0.14       0.54         0.80       0.14       0.54         0.81       0.14       0.54         0.82       0.14       0.54         0.95       0.14       0.54         1.00       0.14       0.54         1.10       0.14       0.54         1.20       0.14	5.00 5.00 5.00 5.00 5.00 5.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8.19 8.19 8.19 8.19 8.19 8.19 8.19 8.19	8.19 8.19 8.19 8.19 8.19 8.19 8.19 8.19

				HS Stadium	n EB3.9	
2.40	0.13	0.54	5.00	0.00	8.15	8.15
2.45	0.13	0.54	5.00	0.00	8.15	8.15
2.50 2.55	$0.13 \\ 0.13$	0.54 0.54	5.00 5.00	0.00	8.15	8.15
2.60	$0.13 \\ 0.13$	0.54	5.00	0.00 0.00	8.14 8.14	8.14 8.14
2.65	0.13	0.54	5.00	0.00	8.13	8.13
2.70	0.13	0.54	5.00	0.00	8.12	8.12
2.75	0.12	0.54	5.00	0.00	8.11	8.11
2.80	0.12	0.54	5.00	0.00	8.10	8.10
2.85	0.12	0.54	5.00	0.00	8.08	8.08
2.90	0.12	0.54	5.00	0.00	8.06	8.06
2.95	0.12	0.54	5.00	0.00	8.04	8.04
3.00	0.12	0.54	5.00	0.00	8.02	8.02
3.05 3.10	$\substack{0.12\\0.12}$	0.54 0.54	5.00 5.00	0.00	8.00	8.00
3.15	0.12	0.54	5.00	0.00 0.00	7.98 7.96	7.98 7.96
3.20	0.13	0.54	5.00	0.00	7.94	7.94
3.25	0.13	0.54	5.00	0.00	7.92	7.92
3.30	0.13	0.54	5.00	0.00	7.90	7.90
3.35	0.13	0.54	5.00	0.00	7.88	7.88
3.40	0.13	0.54	5.00	0.00	7.86	7.86
3.45	0.13	0.54	5.00	0.00	7.84	7.84
3.50	$0.13 \\ 0.13$	0.54	5.00	0.00	7.82	7.82
3.55 3.60	0.13	0.54 0.54	5.00 5.00	0.00 0.00	7.80 7.78	7.80 7.78
3.65	0.13	0.54	5.00	0.00	7.77	7.77
3.70	0.13	0.54	5.00	0.00	7.75	7.75
3.75	0.13	0.54	5.00	0.00	7.73	7.73
3.80	0.14	0.54	5.00	0.00	7.71	7.71
3.85	0.14	0.54	5.00	0.00	7.69	7.69
3.90	0.14	0.54	5.00	0.00	7.68	7.68
3.95	0.14	0.54	5.00	0.00	7.66	7.66
4.00 4.05	0.14 0.14	0.54 0.54	5.00 5.00	0.00	7.64 7.62	7.64
4.10	$0.14 \\ 0.14$	0.54	5.00	0.00 0.00	7.62	7.62 7.61
4.15	0.14	0.54	5.00	0.00	7.59	7.59
4.20	0.14	0.54	5.00	0.00	7.57	7.59 7.57
4.25	0.14	0.54	5.00	0.00	7.57	7.57
4.30	0.14	0.54	5.00	0.00	7.57	7.57
4.35	0.14	0.54	5.00	0.00	7.56	7.56
4.40	0.14	0.54	5.00	0.00	7.56	7.56
4.45 4.50	0.14 0.14	0.54 0.54	5.00 5.00	0.00 0.00	7.56 7.56	7.56 7.56
4.55	$0.14 \\ 0.14$	0.54	5.00	0.00	7.55	7.55
4.60	0.14	0.54	5.00	0.00	7.55	7.55
4.65	0.14	0.54	5.00	0.00	7.54	7.54
4.70	0.14	0.54	5.00	0.00	7.54	7.54
4.75	0.13	0.54	5.00	0.00	7.53	7.53
4.80	0.13	0.54	5.00	0.00	7.53	7.53
4.85	0.13	0.54	5.00	0.00	7.52	7.52
4.90	0.13	0.54	5.00	0.00	7.51 7.50	7.51
4.95 5.00	$\substack{0.13\\0.12}$	0.54 0.54	5.00 5.00	$0.00 \\ 0.00$	7.49	7.50 7.49
5.05	0.12	0.54	5.00	0.00	7.43	7.49
5.10	0.12	0.54	5.00	0.00	7.45	7.45
5.15	0.12	0.54	5.00	0.00	7.43	7.43
5.20	0.12	0.54	5.00	0.00	7.41	7.41
5.25	0.11	0.54	5.00	0.00	7.39	7.39
5.30	$\substack{0.11\\0.11}$	0.54	5.00	0.00	7.37	7.37
5.35 5.40	$0.11 \\ 0.11$	0.54 0.54	5.00 5.00	0.00 0.00	7.34 7.32	7.34 7.32
5.45	$0.11 \\ 0.11$	0.54	5.00	0.00	7.32	7.32
5.50	0.10	0.54	5.00	0.00	7.27	7.27
				Dana 3	-	

			Mtn View	<b>HS</b> Stadium	EB3.sum	
5.55	0.10	0.54	5.00	0.00	7.25	7.25
5.60	0.10	0.54	5.00	0.00	7.22	7.22
5.65	0.10	0.54	5.00	0.00	7.20	7.20
5.70	0.10	0.54	5.00	0.00	7.17	7.17
5.75	0.09	0.54	5.00	0.00	7.14	7.14
5.80 5.85	$0.09 \\ 0.09$	0.54 0.54	5.00 5.00	0.00	7.11	7.11
5.90	0.09	0.54	5.00	0.00 0.00	7.08 7.05	7.08 7.05
5.95	0.09	0.54	5.00	0.00	7.03	7.02
6.00	0.08	0.54	5.00	0.00	6.99	6.99
6.05	0.08	0.54	5.00	0.00	6.96	6.96
6.10	0.08	0.54	5.00	0.00	6.93	6.93
6.15	0.08	0.54	5.00	0.00	6.89	6.89
6.20	0.08	0.54	5.00	0.00	6.86	6.86
6.25	0.08	0.54	5.00	0.00	6.83	6.83
6.30	0.08	0.54	5.00		6.80	6.80
6.35	0.08	0.54	5.00		6.76	6.76
6.40 6.45	0.08 0.08	0.54 0.54	5.00 5.00		6.73 6.70	6.73
6.50	0.08	0.54	5.00			6.70 6.67
6.55	0.08	0.54	5.00		6.63	6.63
6.60	0.08	0.54	5.00	0.00		6.60
6.65	0.08	0.54	5.00		6.57	6.57
6.70	0.08	0.54	5.00		6.54	6.54
6.75	0.08	0.54	5.00	0.00	6.50	6.50
6.80	0.08	0.54	5.00			6.47
6.85	0.08	0.54	5.00			6.44
6.90	0.08	0.54	5.00			6.41
6.95	0.08	0.54	5.00			6.37
7.00 7.05	0.08 0.08	0.54 0.54	5.00 5.00		6.34 6.31	6.34 6.31
7.03	0.08	0.54	5.00			6.28
7.15	0.08	0.54	5.00			6.25
7.20	0.09	0.54	5.00	0.00	6.21	6.21
7.25	0.09	0.54	5.00			6.18
7.30	0.09	0.54	5.00			6.15
7.35	0.09	0.54	5.00	0.00	6.12	6.12
7.40	0.09	0.54	5.00		6.08	6.08
7.45	0.09	0.54	5.00			6.05
7.50	0.09	0.54	5.00			6.02
7.55 7.60	$0.09 \\ 0.09$	0.54 0.54	5.00 5.00	0.00		5.99 5.96
7.65	0.09	0.54	5.00	0.00 0.00	5.92	5.92
7.70	0.09	0.54	5.00			5.89
7.75	0.09	0.54	5.00			5.86
7.80	0.09	0.54	5.00	0.00	5.83	5.83
7.85	0.09	0.54	5.00		5.79	5.79
7.90	0.09	0.54	5.00	0.00	5.76	5.76
7.95	0.09	0.54	5.00			5.73
8.00	0.09	0.54	5.00		5.70	5.70
8.05 8.10	0.09	0.54 0.54	5.00	0.00		5.67
8.15	$0.09 \\ 0.09$	0.54	5.00 5.00	0.00 0.00	5.63 5.60	5.63 5.60
8.20	0.09	0.54	5.00	0.00		5.57
8.25	0.09	0.54	5.00	0.00	5.54	5.54
8.30	0.09	0.54	5.00	0.00	5.51	5.51
8.35	0.09	0.54	5.00			5.48
8.40	0.09	0.54	5.00	0.00	5.45	5.45
8.45	0.09	0.54	5.00			5.42
8.50	0.09	0.54	5.00	0.00		5.39
8.55	0.09	0.53	5.00		5.36	5.36
8.60	0.09	0.53	5.00			5.33
8.65	0.09	0.53	5.00	0.00	5.30	5.30

