

CITY OF NEWPORT BEACH COMMUNITY DEVELOPMENT DEPARTMENT PLANNING DIVISION ACTION REPORT

- TO: CITY COUNCIL, CITY MANAGER AND PLANNING COMMISSION
- FROM: Kimberly Brandt, Community Development Director Brenda Wisneski, Deputy Community Development Director
- SUBJECT: Report of actions taken by the Zoning Administrator, and/or Planning Division staff for the week ending June 26, 2015

ZONING ADMINISTRATOR ACTIONS JUNE 25, 2015

Item 1: Jack's Surfboards/Jack's Girls Outdoor Sales Limited Term Permit No. XP2015-044 (PA2015-077)

2727 Newport Boulevard

Action: Approved by Resolution No. ZA2015-036

Council District 1

COMMUNITY DEVELOPMENT DIRECTOR **OR PLANNING DIVISION STAFF ACTIONS**

- (Non-Hearing Items)
- Item 1: Sage Hill School Staff Approval No. SA2015-006 (PA2015-072) 20402 Newport Coast Drive

Action: Approved This approval supersedes action taken on June 19, 2015

Council District 1

APPEAL PERIOD: An appeal may be filed with the Director of Community Development or City Clerk, as applicable, within fourteen (14) days following the date the action or decision was rendered unless a different period of time is specified by the Municipal Code (e.g., Title 19 allows ten (10) day appeal period for tentative parcel and tract maps, lot line adjustments, or lot mergers). For additional information on filing an appeal, contact the Planning Division at 949 644-3200.

RESOLUTION NO. ZA2015-036

A RESOLUTION OF THE ZONING ADMINISTRATOR OF THE CITY OF NEWPORT BEACH APPROVING LIMITED TERM PERMIT NO. XP2015-044 FOR OUTDOOR SALES FOR JACK'S SURFBOARDS/JACK'S GIRLS LOCATED AT 2727 NEWPORT BOULEVARD (PA2015-077).

THE ZONING ADMINISTRATOR OF THE CITY OF NEWPORT BEACH HEREBY FINDS AS FOLLOWS:

SECTION 1. STATEMENT OF FACTS.

- An application was filed by Jack's Surfboards, with respect to property located at 2727 Newport Boulevard, and legally described as Lake Tract, Lot 4 Block 127, and Lots 5 to 14 including portion of Lots 2/3 lying northerly of 26th Street, and all -except street-Lots 15 to 19, including all in Block 127, Tract 418, requesting approval of a Limited Term Permit for more than 90 days.
- 2. The applicant proposes a Limited Term Permit for a period of 12 months to allow outdoor sales of store merchandise within three (3) parking spaces of the on-site parking lot in front of the Jack's Surfboards/Jack's Girls location. The outdoor sales may take place on various dates, up to nine (9) times throughout a 12-month period beginning with the date of the first sale in August 2015. Each sale may last up to four (4) consecutive days.
- 3. The subject property is located within the Commercial Visitor-Serving (CV) Zoning District and the General Plan Land Use Element category is Visitor-Serving Commercial (CV).
- 4. The subject property is located within the coastal zone. The Coastal Land Use Plan Category is Visitor-Serving Commercial (CV-A 0.00- 0.75 FAR).
- 5. A public hearing was held on June 25, 2015 in the Corona del Mar Conference Room (Bay E-1st Floor) at 100 Civic Center Drive, Newport Beach. A notice of time, place and purpose of the meeting was given in accordance with the Newport Beach Municipal Code. Evidence, both written and oral, was presented to, and considered by, the Zoning Administrator at this meeting.

SECTION 2. CALIFORNIA ENVIRONMENTAL QUALITY ACT DETERMINATION.

- 1. This has been determined to be categorically exempt under the requirements of the California Environmental Quality Act under Class Section 15304, of the California Environmental Quality Act (CEQA) Guidelines Class 4 (Minor Alterations to Land), which exempts minor temporary uses of land having negligible or no permanent effects on the environment.
- 2. This project qualifies for this exemption because there will be no permanent improvements to the site. The two (2) canvas canopies and temporary significant (water-filled or similar) barricades permitted to delineate the temporary sales area within three

(3) parking spaces of the on-site parking lot during the sales are conditioned to be removed at the end of each sale.

SECTION 3. REQUIRED FINDINGS.

In accordance with Section 20.52.040.G (Findings and Decision) of the Newport Beach Municipal Code, the following findings and facts in support of the findings for a Limited Term Permit are set forth:

Finding:

A. The operation of the requested limited duration use at the location proposed and within the time period specified would not be detrimental to the harmonious and orderly growth of the City, or endanger, jeopardize, or otherwise constitute a hazard to the public convenience, health, interest, safety, or general welfare of persons residing or working in the neighborhood of the requested limited duration.

Facts in Support of Finding:

- 1. The limited term permit will allow outdoor sales, which will be limited to nine (9) times throughout a 12-month period beginning with the date of the first sale in August 2015. Each sale may last up to four (4) consecutive days.
- 2. Outdoor sales will be limited to the sale of typical store merchandise and will be conducted in conjunction with the normal hours of operation of Jack's Surfboards/Jack's Girls, typically from 8:00 a.m. to 9:00 p.m.
- 3. Set-up for each sale day will occur prior to opening of the store, and all unsold merchandise will be removed from the outdoor sales area at the end of each sale day.
- 4. The outdoor sales area will be limited to a maximum of three (3) parking spaces located adjacent to the Jack's Surfboards/Jack's Girls storefront. Portable canopies (approximately 10 feet by 10 feet) may be erected within the three (3) parking spaces. As conditioned, no ADA parking spaces will be utilized as part of the outdoor sales area.
- 5. In order to enhance patron safety from vehicular traffic, the applicant has provided and the City Traffic Engineer has approved, a plan illustrating the placement of significant barricades around the perimeter of the outdoor sales area to delineate it from the adjacent parking spaces and drive aisles.
- 6. Similar outdoor sales for Jack's Surfboards, as conditioned and in the same location within the adjacent parking area, have been conducted in the past with approval of the City and have not been proven detrimental.

Finding:

B. The subject lot is adequate in size and shape to accommodate the limited duration use without material detriment to the use and enjoyment of other properties located adjacent to and in the vicinity of the lot.

Facts in Support of Finding:

- The subject site is a commercial property, which is .94 acres in size and developed with two (2) detached buildings occupied by various retail and service uses. Jack's Surfboards/Jack's Girls are retail sales stores which occupy most of the square footage of the larger of the two (2) detached buildings, which is located within the southerly portion of the site.
- 2. Outdoor sales will be conducted within three (3) parking spaces located directly in front of Jack's Surfboards/Jack's Girls storefront. Based upon the site plan, the use of the three (3) parking spaces will not impede traffic circulation on the site, nor will it negatively impact required parking for other uses on the site. As conditioned, no ADA parking spaces will be utilized as part of the outdoor sales area.
- 3. The subject site is bounded by Newport Boulevard to the east, Balboa Boulevard to the west, 28th Street to the north, and 26th Street to the south. The adjacent rights-of-way (Newport Boulevard and Balboa Boulevard) serve as buffers between the nearby residential properties within the R-2 (Two-Unit Residential) Zoning District.

Finding:

C. The subject lot is adequately served by streets or highways having sufficient width and improvements to accommodate the kind and quantity of traffic that the limited duration use would or could reasonably be expected to generate.

Facts in Support of Finding:

1. The subject site has two (2) direct driveway approaches, one (1) from Newport Boulevard on the easterly side of the site and one (1) from Balboa Boulevard on the westerly side. The location of the outdoor sales area will not impede access to the site, and no traffic issues resulting from the outdoor sales are anticipated.

Finding:

D. Adequate temporary parking to accommodate vehicular traffic to be generated by the limited duration use would be available either on-site or at alternate locations acceptable to the Zoning Administrator.

Facts in Support of Finding:

- 1. As conditioned, a maximum of three (3) parking spaces (eighty-six (86) parking spaces on site) will be utilized for the outdoor sales area, and no ADA parking spaces will be utilized as part of the outdoor sales area.
- 2. It is anticipated that, in addition to customers whose destination would be Jack's Surfboards/Jack's Girls, the outdoor sales could attract both pedestrian and vehicular customers of other uses on the site as well as in the surrounding area.
- 3. Per City Code Enforcement records, previous outdoor sales conducted with approval of a use permit by the City and conditioned similarly to this permit have not negatively impacted the parking for neighboring uses on the subject site.

Finding:

E. The limited duration use is consistent with all applicable provisions of the General Plan, any applicable specific plan, Municipal Code, and other City regulations.

Facts in Support of Finding:

- The General Plan Land Use Element category for the site is CV (Commercial Visitor-Serving). The CV designation is intended to provide for accommodations, goods, and services intended to primarily serve visitors to the City. The proposed use is accessory to the existing retail use, will be utilized for a limited duration on-site, and will not impede use of the site consistent with the CV designation.
- 2. The site is located in the CV (Commercial Visitor-Serving) Zoning District. The CV zoning designation is intended to provide for areas appropriate for accommodations, goods, and services intended to serve primarily visitors to the City. The proposed use is accessory to the existing retail use, will be utilized for a limited duration on-site, and will not impede use of the site consistent with the CV designation. The CV zoning district allows temporary uses as specified within the Zoning Code and the proposed limited duration use is consistent with this designation.
- 3. The site is not located within a specific plan area.

SECTION 4. DECISION.

NOW, THEREFORE, BE IT RESOLVED:

1. The Zoning Administrator of the City of Newport Beach hereby approves Limited Term Permit No. XP2015-044, subject to the conditions set forth in "Exhibit A," which is attached hereto and incorporated by reference.

PASSED, APPROVED, AND ADOPTED THIS 25TH DAY OF JUNE, 2015.

AICP, Deputy Director Brenda Wisneski,

EXHIBIT "A"

CONDITIONS OF APPROVAL

PLANNING

- 1. The development shall be in substantial conformance with the approved site plan except as noted in the following conditions.
- 2. Anything not specifically approved by this limited term permit is prohibited and must be addressed by a separate and subsequent review.
- 3. The outdoor sales shall be limited to nine (9) times throughout a 12-month period beginning with the date of the first sale requested in August 2013. Each sale may last up to four (4) consecutive days, provided the number of sale days does not exceed thirty (30) within the 12-month period. The dates requested by the applicant and approved with this permit are as follows: <u>2015</u> August 7, 8, 9; August 14, 15, 16; September 4, 5, 6, 7; November 27, 28, 29; December 23, 24, 26, 27; <u>2016</u> January 1, 2, 3; March 25, 26, 27; June 17, 18, 19; July 1, 2, 3, 4. Any changes to the dates specified shall require that the City be notified in advance.
- 4. To request a change to the sale dates approved with this Limited Term Permit, the applicant shall submit a letter to the Community Development Director requesting the change at least one (1) week prior to the new date.
- 5. This Limited Term Permit shall expire twelve (12) months from the date of the first sale requested in August 2015, unless an extension of up to one (1) additional period of 12 months is granted by the Zoning Administrator in compliance with Section 20.54.060 (Time Limits and Extensions) of the Zoning Code. A letter requesting the extension shall be submitted to the Planning Division no later than thirty (30) days prior to the expiration date of this permit.
- 6. The Limited Term Permit shall be limited to outdoor sales of merchandise associated with Jack's Surfboards/Jack's Girls only and does not permit outdoor sales as an independent use. The sale of snacks, food and beverages shall be prohibited.
- 7. Outdoor sales shall take place in conjunction with the normal hours of operation of Jack's Surfboards/Jack's Girls, typically from 8:00 a.m. to 9:00 p.m. Set-up for the sale shall occur before the store opens. All areas shall be kept clean throughout the day. Any unsold merchandise and any related items shall be removed from the outdoor sales area at the end of each day by 10 p.m. The significant (water-filled or similar) barricades may remain until the end of the last date of each sale.
- 8. The outdoor sales area shall occupy no more than three (3) parking spaces located directly in front of the Jack's Surfboards storefront as shown on the approved plot plan (approximately 20 feet by 10 feet for a total of 200 square feet) and shall not extend into

the public right-of-way. No ADA parking spaces shall be utilized as part of the outdoor sales area.

- 9. The outdoor sales area shall be separated from the adjacent building by a minimum of 20 feet.
- 10. No activities related to the outdoor sales are permitted on public property including any portion of a public street or public sidewalk.
- 11. The outdoor sales shall not create a pedestrian or traffic hazard. The sales area shall be surrounded by significant barricades (i.e. water-filled barricades or other barricades approved by the Planning Division and Public Works Department) to delineate the sales area and provide patron safety from adjacent vehicular traffic.
- 12. Any change to the approved plot plan/site plan delineating the location of the outdoor sales area, barricade locations, and barricade type shall be reviewed and approved by the Planning Division and City Traffic Engineer prior to the sale date and shall be submitted to the Planning Division to be included in the project file.
- 13. The sales area shall be signed to clearly identify that the area is closed for vehicular parking.
- 14. No posting of promotional signs is permitted on any portion of public property, including trees, utility poles, street signs, etc. All signage located on-site shall comply with Chapter 20.42 (Sign Standards) of the Zoning Code.
- 15. No amplified sound is permitted.
- 16. No smoking or open flames are permitted inside the canopies.
- 17. The sales area and vicinity will be kept clean at all times.
- 18. To the fullest extent permitted by law, applicant shall indemnify, defend and hold harmless City, its City Council, its boards and commissions, officials, officers, employees, and agents from and against any and all claims, demands, obligations, damages, actions, causes of action, suits, losses, judgments, fines, penalties, liabilities, costs and expenses (including without limitation, attorney's fees, disbursements and court costs) of every kind and nature whatsoever which may arise from or in any manner relate (directly or indirectly) to City's approval of the Jack's Surfboards/Jack's Girls Outdoor Sales including, but not limited to, XP2015-044 (PA2015-077). This indemnification shall include, but not be limited to, damages awarded against the City, if any, costs of suit, attorneys' fees, and other expenses incurred in connection with such claim, action, causes of action, suit or proceeding whether incurred by applicant, City, and/or the parties initiating or bringing such proceeding. The applicant shall indemnify the City for all of City's costs, attorneys' fees, and damages which City incurs in enforcing the indemnification provisions set forth in this condition. The applicant shall pay to the City

upon demand any amount owed to the City pursuant to the indemnification requirements prescribed in this condition.

<u>FIRE</u>

19. Tents and canopies having an aggregate area in excess of 400 square feet will not require a permit if the following is provided: a. fabric tent is open on all sides, b. individual tent does not exceed a maximum size of 700 square feet, tents placed side-by-side to not exceed an aggregate area of 700 square feet, and a minimum clearance of twelve (12) is maintained to all structures and other tents.

PUBLIC WORKS

- 20. All vehicles shall be lawfully parked. No fire lane exemptions.
- 21. No activity is permitted within the public right-of-way.
- 22. No posting of promotional signs is permitted on any portion of the public right-of-way, including trees, utility poles and street signs, etc.
- 23. No exclusive use of public parking areas is permitted.
- 24. Activities shall not create a pedestrian or traffic hazard. Prevent crowds from blocking sidewalks or standing in drive aisle.
- 25. Sales event area shall be surrounded by significant barricades (i.e. water-filled barricades), to delineate the sales area and provide patron safety from adjacent vehicular traffic within the parking lot.
- 26. The sales area shall be clearly signed to identify that the sales area is closed to vehicular traffic and parking.



COMMUNITY DEVELOPMENT DEPARTMENT PLANNING DIVISION 100 Civic Center Drive, P.O. Box 1768, Newport Beach, CA 92658-8915 (949) 644-3200 Fax: (949) 644-3229 www.newportbeachca.gov

COMMUNITY DEVELOPMENT DIRECTOR ACTION LETTER

- Application No. Staff Approval No. SA2015-006 (PA2015-072)
- Applicant Sage Hill School

Site Address 20402 Newport Coast Drive Sage Hill School Staff Approval

Legal Description Parcel 1 of Parcel Map No. 97-200, being a subdivision of portions of Blocks 98 and 128 of Irvine's Subdivision filed in Book 1, Page 88, of Miscellaneous Record Maps in the office of the County Recorder or the County of Orange, State of California.

On <u>June 22, 2015</u>, the Community Development Director approved Staff Approval No. SA2015-006 (PA2015-072). This approval is based on the following findings and is subject to the following conditions.

PROJECT SUMMARY

The applicant requests a review of substantial conformance with Use Permit No. PA97-0173 and Staff Approval No. SA2004-017 (PA2007-224) to allow a revised location for a tennis complex and aquatics center. The School also proposes to expand the grades offered from 9-12 to K-12. The school will continue to serve 600 students and the faculty/staff will increase from 75 to 99. The applicant's requests and revised phasing development plans are consistent with the total square footage, site plan, and operational chracteristics approved for the school.

ZONING DISTRICT/GENERAL PLAN

- **Zone:** PI (Private Institutions)
- **General Plan:** PI (Private Institutions)

BACKGROUND

The Orange County Planning Commission approved Use Permit PA97-0173 on November 3, 1998, to establish a private high school.

On November 21, 2007, the City of Newport Beach approved Staff Approval No. SA2007-017 (PA2007-224), finding the project phasing and development plan in substantial

conformance with Use Permit PA97-0173, allowing for the construction of a new Arts Center.

On August 27, 2013, the City of Newport Beach issued building permits for the construction of a new 12,900-square-foot Science Center in accordance with the phasing and development plan authorized under Staff Approval No. SA2007-017 (PA2007-224).