		M	Itn View	HS Stadiu	ım EB3.sı	um
8.70	0.09	0.53	5.00	0.00	5.28	5.28
8.75	0.09	0.53	5.00	0.00	5.25	5.25
8.80	0.09	0.53	5.00	0.00	5.22	5.22
8.85	0.09	0.53	5.00	0.00	5.19	5.19
8.90	0.09	0.53	5.00	0.00	5.16	5.16
8.95	0.09	0.53	5.00	0.00	5.13	5.13
9.00	0.09	0.53	5.00	0.00	5.10	5.10
9.05	0.09	0.53	5.00	0.00	5.07	5.07
9.10	0.09	0.53	5.00	0.00	5.04	5.04
9.15	0.09	0.53	5.00	0.00	5.01	5.01
9.20	0.09	0.53	5.00	0.00	4.98	4.98
9.25	0.09	0.53	5.00	0.00	4.96	4.96
9.30	0.09	0.53	5.00	0.00	4.93	4.93
9.35 9.40	$0.09 \\ 0.09$	0.53 0.53	5.00 5.00	$0.00 \\ 0.00$	4.91 4.89	4.91
9.45	0.09	0.53	5.00	0.00	4.86	4.89 4.86
9.50	0.09	0.53	5.00	0.00	4.84	4.84
9.55	0.09	0.53	5.00	0.00	4.82	4.82
9.60	0.09	0.53	5.00	0.00	4.79	4.79
9.65	0.09	0.53	5.00	0.00	4.77	4.77
9.70	0.09	0.53	5.00	0.00	4.74	4.74
9.75	0.09	0.53	5.00	0.00	4.72	4.72
9.80	0.09	0.53	5.00	0.00	4.69	4.69
9.85	0.09	0.53	5.00	0.00	4.67	4.67
9.90	0.10	0.53	5.00	0.00	4.64	4.64
9.95	0.10	0.53	5.00	0.00	4.62	4.62
10.00	0.10	0.53	5.00	0.00	4.59	4.59
10.05	0.10	0.53	5.00	0.00	4.57	4.57
10.10	0.10	0.53	5.00	0.00	4.54	4.54
10.15	0.10	0.53	5.00	0.00	4.52	4.52
10.20	0.10	0.53	5.00	0.00	4.49	4.49
10.25	0.10	0.53	5.00	0.00	4.46	4.46
10.30	0.10	0.53	5.00	0.00	4.44	4.44
10.35	0.10	0.53	5.00	0.00	4.41	4.41
10.40	$\begin{array}{c} 0.10 \\ 0.10 \end{array}$	0.53	5.00	0.00	4.38	4.38
10.45 10.50	$0.10 \\ 0.10$	0.53 0.53	5.00 5.00	0.00 0.00	4.36 4.33	4.36 4.33
10.55	$0.10 \\ 0.10$	0.53	5.00	0.00	4.30	4.30
10.60	0.10	0.53	5.00	0.00	4.27	4.27
10.65	0.10	0.53	5.00	0.00	4.25	4.25
10.70	0.10	0.53	5.00	0.00	4.22	4.22
10.75	0.10	0.53	5.00	0.00	4.19	4.19
10.80	0.10	0.53	5.00	0.00	4.17	4.17
10.85	0.10	0.53	5.00	0.00	4.14	4.14
10.90	0.10	0.53	5.00	0.00	4.11	4.11
10.95	0.10	0.53	5.00	0.00	4.09	4.09
11.00	0.10	0.53	5.00	0.00	4.06	4.06
11.05	0.10	0.53	5.00	0.00	4.04	4.04
11.10	0.10	0.53	5.00	0.00	4.01	4.01
11.15	0.10	0.53	5.00	0.00	3.98	3.98
11.20	0.10	0.53	5.00	0.00	3.96	3.96
11.25	0.10	0.53	5.00	0.00	3.93	3.93
11.30	0.10	0.53	5.00	0.00	$\frac{3.91}{2.00}$	3.91
11.35 11.40	0.10	0.53 0.53	5.00	0.00	3.88	3.88
11.45	$0.10 \\ 0.10$	0.53	5.00 5.00	$0.00 \\ 0.00$	3.85 3.83	3.85
11.50	0.10	0.53	5.00			3.83 3.80
11.55	0.10	0.53 0.53	5.00	$0.00 \\ 0.00$	3.80 3.78	3.78
11.60	0.10	0.53	5.00	0.00	3.75	3.75
11.65	0.10	0.53	5.00	0.00	3.73	3.73
11.70	0.10	0.53	5.00	0.00	3.70	3.70
11.75	0.10	0.53	5.00	0.00	3.68	3.68
11.80	0.10	0.53	5.00	0.00	3.65	3.65
		55		Page 5	5.05	5.05

			Mtn View	HS Stadium	EB3.	sum
11.85	0.10	0.53	5.00	0.00	3.63	3.63
11.90	0.10	0.53	5.00	0.00	3.60	3.60
11.95	0.10	0.53	5.00	0.00	3.58	3.58
12.00	0.11	0.53	5.00	0.00	3.55	3.55
12.05	0.11	0.53	5.00	0.00	3.53	3.53
12.10	0.11	0.53	5.00	0.00	3.50	3.50
12.15	0.11	0.53	5.00	0.00	3.48	3.48
12.20	0.11	0.53	5.00	0.00	3.45	3.45
12.25 12.30	$\substack{0.11\\0.11}$	0.53 0.53	5.00 5.00	$0.00 \\ 0.00$	3.43 3.40	3.43 3.40
12.35	$0.11 \\ 0.11$	0.53	5.00	0.00	3.38	3.38
12.40	$0.11 \\ 0.11$	0.53	5.00	0.00	3.35	3.35
12.45	0.11	0.53	5.00	0.00	3.33	3.33
12.50	0.11	0.53	5.00	0.00	3.31	3.31
12.55	0.11	0.53	5.00	0.00	3.28	3.28
12.60	0.11	0.53	5.00	0.00	3.26	3.26
12.65	0.11	0.53	5.00	0.00	3.23	3.23
12.70	0.11	0.53	5.00	0.00	3.21	3.21
12.75	0.11	0.53	5.00	0.00	3.19	3.19
12.80	0.11	0.53	5.00	0.00	3.16	3.16
12.85	0.11	0.53	5.00	0.00	3.14	3.14
12.90	0.11	0.53	5.00	0.00	3.11	3.11
12.95 13.00	$\substack{0.11\\0.11}$	0.53 0.53	5.00 5.00	0.00 0.00	3.09 3.07	3.09
13.05	$0.11 \\ 0.11$	0.53	5.00	0.00	3.04	3.07 3.04
13.10	$0.11 \\ 0.11$	0.53	5.00	0.00	3.02	3.02
13.15	0.11	0.53	5.00	0.00	3.00	3.00
13.20	0.11	0.53	5.00	0.00	2.97	2.97
13.25	0.11	0.53	5.00	0.00	2.95	2.95
13.30	0.11	0.53	5.00	0.00	2.93	2.93
13.35	0.11	0.53	5.00	0.00	2.90	2.90
13.40	0.11	0.53	5.00	0.00	2.88	2.88
13.45	0.11	0.53	5.00	0.00	2.86	2.86
13.50 13.55	0.11	0.53	5.00	0.00	2.83	2.83
13.60	$0.11 \\ 0.11$	0.53 0.53	5.00 5.00	0.00 0.00	2.81 2.79	2.81 2.79
13.65	$0.11 \\ 0.11$	0.53	5.00	0.00	2.77	2.77
13.70	0.11	0.53	5.00	0.00	2.74	2.74
13.75	0.11	0.53	5.00	0.00	2.72	2.72
13.80	0.11	0.53	5.00	0.00	2.70	2.70
13.85	0.11	0.53	5.00	0.00	2.68	2.68
13.90	0.11	0.53	5.00	0.00	2.65	2.65
13.95	0.11	0.53	5.00	0.00	2.63	2.63
14.00	0.11	0.53	5.00		2.61	2.61
14.05 14.10	$\begin{array}{c} 0.11 \\ 0.11 \end{array}$	0.53 0.53	5.00 5.00	0.00 0.00	2.58 2.56	2.58 2.56
14.15	$0.11 \\ 0.11$	0.53	5.00	0.00	2.54	2.54
14.20	$0.11 \\ 0.11$	0.53	5.00	0.00	2.52	2.52
14.25	0.11	0.53	5.00	0.00	2.50	2.50
14.30	0.11	0.53	5.00	0.00	2.47	2.47
14.35	0.11	0.53 0.53	5.00	0.00	2.45	2.45
14.40	0.12	0.53	5.00	0.00	2.43	2.43
14.45	0.12	0.53	5.00	0.00	2.41	2.41
14.50	0.12	0.53	5.00	0.00	2.38	2.38
14.55	0.12	0.53	5.00	0.00	2.36	2.36
14.60 14.65	0.12 0.12	0.53 0.53	5.00 5.00	0.00	2.34	2.34 2.32
14.70	$0.12 \\ 0.12$	0.53	5.00	0.00 0.00	2.32	2.32
14.75	0.13	0.53	5.00	0.00	2.28	2.28
14.80	$0.13 \\ 0.14$	0.53	5.00	0.00	2.26	2.26
14.85	0.14	0.53	5.00	0.00	2.24	2.24
14.90	0.14	0.53	5.00	0.00	2.23	2.23
14.95	0.14	0.53	5.00	0.00	2.21	2.21
				Dane 6		