PROJECT DESCRIPTION AND PROPOSED CHANGES

The applicant requests a determination of substantial conformance with the plan approved under Use Permit No. PA97-0173 to authorize the construction of a new tennis complex and aquatics center. Additionally, the school seeks to change the operation of the school from a High School with grades 9 through 12 to all levels, elementary, middle, and high school, grades K through 12, maintaining the existing student capacity of 600 students but increasing the faculty/staff from 75 to 99.

School Operation-Traffic

Sage Hill High School is proposing to convert the existing 600 student private high school to a 600 student private K through 12 school. In terms of traffic, the high school was expected to generate 1,203 average daily trips, as shown in the attached excerpt from the original Mitigated Negative Declaration (Attachment No. CD 3). Expanding the school to grades K through 12 is expected to generate 1,488 average daily trips at a rate of 2.48 average daily trips per student. The net change is 285 new daily trips. Thus, the change to a K through 12 school does not require a traffic study in accordance with the Traffic Phasing Ordinance (TPO) where the threshold is 300 new daily trips.

Tennis Complex

The original project plans approved by Use Permit No. PA97-0173 authorized four (4) tennis courts to be located at the south east portion of the site. The applicant requests approval to locate the new tennis complex at the south westerly corner of the campus, adjacent to Sage Hill Road. The new tennis complex would consist of six (6) courts, perimeter landscaping, and eleven 50-foot-high light standards to provide court lighting.

The area is currently occupied by a small grassy area and hardscape, a staff parking area consisting of twenty-one (21) parking spaces, and the school's organic garden. The parking spaces will be removed and the garden will be relocated closer to the science center on the northerly portion of the site. Sufficient parking will remain to accommodate the school as discussed below.

The eleven 50-foot-high light standards will comply with the 65-foot height limit established for the property under Zone Change ZA97-07. The lighting has been designed to be contained on-site and dissipates within 20-60 feet of the tennis courts, depending on the location. The light spill from the courts ranges between 1- and 3-foot candles along the existing fire access road, and dissipates completely 60 feet from the courts. A photometric study will be provided at plan check to ensure that the site lighting will not cause negative impacts to nearby residential properties. A night time lighting inspection will be conducted

prior to finalizing of building permits to ensure the lighting complies with the approved plan and Zoning Code.

Aquatics Center

The original project plans approved by Use Permit No. PA97-0173 authorized an aquatics center at the southwest corner of the property and to the west of where the tennis complex is now proposed. The proposed aquatics center is located between the existing gymnasium and football/soccer stadium. It will replace several basketball courts and a sand volleyball court. The aquatics center includes a 36-yard by 25-yard swimming pool, four 35-foot-high light standards, a pool equipment/chemical storage enclosure, perimeter fencing with landscaping, and a 2,040-square-foot pool building with locker rooms, restrooms, and storage. Concrete, terraced spectator seating with wood planks is proposed along the eastern side of the pool. New wood trellises are located on the north and south portions of the pool area to denote aquatic center entry points.

The four (4) 35-foot-high LED light standards will comply with the 65-foot height limit established for the property under Zone Change ZA97-07. A photometric study will be provided at plan check to ensure that the site lighting will not cause negative impacts to nearby residential properties. The incremental increase in directed LED lighting is expected to be nominal. A night time lighting inspection will be conducted prior to finalizing of building permits to ensure the lighting complies with the approved plan and Zoning Code.

Parking

Use Permit No. PA97-0173 required parking in conformance with Section 7-9-145 of the Orange County Zoning Code. The parking rate for a high school is one (1) parking space per six (6) students plus one (1) parking space for every faculty/staff member. Based on the existing student capacity of 600 students and the increase of faculty/staff from 75 to 99, the resulting parking requirement is 199.

The conversion of the existing high school to serve grades K through 12 results in a slightly different parking requirement for grades K through 8. The parking requirement of Section 7-9-145 of the Orange County Zoning Code is two (2) parking spaces per classroom for grades K through 8. A total of forty-three (43) classrooms are provided throughout the campus. Any combination of classrooms for K through 8 and senior high school (Grades 9 through 12) will result in a parking requirement that ranges from 185 to 199 spaces.

There are a total of 470 existing parking spaces on-site. The installation of the tennis complex will result in the loss of twenty-one (21) spaces, resulting in 449 available spaces on-site. The total number of spaces following project implementation will result in a surplus of 250 to 264 spaces depending on the combination of students and classrooms allocated toward each grade classification (K through 8 vs. 9 through 12).

FINDINGS

Pursuant to Section 20.54.070 (Changes to an Approved Project), the Community Development Director may authorize minor changes to an approved site plan, architecture, or the nature of the approved use, without a public hearing, and waive the requirement for a new use permit application. This staff approval is based on the following findings and facts in support of the findings. In this case, the Director determined the proposed changes:

Finding:

A. Are consistent with all applicable provisions of this Zoning Code.

Facts in Support of Finding:

- 1. Sage Hill School will continue to be utilized as a school facility with the expansion to serve grades K through 12. The use is permitted within the PI (Private Institutions) Zoning District designated for the subject property.
- 2. The relocation of the Aquatics Center and Tennis Complex do not increase the total square footage originally approved for the project. The proposed changes are consistent with the applicable conditions of approval of the Use Permit.
- 3. The proposed light standards for the aquatics center and tennis complex will not exceed the 65-foot height limit established for the property under PA97-0173 and Zone Change 97-07. Light and glare for the new facilities will be designed to comply with the standards of Section 20.30.070 (Outdoor Lighting) of the Newport Beach Municipal Code. Light rays will be confined to the site and verified by the submittal of a photometric study and site visit prior to the issuance of building permits. The lighting design shall include zero (0) cut-off fixtures to minimize the potential of glare and spill-over onto surrounding sites.
- 4. Sufficient parking will continue to be available to serve all uses on-site. The school will provide 449 parking spaces where the code requires up to 199 parking spaces on-site to accommodate any combination of high school, elementary, or middle school students.

Finding:

B. Do not involve a feature of the project that was a basis for or subject of findings or exemptions in a negative declaration or Environmental Impact Report for the project

Facts in Support of Finding:

1. The change in grades offered will result in an increase of 285 average daily trips to the site. The high school was expected to generate 1,203 average daily trips as studied in the original Mitigated Negative Declaration. As an institution that

offers grades K through 12, the school is expected to generate 1,488 average daily trips at a rate of 2.48 trips per student. This increase does not result in a requirement for a traffic impact analysis where the threshold under the City's Traffic Phasing Ordinance is an increase in 300 average daily trips or more.

- 2. The proposed Aquatics Center and Tennis Complex additions to the existing school do not involve the grading of any previously undisturbed land.
- 3. There is no substantial evidence that the proposed project, as revised, will have any significant adverse impacts upon the environment, which cannot be mitigated, as approved under Negative Declaration PA97-0173. Applicable Mitigation Measures will eliminate impacts or reduce them to levels of insignificance.

Finding:

C. Do not involve a feature of the project that was specifically addressed or was the subject of a condition(s) of approval for the project or that was a specific consideration by the applicable review authority in the project approval.

Facts in Support of Finding:

- 1. The proposed changes do not negatively impact a feature that was specifically addressed in staff reports or minutes prepared for Use Permit No. PA97-0173. The project was originally described and approved as a high school. The change to serve grades K through 12 does not substantially change the operation of the use, traffic, or parking for the site as was originally authorized under PA97-0173.
- 2. The staff approval authorizes the construction of a tennis complex and aquatics center in different locations then they were previously approved in under Use Permit No. PA97-0173. The proposed tennis complex adds two (2) additional courts (six (6) total) than were provided in the original project plans. However, this change does not result in any additional impacts beyond those analyzed prior to original project approval.
- 3. No conflict exists between the project and NCCP area. Development of the site will adhere to the mitigation measures and conditions of approval. Included among these is the requirement that a biological, archeological, and paleontological monitor be present to oversee grading in accordance with the mitigation measures.
- 4. Off-site parking will be maintained as established in the County of Orange Zoning Code. Sufficient parking will be provided at a rate of one (1) parking space per six (6) students and one (1) per faculty for the high school (Grades 9 through12) and at a rate of two (2) parking spaces per classroom for grades K through 8. The existing parking supply of 470 parking spaces will be reduced by twenty-one (21) parking spaces for a total of 449. The project reduces the parking supply for the school but still exceeds the required parking of 185-199 spaces for any

combination of students grades K through 8 and grades 9 through 12. Thus, sufficient parking will continue to be available for the uses.

Finding:

D. Do not result in an expansion or change in operational characteristics of the use.

Facts in Support of Finding:

- 1. The existing school will maintain the existing uses as authorized under Use Permit No. 97-0173. The school may be modified to add grades K-8 students in addition to the existing high school, grades 9-12. The total student enrollment will remain the same with a 600 student maximum.
- 2. The student enrollment is anticipated to come from the local Irvine, Newport Beach, Laguna Beach, Costa Mesa areas, with a small percentage coming from the greater Orange County area. A decrease in enrollments in public schools to account for the addition of grades K-8 at Sage Hill School would be minimal, as the impact would be distributed over several schools districts.
- 3. The addition of the proposed tennis complex and aquatics center will not result in a change in the operational characteristics of the school but will instead provide additional amenities to complement the existing facilities. Tennis complex and aquatics centers are typical athletic facilities found at schools.

DETERMINATION

The Community Development Director determined that the proposed changes to the phasing and development plan and change to serve grades K through 12 for Sage Hill School are consistent with the plans approved by the Orange County Planning Commission in conjunction with the review and approval of Use Permit PA97-0173 and Staff Approval No. SA2007-017 (PA2007-224).

CONDITIONS

- 1. The development shall be in substantial conformance with the approved site plan, floor plans, materials board, and building elevations stamped and dated with the date of this approval. (Except as modified by these conditions of approval).
- 2. This approval shall expire unless exercised within twenty-four (24) months from the date of approval as specified in Section 20.54.060 (Time Limits and Extensions) of the Newport Beach Municipal Code, unless an extension is otherwise granted.
- 3. The project is subject to all applicable City ordinances, policies, and standards, unless specifically waived or modified by the conditions of approval. The applicant shall comply with all federal, state, and local laws. Material violation of any of those laws in connection with the use may be cause for revocation of this approval.

- 4. The applicant shall comply with all project design features, mitigation measures, and standard conditions contained within the approved Mitigation Monitoring Reporting Program (MMRP) of MND SCH No. 98091102 as approved by the County of Orange in Planning Application No. PA97-0173 for the project.
- 5. Student enrollment shall not exceed 600 students.
- 6. Any modification to the parking lot and/or number of parking spaces shall be reviewed and approved by the Planning Division. In conjunction with this review, the Planning Division shall review the 2015 parking analysis assumptions, which indicates a total of 449 parking spaces are provided on-site and a minimum of 199 parking spaces are required.
- 7. <u>Prior to the issuance of building permits,</u> documents/plans shall be submitted demonstrating compliance with the requirements of Chapter 14.17 (Water-Efficient Landscaping Ordinance) of the Municipal Code. Plans shall incorporate drought tolerant plantings and water efficient irrigation practices, and the plans shall be approved by the Planning Division and the Municipal Operations Department. All planting areas shall be provided with a permanent underground automatic sprinkler irrigation system of a design suitable for the type and arrangement of the plant materials selected. The irrigation system shall be adjustable based upon either a signal from a satellite or an on-site moisture-sensor. Planting areas adjacent to vehicular activity shall be protected by a continuous concrete curb or similar permanent barrier. Landscaping shall be located so as not to impede vehicular sight distance to the satisfaction of the Traffic Engineer.
- 8. All landscape materials and irrigation systems shall be maintained in accordance with the approved landscape plan. All landscaped areas shall be maintained in a healthy and growing condition and shall receive regular pruning, fertilizing, mowing and trimming. All landscaped areas shall be kept free of weeds and debris. All irrigation systems shall be kept operable, including adjustments, replacements, repairs, and cleaning as part of regular maintenance.
- 9. <u>Prior to the final of building permits,</u> the applicant shall schedule an inspection by the Planning Division to confirm that all landscaping was installed in accordance with the approved landscape plan
- 10. Water leaving the project site due to over-irrigation of landscape shall be minimized. If an incident such as this is reported, a representative from the Code and Water Quality Enforcement Division shall visit the location, investigate, inform and notice the responsible party, and, as appropriate, cite the responsible party and/or shut off the irrigation water.
- 11. Water should not be used to clean paved surfaces such as sidewalks, driveways, parking areas, etc. except to alleviate immediate safety or sanitation hazards.

- 12. <u>Prior to the issuance of building permits</u>, the applicant shall prepare a photometric study in conjunction with a final lighting plan for approval by the Planning Division. The survey shall show that lighting values are one-foot-candle or less at all property lines. Higher lighting levels are subject to the review and approval of the Community Development Director where it can be shown to be in compliance with the purpose and intent of the Outdoor Lighting section of the Zoning Code.
- 13. All parking area and exterior light fixtures shall be full cut-off fixtures.
- 14. All mechanical appurtenances (e.g. air conditioning, heating ducts and exhaust vents, swimming pool and spa pumps and filters, transformers, utility vaults and emergency power generators) shall be screened from public view and adjacent land uses. All rooftop equipment shall be architecturally treated or screened from off-site views in a manner compatible with the building materials prior to final building permit clearance for each new or remodeled building. The mechanical appurtenances shall be subject to sound rating in accordance with Section 10.26.025 (Exterior Noise Standards) of the Newport Beach Municipal Code. Rooftop screening and enclosures shall not exceed 35 feet 4 inches above the existing grade.
- 15. The applicant is required to obtain all applicable permits from the City's Building Division and Fire Department. The construction plans must comply with the most recent, City-adopted version of the California Building Code. The construction plans must meet all applicable State Disabilities Access requirements.
- 16. Prior to the issuance of building permits, the fire hydrant shall be relocated prior to new construction of the tennis courts and pool structures.
- 17. The location of the relocated fire hydrant will be determined by the proposed and existing structures. The fire hydrants existing location was based on required distances for the existing structures.
- 18. Pool chemicals storage and use shall meet California Fire Code 2013 edition.
- 19. The school is located in a "Very High Fire Hazard Severity Zone" (VHFHSZ), which requires specific noncombustible construction per California Building Code Chapter 7A (Materials and Construction Methods for Exterior Wildfire Exposure).
- 20. Fire sprinklers shall be installed to the satisfaction of the Fire Department, depending on the square footage of new development.
- 21. The terraced seating areas shall be ADA accessible in accordance with Section 11B-221.1).
- 22. At least two (2) accessible entries to the pool area shall be required.

23. The applicant shall employ the following best available control measures ("BACMs") to reduce construction-related air quality impacts:

Dust Control

- Water all active construction areas at least twice daily.
- Cover all haul trucks or maintain at least 2 feet of freeboard.
- Pave or apply water four (4) times daily to all unpaved parking or staging areas.
- Sweep or wash any site access points within two (2) hours of any visible dirt deposits on any public roadway.
- Cover or water twice daily any on-site stockpiles of debris, dirt or other dusty material.
- Suspend all operations on any unpaved surface if winds exceed 25 mph. Emissions
 - Require 90-day low-NOx tune-ups for off road equipment.
- Limit allowable idling to 30 minutes for trucks and heavy equipment Off-Site Impacts
 - Encourage carpooling for construction workers.
 - Limit lane closures to off-peak travel periods.
 - Park construction vehicles off traveled roadways.
 - Wet down or cover dirt hauled off-site.
 - Sweep access points daily.
 - Encourage receipt of materials during non-peak traffic hours.
 - Sandbag construction sites for erosion control.

Fill Placement

- The number and type of equipment for dirt pushing will be limited on any day to ensure that SCAQMD significance thresholds are not exceeded.
- Maintain and utilize a continuous water application system during earth placement and compaction to achieve a 10 percent soil moisture content in the top 6-inch surface layer, subject to review/discretion of the geotechnical engineer.
- 24. <u>Prior to the issuance of grading permits</u>, a Storm Water Pollution Prevention Plan (SWPPP) and Notice of Intent (NOI) to comply with the General Permit for Construction Activities shall be prepared, submitted to the State Water Quality Control Board for approval and made part of the construction program. The project applicant will provide the City with a copy of the NOI and their application check as proof of filing with the State Water Quality Control Board. This plan will detail measures and practices that will be in effect during construction to minimize the project's impact on water quality.
- 25. <u>Prior to issuance of grading permits</u>, the applicant shall prepare and submit a Water Quality Management Plan (WQMP) for the proposed project, subject to the approval of the Building Division and Code and Water Quality Enforcement Division. The WQMP shall provide appropriate Best Management Practices (BMPs) to ensure that no violations of water quality standards or waste discharge requirements occur.