			Mtn View	HS Stadiu	ım EB3.s	um
15.00	0.15	0.53	5.00	0.00	2.19	2.19
15.05	0.15	0.53	5.00	0.00	2.18	2.18
15.10	0.15	0.53	5.00	0.00	2.16	2.16
15.15	0.15	0.53	5.00	0.00	2.14	2.14
15.20	0.15	0.53	5.00	0.00	2.13	2.13
15.25	0.15	0.53	5.00	0.00	2.11	2.11
15.30	0.16	0.53	5.00	0.00	2.10	2.10
15.35	0.16	0.53	5.00	0.00	2.08	2.08
15.40	0.16	0.53	5.00	0.00	2.07	2.07
15.45	0.16	0.53	5.00	0.00	2.05	2.05
15.50	0.16	0.53	5.00	0.00	2.04	2.04
15.55	0.17	0.53	5.00	0.00	2.03	2.03
15.60	0.17	0.53	5.00	0.00	2.01	2.01
15.65	0.17	0.53	5.00	0.00	2.00	2.00
15.70	0.17	0.53	5.00	0.00	1.98	1.98
15.75	0.17	0.53	5.00	0.00	1.97	1.97
15.80	0.18	0.53	5.00	0.00	1.96	1.96
15.85	0.18	0.53	5.00	0.00	1.95	1.95
15.90	0.18	0.53	5.00	0.00	1.93	1.93
15.95	0.18	0.53	5.00	0.00	1.92	1.92
16.00	0.18	0.53	5.00	0.00	1.91	1.91
16.05	0.19	0.53	5.00	0.00	1.90	1.90
16.10	0.19	0.53	5.00	0.00	1.88	1.88
16.15	0.19	0.53	5.00	0.00	1.87	1.87
16.20	0.19	0.53	5.00	0.00	1.86	1.86
16.25	0.19	0.53	5.00	0.00	1.85	1.85
16.30	0.20	0.53	5.00	0.00	1.84	1.84
16.35	0.20	0.53	5.00	0.00	1.83	1.83
16.40	0.20	0.52	5.00	0.00	1.82	1.82
16.45	0.20	0.52	5.00	0.00	1.81	1.81
16.50	0.20	0.52	5.00	0.00	1.80	1.80
16.55	0.21	0.52	5.00	0.00	1.79	1.79
16.60	0.21	0.52	5.00	0.00	1.78	1.78
16.65	0.21	0.52	5.00	0.00	1.77	1.77
16.70	0.21	0.52	5.00	0.00	1.76	1.76
16.75	0.22	0.52	5.00	0.00	1.75	1.75
16.80	0.22	0.52	5.00	0.00	1.74	1.74
16.85	0.22	0.52	5.00	0.00	1.73	1.73
16.90	0.22 0.23	0.52	5.00	0.00	1.72	1.72
16.95	0.23	0.52	5.00	0.00	1.72	1.72
17.00	0.23	0.52	5.00	0.00	1.71	1.71
17.05	0.23 0.23	0.52	5.00	0.00	1.70	1.70
17.10		0.52	5.00	0.00	1.69	1.69
17.15	0.24	0.52	5.00	0.00	1.68	1.68
17.20 17.25	0.24 0.24	0.52	5.00	0.00	1.67	1.67
17.23		0.52 0.52	5.00	0.00	1.67	1.67
17.35	0.24	0.52	5.00	0.00	$\frac{1.66}{1.65}$	1.66
17.40	0.25 0.25	0.52	5.00 5.00	0.00	1.65	1.65
17.45	0.25	0.52		0.00	1.64	1.64
	0.23		5.00	0.00	1.63	1.63
17.50 17.55	0.26 0.26	0.52 0.52	5.00	0.00 0.00	1.63	1.63
17.60	0.26	0.52	5.00		1.62	1.62
17.65	0.20	0.52	5.00 5.00	0.00 0.00	1.61	1.61
17.70	0.27 0.27	0.52	5.00	0.00	1.61	1.61
17.75	0.27	0.52	5.00	0.00	$1.60 \\ 1.59$	$\frac{1.60}{1.59}$
17.80	0.28	0.52	5.00	0.00	1.58	1.58
17.85	0.29	0.52	5.00	0.00	1.58	1.58
17.90	0.30	0.52	5.00	0.00	1.57	$\frac{1.56}{1.57}$
17.95	0.31	0.52	5.00	0.00	1.56	1.56
18.00	0.33	0.52	5.00	0.00	1.56	1.56
18.05	0.35	0.52	5.00	0.00	1.55	1.55
18.10	1.45	0.52	5.00	0.00	1.54	1.54
		0.52	3.00		<b>エ・</b> フ⊤	<b>エ・</b> フマ

			Mtn View	HS Stadiu	um EB3.s	um
18.15	1.45	0.52	5.00	0.00	1.54	1.54
18.20	1.45	0.52	5.00	0.00	1.53	1.53
18.25	1.45	0.52	5.00	0.00	1.52	1.52
18.30	1.45	0.52	5.00	0.00	1.52	1.52
18.35	1.45	0.52	5.00	0.00	1.51	1.51
18.40	1.45	0.52	5.00	0.00	1.50	1.50
18.45	1.45	0.52	5.00	0.00	1.50	1.50
18.50	1.45	0.52	5.00	0.00	1.49	1.49
18.55	1.45	0.52	5.00	0.00	1.49	1.49
18.60	1.45	0.52	5.00	0.00	1.48	1.48
18.65	1.45	0.52	5.00	0.00	$\frac{1.47}{1.47}$	1.47
18.70 18.75	1.45 1.45	0.52 0.52	5.00 5.00	$0.00 \\ 0.00$	$1.47 \\ 1.46$	1.47 1.46
18.80	1.45	0.52	5.00	0.00	1.46	1.46
18.85	1.45	0.52	5.00	0.00	1.45	1.45
18.90	1.45	0.52	5.00	0.00	1.44	1.44
18.95	1.45	0.52	5.00	0.00	$\bar{1}.44$	1.44
19.00	1.45	0.52	5.00	0.00	1.43	1.43
19.05	1.45	0.52	5.00	0.00	1.43	1.43
19.10	1.45	0.52	5.00	0.00	1.42	1.42
19.15	1.45	0.52	5.00	0.00	1.42	1.42
19.20	1.45	0.52	5.00	0.00	1.41	1.41
19.25	1.45	0.52	5.00	0.00	1.40	1.40
19.30	1.45	0.52	5.00	0.00	1.40	1.40
19.35	1.45	0.52	5.00	0.00	1.39	1.39
19.40	1.45	0.52	5.00	0.00	1.39	1.39
19.45 19.50	1.45 1.45	0.52 0.52	5.00	0.00	$\substack{1.38\\1.38}$	1.38
19.55	1.45	0.52	5.00 5.00	$0.00 \\ 0.00$	1.36	$\frac{1.38}{1.27}$
19.60	1.45	0.52	5.00	0.00	1.37	$\frac{1.37}{1.37}$
19.65	1.45	0.52	5.00	0.00	1.36	1.36
19.70	1.45	0.52	5.00	0.00	1.35	1.35
19.75	$\tilde{1.45}$	0.52	5.00	0.00	1.35	1.35
19.80	1.45	0.52	5.00	0.00	1.35	1.35
19.85	1.45	0.52	5.00	0.00	1.35	1.35
19.90	1.45	0.52	5.00	0.00	1.34	1.34
19.95	1.45	0.52	5.00	0.00	1.34	1.34
20.00	1.45	0.52	5.00	0.00	1.34	1.34
20.05	1.45	0.52	5.00	0.00	1.34	1.34
20.10	1.45	0.52	5.00	0.00	1.34	1.34
20.15	1.45	0.52	5.00	0.00	1.34	1.34
20.20 20.25	1.45 1.45	0.52 0.52	5.00 5.00	0.00 0.00	1.34 1.34	$1.34 \\ 1.34$
20.23	$\frac{1.45}{1.45}$	0.52	5.00	0.00	1.34	$\frac{1.34}{1.33}$
20.35	1.45	0.52	5.00	0.00	1.33	1.33
20.40	1.45	0.52	5.00	0.00	1.33	1.33
20.45	1.45	0.52	5.00	0.00	1.33	1.33
20.50	1.45	0.52	5.00	0.00	1.33	1.33
20.55	1.45	0.52	5.00	0.00	1.33	1.33
20.60	1.45	0.52	5.00	0.00	1.33	1.33
20.65	1.45	0.52	5.00	0.00	1.33	$\frac{1.33}{1.32}$
20.70	1.45	0.52	5.00	0.00	1.32	1.32
20.75	1.45	0.52	5.00	0.00	1.32	1.32
20.80	1.45	0.52	5.00	0.00	1.32	1.32 1.32
20.85	1.45	0.52	5.00	0.00	1.32	1.32
20.90	1.45 1.45	0.52	5.00	0.00	$\frac{1.32}{1.32}$	1.32
20.95 21.00	$\frac{1.45}{1.45}$	0.52 0.52	5.00 5.00	$0.00 \\ 0.00$	1.32 1.32	1.32 1.32
21.05	1.45	0.52	5.00	0.00	1.32	1.32
21.10	1.45	0.52	5.00	0.00	1.31	1.31
21.15	1.45	0.52	5.00	0.00	1.31	1.31
21.20	1.45	0.52	5.00	0.00	1.31	1.31
21.25	1.45	0.52	5.00	0.00	1.31	1.31
					_	