- 26. A list of "good house-keeping" practices will be incorporated into the long-term post-construction operation of the site to minimize the likelihood that pollutants will be used, stored or spilled on the site that could impair water quality. These may include frequent parking area vacuum truck sweeping, removal of wastes or spills, limited use of harmful fertilizers or pesticides, and the diversion of storm water away from potential sources of pollution (e.g., trash receptacles and parking structures). The Stage 2 WQMP shall list and describe all structural and non-structural BMPs. In addition, the WQMP must also identify the entity responsible for the long-term inspection, maintenance, and funding for all structural (and if applicable Treatment Control) BMPs.
- 27. Prior to the issuance of building permits, the applicant shall obtain approval from the Irvine Ranch Water District for the proposed water and sewer improvements.
- 28. To the fullest extent permitted by law, applicant shall indemnify, defend and hold harmless City, its City Council, its boards and commissions, officials, officers, employees, and agents from and against any and all claims, demands, obligations, damages, actions, causes of action, suits, losses, judgments, fines, penalties, liabilities, costs and expenses (including without limitation, attorney's fees, disbursements and court costs) of every kind and nature whatsoever which may arise from or in any manner relate (directly or indirectly) to City's approval of the Sage Hill School Staff Approval including, but not limited to, Staff Approval No. SA2015-006 (PA2015-072). This indemnification shall include, but not be limited to, damages awarded against the City, if any, costs of suit, attorneys' fees, and other expenses incurred in connection with such claim, action, causes of action, suit or proceeding whether incurred by applicant. City. and/or the parties initiating or bringing such proceeding. The applicant shall indemnify the City for all of City's costs, attorneys' fees, and damages which City incurs in enforcing the indemnification provisions set forth in this condition. The applicant shall pay to the City upon demand any amount owed to the City pursuant to the indemnification requirements prescribed in this condition.

APPEAL PERIOD: An appeal may be filed with the Director of Community Development or City Clerk, as applicable, within fourteen (14) days following the date the action or decision was rendered. For additional information on filing an appeal, contact the Planning Division at 949 644-3200.

On behalf of Kimberly Brandt, AICP, Community Development Director

By:

Makana Nova Associate Planner GR/mkn

Attachments: CD 1 Vicinity Map

- CD 2 Square Footage Summary CD 3 Traffic Analysis from PA97-0173 CD 4 Project Plans

Attachment No. CD 1

Vicinity Map

VICINITY MAP



Staff Approval No. SA2015-006 PA2015-072

20402 Newport Coast Drive

Attachment No. CD 2

Square Footage Summary

Square Footage Summary:

	Existing Structures	Future Development Proposed by SA2015-006	As Approved by Staff Approval No. SA2007-017
Buildings A, B, C, D	79,191 sf	79,191 sf	79,191 sf
Math Science Center	10,900 sf	10,900 sf	25,000 sf
Arts Center	30,181 sf	30,181 sf	30,770 sf
Mini-Gym/	0 sf	0 sf	0 sf
Fitness/Facilities			
Aquatics Center	0 sf	2,170 sf	2,000 sf
Approved &	21,628 sf	19,458 sf	4,939 sf
Unallocated			
TOTAL SQUARE FOOTAGE	120,272	122,442 sf	141,900 sf

The detail above shows the existing structures that have been constructed, the proposed floor area under this staff approval, and the floor area allocation as previously authorized under Staff Approval No. SA2007-017. The proposed Aquatics Center has been relocated and expanded. The proposed Tennis Complex has a new location within the school but will not result in additional gross floor area. The net change to the approved plan incorporates the addition of the gross floor area associated with the new Aquatics Center and accompanying mechanical enclosure.

Attachment No. CD 3

Traffic Analysis from PA97-0173

groundwater buildup is potentially significant. The following mitigation measure will reduce this potential impact to less than significant.

Mitigation Measure 4-4

Prior to issuance of grading permits, meeting the approval of the Manager, Subdivision and Grading, the project grading design plans shall include any of the following as mitigation to minimize the effects of groundwater seepage:

- (1) construction of subdrain systems in all canyons and drainages where fills are proposed;
- (2) construction of subdrainage systems in all slope buttresses, stabilizing fills, and shear keys;
- (3) adequate drainage and water proofing of the retaining walls that are incorporated into the project design as basement walls of proposed buildings;
- (4) additional subdrainage, if needed, to be determined by field conditions exposed during grading to reduce nuisance seepage.

Potential for Contaminated Nuisance Groundwater. The proposed Sage Hill School project site is located adjacent to the East Canyon portion of the now closed (1993) Coyote Canyon Landfill. A potential impact exists where the locally perched groundwater (discussed above) may by contaminated by landfill leachate. Contaminated water cannot be allowed to be introduced into the area storm drain system, water or collected in the recommended subdrain systems. Upon testing (refer to Mitigation Measure 4-5) if contamination is present in the groundwater, the following mitigation measure will ensure that this potential impact will be reduced to less than significant.

Mitigation Measure 4-5

Prior to issuance of grading permits the following procedure shall be conducted and approved by the Manager, Subdivision and Grading. During test borings conducted to determine if additional detection probes are required to address landfill gas (refer to Mitigation Measure 13-1) the groundwater shall be sampled and tested for potential landfill leachate contamination. If contamination is present, a work plan shall be prepared by responsible parties (Sage Hill School and The Irvine Company) and submitted to the Santa Ana Regional Water Quality Control Board (SARWQCB), the South Coast Air Quality Management District (AQMD) and Local Enforcement Agency (LEA) for approval prior to the issuance of the grading permit. The SARWQCB will determine if additional measures are required.

G. Altered direction or rate of flow of groundwater?

Less Than Significant Impact. Based on the previous subsurface investigations in the area of the site, the project site is located above the groundwater table and the proposed grading work will not encounter the main groundwater table. Refer to response to Checklist Item 4F, above.

H. Impacts to groundwater quality?

Less Than Significant Impact. Refer to response to Checklist Item 4F, above.

5. TRANSPORTATION/CIRCULATION. Attachment D contains a traffic analysis of the proposed project (Robert Bein, William Frost & Associates (RBF), August, 1998).

The traffic analysis provides the following two scenarios depicting potential trips generated by the proposed school:

- 1) Project trips utilizing the standard ITE trip generation rates for average daily traffic (ADT) and a.m. and p.m. peak hour school traffic, and
- 2) Project trips utilizing more conservative (higher) trip generation rates based on the specific characteristics of the proposed school (e.g., every student of driving age could drive separately to school; no bus service provided for the students; therefore, students younger than driving age would be dropped off and picked up, twice the trips per student than driving students).

For the project specific adjusted trip generation, the standard trip rates were increased by 30 percent for a.m. and p.m. inbound and outbound trips and 12 percent for ADT. The more conservative analysis also places p.m. trips to and from the school during the regular p.m. peak hour rather than the more usual 2:00 to 3:00 p.m. school peak.

The following analysis is in response to the Environmental Analysis Checklist questions and reflects the more conservative analysis, or a worst case scenario of potential traffic impacts that could be generated by the proposed school.

Would the proposal result in:

A. Increased vehicle trips or traffic congestion beyond adopted policies and/or forecasts?

Less Than Significant Impact. The following assumptions are based on a maximum of 600 students. These maximum 600 students would generate a total of 1,203 daily trips, including 284 trips (233 inbound and 51 outbound) during the morning peak hour and 200 trips (39 inbound and 161 outbound) during the afternoon peak hour. This analysis reflects the conservative analysis, addressing afternoon trips to and from the school during p.m. peak rush hour (4:45 to 5:45 p.m.) rather than the more typical school afternoon peak hour of 2:00 to 3:00 p.m. As shown in Tables 6 and 7 of the Traffic Study (Attachment D), the existing plus project traffic condition would remain at the existing level of service (LOS) A, at study intersections and along Newport Coast Drive. Peak hour project traffic trips would not significantly deteriorate the intersection level of service or cause congestion in the project vicinity. This amount of traffic volume increase would not increase vehicle trips or traffic congestion beyond adopted policies and/or forecasts. No significant impacts are anticipated.

B. Safety hazards from design features (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less than Significant Impact. There are no project related sharp curves that would result in safety hazards as the site is set back from Newport Coast Drive. No incompatible uses that would pose traffic safety hazards are anticipated on the project site. Newport Coast Drive at the project access has been designed to allow right turn in and right turn out only. Several measures are recommended in the traffic analysis for consideration on the specific site design plans to enforce no left turn movement into or out of the school driveway from/to southbound Newport Coast Drive. These measures include 1) installation of "No Left Turns" signage as appropriate at the intersection of Newport Coast Drive/project drive ; and 2) design the access road intersection with Newport Coast Drive to only allow right turn in/right turn out movement through construction of a raised "pork chop" like divider.

U-turns will be allowed at either the intersections of Newport Coast Drive with San Joaquin Hills Road or the Gas Recovery Systems, Inc. facility road. The left turn pocket for the intersection selected to allow u-turns will need to be a minimum of 120 feet of vehicular storage to accommodated the forecast queuing vehicles.

Other safety features to be incorporated into the project design include a stop sign for vehicles exiting the school's access road onto Newport Coast Drive, and a deceleration lane for northbound traffic on Newport Coast Drive approaching the access road. These design features will help reduce the safety concern for ingress and egress to the project site. In addition, the project meets the County of Orange standard condition for sight distance, thereby eliminating potential safety hazards at the intersection formed by the project access and Newport Coast Drive. In addition, applicant will be required to adhere to County Standard Plan 1117 which addresses adequate sight distances. Mitigation Measures 5-1 and 5-2 below will reduce potential projects impacts related to circulation access to less than significant.

Prior to the issuance of building permits, project site plans shall incorporate specific circulation design features that meet the approval of the Manager, Traffic Engineering. Design features may include, but would not be limited to the following:

- design the access road intersection of Newport Coast Drive/Project Drive to allow right turn in/right turn out movements only with the construction of a "pork chop" type of raised divider;
- 2) installation of "no left turn" signage for southbound traffic at the intersection of the project drive and Newport Coast Drive;
- installation of a stop sign at the terminus of the Project Drive at Newport Coast Drive for vehicles exiting the school property;
- 4) design of a deceleration lane approach for northbound traffic on Newport Coast Drive at the Project Drive; and
- 5) design adequate length for the left turn pocket at the intersection selected to allow "U" turns southbound on Newport Coast Drive (either at San Joaquin Hills Road or the entrance drive to the Gas Recovery Systems, Inc. gas recovery facility).

Mitigation Measure 5-2

Prior to the issuance of grading permits, the applicant shall provide adequate sight distance at all street intersections per Standard Plan 1117, in a manner meeting the approval of the Manager, Traffic Engineering. (*County Standard Condition of Approval T7*)

C. Inadequate emergency accesses or access to nearby uses?

Less Than Significant Impact. Newport Coast Drive at the project access is currently designed to allow right turn in and right turn out only. County of Orange standard conditions of approval shall be implemented to ensure adequate emergency access and access to nearby uses. Mitigation Measure 5-1 specifies the implementation of additional safety and access improvements if determined necessary by the County through the Use Permit application review process.

D. Insufficient parking capacity on site or off site?

Less Than Significant Impact. The proposed project will have ample parking spaces to accommodate parking needs for the high school use. The County Parking Code specifies a requirement of one space per six students and one space per faculty and staff member. For the proposed school, one space per 600 students equals 100 spaces; with one space per each member of the faculty/staff (75), the total requirement is 175 spaces. The site plan provides for 310 striped spaces in lots, 40 parking spaces along the access road/school drive, and 32 parking spaces around the drop-off loop for a total of 388 parking spaces). The playfields and hard courts would provide additional parking areas to accommodate an additional 312 vehicles for large events. Therefore, there will be no significant impact related to parking capacity.

E. Hazards or barriers for pedestrians or bicyclists?

Less Than Significant Impact. The proposed project will not have design features that would result in hazards or barriers for pedestrians or bicyclists. There may be some temporary rerouting of the bicycle lane on the south side of Newport Coast Drive during construction of the access road and utilities to the proposed school; however, this impact would be temporary, as the lane would be restored after completion of the access road.

F. Conflicts with adopted policies supporting alternative transportation (e.g., bus turnouts, bicycle racks)?

Less Than Significant Impact. The proposed project will not conflict with adopted policies supporting alternative transportation. The project will include bicycle racks on campus.

Attachment No. CD 4

Project Plans



SAGE HILL Tennis Complex

Newport Coast, CA 92657

Sage Hill School SCHEMATIC DESIGN Feburary 24, 2015



5161 Califor Irvine, Califo





GENERAL NOTES

EXISTING CONDITIONS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION

PERMITS, AND THE CONTRACT DOCUMENTS.

ON HOW TO PROCEED.

4.

PLACEMENT OF ALL NEW CONSTRUCTION ON THE SITE.

ABBREVIATIONS

& L @ Ç Ø # (E) (N) ACOUS. A.D. ADMIN. ADJ. A.F.F. AGGR. AL.	AND ANGLE AT CENTERLINE DIAMETER OR ROUND POUND OR NUMBER EXISTING NEW ACOUSTICAL AREA DRAIN ADMINISTRATION ADJUSTABLE ABOVE FINISH FLOOR AGGREGATE ALUMINUM	FDN. F.E. F.E.C. F.H.C. FIN. FL. FLASH. FLUOR. F.O.C. F.O.F. F.O.M. F.O.S. FPRF.	FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE HOSE CABINET FINISH FLOOR FLASHING FLUORESCENT FACE OF CONCRETE FACE OF FACE OF FACE OF MASONRY FACE OF STUD FIREPROOF	PRCST. PL. P.LAM. PLAS. PLYWD. PR. PT. P.T. P.T.D P.T.D./R PTN. P.R.	PRE-CAST PLATE PLASTIC LAMINATE PLASTER PLYWOOD PAIR POINT PRESSURE TREATED PAPER TOWEL DISPENSER COMBINATION PAPER TOWEL DISPENSER & RECEPTACLE PARTITION PAPER TOWEL RECEPTACLE
APPROX. ARCH. ASB. ASPH. BD. BITUM. BIDG.	ARCHITECTURAL ASBESTOS ASPHALT BOARD BITUMINOUS BUILDING	FT. FTG. FURR. FUT. GA. GALV.	FOOT OR FEET FOOTING FURRING FUTURE GAUGE GALVANIZED	Q.T. R. RAD. R.D. REF. REFR.	QUARRY TILE RISER RADIUS ROOF DRAIN REFERENCE REFRIDGERATOR
BLK. BLKG. BM. B.O. BOT. CAB.	BLOCK BLOCKING BEAM BOTTOM OF BOTTOM CABINET	G.B. G.IM. GL. GND. GYP. H.B.	GRAB BAR GALV. IRON GLASS GROUND GYPSUM HOSE BIB HOLLOW COPE	RGTR. REINF. RELO. REQ. RESIL. RM. R.O.	REGISTER REINFORCED RELOCATABLE REQUIRED RESILENT ROOM ROUGH OPENING
C.B. CEM. CER. C.I. C.I.P C.G. CLG. CLKG.	CATCH BASIN CEMENT CERAMIC CAST IRON CAST IN PLACE CORNER GUARD CEILING CAULKING	H.C. HDWD. H.M. HORIZ. HR. HGT.	HOLLOW CORE HARDWOOD HOLLOW METAL HORIZONTAL HOUR HEIGHT INSIDE DIAMETER	RWD. R.W.L. S. S.C. S.C.D.	REDWOOD RAIN WATER LEADER SOUTH SOLID CORE SEAT COVER DISPENSER
CLO. CLR. COL. CONC. CONC. CONSTR. CONT. CORR. CR. CTSK. CNTR. CTR.	CLOSET CLEAR CASED OPENING COLUMN CONCRETE CONNECTION CONSTRUCTION CONTINUOUS CORRIDOR CLASSROOM COUNTERSUNK COUNTER CENTER	INSUL. INT. JAN. JT. KIT. LAB. LAM. LAV. LKR. LS.	INSULATION INTERIOR JANITOR JOINT KITCHEN LABORATORY LAMINATE LAVATORY LOCKER LUNCH SHELTER	SCHED. S.A. SECT. SH. SHR. SHT. SIM. S.M.S. S.N.D. S.N.R.	SCHEDULE SOAP DISPENSER SECTION SHELL SHOWER SHEET SIMILAR SHEET METAL SCREW SANITARY NAPKIN DISPENSER SANITARY NAPKIN RECEPTACLE
DBL. DEPT. D.F. DET. DIA. DIM.	DOUBLE DEPARTMENT DRINKING FOUNTAIN DETAIL DIAMETER DIMENSION	LI. MAX. M.C. MECH. MEMB. MET. MFR.	LIGHI MAXIMUM MEDICINE CABINET MECHANICAL MEMBRANE METAL MANUFACTURFR	SPEC. SQ. S.ST. S.SK. STA. STD. STL. STOR.	SPECIFICATION SQUARE STAINLESS STEEL SERVICE SINK STATION STANDARD STEEL STORAGE
DISF. DN. D.O. DR. DWR. D.S. D.S.S. DWG.	DOWN DOOR OPENING DOOR DRAWER DOWNSPOUT DRY STANDPIPE DRAWING	MH. MIN. MIR. MISC. M.O. MPR.	MANHOLW MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MULTI-PURPOSE ROOM MOLINTED	T. TRD. T.B. T.C. TEL. TER. T.&G.	TEMPERED TREAD TOWEL BAR TOP OF CURB TELEPHONE TERRAZZO TONGUE AND GROOVE
E. EA. E.D.F. E.J.	EAST EACH ELECT. DRINKING FOUNTAIN EXPANSION JOINT	MTD. MTL. MUL. N. N.I.C.	MOUNTED MATERIAL MULLION NORTH NOT_IN	THK. T.O. T.O.P. T.P. T.P.D.	TOP OF TOP OF PARAPET TOP OF PAVEMENT TOILET PAPER
EL. ELEC. ELEV. EMER. ENCL. F.P.	ELEVATION ELECTRICAL ELEVATOR EMERGENCY ENCLOSURE FLECT	NO. NOM. N.T.S. O.A.	NUMBER NOMINAL NOT TO SCALE OVERALL	T.S. T.V. T.W. TYP.	DISPENSER TUBE STEEL TELEVISION TOP OF WALL TYPICAL
EQ. EQPT. E.W.C.	PANELBOARD EQUAL EQUIPMENT ELECT. WATER COOLER	OBS. O.C. O.D. OFF. OPNG.	OBSCURE ON CENTER OUTSIDE DIAMETER OFFICE OPENING	UNF. U.O.N. UR.	UNFINISHED UNLESS OTHERWISE NOTED URINAL
EXPO. EXP. EXT.	EXPOSED EXPANSION EXTERIOR	OPP.	OPPOSITE	VERT. VEST. V.I.F.	Vertical Vestibule Verify in Field
F.A. F.B. F.D.	FIRE ALARM FLAT BAR FLOOR DRAIN			W. W/ W.C. WD. W/O	WEST WITH WATER CLOSET WOOD WITHOUT