			Mtn View	HS Stadi	um EB3.si	um
21.30	1.45	0.52	5.00	0.00	1.31	1.31
21.35	1.45	0.52	5.00	0.00	1.31	1.31
21.40	1.45	0.52	5.00	0.00	1.31	1.31
21.45	1.45	0.52	5.00	0.00	1.30	1.30
21.50	1.45	0.52	5.00	0.00	1.30	1.30
21.55	1.45	0.52	5.00	0.00	1.30	1.30
21.60	1.45	0.52	5.00	0.00	$\frac{1.30}{1.30}$	1.30
21.65	1.45	0.52	5.00	0.00	1.30	1.30
21.70	1.45	0.52	5.00	0.00	1.30	1.30
21.75	1.45	0.52	5.00	0.00	1.30	1.30
21.80	1.45	0.52	5.00	0.00	1.30	1.30
21.85	1.45	0.52	5.00	0.00	1.29	1.29
21.90	1.45	0.52	5.00	0.00	1.29	1.29
21.95	1.45	0.52	5.00	0.00	1.29	1.29
22.00	1.45	0.52	5.00	0.00	1.29	1.29
22.05	1.45	0.52	5.00	0.00	1.29	1.29
22.10	1.45	0.52	5.00	0.00	1.29	1.29
22.15	1.45	0.52	5.00	0.00	1.29	1.29
22.20	1.45	0.52	5.00	0.00	1.29	1.29
22.25	1.45	0.52	5.00	0.00	1.28	1.28
22.30	1.45	0.52	5.00	0.00	1.28	1.28
22.35	1.45	0.52	5.00	0.00	1.28	1.28
22.40	1.45	0.52	5.00	0.00	1.28	1.28
22.45	1.45	0.52	5.00	0.00	1.28	1.28
22.50	1.45	0.52	5.00	0.00	1.28	1.28
22.55	1.45	0.52	5.00	0.00	1.28	1.28
22.60	1.45	0.52	5.00	0.00	1.28	1.28
22.65	1.45	0.52	5.00	0.00	1.27	1.27
22.70	1.45	0.52	5.00	0.00	1.27	1.27
22.75	1.45	0.52	5.00	0.00	1.27	1.27
22.80	1.45	0.52	5.00	0.00	1.27	1.27
22.85	1.45	0.52	5.00	0.00	1.27	1.27
22.90	1.45	0.52	5.00	0.00	1.27	1.27
22.95	1.45	0.52	5.00	0.00	1.27	1.27
23.00	1.45	0.52	5.00	0.00	1.27	1.27
23.05	1.45	0.52	5.00	0.00	1.26	1.26
23.10	1.45	0.52	5.00	0.00	1.26	1.26
23.15	1.45	0.52	5.00	0.00	1.26	1.26
23.20 23.25	$1.45 \\ 1.45$	0.52 0.52	5.00	0.00	1.26	1.26
23.30	1.45	0.52	5.00 5.00	0.00 0.00	1.26 1.26	1.26
23.35	1.45	0.52	5.00	0.00	1.26	$\frac{1.26}{1.26}$
23.40	1.45	0.52	5.00	0.00	1.26	1.26
23.45	1.45	0.52	5.00	0.00	1.25	1.25
23.50	1.45	0.52	5.00	0.00	1.25	1.25
23.55	1.45	0.52	5.00	0.00	1 25	1.25
23.60	1.45	0.52	5.00	0.00	1.25 1.25 1.25	1.25
23.65	1.45	0.52	5.00	0.00	1 25	1.25
23.70	1.45	0.52	5.00	0.00	1 25	1.25
23.75	1.45	0.52	5.00	0.00	1.25 1.25	1.25
23.80	1.45	0.52	5.00	0.00	1.25	1.25
23.85	1.45	0.52	5.00	0.00	1.24	1.24
23.90	1.45	0.52	5.00	0.00	1.24	1.24
23.95	1.45	0.52	5.00	0.00	1.24	1.24
24.00	1.45	0.52	5.00	0.00	1.24	1.24
24.05	1.45	0.52	5.00	0.00	1.24	1.24
24.10	1.45	0.52	5.00	0.00	1.24	1.24
24.15	1.45	0.52	5.00	0.00	1.24	1.24
24.20	1.45	0.52	5.00	0.00	1.24	1.24
24.25	1.45	0.52	5.00	0.00	1.23	1.23
24.30	1.45	0.51	5.00	0.00	1.23	1.23
24.35	1.45	0.51	5.00	0.00	1.23	1.23
24.40	1.45	0.51	5.00	0.00	1.23	1.23
				Dage O		

				HS Stadium		
24.45	1.45	0.51	5.00	0.00	1.23	1.23
24.50	1.45	0.51	5.00	0.00	1.23	1.23
24.55	1.45	0.51	5.00	0.00	1.23	1.23
24.60 24.65	$\frac{1.45}{1.45}$	$0.51 \\ 0.51$	5.00 5.00	0.00	1.23	1.23
24.70	1.45	0.51	5.00	$0.00 \\ 0.00$	1.22 1.22	1.22 1.22
24.75	1.45	0.51	5.00	0.00	1.22	1.22
24.80	1.45	0.51	5.00	0.00	1.22	1.22
24.85	1.45	0.51	5.00	0.00	1.22	1.22
24.90	1.45	0.51	5.00	0.00	1.22	1.22
24.95	1.45	0.51	5.00	0.00	1.22	1.22
25.00	1.45	0.51	5.00	0.00	1.22	1.22
25.05	1.45	0.51	5.00	0.00	1.21	1.21
25.10	1.45	0.51	5.00	0.00	1.21	1.21
25.15	1.45	0.51	5.00	0.00	1.21	1.21
25.20	1.45	0.51	5.00	0.00	1.21	1.21
25.25 25.30	1.45 1.45	0.51 0.51	5.00 5.00	$0.00 \\ 0.00$	1.21 1.21	1.21
25.35	1.45	0.51	5.00	0.00	1.21	1.21 1.21
25.40	1.45	0.51	5.00	0.00	1.20	1.20
25.45	1.45	0.51	5.00	0.00	1.20	1.20
25.50	1.45	0.51	5.00	0.00	1.20	1.20
25.55	1.45	0.51	5.00	0.00	1.20	1.20
25.60	1.45	0.51	5.00	0.00	1.20	1.20
25.65	1.45	0.51	5.00	0.00	1.20	1.20
25.70	1.45	0.51	5.00	0.00	1.19	1.19
25.75	1.45	0.51	5.00	0.00	1.19	1.19
25.80	1.45	0.51	5.00	0.00	1.19	1.19
25.85	1.45	0.51	5.00	0.00	1.19	1.19
25.90	1.45	0.51	5.00	0.00	1.19	1.19
25.95 26.00	1.45	0.51	5.00	0.00	1.19	1.19
26.05	$\frac{1.45}{1.45}$	0.51 0.51	5.00 5.00	0.00 0.00	$1.18 \\ 1.18$	$1.18 \\ 1.18$
26.10	1.45	0.51	5.00	0.00	1.18	$\frac{1.18}{1.18}$
26.15	1.45	0.51	5.00		1.18	1.18
26.20	1.46	0.51	5.00		1.18	1.18
26.25	1.46	0.51	5.00		1.17	1.17
26.30	1.46	0.51	5.00		1.17	1.17
26.35	1.46	0.51	5.00		1.17	1.17
26.40	1.46	0.51	5.00		1.17	1.17
26.45	1.46	0.51	5.00		1.17	1.17
26.50	1.46	0.51	5.00	0.00	1.16	1.16
26.55	1.46	0.51	5.00			1.16
26.60 26.65	$1.46 \\ 1.46$	0.51 0.51	5.00			$\frac{1.16}{1.16}$
26.70	1.46	0.51	5.00 5.00	0.00 0.00	1.16 1.15	$1.16 \\ 1.15$
26.75	1.46	0.51	5.00	0.00	1.15	1.15
26.80	1.45	0.51	5.00			1.15
26.85	1.45	0.51	5.00	0.00		1.15
26.90	1.45	0.51	5.00	0.00		1.15
26.95	1.45	0.51	5.00	0.00	1.14	1.14
27.00	1.45	0.51	5.00	0.00		1.14
27.05	1.45	0.51	5.00			1.14
27.10	1.45	0.51	5.00	0.00		1.14
27.15	1.45	0.51	5.00			1.13
27.20	1.45	0.51	5.00			$\frac{1.13}{1.13}$
27.25 27.30	$1.45 \\ 1.45$	$0.51 \\ 0.51$	5.00			$\frac{1.13}{1.12}$
27.30	1.45	0.51	5.00 5.00	0.00		1.13 1.12
27.40	1.45	0.51	5.00			1.12
27.45	1.45	0.51	5.00			1.12
27.50	1.45	0.51	5.00			1.11
27.55	1.45	0.51	5.00			1.11
				Dama 10		