SYMBOLS LEGEND

W.P. WATERPROOF

WSCT. WAINSCOAT WT. WEIGHT



	5.	THE CONTRACTOR SHALL CONFINE HIS OPERATIONS ON THE SITE TO AREAS PERMITTED BY THE OWNER.
NN E RATOR ED BLE	6.	THE JOB SITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY CONDITI FREE OF DEBRIS AND LITTER, AND SHALL NOT BE UNREASONABLY ENCUMBERED WITH ANY MATERIALS OR EQUIPMENT. EACH SUBCONTRACTOR IMMEDIATELY UPON COMPLETION OF EACH PHASE OF HIS WORK SHALL REMOVE ALL TRASH AND DEBRIS AS A RESULT OF OPERATION.
PENING ER	7.	ALL MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED PROTECTED TO PREVENT DAMAGE AND DETERIORATION. FAILURE TO PROTECT MATERIALS MAY CAUSE FOR REJECTION OF WORK.
RE ER ? PENSER	8.	THE CONTRACTOR SHALL DO ALL CUTTING, FITTING, OR PATCHING O THIER WORK THAT MAY BE REQUIRED TO MAKE ITS SEVERAL PARTS TOGETHER PROPERLY AND SHALL NOT ENDANGER ANY OTHER WORK CUTTING, EXCAVATING, OR OTHERWISE ALTERING THE TOTAL WORK O ANY PART OF IT. ALL PATCHING, REPAIRING, AND REPLACING OF MATERIALS AND SURFACES, CUT OR DAMAGED IN EXECUTION OF WO SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL, UPON COMPLETION, MATCH SURROUNDING SIMILAR SURFACES.
TAL NAPKIN R NAPKIN LE	9.	NO PORTION OF THE WORK REQUIRING A SHOP DRAWING OR SAMPL SUBMISSION SHALL BE COMMENCED UNTIL THE SUBMISSION HAS BE REVIEWED BY THE ARCHITECT. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH CORRECTED SHOP DRAWINGS AND SAMPLES.
STEEL SINK	10. A. B. C.	DIMENSIONS: ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE. ALL DIMENSIONS ARE TO THE FINISH UNLESS OTHERWISE NOTED. CEILING HEIGHT DIMENSIONS ARE FROM FINISHED FLOOR SLAB TO F OF FINISH CEILING MATERIAL UNLESS OTHERWISE NOTED.
R CURB	11.	WHERE LARGER STUDS OR FURRING ARE REQUIRED TO COVER PIPIN AND CONDUITS, THE LARGER STUD SIZE OR FURRING SHALL EXTEND THE FULL SURFACE OF THE WALL WIDTH AND LENGTH WHERE THE FURRING OCCURS.
L ND PARAPET	12.	PROVIDE ALL ACCESS PANELS AS REQUIRED BY GOVERNING CODES ALL CONCEALED SPACES, VOIDS, ATTICS, ETC. VERIFY TYPE REQUIR WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANELS SHALL E FIRE RATED WHEN INSTALLED IN RATED CONSTRUCTION AND SHALL OR EXCEED WALL, FLOOR, OR CEILING RATING
252	13.	ALL GLASS AND GLAZING SHALL COMPLY WITH C.B.C. CHAPTER 24.
PER ? EL N	14.	ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
/ALL D	15.	CHANGES MADE TO THE APPROVED DRAWINGS SHALL BE MADE BY A ADDENDA OR A CCD APPROVED BY THE DIV. OF THE STATE ARCHITI AS REQUIRED BY SECTION 4–338. PART 1. TITLE 24. CCR.

- R A CCD APPROVED BY THE DIV. OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. 16. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE
- 1, TITLE 24, CCR; CLASS 1. 17. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA-AC BEFORE PROCEEDING WITH THE WORK.
- 18. TITLE 24 PARTS 1–5 SHALL BE KEPT ON SITE DURING CONSTRUCTION.
- 19. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.
- 20. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- 21. ALL LEGAL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. EXIT SIGNS SHALL BE PROVIDED AT ALL EXITS AS REQUIRED BY THE C.B.C. SECTION 1011. ALL DOOR SWINGS SERVING AN OCCUPANT LOAD OF 50 OR GREATER SHALL SWING IN THE DIRECTION OF TRAVEL.
- 22. PROVIDE ALL NECESSARY BLOCKING, BACKING, AND FRAMING FOR LIGHT FIXTURES, ELECTRIC UNITS, A.C. EQUIPMENT, RECESSED ITEMS, AND ALL OTHER ITEMS AS REQUIRED.
- 23. PROVIDE FIRE EXTINGUISHERS PER THE REQUIREMENTS OF LOCAL GOVERNING AGENCIES.
- 24. PROVIDE ALL ACCESS PANELS AS REQUIRED BY GOVERNING CODES TO ALL CONCEALED SPACES, VOIDS, ATTICS, ETC. VERIFY TYPE REQUIRED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- 25. PROVIDE EXIT ILLUMINATION PER THE REQUIREMENTS OF LOCAL GOVERNMENT AGENCIES.

1. ALL CONSTRUCTION AND MATERIALS SHALL BE AS SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, LAWS,

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. SHOULD A DISCREPANCY APPEAR IN THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND

SHOULD A CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE, UNLESS A WRITTEN DECISION FROM THE ARCHITECT HAS BEEN OBTAINED WHICH DESCRIBES A CLARIFICATION OR ALTERNATE METHOD AND/OR MATERIALS.

ACTOR SHALL CONFINE HIS OPERATIONS ON THE SITE TO

ITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY CONDITION EBRIS AND LITTER, AND SHALL NOT BE UNREASONABLY) WITH ANY MATERIALS OR EQUIPMENT. EACH CTOR IMMEDIATELY UPON COMPLETION OF EACH PHASE OF HALL REMOVE ALL TRASH AND DEBRIS AS A RESULT OF HIS

L STORED ON THE SITE SHALL BE PROPERLY STACKED AND

ATERIALS MAY CAUSE FOR REJECTION OF WORK. ACTOR SHALL DO ALL CUTTING, FITTING, OR PATCHING OF THAT MAY BE REQUIRED TO MAKE ITS SEVERAL PARTS FIT PROPERLY AND SHALL NOT ENDANGER ANY OTHER WORK BY

CAVATING, OR OTHERWISE ALTERING THE TOTAL WORK OR F IT. ALL PATCHING, REPAIRING, AND REPLACING OF AND SURFACES, CUT OR DAMAGED IN EXECUTION OF WORK, ONE WITH APPLICABLE MATERIALS SO THAT SURFACES VILL, UPON COMPLETION, MATCH SURROUNDING SIMILAR

IONS SHALL TAKE PRECEDENCE OVER SCALE. SIONS ARE TO THE FINISH UNLESS OTHERWISE NOTED. IGHT DIMENSIONS ARE FROM FINISHED FLOOR SLAB TO FACE CEILING MATERIAL UNLESS OTHERWISE NOTED.

ACCESS PANELS AS REQUIRED BY GOVERNING CODES TO LED SPACES, VOIDS, ATTICS, ETC. VERIFY TYPE REQUIRED ECT PRIOR TO INSTALLATION. ACCESS PANELS SHALL BE WHEN INSTALLED IN RATED CONSTRUCTION AND SHALL MEET

ADE TO THE APPROVED DRAWINGS SHALL BE MADE BY AN

INSPECTOR OF RECORD (I.O.R.) ARE DEFINED IN SECTION 4-342, PART

HAZARDOUS MATERIAL DISCLAIMER

THESE DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND ARE A REPRESENTATION OF EXISTING CONDITIONS AT A DETAIL REQUIRED BY THE SCOPE OF THE ARCHITECT'S SERVICES. THE ARCHITECT HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION INCLUDING BORING OR CORING OF STRUCTURAL AND/OR NON-STRUCTURAL ELEMENTS, MEASUREMENTS, ETC. AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT. THE ARCHITECT HAS NOT CONDUCTED ANY CODE COMPLIANCE ANALYSIS, STRUCTURAL ANALYSIS, ASBESTOS INVESTIGATIONS, LIFE SAFETY EVALUATION ENGINEERING STUDIES OF ANY KIND TO DETERMINE THE SUITABILITY OF THIS BUILDING FOR ITS INTENDED USE. SUBSEQUENTLY THE ARCHITECT DOES NOT REPRESENT THAT THESE DOCUMENTS ILLUSTRATE EXISTING CONDITIONS THAT COMPLY WITH ANY OR ALL APPLICABLE CODES. THE DISCOVERY OF ANY DEFICIENCY IN THE BUILDING AND/OR SITE, INCLUDING THE PRESENCE OF ASBESTOS, SHALL BE IMMEDIATELY REPORTED TO THE PROPERTY OWNER WHO SHALL BE RESPONSIBLE TO DIRECT HIS CONTRACTOR AND/OR CONSULTANTS IN THE APPROPRIATE MANNER.

GENERAL FIRE NOTES

1.	PROVIDE A MINIMUM, UNOBSTRUCTED WIDTH OF 20 FEET, CLEAR TO SKY, VEHICULAR ACCESS TO WITHIN 150 FEET OF ALL PORTIONS OF THE BUILDING EXTERIOR WALLS. CALIFORNIA FIRE CODE SECTION 503.
2.	VEHICULAR ACCESS MUST BE MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
3.	FIRE APPARATUS ACCESS ROADS SHALL NOT BE OBSTRUCTED IN ANY MANNER, INCLUDING PARKING OF VEHICLES. CALIFORNIA FIRE CODE, SECTION 503.4.
4.	FIRE EXTINGUISHER REQUIREMENTS SHALL BE DETERMINED BY FIELD INSPECTOR AND PROVIDED PER 2013 CALIFORNIA FIRE CODE SECTION 906.
5.	PROVIDE A KEY BOX LOCATION AT ALL GATED ENTRANCES AS REQUIRED BY CALIFORNIA FIRE CODE, SECTION 506. KEY BOX TO BE DESIGNED PER COUNTY OF EL CAJON FIRE DEPARTMENT REGULATIONS.
6.	COMMERCIAL DUMPSTERS OR CONTAINERS WITH AN INDIVIDUAL CAPACITY OF 1.5 CUBIC YARDS OR GREATER SHALL NOT BE STORED OR PLACED WITHIN FIVE FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTIBLE ROOF EAVE LINES UNLESS AREAS CONTAINING DUMPSTERS ARE PROTECTED BY AN APPROVED SPRINKLER SYSTEM PER CALIFORNIA FIRE CODE, SECTION 304.3.3.
7.	ROADS MUST BE CONSTRUCTED OF A MATERIAL WHICH PROVIDES AN ALL WEATHER DRIVING SURFACE AND CAPABLE OF SUPPORTING THE 70,000 POUND IMPOSED LOAD FOR THE FIRE APPARATUS. CALCULATIONS STAMPED AND SIGNED BY A REGISTERED ENGINEER SHALL CERTIFY THAT THE PROPOSED SURFACE MEETS THE ABOVE CRITERIA. CALIFORNIA FIRE CODE, SECTION 503.2.3.
8.	ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. EXIT SIGNS SHALL BE PROVIDED AT ALL EXITS AS REQUIRED BY CALIFORNIA BUILDING CODE, CHAPTER 10. ALL DOOR SWINGS SERVING AN OCCUPANT LOAD OF 50 OR GREATER SHALL SWING IN THE DIRECTION OF TRAVEL.
9.	PROVIDE EXIT ILLUMINATION PER THE REQUIREMENTS OF C.B.C., CHAPTER 10.
10.	PROVIDE INFORMATION INDICATING THAT VEHICULAR/PEDESTRIAN GATES ARE PROVIDED WITH EITHER A KNOX PADLOCK OR NON–CASE–HARDENED, FRANGIBLE PADLOCK/CHAIN THAT CAN BE CUT WITH BOLT CUTTERS. COORDINATE WITH LOCAL AHJ.
11.	COMPLY WITH CFC CHAPTER 33 FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION.

ACCESSIBILITY GENERAL NOTES

- SLOPE. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48. (CBC 11B-40.3.3)
- LANDINGS. RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN. (CBC 11B-405.7) CHANGE OF DIRECTION. RAMP THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES MINIMUM BY 72 INCHES MINIMUM IN THE DIRECTION OF DOWNWARD TRAVEL FROM THE UPPER RAMP RUN. (CBC 11B-405.7.4)
- ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USEABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
- 4. IF THE BUILDING INSPECTOR DETERMINES NONCOMPLIANCE WITH ANY ACCESSIBILITY PROVISIONS, HE/SHE SHALL REQUIRE COMPLETE DETAILED PLANS CLEARLY SHOWING ALL EXISTING NON-COMPLYING CONDITIONS AND THE PROPOSED MODIFICATIONS TO MEET CURRENT ACCESSIBILITY PROVISIONS AFFECTED BY THE REMODEL (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC..) THE PLANS MUST BE STAMPED BY THE FIELD INSPECTOR AND RESUBMITTED TO THE BUILDING DEVELOPMENT REVIEW DIVISION.
- WALKS, SIDEWALKS, AND PEDESTRIAN WAYS SHALL BE FREE OR GRATINGS WHEVER POSSIBLE. FOR GRATINGS LOCATED ON THE THE SURFACES OF ANY PEDESTRIAN WAY, IN THE PATH OF TRAVEL, GRID/OPENINGS SHALL BE LIMITED TO $\frac{1}{3}$ " MAXIMUM IN THE DIRECTION OF TRAVEL IF SUCH CONDITIONS OCCUR.
- MINIMUM CLEAR WIDTH OF AN ACCESSIBLE ROUTE SHALL NOT BE LESS THAN 36", EXCEPT AT DOORS.
- 7. ABRUPT CHANGES IN LEVEL ALONG THE PATH OF TRAVEL SHALL NOT EXCEED $\frac{1}{4}$ " LEVEL CHANGES BETWEEN $\frac{1}{4}$ "-1/2" ARE BEVELED WITH A MAXIMUM GRADIENT OF 1-2 (50% SLOPE)
- SIDEWALK AND WALK SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 1.20 GRADIENT (5%) AND CROSS SLOPE SHALL NOT EXCEED 1:50 GRADIENT (2%)
- 9. DOORS THAT ENCROACH INTO WALKWAYS SHALL HAVE A MINIMUM 60"X60" LEVEL LANDING ARE WITH SLOPES NO LESS THAN 1:50 GRADIENT (2%) IN ANY DIRECTION/ LEVEL LANDING AREAS SHALL EXTEND A MINIMUM OF 24" BEYOND STRIKE EDGE OF DOOR. DOORS THAT SWING AWAY FROM WALK SHALL HAVE A LEVEL LANDING AREA A MINIMUM OF 48" WIDE X 44" DEEP WITH SLOPE LESS THAN 1:50 GRADIENT (2%) IN ANY DIRECTION.
- 10. ALL SIDEWALKS, WALKS, AND PEDESTRIAN WAYS SHALL BE AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.