			Mtn View	HS Stadi		
27.60	1.45	0.51	5.00	0.00	1.11	1.11
27.65	1.45	0.51	5.00	0.00	$\frac{1.11}{1.10}$	$\frac{1.11}{1.10}$
27.70 27.75	$\frac{1.45}{1.45}$	0.51 0.51	5.00 5.00	0.00 0.00	$\begin{array}{c} 1.10 \\ 1.10 \end{array}$	$1.10 \\ 1.10$
27.73	$\frac{1.45}{1.45}$	0.51	5.00	0.00	$1.10 \\ 1.10$	$1.10 \\ 1.10$
27.85	1.45	0.51	5.00	0.00	1.09	1.09
27.90	1.45	0.51	5.00	0.00	1.09	1.09
27.95	1.44	0.51	5.00	0.00	1.09	1.09
28.00	1.44	0.51	5.00	0.00	1.08	1.08
28.05	1.44	0.51	5.00	0.00	1.08	1.08
28.10	1.44	0.51	5.00	0.00	1.08	1.08
28.15	1.44	0.51	5.00	0.00	1.08	1.08
28.20	1.44	0.51	5.00	0.00	1.07	1.07
28.25	1.44	0.51	5.00	0.00	1.07	1.07
28.30 28.35	$\frac{1.44}{1.44}$	0.51 0.51	5.00 5.00	0.00	$\substack{1.07\\1.06}$	1.07
28.40	$\frac{1.44}{1.44}$	0.51	5.00	$0.00 \\ 0.00$	1.06 $1.06$	$1.06 \\ 1.06$
28.45	1.44	0.51	5.00	0.00	1.06	1.06
28.50	1.44	0.51	5.00	0.00	1.05	1.05
28.55	$\frac{1.44}{1.44}$	0.51	5.00	0.00	1.05	1.05
28.60	1.44	0.51	5.00	0.00	1.05	1.05
28.65	1.44	0.51	5.00	0.00	1.04	1.04
28.70	1.44	0.51	5.00	0.00	1.04	1.04
28.75	1.44	0.51	5.00	0.00	1.04	1.04
28.80	1.44	0.51	5.00	0.00	1.03	1.03
28.85	0.35	0.51	5.00	0.00	1.03	$\frac{1.03}{1.03}$
28.90 28.95	0.33 0.31	$0.51 \\ 0.51$	5.00 5.00	$0.00 \\ 0.00$	$\frac{1.03}{1.02}$	$\frac{1.03}{1.02}$
29.00	0.30	0.51	5.00	0.00	1.02	1.02
29.05	0.30	0.51	5.00	0.00	1.02	1.02
29.10	0.29	0.51	5.00	0.00	$\tilde{1.01}$	1.01
29.15	0.28	0.51	5.00	0.00	1.01	1.01
29.20	0.28	0.51	5.00	0.00	1.00	1.00
29.25	0.28	0.51	5.00	0.00	1.00	1.00
29.30	0.27	0.51	5.00	0.00	1.00	1.00
29.35 29.40	0.27	0.51	5.00	0.00	0.99	0.99
29.40	0.27 0.26	$0.51 \\ 0.51$	5.00 5.00	0.00 0.00	0.99 0.98	$0.99 \\ 0.98$
29.50	0.26	0.51	5.00	0.00	0.98	0.98
29.55	0.26	0.51	5.00	0.00	0.98	0.98
29.60	0.26	0.51	5.00	0.00	0.97	0.97
29.65	0.26	0.51	5.00	0.00	0.97	0.97
29.70	0.25	$0.51 \\ 0.51$	5.00	0.00	0.96	0.96
29.75	0.25	0.51	5.00	0.00	0.96	0.96
29.80	0.25	0.51	5.00	0.00	0.95	0.95
29.85	0.25	0.51	5.00	0.00	0.95	0.95
29.90 29.95	0.25	0.51	5.00 5.00	0.00	0.94	0.94
30.00	0.25 0.25	$0.51 \\ 0.51$	5.00	0.00 0.00	0.94 0.93	0.94 0.93
30.05	0.25	0.51	5.00	0.00	0.93	0.93
30.10	0.25	0.51	5.00	0.00	0.93	0.93
30.15	0.25	0.51	5.00	0.00	0.92	0.92
30.20	0.24	0.51	5.00	0.00	0.92	0.92
30.25	0.24	0.51	5.00	0.00	0.91	0.91
30.30	0.24	0.51	5.00	0.00	0.91	0.91
30.35	0.24	0.51	5.00	0.00	0.90	0.90
30.40 30.45	0.24 0.24	$0.51 \\ 0.51$	5.00	0.00	0.90	0.90
30.45	0.24	0.51	5.00 5.00	$0.00 \\ 0.00$	$0.89 \\ 0.89$	$0.89 \\ 0.89$
30.55	0.24	0.51	5.00	0.00	0.88	0.88
30.60	0.24	0.50	5.00	0.00	0.88	0.88
30.65	0.24	0.50	5.00	0.00	0.87	0.87
30.70	0.24	0.50	5.00	0.00	0.87	0.87

		Mt	n View	HS Stadio	um EB3.su	um
30.75	0.24	0.50	5.00	0.00	0.86	0.86
30.80	0.23	0.50	5.00	0.00	0.86	0.86
30.85	0.23	0.50	5.00	0.00	0.85	0.85
30.90	0.23	0.50	5.00	0.00	0.84	0.84
30.95	0.23	0.50	5.00	0.00	0.84	0.84
31.00	0.23	0.50	5.00	0.00	0.83	0.83
31.05	0.23	0.50	5.00	0.00	0.83	0.83
31.10 31.15	0.23 0.23	0.50 0.50	5.00 5.00	0.00	0.82	0.82 0.82
31.20	0.23	0.50	5.00	$0.00 \\ 0.00$	$\substack{0.82\\0.81}$	0.82
31.25	0.23	0.50	5.00	0.00	0.81	0.81
31.30	0.23	0.50	5.00	0.00	0.80	0.80
31.35	0.23	0.50	5.00	0.00	0.80	0.80
31.40	0.23	0.50	5.00	0.00	0.79	0.79
31.45	0.22	0.50	5.00	0.00	0.78	0.78
31.50	0.22	0.50	5.00	0.00	0.78	0.78
31.55	0.22	0.50	5.00	0.00	0.77	0.77
31.60	0.22	0.50	5.00	0.00	0.77	0.77
31.65	0.22	0.50	5.00	0.00	0.76	0.76
31.70	0.22	0.50	5.00	0.00	0.75	0.75
31.75	0.22	0.50	5.00	0.00	0.75	0.75
31.80	0.22	0.50	5.00	0.00	0.74	0.74
31.85 31.90	0.22 0.22	0.50 0.50	5.00 5.00	0.00	0.74	0.74
31.95	0.22	0.50	5.00	0.00 0.00	0.73 0.72	0.73 0.72
32.00	0.22	0.50	5.00	0.00	0.72	0.72
32.05	0.22	0.50	5.00	0.00	0.71	0.71
32.10	0.22	0.50	5.00	0.00	0.71	0.71
32.15	0.22	0.50	5.00	0.00	0.70	0.70
32.20	0.22	0.50	5.00	0.00	0.69	0.69
32.25	0.21	0.50	5.00	0.00	0.69	0.69
32.30	0.21	0.50	5.00	0.00	0.68	0.68
32.35	0.21	0.50	5.00	0.00	0.67	0.67
32.40	0.21	0.50	5.00	0.00	0.67	0.67
32.45	0.21 0.21	0.50 0.50	5.00 5.00	$0.00 \\ 0.00$	0.66	0.66
32.50 32.55	0.21	0.50	5.00	0.00	0.66 0.65	0.66 0.65
32.60	0.21	0.50	5.00	0.00	0.64	0.64
32.65	0.21	0.50	5.00	0.00	0.64	0.64
32.70	0.21	0.50	5.00	0.00	0.63	0.63
32.75	0.21	0.50	5.00	0.00	0.62	0.62
32.80	0.21	0.50	5.00	0.00	0.61	0.61
32.85	0.21	0.49	5.00	0.00	0.61	0.61
32.90	0.21	0.49	5.00	0.00	0.60	0.60
32.95 33.00	$\substack{0.21\\0.21}$	0.49 0.49	5.00 5.00	0.00 0.00	0.59 0.59	0.59 0.59
33.05	0.21	0.49	5.00	0.00	0.58	0.58
33.10	0.21	0.49	5.00	0.00	0.57	0.57
33.15	0.20	0.49	5.00	0.00	0.57	0.57
33.20	0.20	0.49	5.00	0.00	0.56	0.56
33.25	0.20	0.49	5.00	0.00	0.55	0.55
33.30	0.20	0.49	5.00	0.00	0.54	0.54
33.35	0.20	0.49	5.00	0.00	0.54	0.54
33.40	0.20	0.49	5.00	0.00	0.53	0.53
33.45 33.50	0.20 0.20	0.49 0.49	5.00 5.00	0.00 0.00	0.52 0.52	0.52
33.55	0.20	0.49	5.00	0.00	0.52	0.52 0.51
33.60	0.20	0.49	5.00	0.00	0.50	0.50
33.65	0.20	0.49	5.00	0.00	0.49	0.49
33.70	0.20	0.49	5.00	0.00	0.49	0.49
33.75	0.20	0.49	5.00	0.00	0.48	0.48
33.80	0.20	0.49	5.00	0.00	0.47	0.47
33.85	0.20	0.49	5.00	0.00	0.46	0.46