APPLICABLE CODES

	GENERAL 02/24/15 G=0.00 COVER SHEET 02/24/15 G=0.01 GENERAL PROJECT INFORMATION
	CIVIL C2/24/15 C1.01 DEMOLITION PLAN
	C02/24/151 C3.01 UTILITY PLAN LANDSCAPE
	ID2/24/15L0.1LANDSCAPE NOTES AND SCHEDULESID2/24/15L1.1MATERIALS PLANID2/24/15L4.1SITE SECTIONS/ELEVATIONSID2/24/15L7.1PLANTING PLANID2/24/15A-1.01OVERALL SITE PLANID2/24/15S0.1GENERAL NOTESID2/24/15S1.1TYPICAL FOUNDATION, MISC. SITE AND PT DETAILID2/24/15S1.2FLECTRICALID2/24/15E0.10SYMBOL LISTID2/24/15E0.11SINGLE LINE, LOAD SCHED. & FEEDER SCHED.ID2/24/15E1.00TENNIS COURT LIGHTING PLAN
TIER 332013 EDITION 2013 EDITION 2013 EDITION 2013 EDITION 	
DOOR AND GATE HARDWARE: (ALL REQUIREMENTS BELOW SHALL APPLY TO GATES AS WELL)	
 DOURS AND DUCHWARS THAT ARE PART OF AN ALCESSIBLE MOUE SHALL COMPLY WITH GC SECTION 118-404.27 HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL COMPLY WITH CLOCK OR GROUND. WHERE SUDING DOORS ARE IN HE FULLY OPERABLE PARTS OF SUCH ANDWARE SHALL BE EXPOSED AND USABLE FORM BOTH SIDE. GC SECTION 118-404.27 DOOR FORM HE PARTS HALL NOT REQUIRE THET GRASHING, PINCHING, OR TWISTING OT THE WIRST. OPERABLE PARTS OF SUCH ANDWARE SHALL BE EXPOSED AND USABLE FORM BOTH SIDE. GC SECTION 118-404.27 DOOR FORM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH IS S SECONDS MINIMUM. B. SPENIC HINGES SHALL BE AS FOLLOWS: CBC SECTION 118-404.2.8 CLOSER SHALL BE AUSISTED SO THAT THE REQUIRED TWE TO MOVE A DOOR FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH IS S SECONDS MINIMUM. B. SPENIC HINGES SHALL DE ADUISTED SO THAT THE REQUIRED TWE TO MOVE A DOOR FROM AN OPEN POSITION OF 70 DEGREES TO THE CLOSED POSITION IS 1.5 SECONDS MINIMUM. THRESHOLDS STALL COMPLY WITH CBC SECTION 118-703.2: RAISED CHARACTERS SHALL COMPLY WITH CBC SECTION 118-703.4: NON-CLARE FINSH. CHARACTER SHALL CONTRACT WITH RE RECKROUND WITH HEITER UCHT CHARACTERS CHARACTERS AND THE RECKROUND SHALL HAVE A NON-CLARE FINSH. CHARACTER SHALL CONTRACT WITH RECKROUND WITH EITER UCHT CHARACTERS CHARACTERS AND THE RECKROUND SHALL HAVE A NON-CLARE FINSH. CHARACTER SHALL CONTRACT WITH THER BACKROCOND WITH EITER UCHT CHARACTERS THAN OF THE HERCHARACTERS ON A	
 11B-604.8.1. TOE CLEARANCE FOR AT LEAST ONE SIDE PARTITION OF A WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL COMPLY WITH CBC SECTION AND FIGURE 11B-604.8.1.4. IT SHALL BE 9" HIGH MINIMUM ABOVE THE FINISH FLOOR AND 6" DEEP MINIMUM BEYOND THE COMPARTMENT SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. IT SHALL BE 12" HIGH MINIMUM ABOVE THE FINISH FLOOR FOR CHILDREN'S USE. PARTITION COMPONENTS AT TOE CLEARANCES SHALL BE SMOOTH WITHOUT SHARP EDGES OR ABRASIVE SURFACES. TOE CLEARANCE AT THE SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 66" WIDE. DOOR AND DOOR HARDWARE FOR ACCESSIBLE COMPARTMENTS SHALL BE SELF-CLOSING AND SHALL COMPLY WITH CBC SECTION 11B-404 EXCEPT FOR CLEARANCE BETWEEN THE DOOR SIDE OF THE AMBULATORY ACCESSIBLE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 44" PER CBC FIGURE 11B-604.8.2. A DOOR PULL COMPLYING WITH CBC SECTION 11B-404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. EXTERIOR IMPROVEMENTS FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, AT LEAST ONE SHALL BE AN ACCESSIBLE VAN PARKING SPACE. CBC SECTION 11B-208.2.4 MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN ACCORDANCE WITH CBC TABLE 11B-208.2 FOR EACH PARKING FACILITY PROVIDED. DETECTABLE WARNING SURFACES: POSSIBLY	VICINITY MAP
	 THE 15 2013 EDITON 2014 EDITON 2015 EDITON 2015 EDITON 2015 EDITON 2016 EDITON 2016 EDITON 2016 EDITON 2017 EDITON 2018 EDITON<!--</td-->

SCOPE OF WORK

SHEET INDEX



























	DEMOLITION LEGEND
LABEL	DESCRIPTION
03	REMOVE (E) CONCRETE PAVEMENT/SIDEWALK
04	REMOVE (E) AC PAVEMENT
—////////	REMOVE (E) UTILITY, SEE DEMOLITION NOTES 2, 6, AND
	REMOVE (E) TREE, SEE DEMOLITION NOTE 3.
	(E) TREE TO REMAIN AND BE PROTECTED, SEE DEMOLITION NOTE 3.
	APPROXIMATE LIMIT OF WORK LINE, SAWCUT (E) PAVEMEN NEEDED. SEE DEMOLITION NOTE 4



ID 7.

MENT AS








PLANTING NOTES

ABBREVIATIONS

&	AND	HDR	HEADER
Ž	ANGLE	HT.	HEIGHT
@ G	AT CENTEDI INE	LT.	LIGHT
φ # ADJ. AGGR. AL. APPROX.	DIAMETER OR ROUND POUND OR NUMBER ADJACENT AGGREGATE ALUMINUM APPROXIMATE	MAX. MET. MFR. MIN. MTD. MTL.	MAXIMUM METAL MANUFACTURER MINIMUM MOUNTED MATERIAL
ARCH. A.C. ACC.	ARCHITECTURAL ASPHALT ACCESSIBLE	N.I.C. N.T.S.	NOT IN CONTRACT NOT TO SCALE
B.C.R.	BEGINNING OF CURVE RADIUS	0.C. 0.D.	ON CENTER OUTSIDE DIAMETER(DIM.)
B.O.C. B.O.W. B.O.S. BLDG. BLK. C.E. C.I.P.	BACK OF CURB BOTTOM OF WALL BOTTOM OF SLOPE BUILDING BLOCK CIVIL ENGINEER CAST IN PLACE	PA PED PRCST. P.I.P. P.O.T. P.T.D.F.	PLANTING AREA PEDESTRIAN PRECAST POURED IN PLACE POINT OF TANGENCY PRESSURE TREATED DOUGLAS FIR
CLKG. CMU.	CAULKING CONCRETE MASONRY UNIT	QTY	QUANTITY
CONC. CONSTR. CONT. CTR.	CONCRETE CONSTRUCTION CONTINUOUS CENTER	R. RAD. REINF. REQ.	RISER RADIUS REINFORCED REQUIRED
D.A. DET. DIA. DIM. DN. DWGS	DISABLED ACCESS DETAIL DIAMETER DIMENSION DOWN DRAWINGS	SCHED. SHT. SPEC. S.S. STD. STRI	SCHEDULE SHEET SPECIFICATION STAINLESS STEEL STANDARD STRUCTURAL
E.J. EL. ELEC. EQ. EXP. EXT.	EXPANSION JOINT ELEVATION ELECTRICAL EQUAL EXPANSION EXTERIOR	T. T.C. T.O.S. T.O.W. TYP. TRS	TREAD TOP OF CURB TOP OF SLOPE TOP OF WALL TYPICAL
F.G. F.S. F.O.W	FINISH GRADE FINISH SURFACE FACE OF WALL	VEH VERT.	VEHICULAR VERTICAL
F.O.B. F.O.C. GA. GALV. GND. GR.	FACE OF BUILDING FACE OF CURB GAUGE GALVANIZED GROUND GRADE	W/ W/O WD	WITH WITHOUT WIDE

REFER TO CIVIL ENGINEER'S UTILITY AND GRADING PLAN
LOCATIONS, TREE SUBDRAINAGE STUBOUTS (IF REQUIRE
GRADING. IF ACTUAL SITE CONDITIONS VARY FROM WHAT
LANDSCAPE ARCHITECT'S PLANS, THE CONTRACTOR SHA
OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT
TO HOW TO PROCEED.

- NS FOR UTILITY 1. THE CONTRACTOR SHALL LAYOUT AND FIELD VERIFY ALL DIMENSIONS OF ED), AND FINAL DRIVEWAY, PLANTERS, WALKS, SLOPES, AND RELATED WORK PRIOR TO AT IS SHOWN ON THE CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION ALL CONTACT THE OF THE OWNERS AUTHORIZED REP. FOR DIRECTION AS 2. VERIFY LOCATIONS OF ALL SITE IMPROVEMENTS INSTALLED AS PART OF OTHER PLANS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE OWNERS AUTHORIZED REP. FOR INSTRUCTION PRIOR TO BEGINNING WORK. PART OTHER PLANS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE LANDSCAPE ARCHITECT FOR 3. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALING. INSTRUCTION PRIOR TO COMMENCING WORK. 4. THIS DRAWING INCLUDES THE LOCATION OF AREA DRAINS FOR REFERENCE. REFER TO RELATED CIVIL ENGINEERING DRAWINGS FOR CONSTRUCTION LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION. LANDSCAPE DETAILS AND UTILITY CONNECTIONS. ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION 5. REFER TO ELECTRICAL ENGINEER'S DRAWINGS FOR LIGHT FIXTURE SCHEDULE IN FIELD.
- 2. VERIFY LOCATIONS OF ALL PERTINENT SITE IMPROVEMENTS INSTALLED AS 3. EXACT LOCATIONS OF PLANT MATERIALS SHALL BE REVIEWED BY THE
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS AND SQUARE FOOTAGES. QUANTITIES SHOWN ON PLANS TAKE PRECEDENCE OVER WRITTEN QUANTITIES IN "PLANTING LEGEND."
- 5. PROVIDE MATCHING FORMS AND SIZES FOR ALL PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS.
- 6. ALL SHRUBS TO BE ALIGNED AND EQUALLY SPACED, IN ALL DIRECTIONS, AS DESIGNATED PER THESE NOTES AND DRAWINGS.
- 7. FINISH GRADES OF ALL TURF AREAS SHALL BE (1") BELOW ADJACENT CURB OR PAVEMENT. FINISH GRADES OF ALL SHRUB AREAS SHALL BE (1-1/2")BELOW ADJACENT CURB, PAVEMENT, OR HEADER.
- 8. CONTRACTOR SHALL SUBMIT FOR APPROVAL AREPRESENTATIVE PHOTO OF ALL SHRUBS. GROUNDCOVER AND VINES. TREE PHOTOS SHOULD INCLUDE A PERSON FOR SCALE PURPOSES. ALL PLANT MATERIAL SHALL BE OF A QUALITY AS DETERMINED BY THE LANDSCAPE ARCHITECT. MATERIAL FOUND UNSUITABLE FOR THE DESIGN OR SPECIFICATION INTENT WILL BE REJECTED.
- 9. PROVIDE 6" CONCRETE MOW CURB AS DIVIDER BETWEEN ALL TURF AND SHRUB/GROUNDCOVER AREAS IN ADDITION TO AREAS INDICATED ON THE DRAWINGS.
- 10. PROVIDE A (2") LAYER OF WOOD MULCH AT TREE AND SHRUB PLANTING AREAS.
- 11. INSTALL JUTE MESH ON ALL SLOPES (3:1) OR GREATER. SEE SPECIFICATIONS FOR INSTALLATION METHOD AND ADDITIONAL INFORMATION.
- 12. CONTRACTOR SHALL CONDUCT AGRICULTURAL SUITABILITY AND FERTILITY SOILS TESTING PER SOIL PREPARATION SPECIFICATION. ANALYSIS SHALL INCLUDE RECOMMENDATIONS FOR SOIL PREPARATION AND BACKFILL MIX AS WELL AS RECOMMENDATIONS FOR POST MAINTENANCE FERTILIZATION. SUBMIT SOILS ANALYSES AND SAMPLES OF AMENDMENTS TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO SOIL PREPARATION.
- 13. PROVIDE ROOT BARRIERS IN ADDITION TO THOSE INDICATED ON THE PLANS FOR ALL TREES WITHIN 5' OF ANY HARDSCAPE.
- 14. LANDSCAPE MAINTENANCE PERIOD IS 90 DAYS.

LAYOUT AND MATERIALS NOTES

- AND CIRCUITRY AS NECESSARY. 6. REFER TO EARTHWORKS NOTES ON CO.01 AND SOIL ENGINEER'S
- GEOTECHNICAL REPORT FOR SUB-BASE MATERIALS AND COMPACTION. 7. WHERE DIMENSIONS ARE CALLED AS "EQUAL", ALL REFERENCED ITEMS SHALL
- BE SPACED EQUALLY, MEASURED TO THEIR CENTERLINES. 8. ALL MEASUREMENTS ARE TO FACE OF WALL, CURB OR OTHER FIXED SITE IMPROVEMENT, UNLESS OTHERWISE NOTED. DIMENSIONS TO CENTERLINES AS
- INDICATED. 9. INSTALL ALL INTERSECTING ELEMENTS AT 90 DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED.
- 10. ALL DRAINS / BASINS SHOULD HAVE ATRIUM TYPE GRATES WITHIN SHRUBS/ GROUNDCOVER AREAS AND FLAT TYPE GRATES IN TURF AREAS.

LANDSCAPE GRADING AND DRAINAGE NOTES

- 1. REFER TO CIVIL ENGINEER'S GRADING PLANS FOR SITE GRADING, DRAINAGE, AND UTILITY LOCATIONS. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT FOR DIRECTION AS TO HOW TO PROCEED.
- 2. REFER TO CIVIL ENGINEER'S DRAWINGS FOR SUBDRAINAGE POINT OF CONNECTION TO STORM DRAIN.
- 3. THE CONTRACTOR SHALL REQUEST OBSERVATION AS REQUIRED 48 HOURS ADVANCE OF PERFORMING WORK.
- 4. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA 800/422-5133) 48 HOURS PRIOR TO ANY EXCAVATION.
- 5. FIELD VERIFY EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION AND ELEVATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
- 6. NO CHANGE IN CONTRACT PRICE WILL BE ALLOWED FOR ACTUAL OR CLAIMED DISCREPANCY BETWEEN EXISTING GRADE AND THOSE SHOWN ON PLANS AFTER CONTRACTOR HAS ACCEPTED EXISTING GRADES AND MOVED ONTO THE SITE.
- 7. ALL PROPOSED GRADES ARE TO MEET AND BLEND IN WITH EXISTING GRADING AT PROJECT LIMIT AND EXISTING SIDEWALK. PRECISE ELEVATIONS INDICATED ON PLANS TO BE VERIFIED IN FIELD TO AS-BUILT CONDITION.
- 8. THE DEBRIS CREATED BY LANDSCAPE GRADING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF-SITE.
- 9. FINAL LANDSCAPE GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION OF PLANTING.

1. BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINES, EASEMENTS, BUILDINGS, ROADS AND CURBS HAVE BEEN TAKEN FROM THE CIVIL ENGINEER'S DRAWINGS. REFER TO CIVIL ENGINEERING DRAWINGS FOR

GENERAL NOTES

- ADDITIONAL INFORMATION. 2. REFER TO THE CIVIL ENGINEER'S DRAWINGS FOR UTILITY INFORMATION INCLUDING STORM DRAIN, SEWER, WATER, ELECTRICAL, GAS, TELEPHONE AND CABLE TV.
- 3. REFER TO CITY AND/OR COUNTY STANDARD PLANS AND SPECIFICATIONS WHERE APPLICABLE.
- 4. VERIFY SITE INFORMATION, INCLUDING PROPERTY LINES, TOP AND BOTTOMS OF SLOPES, ROADWAY CURB AND GUTTERS, UTILITIES AND OTHER INFORMATION AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED.
- 5. EXCAVATION IN THE VICINITY OF UTILITIES AND EXISTING MATERIALS SHALL BE UNDERTAKEN WITH CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. ANY DAMAGE CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS. ALL PIPING, CONDUIT, SLEEVES, ETC., SHALL BE SET IN PLACE PRIOR TO INSTALLATION OF CONSTRUCTION ITEMS.
- 7. CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH SITE SUPERINTENDENT, APPROPRIATE AGENCIES AND PLANS, FOR THE LOCATIONS OF ALL UNDER-GROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
- 8. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
- 9. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
- 10. PRIOR TO INSTALLATION OF ANY CONSTRUCTION ITEM, FORMS WITH STEEL IN PLACE AND COMPACTED SUBGRADE COMPLETE, SHALL BE OBSERVED AND REVIEWED BY THE LANDSCAPE ARCHITECT.
- 11. ALL WALLS AND WALKS SHOULD HAVE SMOOTH, CONTINUOUS CURVES AS INDICATED ON PLANS.
- 12. ALL PROPERTY LINES, LOT LINES, AND TOP OF SLOPE LINES SHALL BE VERIFIED PRIOR TO COMMENCING WORK.
- 13. ALL ELECTRICAL JUNCTION BOXES FOR LIGHTS SHALL BE IN PLANTING AREAS AND LOCATION REVIEWED BY THE LANDSCAPE ARCHITECT. STAKE LOCATION PRIOR TO INSTALLATION.
- 14. SEE CIVIL ENGINEER'S DRAWINGS FOR CURBS AND A/C PAVING. 15. REFER TO GRADING PLANS FOR ELEVATIONS AND LOCATION OF DRAINAGE
- STRUCTURES PRIOR TO INSTALLATION OF WALKS, FOOTINGS, AND OTHER STRUCTURES. 16. RAISE ALL VAULTS & UTILITY BOXES TO GRADE WITHIN LIMIT OF WORK.
- FIELD VERIFY PRIOR TO BID. 17. REFER TO GEOTECHNICAL REPORTS FOR ADDITIONAL INFORMATION. IF NOTES ON THE PLANS DIFFER FROM THE GEOTECHNICAL REPORT, PROVIDE THE

MOST STRINGENT REQUIREMENT.

SCOPE OF WORK

CONSTRUCTION OF NEW TENNIS COURTS WITH SPORTS LIGHTING. SCOPE INCLUDES CONSTRUCTION OF SEATING, RETAINING WALLS, CONCRETE PAVING, PLANTING AND IRRIGATION.