		М	tn View	HS Stadi	um EB3.s	um
33.90	0.20	0.49	5.00	0.00	0.45	0.45
33.95	0.20	0.49	5.00	0.00	0.45	0.45
34.00	0.20	0.49	5.00	0.00	0.44	0.44
34.05	0.20	0.49	5.00	0.00	0.43	0.43
34.10	0.20	0.49	5.00	0.00	0.42	0.42
34.15	0.20	0.49	5.00	0.00	0.41	0.41
34.20	0.20	0.49	5.00	0.00	0.41	0.41
34.25	0.19	0.49	5.00	0.00	0.40	0.40
34.30	0.19	0.49	5.00	0.00	0.39	0.39
34.35	0.19	0.49	5.00	0.00	0.38	0.38
34.40	0.19	0.49	5.00	0.00	0.37	0.37
34.45 34.50	$0.19 \\ 0.19$	0.49	5.00 5.00	0.00	0.37	0.37
34.55	0.19	0.49 0.49	5.00	0.00 0.00	0.36 0.35	0.36 0.35
34.60	0.20	0.49	5.00	0.00	0.34	0.34
34.65	0.20	0.49	5.00	0.00	0.33	0.33
34.70	0.21	0.49	5.00	0.00	0.33	0.33
34.75	0.21	0.49	5.00	0.00	0.32	0.32
34.80	0.21	0.49	5.00	0.00	0.31	0.31
34.85	0.22	0.49	5.00	0.00	0.30	0.30
34.90	0.22	0.49	5.00	0.00	0.30	0.30
34.95	0.23	0.49	5.00	0.00	0.29	0.29
35.00	0.23	0.49	5.00	0.00	0.28	0.28
35.05	0.24	0.49	5.00	0.00	0.28	0.28
35.10	0.24	0.48	5.00	0.00	0.27	0.27
35.15	0.25	0.48	5.00	0.00	0.27	0.27
35.20	0.25	0.48	5.00	0.00	0.26	0.26
35.25 35.30	0.26 0.27	0.48	5.00 5.00	0.00	0.26	0.26
35.35	0.27	0.48 0.48	5.00	0.00 0.00	0.25 0.25	0.25 0.25
35.40	0.23	0.48	5.00	0.00	0.24	0.24
35.45	1.38	0.48	5.00	0.00	0.24	0.24
35.50	1.38	0.48	5.00	0.00	0.23	0.23
35.55	1.38	0.48	5.00	0.00	0.23	0.23
35.60	1.38	0.48	5.00	0.00	0.22	0.22
35.65	1.38	0.48	5.00	0.00	0.22	0.22
35.70	1.38	0.48	5.00	0.00	0.22	0.22
35.75	1.38	0.48	5.00	0.00	0.21	0.21
35.80	1.38	0.48	5.00	0.00	0.21	0.21
35.85	1.38	0.48	5.00	0.00	0.20	0.20
35.90	1.38	0.48	5.00	0.00	0.20	0.20
35.95 36.00	$\substack{1.38\\1.38}$	0.48	5.00	0.00	0.20	0.20
36.05	1.38	0.48 0.48	5.00 5.00	0.00	$0.19 \\ 0.19$	$0.19 \\ 0.19$
36.10	1.38	0.48	5.00	0.00 0.00	$0.19 \\ 0.19$	0.19
36.15	1.38	0.48	5.00	0.00	0.13	0.18
36.20	1.38	0.48	5.00	0.00	0.18	0.18
36.25	1.38	0.48	5.00	0.00	0.18	0.18
36.30	1.38	0.48	5.00	0.00	0.18	0.18
36.35	1.37	0.48	5.00	0.00	0.17	0.17
36.40	1.37	0.48	5.00	0.00	0.17	0.17
36.45	1.37	0.48	5.00	0.00	0.17	0.17
36.50	1.37	0.48	5.00	0.00	0.16	0.16
36.55	1.37	0.48	5.00	0.00	0.16	0.16
36.60	1.37	0.48	5.00	0.00	0.16	0.16
36.65	$\frac{1.37}{1.37}$	0.48	5.00	0.00	0.16	0.16
36.70 36.75	$\frac{1.37}{1.37}$	0.48	5.00	0.00	0.16	0.16
36.75 36.80	$1.37 \\ 1.37$	0.48 0.48	5.00 5.00	0.00	0.15 0.15	0.15
36.85	1.37	0.48	5.00	$0.00 \\ 0.00$	0.15	$0.15 \\ 0.15$
36.90	1.37	0.48	5.00	0.00	0.15	0.15
36.95	1.37	0.48	5.00	0.00	0.13	0.13
37.00	1.37	0.48	5.00	0.00	0.14	0.14
				Dago 12		~ · <del>- ·</del> ·

		M	tn View	HS Stadi	um EB3.si	um
37.05	1.37	0.48	5.00	0.00	0.14	0.14
37.10	1.37	0.48	5.00	0.00	0.14	0.14
37.15	1.37	0.48	5.00	0.00	0.14	0.14
37.20	1.37	0.48	5.00	0.00	0.14	0.14
37.25	1.37	0.48	5.00	0.00	0.13	0.13
37.30	1.37	0.48	5.00	0.00	0.13	0.13
37.35	1.37	0.47	5.00	0.00	0.13	0.13
37.40	1.37	0.47	5.00	0.00	0.13	0.13
37.45 37.50	$\frac{1.37}{1.37}$	0.47 0.47	5.00	0.00	0.13	0.13
37.55	$\frac{1.37}{1.37}$	0.47	5.00 5.00	$0.00 \\ 0.00$	$\substack{0.13\\0.12}$	$0.13 \\ 0.12$
37.60	1.36	0.47	5.00	0.00	0.12	0.12
37.65	1.36	0.47	5.00	0.00	0.12	0.12
37.70	1.36	0.47	5.00	0.00	0.12	0.12
37.75	1.36	0.47	5.00	0.00	0.12	0.12
37.80	1.36	0.47	5.00	0.00	0.12	0.12
37.85	1.36	0.47	5.00	0.00	0.11	0.11
37.90	1.36	0.47	5.00	0.00	0.11	0.11
37.95	1.36	0.47	5.00	0.00	0.11	0.11
38.00	1.36	0.47	5.00	0.00	0.11	0.11
38.05	1.36	0.47	5.00	0.00	0.11	0.11
38.10 38.15	$\frac{1.36}{1.36}$	0.47 0.47	5.00 5.00	0.00	0.11	0.11
38.20	1.36	0.47	5.00	$0.00 \\ 0.00$	$\substack{0.11\\0.10}$	$\substack{0.11\\0.10}$
38.25	1.36	0.47	5.00	0.00	0.10	0.10
38.30	1.36	0.47	5.00	0.00	0.10	$0.10 \\ 0.10$
38.35	1.36	0.47	5.00	0.00	0.10	0.10
38.40	1.36	0.47	5.00	0.00	0.10	0.10
38.45	1.36	0.47	5.00	0.00	0.10	0.10
38.50	1.36	0.47	5.00	0.00	0.09	0.09
38.55	1.36	0.47	5.00	0.00	0.09	0.09
38.60	1.36	0.47	5.00	0.00	0.09	0.09
38.65 38.70	$\frac{1.36}{1.36}$	0.47 0.47	5.00 5.00	0.00	0.09	0.09
38.75	1.36	0.47	5.00	$0.00 \\ 0.00$	$0.09 \\ 0.09$	$0.09 \\ 0.09$
38.80	1.36	0.47	5.00	0.00	0.09	0.09
38.85	1.35	0.47	5.00	0.00	0.09	0.09
38.90	1.35	0.47	5.00	0.00	0.08	0.08
38.95	1.35	0.47	5.00	0.00	0.08	0.08
39.00	1.35	0.47	5.00	0.00	0.08	0.08
39.05	1.35	0.47	5.00	0.00	0.08	0.08
39.10 39.15	$1.35 \\ 1.35$	0.47	5.00	0.00	0.08	0.08
39.13	$\frac{1.35}{1.35}$	0.47 0.47	5.00	0.00	0.08	0.08
39.25	1.35	0.47	5.00 5.00	0.00 0.00	$\substack{0.08\\0.08}$	$0.08 \\ 0.08$
39.30	1.35	0.47	5.00	0.00	0.08	0.08
39.35	1.35	0.47	5.00	0.00	0.08	0.08
39.40	1.35	0.47	5.00	0.00	0.07	0.07
39.45	1.35	0.47	5.00	0.00	0.07	0.07
39.50	1.35	0.47	5.00	0.00	0.07	0.07
39.55	1.35	0.47	5.00	0.00	0.07	0.07
39.60	1.35	0.46	5.00	0.00	0.07	0.07
39.65	1.33	0.46	5.00	0.00	0.07	0.07
39.70 39.75	1.35 1.35 1.35	0.46 0.46	5.00 5.00	0.00 0.00	0.07 0.07	0.07 0.07
39.80	1.35	0.46	5.00	0.00	0.07	0.07
39.85	1.35	0.46	5.00	0.00	0.07	0.07
39.90	1.35	0.46	5.00	0.00	0.07	0.07
39.95	1.35	0.46	5.00	0.00	0.07	0.07
40.00	1.35	0.46	5.00	0.00	0.07	0.07
40.05	1.35	0.46	5.00	0.00	0.07	0.07
40.10	$\frac{1.35}{1.34}$	0.46	5.00	0.00	0.07	0.07
40.15	1.34	0.46	5.00	0.00	0.06	0.06