LANDSCAPE NOTES AND SCHEDULES

SITE SECTIONS / ELEVATIONS

MATERIALS PLAN

PLANTING PLAN

L0.1

L1.1

L4.1

L7.1

KEYNOTES

KEY NOTE	DESCRIPTION	DET/ SHT COLOR / FINISH
1	CONCRETE PAVING	INTEGRAL COLOR/ SANBLASTED
02	POST-TENSIONED CONCRETE SLAB	NATURAL GRAY/ MEDIUM BROOM
03	CONCRETE POUR BACK STRIP	NATURAL GRAY/ MEDIUM BROOM
04	CONCRETE MOW CURB	NATURAL GRAY/ MATCH EXISTING
05	CONCRETE RETAINING WALL	NATURAL GRAY/ LIGHT SANDBLAST
06	CONCRETE STAIRS	NATURAL GRAY/ LIGHT SANDBLAST
07	CONC. TERRACED SEATING WITH WOOD PLA	ANKS NATURAL GRAY/LT. SANDBLAST W/ IPE PLANKS
08	CONCRETE SEATWALL WITH WOOD PLANKS	NATURAL GRAY/LT. SANDBLAST W/ IPE PLANKS
09	CONCRETE CANTILEVERED OVERLOOK	NATURAL GRAY/ LIGHT SANDBLAST
10	WOOD BENCH	IPE PLANKS WITH TUBE STEEL SUPPORTS ATTACHED TO WALL
11	HANDRAIL AT STAIRS	GALVANIZED AND PAINTED, COLOR TBD
12	HANDRAIL AT RAMP	GALVANIZED AND PAINTED, COLOR TBD
13	4' HT. CHAINLINK FENCE	BLACK VINYL COATED
14	12' HT. CHAINLINK FENCE	BLACK VINYL COATED
15	CHAINLINK FENCE AT RETAINING WALL	BLACK VINYL COATED
16	CHAINLINK SINGLE GATE	BLACK VINYL COATED
17	CHAINLINK DOUBLE GATE	BLACK VINYL COATED
18	TENNIS COURT NET POST AND NETTING	SEE PLAY EQUIPMENT LEGEND
19	TENNIS COURT STRIPING	WHITE
20	COURT SURFACING	LIGHT GREEN FIELD DARK GREEN COURT
21	DRINKING FOUNTAIN / BOTTLE FILLING STA	ATION COLOR TBD
22	6" WIDE TRENCH DRAIN	ANODIZED ALUMINUM

REFERENCE KEYNOTES

KEY NOTE	DESCRIPTION				DET REF	СОММ	ENT		
Α	EXISTING PA	/ING				PROTE	CT IN PLACE		
В	EXISTING CURB/GUTTER				PROTE	CT IN PLACE			
С	EXISTING FEI	NCING				PROTE	CT IN PLACE		
D	EXISTING TR	ENCH DRAIN	١			PROTE	CT IN PLACE		
F	EXISTING SP	ORTS FIELD				PROTE	CT IN PLACE		
G	EXISTING RU	NNING TRAG	CK			PROTE	CT IN PLACE		
Η	ROLLED CUR	B / GUTTE	R			PER C	IVIL		
J	CURB / GU	ITER				PER C	IVIL		
К	RELOCATED	SCOREBOAR	D						
L	EXISTING WA	LL				PROTE	CT IN PLACE		
		S	ITE LIG	HTIN	IG L	EGEND			
		_							—
SYM.	DESCRIPTION				REF	СОММЕ	INTS		
+	BOLLARD LIG	ΉT				COLOR	: MATCH EXIST	ING	
Þ	SPORTS LIGH	ITING				GALVA MATC	NIZED STEE H EXISTING	EL TO	
NOTE:	SEE ELECTRIC	AL PLANS	FOR FIXTUR	RES, LA	MPS, /	AND SPECS.			
		SPOR	TS EQL	ЛЬМ	ENT	LEGEN	ID		
SYM.	DESC.	MANUF.	MODEL	#	СС	DLOR	FINISH/PTRN.	QTY.	DET.
NOT SHOWN	Tennis Posts/ Nets	Porter Athletic	00885–000 02237–000	(POSTS) (NETS)	DARK NYLON	green posts Nets	DK GRN POSTS NYLON NETS	6 PAIRS POSTS 6	XX/ LX.X
Not Shown	WINDSCREEN	WEST COAST NETTING (WCN)	VCP—90 (SEE PLAN o ELEVATION S FOR LOCATIO	& HTS. DN)	DARK	GREEN	90% OPACITY	AS REQ.	PER MANU
NOTES:	1. ALL EQUIP 2. QUANTITIES	MENT IS TO S SHOWN IN	D BE PROV N PLAY EQU	ided b' Jipment	r The Lege	CONTRACTO	R. TAL QUANTITIES	•	
		SIT	E SYM	BOL	S LE	GEND			
CVIII				C V	<u></u>			Г)et
			- ^	51	M	CONSTRUCT	TION JOINT)	XX/
	EXISTING PL	TCH BASIN					IOINT	<u> </u> }	_X.X KX/
	CLEAN OUT				-	LIMIT OF W	ORK	l	<u>_X.X</u>
	EXISTING PC	LE LIGHT		TO	S	TOP OF SL	OPE		
+	EXISTING TR PROTECT IN	EE PLACF		BO	S	BOTTOM OF	SLOPE		
PB	PULL BOX	. 2.02		P/	_ م	PLANTING A	REA		

CB CATCH BASIN ALIGN EV ELECTRICAL VAULT E ELECTRICAL EQUIPMENT NOTE: UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS. FOR DETAILS AND

EXACT LOCATIONS. FINAL LOCATIONS TO BE REVIEWED BY LANDSCAPE ARCHITECT.

PTRN.	QTY.	DET.
POSTS ETS	6 PAIRS POSTS, 6 NETS	XX/ LX.X
ACITY	AS REQ.	PER MANUF





Sage Hill	Tennis Complex		20402 Newport Coast Drive	Newport Beach, CA 92657	-				Developed for	Sage Hill School
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Revision Date										
Submittal Date	SCHEMATIC DESIGN 02 - 24 -15									
Job Dat Che Sca	I I No. e eecked ale	by	N S		SC TE HE		PE	 1424 02 E	8.10 24-1	5



KEYNOTES

KEY NOTE	DESCRIPTION	DET/ SHT	COLOR / FINISH
1	CONCRETE PAVING		INTEGRAL COLOR/ SANBLASTED
02	POST-TENSIONED CONCRETE SLAB		NATURAL GRAY/ MEDIUM BROOM
03	CONCRETE POUR BACK STRIP		NATURAL GRAY/ MEDIUM BROOM
04	CONCRETE MOW CURB		NATURAL GRAY/ MATCH EXISTING
05	CONCRETE RETAINING WALL		NATURAL GRAY/ LIGHT SANDBLAST
06	CONCRETE STAIRS		NATURAL GRAY/ LIGHT SANDBLAST
07	CONC. TERRACED SEATING WITH WOOD PLA	ANKS	NATURAL GRAY/LT. SA W/ IPE PLANKS
08	CONCRETE SEATWALL WITH WOOD PLANKS		NATURAL GRAY/LT. SA W/ IPE PLANKS
09	CONCRETE CANTILEVERED OVERLOOK		NÁTURAL GRAY/ LIGHT SANDBLÁST
10	WOOD BENCH		IPE PLANKS WITH TUE SUPPORTS ATTACHED
11	HANDRAIL AT STAIRS		GALVANIZED AND PAINTED, COLOR TBD
12	HANDRAIL AT RAMP		GALVANIZED AND PAINTED, COLOR TBD
13	4' HT. CHAINLINK FENCE		BLACK VINYL COATED
14	12' HT. CHAINLINK FENCE		BLACK VINYL COATED
15	CHAINLINK FENCE AT RETAINING WALL		BLACK VINYL COATED
16	CHAINLINK SINGLE GATE		BLACK VINYL COATED
17	CHAINLINK DOUBLE GATE		BLACK VINYL COATED
18	TENNIS COURT NET POST AND NETTING		SEE PLAY EQUIPMENT
19	TENNIS COURT STRIPING		WHITE
20	COURT SURFACING		LIGHT GREEN FIELD DARK GREEN COURT
21	DRINKING FOUNTAIN / BOTTLE FILLING STA	ATION	COLOR TBD
22	6" WIDE TRENCH DRAIN		ANODIZED ALUMINUM

REFERENCE KEYNOTES

KEY NOTE	DESCRIPTION	DET REF	COMMENT
Α	EXISTING PAVING		PROTECT IN PLACE
В	EXISTING CURB/GUTTER		PROTECT IN PLACE
С	EXISTING FENCING		PROTECT IN PLACE
D	EXISTING TRENCH DRAIN		PROTECT IN PLACE
F	EXISTING SPORTS FIELD		PROTECT IN PLACE
G	EXISTING RUNNING TRACK		PROTECT IN PLACE
Η	ROLLED CURB / GUTTER		PER CIVIL
J	CURB / GUTTER		PER CIVIL
К	RELOCATED SCOREBOARD		
L	EXISTING WALL		PROTECT IN PLACE
	SITE LIGHTI		GEND

SYM. DESCRIPTION DET/ REF COMMENTS Image: Bollard Light COLOR: MATCH EXISTING Image: SPORTS LIGHTING GALVANIZED STEEL TO MATCH EXISTING

NOTE:	SEE ELECTRICAL PLANS FOR FIXTURES, LAMPS, AND SPECS.
	SPORTS EQUIPMENT LEGEND

SYM.	DESC.	MANUF.	MODEL #	COLOR	FINISH/PTRN.
NOT SHOWN	tennis posts/ Nets	Porter Athletic	00885-000 (POSTS) 02237-000 (NETS)	DARK GREEN POSTS NYLON NETS	DK GRN POSTS NYLON NETS
not Shown	WINDSCREEN	WEST COAST NETTING (WCN)	VCP–90 (SEE PLAN & ELEVATION SHTS. FOR LOCATION)	DARK GREEN	90% OPACITY

NOTES: 1. ALL EQUIPMENT IS TO BE PROVIDED BY THE CONTRACTOR. 2. QUANTITIES SHOWN IN PLAY EQUIPMENT LEGEND ARE TOTAL QUANTITIES.

	SITE S	YMBOLS LE	EGEND
SYM.	DESC.	SYM.	DESC.
(E) PA	EXISTING PLANTING AREA		CONSTRUCTION JOINT
	EXISITNG CATCH BASIN		ISOLATION JOINT
0	CLEAN OUT	*******	LIMIT OF WORK
${\not\sim}$	EXISTING POLE LIGHT	TOS	TOP OF SLOPE
+	EXISTING TREE PROTECT IN PLACE	BOS	BOTTOM OF SLOPE
PB	PULL BOX	PA	PLANTING AREA
СВ	CATCH BASIN		ALIGN
EV	ELECTRICAL VAULT	E	ELECTRICAL EQUIPMENT
-			

NOTE: UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS. FOR DETAILS AND EXACT LOCATIONS. FINAL LOCATIONS TO BE REVIEWED BY LANDSCAPE ARCHITECT.





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PLANTING LEGEND



A. GENERAL

- 1. Applicable Code: 2013 California Building Code (CBC). References to industry standards herein shall be latest edition as adopted by Applicable Code. References to ICC-ES Evaluation Reports for proprietary materials herein shall be latest edition as adopted by Governing Code Authority. a. Design Wind Speed: 110 mph, Exposure C.
- b. Seismic importance Factor I: 2. Governing Code Authority: Division of State Architect (DSA).
- 3. Field Verification: Field verify existing conditions and dimensions prior to construction. Promptly notify Architect
- (Structural Engineer) in case of discrepancies.
- 4. Design Intent: Contract Documents indicate design intent for structure in its completed state. They do not indicate method of construction. Promptly notify Architect (Structural Engineer), prior to proceeding with Work, if design intent requires further clarification.
- 5. Deviations, Modifications and Substitutions to Approved Structural Drawings: Must be accepted in writing by Architect (Structural Engineer) and approved by Governing Code Authority. No deviation, modification or substitution will be accepted via shop drawing review.
- 6. Procedures of Construction: Contractor is responsible for procedures of construction complying with national, state and local safety ordinances. Site visits (including Structural Observation) by Architect (Structural Engineer) do not constitute supervision of methods of construction. a. Protection of Utilities: Locate existing utilities, including those not shown on Contract Documents, and protect
- them from damage. Contractor bears expense of repair or replacement of utilities in conjunction with execution b. Excavations: Protect structure, adjacent structures, adjacent properties, streets, and utilities during excavation utilizing lagging, shoring, underpinning and related procedures as may be required. Provide necessary supports for soil at sides of excavations. Contractor and affected trades shall refer to Geotechnical Report for
- more information. Protection of Structure: Provide necessary measures to protect structure during execution of Work. Contractor Proposed Revisions: Where a revision of structural design or connection is proposed by Contractor to accommodate construction tolerances, construction sequence and/or dimension modifications, Contractor shall retain a structural engineer licensed in State of California to perform design. Submit stamped and signed design drawings and calculations to the Architect (Structural Engineer) for review and the Governing Code Authority for approval.
- e. Erection Plans: Determine phases of Work requiring erection plans according to applicable safety regulations. Maintain certified copies of erection plans at site during construction Shoring, Bracing, and Other Temporary Supports: Design and erect shoring, bracing, and other temporary supports where structure has not attained design strength and as required for safe erection. Ensure floor, roof,
- and wall members are securely shored and braced during construction. Provide shoring at elevated beams and slabs supporting concrete or masonry walls during and after wall pour until wall attains design strength. g. Temporary Loading: Ensure construction loads do not exceed indicated design live load values. Notify affected sub-contractor trades of these design load limits.
- Fabrication, Shipment, and Erection of Structural Steel: Ensure stresses occurring during fabrication, shipment, and erection of structural steel are temporary and are less than design and allowable stress capacities of individual members. Do not impair full design and load carrying capacity of members due to fabrication, shipment, or erection. Contractor is responsible for controlling erection sequence, erection procedure, temperature differentials and weld shrinkage to minimize residue stresses. Provide additional materials for the erection of structural steel such as temporary bracing and guy cables as may be necessary at no additional cost. Remove these materials unless approved in writing by Owner. Do not tighten bolts in
- typical beam to column connections for erection purposes. Securing Reinforcing Steel, Dowels, Anchor Bolts and Embeds: Firmly support and accurately place complying with ACI standards prior to casting concrete or grout in masonry walls. Use ties and support bars in addition to reinforcing steel shown where necessary. No welding of reinforcing steel, including tack welding, is permitted unless otherwise accepted in writing by Architect (Structural Engineer). Provide plastic or plastic coated chairs and spacers when resting on exposed surfaces.
- 7. Coordination Responsibility: Contractor is responsible for coordination of Work including that of sub-contractor
- 8. Submittals: Submit to Architect (Structural Engineer) as indicated on structural drawings and specifications. General Contractor shall review submittal for completeness and compliance with Contract Documents prior to submissior a. Request for Information (RFI) Submittals: Accompany RFI's with partial structural foundation or framing plans
 - showing location in question and affected structural members. Copy partial plan from structural drawings and indicate grid line locations and floor level. Also provide properly drawn engineering sketches illustrating issues and Contractor's proposed solutions. Photographs are not acceptable substitutes to engineering sketches. Composite Slab Penetration Submittal: Submit to Architect (Structural Engineer) for each floor indicating size and location of each slab penetration and opening as necessary by all affected trades. Submit penetration
- plans together with corresponding metal decking or reinforcing steel shop drawings. Submit written statement from Special Inspector that no additional penetrations or openings were added to those shown in penetration submittal Composite Concrete and Masonry Wall Penetration Submittal: Submit to Architect (Structural Engineer) for each wall indicating size and location of each wall penetration and opening as necessary by all affected trades.
- Submit penetration elevations together with corresponding reinforcing steel shop drawings. Submit written statement from Special Inspector that no additional penetrations or openings were added to those shown in penetration submittal.
- 9. Contract Documents Use: Review Contract Documents in their entirety before performing structural related Work and before developing shop drawings. Bring discrepancies to immediate attention of Architect (Structural Engineer) before starting Work. a. Scaling of Drawings: Not permitted.
- Additional Structural Requirements: See specifications. c. Building Geometry: See architectural drawings for building geometry including, but not limited to, top of floor and roof elevations; depressions; slopes; curbs; drains; trenches; slab and deck edge locations: wall overall
- dimensions; and size and locations of openings in floors, roof, and walls. d. Non-structural Items Requiring Special Provisions: See architectural, mechanical, plumbing, and electrical drawings for non-structural items requiring special provisions during construction. They include, but are not limited to, non-structural walls; size and locations of openings and sleeves penetrating structure; size and location of concrete curbs and pads; and size and location of piping, ductwork, and equipment anchorages mounted or suspended from structure. Verify exact size and location of equipment with equipment manufacturer.
- 10. Materials: Furnish and install in compliance with legally constituted public authorities having jurisdiction including county and local ordinances and safety orders of State Industrial Accident Commission, OHSA.
- 11. Penetrations, Embedments, and Openings in Structural Members: No penetration, embedment, opening, sleeve, pipe, or conduit shall occur in structural members including footings, slabs, walls, columns, and beams unless specifically shown or indicated on structural drawings.
- 12. Typical Details: Details on S1 series sheets are applicable throughout Project wherever the described condition occurs and may or may not be specifically referenced on structural drawings. Contractor is responsible for identifying these details and understanding extent of their application prior to performing Work.
- B. QUALITY ASSURANCE (STRUCTURAL OBSERVATION, MATERIALS TESTING, and SPECIAL INSPECTION) 1. Structural Observation:
- a. Coordination Responsibilities of Contractor: Notify Architect (Structural Engineer) 48 hours in advance of critical stages of construction indicated below so visits may be scheduled by Structural Observer. Failure by Contractor to meet observation schedule may require removal of subsequent Work for observation. Contractor to bear costs of removal and replacement of finished Work or framing damaged by removal process or as required for corrective action.
- b. Pre-construction Meeting: Owner may coordinate and call for meeting between Architect (Structural Engineer) responsible for structural design, Structural Observer, Contractor, affected subcontractors and Special Inspector. structural observer will preside over this meeting. Purpose of meeting is to identify major structural elements and connections that affect vertical and lateral load resisting systems of structure and to review schedule of Structural Observation, Materials Testing, and Special Inspection of Project.
- Critical Stages of Construction Requiring Structural Observation: Casting Post tension slab.