		1	Mtn View	HS Stadi	um FR3 s	um
40.20	1.34	0.46	5.00	0.00	0.06	0.06
40.25	1.34	0.46	5.00	0.00	0.06	0.06
40.30	1.34	0.46	5.00	0.00	0.06	0.06
40.35	1.34	0.46	5.00	0.00	0.06	0.06
40.40	1.34	0.46	5.00	0.00	0.06	0.06
40.45	$\frac{1.34}{1.34}$	0.46	5.00	0.00	0.06	0.06
40.50 40.55	$\frac{1.34}{1.34}$	0.46 0.46	5.00 5.00	0.00	0.06	0.06
40.60	1.34	0.46	5.00	0.00 0.00	0.06 0.06	0.06 0.06
40.65	1.34	0.46	5.00	0.00	0.06	0.06
40.70	1.34	0.46	5.00	0.00	0.06	0.06
40.75	1.34	0.46	5.00	0.00	0.06	0.06
40.80	1.34	0.46	5.00	0.00	0.06	0.06
40.85	1.34	0.46	5.00	0.00	0.06	0.06
40.90	1.34	0.46	5.00	0.00	0.05	0.05
40.95 41.00	$1.34 \\ 1.34$	0.46 0.46	5.00 5.00	0.00 0.00	0.05 0.05	0.05 0.05
41.05	1.34	0.46	5.00	0.00	0.05	0.05
41.10	1.34	0.46	5.00	0.00	0.05	0.05
41.15	1.34	0.46	5.00	0.00	0.05	0.05
41.20	1.34	0.46	5.00	0.00	0.05	0.05
41.25	1.34	0.46	5.00	0.00	0.05	0.05
41.30	1.34	0.46	5.00	0.00	0.05	0.05
41.35 41.40	$\frac{1.34}{1.34}$	0.46 0.46	5.00	0.00	0.05	0.05
41.45	$\frac{1.34}{1.34}$	0.46	5.00 5.00	0.00 0.00	0.05 0.05	0.05 0.05
41.50	1.33	0.46	5.00	0.00	0.05	0.05
41.55	1.33	0.46	5.00	0.00	0.05	0.05
41.60	1.33	0.46	5.00	0.00	0.05	0.05
41.65	1.33	0.46	5.00	0.00	0.04	0.04
41.70	1.33	0.46	5.00	0.00	0.04	0.04
41.75 41.80	$\frac{1.33}{1.33}$	0.46 0.46	5.00 5.00	0.00 0.00	0.04	0.04
41.85	1.33	0.45	5.00	0.00	0.04 0.04	0.04 0.04
41.90	1.33	0.45	5.00	0.00	0.04	0.04
41.95	1.33	0.45	5.00	0.00	0.04	0.04
42.00	1.33	0.45	5.00	0.00	0.04	0.04
42.05	1.33	0.45	5.00	0.00	0.04	0.04
42.10	1.33	0.45	5.00	0.00	0.04	0.04
42.15 42.20	$\frac{1.33}{1.33}$	0.45 0.45	5.00 5.00	0.00 0.00	0.04 0.04	0.04 0.04
42.25	1.33	0.45	5.00	0.00	0.04	0.04
42.30	$\frac{1.33}{1.33}$	0.45	5.00	0.00	0.04	0.04
42.35	1.33	0.45	5.00	0.00	0.04	0.04
42.40	1.33	0.45	5.00	0.00	0.03	0.03
42.45	1.33	0.45	5.00	0.00	0.03	0.03
42.50	1.33	0.45	5.00	0.00	0.03	0.03
42.55 42.60	1.33 1.33	0.45 0.45	5.00	0.00	0.03	0.03
42.65	1.33	0.45	5.00 5.00	0.00 0.00	0.03 0.03	0.03 0.03
42.70	1.33	0.45	5.00	0.00	0.03	0.03
42.75	1.33	0.45	5.00	0.00	0.03	0.03
42.80	1.32	0.45	5.00	0.00	0.03	0.03
42.85	1.32 1.32	0.45	5.00	0.00	0.03	0.03
42.90	1.32	0.45	5.00	0.00	0.03	0.03
42.95	$\frac{1.32}{1.32}$	0.45	5.00	0.00	0.03	0.03
43.00 43.05	1.32 1.32	0.45 0.45	5.00 5.00	$0.00 \\ 0.00$	0.03 0.03	$0.03 \\ 0.03$
43.10	1.32	0.45	5.00	0.00	0.03	0.03
43.15	1.32	0.45	5.00	0.00	0.02	0.02
43.20	1.32	0.45	5.00	0.00	0.02	0.02
43.25	1.32	0.45	5.00	0.00	0.02	0.02
43.30	1.32	0.45	5.00	0.00	0.02	0.02

```
Mtn View HS Stadium EB3.sum
                   0.45
43.35
         1.32
                             5.00
                                      0.00
                                                0.02
                                                         0.02
43.40
         1.32
                   0.45
                             5.00
                                      0.00
                                                0.02
                                                         0.02
         1.32
43.45
                   0.45
                             5.00
                                      0.00
                                                0.02
                                                         0.02
43.50
                   0.45
                             5.00
                                      0.00
         1.32
                                                0.02
                                                         0.02
43.55
         1.32
                   0.45
                             5.00
                                      0.00
                                                0.02
                                                         0.02
43.60
         1.32
                   0.45
                             5.00
                                      0.00
                                                0.02
                                                         0.02
         1.32
43.65
                   0.45
                             5.00
                                                         0.02
                                      0.00
                                                0.02
43.70
         1.32
                   0.45
                             5.00
                                      0.00
                                                0.02
                                                         0.02
43.75
                   0.45
         1.32
                             5.00
                                      0.00
                                                0.02
                                                         0.02
43.80
                   0.45
         1.32
                             5.00
                                      0.00
                                                0.02
                                                         0.02
43.85
         1.32
1.32
                   0.45
                             5.00
                                      0.00
                                                0.02
                                                         0.02
43.90
43.95
                             5.00
                   0.45
                                      0.00
                                                0.01
                                                         0.01
         1.32
                   0.45
                             5.00
                                      0.00
                                                0.01
                                                         0.01
44.00
         1.32
1.32
                   0.45
                                      0.00
                             5.00
                                                0.01
                                                         0.01
44.05
                   0.45
                             5.00
                                      0.00
                                                0.01
                                                         0.01
44.10
                   0.44
         1.32
                             5.00
                                      0.00
                                                0.01
                                                         0.01
                             5.00
                                                0.01
44.15
         1.31
                   0.44
                                      0.00
                                                         0.01
44.20
44.25
         1.31
                   0.44
                             5.00
                                      0.00
                                                0.01
                                                         0.01
                   0.44
                                      0.00
         1.31
                             5.00
                                                0.01
                                                         0.01
44.30
                   0.44
                                      0.00
         1.31
                             5.00
                                                0.01
                                                         0.01
44.35
                            5.00
         1.31
                   0.44
                                      0.00
                                                0.01
                                                         0.01
44.40
                   0.44
         1.31
                            5.00
                                      0.00
                                                0.01
                                                         0.01
         1.31
1.31
1.31
44.45
44.50
                                                0.01
                   0.44
                            5.00
                                      0.00
                                                         0.01
                   0.44
                            5.00
                                      0.00
                                                0.01
                                                         0.01
44.55
                            5.00
                   0.44
                                      0.00
                                               0.01
                                                         0.01
44.60
         1.31
                   0.44
                             5.00
                                      0.00
                                               0.01
                                                         0.01
44.65
         1.31
                   0.44
                            5.00
                                      0.00
                                               0.00
                                                         0.00
44.70
44.75
         1.31
                   0.44
                            5.00
                                      0.00
                                               0.00
                                                         0.00
                   0.44
         1.31
                            5.00
                                      0.00
                                               0.00
                                                         0.00
44.80
                   0.44
         1.31
                            5.00
                                      0.00
                                               0.00
                                                         0.00
44.85
                   0.44
                                               0.00
         1.31
                            5.00
                                      0.00
                                                         0.00
44.90
         1.31
                   0.44
                            5.00
                                      0.00
                                               0.00
                                                         0.00
44.95
         1.31
1.31
                   0.44
                            5.00
                                      0.00
                                               0.00
                                                         0.00
45.00
                   0.44
                            5.00
                                      0.00
                                               0.00
                                                         0.00
```

\* F.S.<1, Liquefaction Potential Zone
(F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

```
1 atm (atmosphere) = 1 tsf (ton/ft2)
CRRM Cyclic resistance ratio from soils
CSRsf Cyclic stress ratio induced by a given earthquake (with user request factor of safety)
F.S. Factor of Safety against liquefaction, F.S.=CRRm/CSRsf
S_sat Settlement from saturated sands
S_dry Settlement from Unsaturated Sands
S_all Total Settlement from Saturated and Unsaturated Sands
NOLiq No-Liquefy Soils
```

Christophe A. Ciechanowski, President, GE Grant F. Foster, Vice-President, GE J. Michael Cleary, Principal, CEG, GE

December 19, 2019 Project No. 1307.2Q Ser. 6396

Mr. Mike Mathiesen, Associate Business Services Mountain View – Los Altos Union High School District 1299 Bryant Avenue Mountain View, CA 94040

SUPPLEMENTAL DRILLED PIER FOUNDATION RECOMMENDATIONS

AND UPDATED SEISMIC DESIGN CRITERIA

STADIUM LIGHTING PROJECT MOUNTAIN VIEW HIGH SCHOOL 3535 TRUMAN AVENUE

MOUNTAIN VIEW, CALIFORNIA

Dear Mr. Mathiesen:

RE:

## Introduction

As requested, we are providing additional geotechnical engineering recommendations for the Stadium Lighting project at Mountain View High School in Mountain View, California. Our geotechnical and geologic hazards investigation report (Cleary Consultants Project No. 1307.2D) for the Stadium Improvements Project at Mountain View High School, submitted March 27, 2014, included geologic and seismic hazards analysis, including that for liquefaction and seismically-induced dry soil settlement, and recommendations for grading, utility backfilling, press box and visitor's bleacher spread footing foundation design, slabs-on-grade and pedestrian asphaltic concrete sections, seismic design parameters (2013 California Building Code) and soil corrosivity information. We have additionally previously performed geotechnical/geologic investigations, including associated construction observation and testing services, for a number of projects at Mountain View High School during the period between 2010 and 2019. Relevant information from our prior investigations was used for this supplemental letter.

Per our discussions with DJ Halpert of RGM Kramer and Josh Randall of Musco Sports Lighting, we understand that four new 90-foot tall cantilever light poles (two on each side of the track) are planned to be supported on 36-inch diameter drilled pier foundations. The planned light pole design includes a precast, pre-stressed concrete base extending to a depth of 14-to-20 feet below the ground surface within the planned drilled pier. Musco Sports Lighting has requested drilled pier foundation recommendations based on the above planned design and updated seismic design parameters (2019 California Building Code).

### **Conclusions**

Based on the findings our March 27, 2014 investigation, we judge that there are no geologic hazards or constraints which would preclude the construction of the planned stadium lighting at Mountain View High School. From a soil and foundation engineering standpoint, we also conclude that the improvements can be constructed as planned provided the recommendations of our March 2014 report and this supplemental letter are incorporated into the design and construction of the project.

The exploratory borings drilled for our March 2014 investigation encountered predominantly loose to medium dense clayey sand, silty sand and sandy gravel and firm to stiff gravelly sandy clay and sandy clay of 45 feet. EB-3 and EB-4 encountered up to three and one-half feet of loose fill. Loose granular soils were encountered from the ground surface to a depth of 24 feet below the ground surface in EB-1. The upper soils are considered to have a low to moderate expansion potential based on the laboratory testing data.

Free groundwater was not encountered in our exploratory borings performed at Mountain View High School (2010 through 2019); high groundwater was assumed at 50 feet for our analysis.

The seismically-induced dry soil settlement analysis of the Stadium Improvements project indicated a total theoretical settlement of up to approximately eight inches with approximately four inches of differential settlement predicted over a distance of 50 feet. Based on the above information, we conclude that the likelihood that the new stadium lighting and other site improvements will be damaged by earthquake-induced settlement is low, provided that they are designed to tolerate the predicted settlements.

The supplemental recommendations presented in the remainder of this letter are contingent on our review of the earthwork and foundation plans for the project and our observation of the grading and foundation installation phases of the project.

#### **Stadium Lighting Drilled Pier Foundations**

The drilled piers for the new 90-foot tall cantilever light poles can be supported on cast-in-place, straight shaft friction piers. The piers should extend through any existing fill and loose soil to a depth of at least 25 feet below the ground surface, bearing in the native medium dense to dense gravelly clayey sand and stiff sandy clay soils. Drilled piers should have a minimum diameter of 36 inches. Piers should be spaced no closer than three diameters center to center. The actual

pier diameters and depths for vertical and lateral support requirements should be determined by the project structural engineer.

The portion of the drilled piers within native soils can be designed on the basis of 200 psf skin friction with a 50 percent increase for wind and seismic conditions. Point bearing resistance should be neglected. For resistance to lateral loads, a uniform passive equivalent fluid pressure of 250 pcf up to 2500 psf maximum can be assumed to act over 1.5 times the projected area of the individual pier shaft. The skin friction and passive pressure can be assumed to start two feet below the ground surface. An allowable negative skin friction value of 150 psf within native soil can be used on the pier sidewall to resist uplift forces.

The exploratory borings encountered loose to medium dense granular soil to depths of up to 24 feet below the ground surface, which may be prone to caving if encountered during drilling of the light pole foundations. We understand that the use of steel drilling casings to prevent caving may not be feasible due to design and installation method of the light pole base. As an alternative, the pier holes may be over-drilled using an auger 18 inches (minimum) greater in diameter than that of the planned pier, backfilled with an approved slurry mixture and then redrilled, or an appropriate drilling stabilizing fluid may be used to prevent caving during excavation of the light pole foundations. If drilling fluid is used to stabilize the excavation, concrete should be installed using the tremie method.

The bottom of the pier excavations should be free of loose soil or fall-in prior to installing reinforcing steel and placing concrete. Heavy-duty drilling equipment in good working condition should be used to drill the pier holes. This work should be performed under the observation of our representative.

Reinforcement of the piers should be provided for their full length as determined by the structural engineer's analysis.

Settlements under the anticipated loads are expected to be within tolerable limits for the proposed construction.

#### Seismic Design Parameters

Seismic design values (ASCE 7-16) for the project were determined using the online OSHPD U.S. Seismic Design Maps, the project site coordinates (37.3577 °N, 122.0679 °W) and the subsurface information obtained from the exploratory borings, which was used for determining the site classification. A site-specific seismic hazard analysis is also required (per CBC). The site-specific design parameters should be used for structural design.

A site-specific seismic hazard analysis at the Mountain View High School campus was performed for the Student Union and Auxiliary Gymnasium Buildings project (37.3603° N, 122.0669° W), located approximately 995 feet north-northeast of the stadium. The site-specific analysis was performed in accordance with ASCE 7-16, Chapters 11 and 21, and the 2019 California Building Code with results as follows.

Site Class D – Stiff Soil Profile (SPT Values of 15 to 50 Blows/Foot)

# ASCE 7-16 Values (OSHPD U.S. Seismic Design Maps):

Site Coefficient  $F_a = 1.0$ Site Coefficient  $F_v = Null$ Mapped Spectral Acceleration Values;  $S_S = 1.985$ ,  $S_I = 0.708$ Spectral Response Accelerations;  $SM_S = 1.985$ ,  $SM_I = Null$ Design Spectral Response Accelerations;  $SD_S = 1.323$ ,  $SD_I = Null$ 

#### Site-Specific Ground Motion Analysis Values (ASCE 7-16 and 2019 CBC):

Maximum Considered EQ Spectral Response (0.2 Second Period);  $SM_S = 1.90$  Maximum Considered EQ Spectral Response (1-Second Period);  $SM_1 = 2.32$  Design Spectral Response Acceleration (0.2 Second Period);  $SD_S = 1.27$  Design Spectral Response Acceleration (1-Second Period);  $SD_1 = 1.55$  Seismic Design Category E ( $S_1 > 0.2$ )

#### Plan Review and Construction Observation

We should review the final project plans and specifications for conformance with our findings and recommendations. We should also provide soil engineering observation and testing services during the installation of the new stadium lighting and associated improvements. This will provide the opportunity for correlation of the anticipated conditions with those actually encountered during construction, and thus permit any necessary modifications in our recommendations resulting from change in conditions.

We have performed our analysis in accordance with generally accepted geotechnical engineering principles and practices. No other warranty is implied.

We appreciate the opportunity of serving you on this project. If you have any questions regarding this report, please call.

Very truly yours,

CLEARY CONSULTANTS, INC.

Chris McMahon

Staff Engineering Geologist

Grant Foster

Geotechnical Engineer 2662

2662

CMc/GF:cs

Copies: Addressee (email)

RGM Kramer (email) Attn: DJ Halbert, Fatemeh Saffari Musco Sports Lighting (email) Attn: Josh Randall