Mill Test Reports Certifying Materials: Contractor to submit mill test reports certifying reinforcing steel, and structural steel are of identifiable tested stock to Owner, Special Inspector, Architect (Structural Engineer) and, upon request, to Governing Code Authority. Ensure materials are properly tagged for identification. If mill test reports cannot be made available or if material cannot be identified, Testing Laboratory will perform tests as directed by Architect (Structural Engineer). Contractor shall pay Testing Laboratory for costs related to tests and inspections of unidentifiable materials or materials furnished without mill test reports, materials found deficient after initial tests and inspections, or materials replacing deficient materials. i. Ultrasonic Examination of Heavy Rolled Shapes and Thick Plates at Proposed Welded Moment Connections:

- Where complete penetration groove welds occur at Groups 4 and 5 structural steel shapes, as defined in ASTM A6, and plates exceeding 2 inches thick, submit mill test reports to Architect (Structural Engineer) and, upon request, to Governing Code Authority. Mill test reports shall certify that Charpy V-notch testing was conducted in compliance with ASTM A6, Supplementary Requirement S5, including impact test complying with ASTM A673 at frequency P with minimum average value of 20 ft.-lbs. absorbed energy at 70 degreees Fahrenheit
- 3. Special Inspection: Per DSA-103 for and chapter 17A of CBC.

C. EARTHWORK and FOUNDATIONS

1. Geotechnical Report: Perform soils work complying with foundation design based on recommendations in report no. 1588A76; prepared by MTGL.; dated January 31, 2014 and subsequent addenda letters. Maintain at site a copy of report and addenda.

- a. Allowable Foundation Design Values per Geotechnical Report:
- 2,500 psf Bearing Capacity: Passive Lateral Bearing Pressure: 300 psf/ft
- Coefficient of Friction:

3. Grading, Excavations, Backfill and Compaction of Backfill: Comply with Geotechnical Report and requirements of Governing Code Authority and performed only under Continuous Special Inspection of geotechnical engineer

- 4. Preparation of Soil Under Slabs on Grade (Extending 3'-0" Beyond Footprint to a depth of 3'-0"): a. Excavation: Excavate existing fill, soils disturbed during demolition of existing improvements, and any unsuitably loose soil encountered. Depth of excavation shall be as recommended in geotechnical report.
- b. Scarification: Prior to re-compaction process, contact geotechnical engineer for scarification requirments in compliance with report.
- c. Compacted Fill: Excavated site soil or imported fill, both properly moisture conditioned, may be used for compacted fill subject to geotechnical engineer's approval. Place compacted fill in lifts not exceeding 8 inches. Bring moisture content of compacted fill to a minimum of 105 to 120 percent of optimum moisture content. Mechanically compact to at least 90 percent of the laboratory maximum dry density as determined by ASTM Test Method D1557. Soil within 2'-0" of finish grade shall consist of granular materials with very low expansion potential, Expansion index [EI] of 50 or less.
- 5. Foundation Excavations: Foundations are to bear on approved compacted fill as indicated in Geotechnical Report. Excavations are to be inspected by geotechnical engineer prior to placement of reinforcing steel and formwork. Ensure excavations are clean, dry and free of debris or loose soil. Slope sides of excavation not less than minimum slope indicated in Geotechnical Report. Cast concrete directly against excavated surfaces.

- D. PROPRIETARY ANCHORAGES and FASTENERS
- Anchorages a. Drill and Epoxy Anchors into Concrete: Hilti HIT-RE 500-SD adhesive system using threaded steel rods A706, grade 60, complying with ICC-ESR Evaluation Report No. 2322. Installers to be certified by manufacturer. Substituting drill and epoxy anchors for cast-in-place reinforcing embedments will not be
- accepted. Report No. 1967
- 2. Installation: See manufacturer's written instructions, referenced ICC-ES evaluation report.
- thoroughly cleaned per manufacturer's written recommendations prior to installation of anchorages. free of dust, grease, and other materials that impair bond.
- 4. Testing for Drill and Epoxy Anchors and Mechanical Anchors:
- b. Testing Setup: Testing Laboratory will perform tests using calibrated hydraulic hole jacks or dual jacks concrete adjacent to hole. Test equipment, method and layout are subject to Architect (Structural Engineer's) acceptance
- actual Work. Prepare and set 3 specimens for each size and type of drill and epoxy anchor and mechnical anchor in each kind of concrete under conditions representative of proposed use.
- Test anchors to tension and torque values tabled below. iii. No loosening or movement of anchor nor cracking or spalling of concrete shall be observed. d. Proof Testing: Required throughout Work as anchors are set. Testing shall be representative of all anchors
- placed. i. Test 100% of installed anchors.
- Test anchors to tension and torque values tabled below. iii. No loosening or movement of anchor nor cracking or spalling of concrete shall be observed. e. Drill and Epoxy Anchor Testing:
- i. Tension Test Values: Anchor Dia. (in.) Anchor Minimum <u>or Bar Size</u> Embedment (in.)
- * Normal weight concrete

E. <u>REINFORCING STEEL</u> Reinforcing Steel: All bars shall be deformed.

- All bars unless indicated otherwise: ASTM A615, Grade 60 Bars to be welded: ASTM A706, Grade 60 tensile stress to actual yield stress is not less than 1.25.
- Wire and Spiral Reinforcing: a. Smooth welded wire fabric (W.W.F.): ASTM A185, Fy =65 ksi, flat sheets only - do not use rolled mesh. Lap 1-1/2 wire spaces (1 foot minimum). Offset laps in adjacent sheets to avoid continuous laps.
- Deformed wire stirrups (D4 and larger only): ASTM A497, Fy =65 ksi d. Spiral reinforcing: ASTM A82, Grade 60.
- for reinforcing shall be nonferrous of plastic coated when resting on exposed concrete surfaces.
- Shop Drawings: ACI 315, Part B. Show reinforcing steel placement including sizes, quantities, spacing, clearances, splice locations, lap lengths, and concrete coverages and submit to Architect (Structural Engineer). Promptly notify Architect (Structural Engineer) prior to developing shop drawings if insufficient clear distances reinforcing steel and concrete.
- Lap Splices: Provide Class B splices unless indicated otherwise. Splice #5 bars and larger only at locations indicated. If additional splice locations are proposed, promptly notify Architect (Structural Engineer) prior to developing shop drawings. a. Splices in Walls: Locate splices in horizontal bars at well-staggered locations. Do not splice vertical bars except at horizontal supports such as floor and roof diaphragms.
- Mechanical Splice: Mechanical couplers shall have current ICC report and shall shall have the capacity to devolp 180 percent of the yield strength of the spliced bars.
- or 1 bar diameter, whichever is greater. 1-1/2 inches or 1-1/2 bar diameters, whichever is greater, at columns, as single bars except bar diameter is derived from equivalent total area of bundle.
- unless noted otherwise: a. Slabs on Grade locate at center of slab
- b. Slabs Supporting Earth Above 1-1/2 inches from top c. Formed Concrete in Contact With Earth 2 inches
- d. Concrete Poured Against Earth (Unformed) 3 inches
- e. Walls Above Grade, Exposed to Weather 2 inches f. Walls Above Grade, Not Exposed to Weather 3/4 inch
- g. Columns (Clear to Face of Ties) 1-1/2 inches h. Beams (Clear to Face of Ties) 1-1/2 inches
- i. Structural Slabs (Top and Bottom) 1 inch
- construction joints, unless detailed otherwise.
- wall vertical reinforcing and be lapped with a class B lap splice U.N.O.
- 12. Placement of Bars in Walls: Place vertical bars closest to wall surfaces at curtains containing vertical and horizontal
- with most steel area closest to near wall surface. 13. Bars Terminating at Walls, Columns, Beams, and Foundations: Extend bars to within 2 inches (3 inches at concrete
- unless detailed otherwise.
- 90-degree hook unless detailed otherwise. 15. Welding: AWS D1.4, except as modified by Applicable Code Standard 19-1.
- a. Acceptable Reinforcing Steel for Welding: ASTM A706. If welding of reinforcing steel other than A706 is desired, submit proposed procedure, indicating conformance to Applicable Code and requirements of for approval prior to execution. b. Rebar to rebar weld not allowed except where specifically indicated on plans. Provide electrode E90XX (90 ksi)
- where permitted. c. Welder Certification: Governing Code Authority.
- steel bars embedded in concrete unless otherwise accepted in writing by Architect (Structural Engineer).
- F. CAST-IN-PLACE CONCRETE
- Applicable Standards: ACI 318 and ACI A301 except as amended in Applicable Code Chapter 19A and as modified by supplemental requirements herein.
- 2. Portland Cement: ASTM C150, type II
- 3. Aggregates:
- a. Normal Weight Concrete Aggregate: ASTM C33 for aggregates of natural sand and rock. Maximum aggregate size is 1-1/2 inches at foundations and slabs on grade and 1 inch elsewhere. gravel size.
- 4. Minimum 28-Day Concrete Compressive Strengths and Location in Structure
- Post Tensioned Slab All other concrete
- 5. Lean Concrete: Where specifically indicated, containing
- 6. Non-shrink Grout: ASTM C109, cementitious, non-met 7. Concrete Mix Design Submittal: Prior to ordering conc concrete required designed, signed, and sealed by a re (Structural Engineer), Special Inspector and to Governin
- Construction Joint Submittal: Submit to Architect (Structural Engineer) at least 14 days prior to placing concrete indicating locations of construction joints and extent of pours. Place joints at locations to minimize effects of shrinkage as well as being placed at points which least impair strength of structure. Provide dowels as directed.
- 9. Embedments and Penetrations in Concrete: No penetration through structural concrete is permitted unless specifically acceptance in writing by Architect (Structural Engineer).
- 10. Chamfered Corners: Provide 3/4-inch chamfer at exposed corners of columns, beams and walls except where structural walls are laid flush with column or beam faces, unless detailed otherwise.
- standing water before placing new concrete. 12. Curing: Maintain concrete above 50 degrees Fahrenheit and in a moist condition for a minimum of 7 days after

conforming to ASTM F1554, grade 55, or reinforcing steel conforming to ASTM A615, grade 60, or ASTM

b. Drill and Epoxy Anchors into CMU: Hilti HY-150 MAX adhesive system complying with ICC-ESR Evaluation

a. Drilling Holes in Existing Concrete or Masonry for Anchorages: Use non-pneumatic, rotary hammer tools with ANSI compliant non-rebar cutting drill bits to drill holes of proper tolerances. Locate existing rebar including prestressing and post-tensioning tendons using non-hazardous, non-destructive methods with accurate location tolerances (plus or minus 1/4-inch) prior to drilling holes to avoid cutting or damaging. Holes shall be b. Deleterious Materials: Keep anchorages, including holes for drill and epoxy anchors and mechanical anchors,

Special Inspection: Special Inspector will perform Continuous Special Inspection during installation operating against suitable pulling fixture. Place jacks and fixture so they do not apply restraint to or confine

c. Qualification Testing: Required for Architect's (Structural Engineer's) acceptance prior to commencement of



Additional Requirements for Bars, Excluding Ties, in Ductile Moment Resisting Frames and Boundary Elements in Shear Walls: No additional requirements if ASTM A706, Grade 60 bars used. ASTM A615, Grade 60 bars are permitted provided actual yield strength based on mill tests does not exceed specified yield strength by more than 18,000 psi (retests shall not exceed this value by more than an additional 3,000 psi) and ratio of actual ultimate

3. Reinforcing shall be placed accordance with the American Concrete Institute Standard 318 (ACI 318) and Concrete Reinforcing steel institute's (CRSI) "Manuel of standard practice". Reinforcing shall be kept clean and free of rest. Provide all accessories needed to support reinforcing in the positions shown in the drawings. Chairs and spacers

between reinforcing steel and other congestion is encountered. Notify Special Inspector of adjustments made from approved Contract Documents which are indicated on accepted shop drawings that facilitate field placement of

Minimum Clearances Between Parallel Reinforcing Steel Including Distance Between Sets of Spliced Bars: 1 inch piers, and pilasters only. For bundled bars, minimum clear distances between units of bundled bars shall be same

9. Minimum Concrete Coverage: Place bars as near to concrete surface as the following minimum coverages permit,

10. Dowels at Construction Joints: Provide dowels matching size and quantity of reinforcing steel interrupted at

11. Dowels between footings and vertical wall & column bars shall match the size, grade and spacing of the column up

bars of the same size. In curtains which vertical and horizontal bars are of different sizes or spacing, place layer

poured against earth) of far face of wall, column, beam, or foundation and provide standard ACI 90-degree hook

14. Bars Interrupted by Structural Steel: Extend bars to within 2 inches of steel face and provide standard ACI

Governing Code Authority, to Architect (Structural Engineer) for acceptance and to Governing Code Authority

16. Bending: Bend cold unless otherwise accepted by Architect (Structural Engineer). Do not field-bend reinforcing

b. Light Weight Aggregate for Structural Concrete: ASTM C330, expanded shale light weight aggregates of pea

d Types:						
Compressive Strength	Max. W/C					
and Type of Concrete	Ratio					
	a 4 -					
000 psi Type II	0.45					
8000 psi Type II	0.45					
g 2 sacks of cement per cubic yard	of concrete.					
allic attaining a compressive streng	th of 6000 psi.					
rete, submit for each compressive strength and type of						
gistered Civil Engineer in State of California to Architect						
ng Code Authority complying with A	Applicable Code, Chapte					
· · · · ·						

11. Construction Joints: Roughen surface to 1/4-inch amplitude. Clean, remove laitance, thoroughly wet and remove

placement unless otherwise accepted by Architect (Structural Engineer).

G. MASONRY

- 1. Specified Compressive Strength of Masonry (f'm): 1 500 psi typical unless noted otherwise.
- Verifying Specified Compressive Strength of Masonry (f'm): Use masonry prism testing method unless otherwise acceptable to Architect (Structural Engineer). Full allowable stresses are used in design. Submit masonry prism data for each type and compressive strength of masonry required, with a professional engineer's signature and state of California seal, to Architect (Structural Engineer). Compliance with minimum required compressive strength shall be based on Applicable Code Section 2105A.2.
- 3. Concrete Block: ASTM C90, medium weight, Grade N-I and Applicable Code Standard 21-4 attaining a minimum compressive strength as required to meet specified compressive strength of masonry (fm).
- 4. Face Brick: ASTM C216 and Applicable Code Standard 21-1.
- 5. Portland Cement for Mortar and Grout: ASTM C150, type I or II. Use of masonry cement or plastic cement is not
- 6. Aggregates for Mortar and Grout: a. Aggregates for Mortar: ASTM C144. b. Aggregates for Grout: C404, coarse type.
- 7. Mortar: ASTM C270, Type S. Mix in proportions according to Applicable Code Table 2103A.10, Type S., 2100 PSI
- 8. Grout: ASTM C476, coarse type, attaining a minimum compressive strength as required to meet specified compressive strength of masonry (fm). However, in no case shall grout compressive strength be less than 2000 psi at 28 days.
- 9. Reinforcing Steel: Reinforcing steel section of general notes unless indicated otherwise.
- 10. Composite Masonry Wall Penetration Submittal: Submit for each wall indicating size and location of each wall penetration and opening as necessary by affected trades. Submit together with appropriate reinforcing steel shop drawings. Submit written statement from Special Inspector that no additional penetrations or openings were added to those shown in penetration submittal.
- 11. Reinforcing Steel Splices: Lap reinforcing steel at splices a minimum of 48 bar diameters, except dowels in footings at base of walls shall splice a minimum of 72 bar diameters, unless noted otherwise. Where minimum clear distance between bars at adjacent splices is 3 inches or less, increase lap length 30 percent unless splices are staggered at least 24 bar diameters.
- 12. Dowels for Walls, Columns, Pilasters, and Piers: Match size and spacing of vertical reinforcing steel, unless noted otherwise. Set dowels to align with cells containing reinforcing steel.
- 13. Minimum Reinforcing Steel Clearances: a. Minimum Clearances Between Reinforcing and Outside Face of Masonry: 2 inches except in no case shall clearance be less than 2-1/2 bar diameters
- b. Minimum Clearance Between Reinforcing and Inside Face of Grout Cell: 1/2 inch or 1 bar diameters (Max Minimum Clearance Distances Between Parallel Reinforcing: 1 inch or nominal bar diameter, whichever is
- less. Increase to 1-1/2 inches or 1-1/2 times nominal bar diameter, whichever is less, at columns, pilasters, and piers only.
- 14. Placement: Set courses in running bond pattern unless indicated otherwise. Set cells in vertical alignment. Provide flush mortar joints at surfaces to receive waterproofing or damp-proofing.
- 15. Grouting: Grout solid all cells. Mechanically vibrate grout in cells. a. Grout Height Limits: Applicable Code Low Lift (2104A.6.1.1.2), High Lift (2104A.6.1.1.3) b. Horizontal Construction Joints: Hold grout 1 1/2 inches below top of masonry unit if work is stopped one hour
- b. Grout Cover Around Reinforcing Steel, Anchor Bolts and Inserts Penetrating Masonry Shell: 1 inch minimum. 16. Horizontal Bars Terminating at Wall Ends and Opening Jambs: Extend bars to within 2 inches of end of wall and

H. POST-TENSION CONCRETE

- 1. One sample of prestressed wire on strand from each reel shall be tested and the results shall be submitted to the building department and the engineer for approval. 2. (2) #4 bar continuous shall be place behind all anchorages.
- Field recordings of the elongations and forces shall not vary more than 5% from the required values. Prestressed inspector shall submit certified records to the engineer. Records shall be kept of the all jacking forces and
- 4. Whenever feasible, all inserts for suspended mechanical and architectural work shall be cast-in-place. When additional fasteners are required those that are anchored in drilled holes are preferred. Power driven fasteners will only be permitted where it can be shown that they will not penetrate more than 3/4" into the concrete or are located so as to avoid tendons.
- Provide adequate shores to carry all construction loads. 6. All pockets required for anchorages shall be adequately reinforced so as not to decrease the strength of the structure and shall be water-proofed so as to eliminate water leakage through the pocket.
- Tendons shall not be curved with a radius of more than 10'-0".
- 8. Profiles and forces are based on ¹/₂" diameter strands. If however other tendons are used, adjustment of the profile and force must be made. Manufacturer shall furnish the engineer and the building department with a guarantee of the ultimate strength of the
- tendons 10. The top of the slab shall be true to indicated elevations. Variations shall not exceed $\frac{1}{4}$ in ten feet. Care must be
- exercised in finishing operations to obtain a true surface. 11. The slabs shall be furnished as noted in the architectural specifications.

provide standard ACI 90-degree hook unless detailed otherwise.

- 12. Shop drawings for post-tensioning shall show the following: a. Tendon layouts and dimensions locating tendons in horizontal plane at all points. Horizontal curvature of
- tendons at blockouts and anchorages shall be detailed. All openings in slabs shall be shown on the shop b. Tendon profiles showing chair heights, location of any placement steel is required. It shall be the prestressing
- steel placers' responsibility to maintain alignment of the tendons before curing concrete placement. Shop drawings shall clearly show location of each tendon and method of tendon support. c. Detail of reinforcement around stressing pockets and closures.
- d. Required elongation of each tendon at back jacking point. e. Complete slab cross section details at sufficient scale to clearly show location of chairs, support steel and slab
- main direction cable and rebar. 13. Anchorages for post-tensioning tendons shall be designed in accordance with ASCE-ACI Committee 301 recommendations
- 14. Chairs and spacers for reinforcing bars and prestressing tendons shall be hot-dipped galvanized when resting on
- exposed surface 15. Unless noted otherwise on plans, the cover for tendons and anchorages shall be:
 - (a) Slabs: Tendons
- Anchorages Provide continuous inspections by a DSA certified deputy inspector during placing and stressing of the tendons. Twisting or entwining of individual steel wires or strands within a bundle or beam shall not be permitted. 18. No splicing or coupling of tendons shall be permitted unless coupling devices are specifically approved for such use.
- 19. Minimum reinforcement at bearing plates in slabs shall consist of a minimum of two No. 4 bars directly under the anchor plate extending a minimum of six inches beyond the ends of the plate. The bars shall be as near the top and bottom corners of the bearing plate as possible. 20. Post-tension contractor to coordinate location of plumbing, electrical and mechanical penetrations prior to layout of
- strands and bring conflicts to the attention of the architect and engineer. The contractor is to account for all these penetrations in his/her bid. 21. Supplier for post-tension to be PTI member.
- 22. The required post-tension forces shown on the framing plans are effective forces only. The numbers and sizes of the tendon shall be determined by the post-tensioning contractor on the following basis and shall be subjected to the approval of the structural engineer
- a. Post-tensioning tendons shall be plastic sheathed, greased, rust protected ½ inch diameter, 7-wire strands. Strands used in post-tensioning tendons shall conform to ASTM A416, latest revision, with a guaranteed minimum ultimate strength of 270,000 PSI.
- b. Tendons may be temporarily overstressed to a maximum of 0.8Fu and locked off at a maximum of 0.7Fu. However, do not exceed the manufacturer recommended values.
- c. The post-tension contractor shall submit post-tensioning calculations tendon mill certificates and anchorage test results to substantiate the method of tendon calculations. d. Frictional losses shall be based on experimentally determined wobble and curvature coefficients and shall be
- field verified during stressing operations. The calculated loss in post-tension due to elastic shortening, shrinkage and creep of concrete and relaxation of steel shall be submitted to the engineer for review and shall be at least a minimum of 25 KSI for stress relieved strands and 18 KSI for low relaxation strands.
- 23. The stressing of the slab tendons may commence when the concrete has obtained a compressive strength of 3,000 PSI. Post-tensioning of the slab tendons shall not be done within 96 hours after pouring of concrete. The general tendon stressing sequence shall be as follows:

a. First: Uniform main tendons b. Second: Slab temperature tendons

TYPICAL EQUIPMENT ANCHORAGE





– (2) 3/8" Ø - MECHANICAL ANCHOR MIN. 3 1/4" EMBED, (TOTAL OF 8)



S1.1



ABBREVIATIONS

4S/DP	4" SQUARE BY 2 1/8" DEEP BOX	LTG. LTS	LIGHTING
ADA	AMERICAN WITH DISABILITIES ACT	LPS	LOW PRESSURE SODIUM
A.F.F.	ABOVE FINISH FLOOR	MAX.	MAXIMUM
A.F.G.	ABOVE FINISH GRADE	MDF	MAIN DISTRIBUTION FRAME
AWG	AMERICAN WIRE GAUGE	MOCP	MAXIMUM OVERCURRENT PROTECTIC
AMP. A	AMPERE	MCB	MAIN CIRCUIT BREAKER
A.I.C.	AMPERES INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY
	(SYMMETRICAL)	MC	MECHANICAL CONTRACTOR
ΔΕ/ΔΤ		M	METER
		N/N/	
		N/N/	
		МШ	
ATS AVC			
AVG		MCA	
BDF	BUILDING DISTRIBUTION FRAME	MCA	
BR		MCC	
BLDG			THOUSAND CIRCULAR MILS
CEC		MCP	MOTOR CIRCUIT PROTECTOR
CIRC., CKT.	CIRCUIT	MFR.	MANUFACTURER
CB	CIRCUIT BREAKER	MTD	MOUNTED
CSFD	COMBINATION SMOKE FIRE DAMPER	MW	MICROWAVE
С	CONDUIT	N	NEW EQUIP.
C.O.	CONDUIT ONLY, COMPLETE WITH	NATS	NON AUTOMATIC DISCONNECT
	PULLSTRING	NEC	NATIONAL ELECTRICAL CODE
CONN	CONNECTED	NEMA	NATIONAL ELECTRICAL
CPT	CONTROL POWER TRANSFORMER		MANUFACTURERS' ASSOCIATION
CLCB	CURRENT LIMITING CIRCUIT BREAKER	NC	NORMALLY CLOSED
CLF	CURRENT LIMITING FUSE	NO	NORMALLY OPENED
СТ	CURRENT TRANSFORMER	NF	NON-FUSED
DIA	DIAMETER	NIC	NOT IN CONTRACT
DISC	DISCONNECT	NTS	NOT TO SCALE
	DISTRIBUTION	NI	NIGHT LIGHT
E		NO or #	
E.U.		OFCI	UNITALLED
EMS		0/ 7	INSTALLED.
E M T		%Z	
EMI		PH. or ~	PHASE
ENI	ELECTRICAL NON-METALLIC TUBING	PC	PHOTOCELL
EWC	ELECTRIC WATER COOLER	P.C.	PLUMBING CONTRACTOR
E.P.O.	EMERGENCY POWER OFF	Р	POLE
E-O-L	END-OF-LINE CIRCUIT TERMINATOR.	PVC	POLY VINYL CHLORIDE
EF	EXHAUST FAN	PDU	POWER DISTRIBUTION UNIT
E/G	EQUIPMENT GROUND (GREEN)	PRIMARY	OVER 600 VOLTS
EP	EXPLOSION PROOF	PROVIDE	FURNISH, INSTALL AND CONNECT.
ER*	EXISTING EQUIP. TO BE REOLCATED	PT	POTENTIAL TRANSFORMER
	(* CORRESPONDS TO NEW LOCATION)	PA	PUBLIC ADDRESS
ERT*	NEW LOCATION FOR REOLCATED EQUIP R	EC, RECEPT	RECEPTACLE
	(* CORRESPONDS TO PREVIOUS LOCATIO	N) REF	REFRIGERATOR
FT or '	FEET	RGS	RIGID GALVANIZED STEEL
FA	FIRE ALARM	RMS	ROOT MEAN SQUARE
FLA		SCC	SHORT CIRCUIT CURRENT
GRD	GROUND	808	
GECI		SED	
GEC		SMACINA	
HACK			CONTRACTORS NAT'L ASSOC.
	REFRIGERATION	SQ.	SQUARE
HOA	HAND-OFF-AUTO	TC	TIMECLOCK
HVAC	HEATING, VENTILATING AND AIR	TEL/DATA	TELEPHONE AND DATA
	CONDITIONING	TV	TELEVISION
H.,W.,D.,L.	HEIGHT, WIDTH, DEPTH, LENGTH	T.V.S.S.	TRANSIENT VOLTAGE SURGE
HID	HIGH INTENSITY DISCHARGE		SUPPRESSION
HP	HORSEPOWER	TYP	TYPICAL
HPS	HIGH PRESSURE SODIUM	U.G.P.S.	UNDERGROUND PULL SECTION
IN. or "	INCHES	U.O.N.	UNLESS OTHERWISE NOTED
I/G	ISOLATED GROUND	U.P.S.	UNINTERRUPTABLE POWER SYSTEM
IDF	INTERMEDIATE DISTRIBUTION FRAME	VAV	VARIABLE AIR VOLUME
JBOX	JUNCTION BOX	V	VOLTS
K	DEGREE KELVIN	VA	VOLT AMPERES
KCMII	THOUSAND CIRCULAR MUS		
		XX	EVISTING EQUIL: TO RE DEMO.D
∟.⊢.	LINEAK FEET		

(IMUM OVERCURRENT PROTECTION N CIRCUIT BREAKER	
N LUGS ONLY	
CHANICAL CONTRACTOR	
ER	
ER MAIN	
CURY VAPOR	
AL HALIDE	[-]
IMUM	Ĺ_J
FOR CONTROL CENTER	
OUSAND CIRCULAR MILS	6-4-3
	F----
	i i i
	r-t-j
	┝━╇━┥
	r-+-+-
JUFACTURERS' ASSOCIATION	
RMALLY CLOSED	<u>i i i</u>
RMALLY OPENED	
N-FUSED	
IN CONTRACT	
TO SCALE	
HT LIGHT	
/BER	
NER FURNISHED, CONTRACTOR	
	2
	$\begin{pmatrix} 3 \end{pmatrix}$
F	\E-1 /
Y VINYL CHI ORIDE	\bigcirc
VER DISTRIBUTION UNIT	ER1
ER 600 VOLTS	
NISH, INSTALL AND CONNECT.	
ENTIAL TRANSFORMER	(x)
BLIC ADDRESS	^
EPTACLE	$\underline{1}$
RIGERATOR	
ID GALVANIZED STEEL	Y-11/
	<u>+</u>
VOLTS AND LESS	
ITRACTORS' NAT'L ASSOC.	
JARE	
ECLOCK	
EPHONE AND DATA	
EVISION	

LOW VOLTAGE SYSTEM SYMBOLS

NOTE: ELECTRICAL CONTRACTOR TO REFERENCE LOW VOLTAGE TELEPHONE/DATA, SECURITY,
AND A/V PLAN FOR ADDITIONAL LOW VOLTAGE DEVICE LOCATIONS, ROUGH-IN REQUIRMENTS,
CONDUIT/INFRASTRUCTURE REQUIREMENTS, AND ALL OTHER REQUIREMENTS FOR COMPLETE
AND OPERTIONAL SYSTEM.

FLOOR BOX / SPECIALTY WALL BOX SYMBOLS

SINGLE SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE SPECIFICATIONS FOR MORE INFORMATION. TWO SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE SPECIFICATIONS FOR MORE

INFORMATION.

THREE SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE SPECIFICATIONS FOR MORE INFORMATION.

FOUR SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE SPECIFICATIONS FOR MORE INFORMATION.

SIX SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE SPECIFICATIONS FOR MORE INFORMATION.

ANNOTATIONS

MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.

DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.

LIGHTING FIXTURE DESIGNATION

PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.

 Δ DELTA CONFIGURATION WYE CONFIGURATION

GROUND

REVISION REFERENCE.

ADA DEVICE MOUNTING DETAIL



	LIGHTING SYMBOLS
	DECORATIVE PENDANT "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
A oi	SURFACE MOUNTED FLUORESCENT STRIP LIGHTING FIXTURE. "EM" AND/OR SHADED CONNECTION POINT INDICATES FIXTURE WITH EMERGENCY BATTERY PACK (MINIMUM 1100 LUMEN OUTPUT). "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
A @- 	CHAIN HUNG FLUORESCENT STRIP LIGHTING FIXTURE. MOUNTING HEIGHT TO BE AS INDICATED ON FIXTURE SCHEDULE. "EM" AND/OR SHADED CONNECTION POINT INDICATES FIXTURE WITH EMERGENCY BATTERY PACK (MINIMUM 1100 LUMEN OUTPUT). "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
O A	DECORATIVE SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
A	SURFACE MOUNTED FLUORESCENT WRAPAROUND TYPE LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
A A A	RECESSED FLUORESCENT LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
	RECESSED DIRECT/ INDIRECT LIGHT FIXTURE. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
Α	RECESSED LINEAR LED/ FLUORESCENT LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
A 💿 💿	PENDANT LINEAR LED/ FLUORESCENT LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
A	RECESSED LINEAR LED/ FLUORESCENT ASYMMETRICAL LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
D A O A	RECESSED OR SURFACED MOUNTED DOWN LIGHTING FIXTURE. "NL" INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
e a e a	RECESSED WALLWASHER LIGHTING FIXTURE. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
Â A Ô A	RECESSED ADJUSTABLE WALLWASHER LIGHTING FIXTURE. "A" INDICATES BALLAST APECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
- ርት ^ - ሉ ^	SURFACE MOUNTED DOWNLIGHT. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
ΑΥΑ	WALL MOUNTED LIGHTING FIXTURE. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
A A	SINGLE OR TWO CKT. LIGHTING TRACK AS SPEC'D IN LTG. FIXTURE SCHEDULE. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
	SURFACE MOUNTED ADJUSTABLE LINEAR WALLWASHER. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
A	CONCEALED LINEAR LIGHT STRIP. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
^ 	CONCEALED LIGHT STRIP. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
	RECESSED MULTI-LAMP ADJUSTABLE DOWNLIGHT. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
— A	WALL STEP LIGHTING FIXTURE. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
╋△╋△	BOLLARD TYPE LIGHTING FIXTURE. PROVIDE CONCRETE FOOTING PER MFGRS. REQUIREMENTS. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
A	LANDSCAPE FLOOD LIGHTING FIXTURE. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
⊶_ A	POLE MOUNTED H.I.D. LIGHTING FIXTURE. "A" INDICATES BALLAST SPECIFICATION. SEE BALLAST SCHEDULE ON SHEET E0.40
	ILLUMINATED EXIT SIGN WITH NUMBER OF FACES AND DIRECTION OF EGRESS ARROWS AS INDICATED.
⊠ ∮_₽	LOW LEVEL EXIT SIGN AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE.
	"EM" AND/OR SHADED CONNECTION POINT INDICATES FIXTURE WITH EMERGENCY BATTERY PACK (MINIMUM 1100 LUMEN OUTPUT) OR FIXTURE ON EMERGENCY INVERTER.
	OCCUPANCY SENSORS
HIO	WALL MOUNTED INFRA-RED OCCUPANCY SENSOR. USE WATTSTOPPER "WI 200" FOR SINGLE SWITCH AND "WI 300" FOR "ab" SWITCHING OR EQUAL. MOUNTING HEIGHT PER ADA MOUNTING DETAIL THIS SHEET - UON OR REQUIRED.
HDO	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. USE WATTSTOPPER "DT 200" WITH POWER PACK OR EQUAL. MOUNTING HEIGHT PER ADA MOUNTING DETAIL THIS SHEET - UON OR REQUIRED.
H⊕ ab	VACANCY SENSOR (MANUAL ON), MOUNTING HEIGHT PER ADA MOUNTING DETAIL THIS SHEET - UON OR REQUIRED. LETTERS "ab" INDICATES DUAL RELAY SENSOR. BOTH SWITCH LEGS TO BE CONFIGURED IN A "MANUAL ON" CONFIGURATION.
HUO ab	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR. LETTERS "ab" INDICATES DUAL RELAY SENSOR. MOUNTING HEIGHT PER ADA MOUNTING DETAIL THIS SHEET - UON OR REQUIRED.
©s _m	CEILING MOUNTED OCCUPANCY SENSOR. "m" INDICATES WATTSTOPPER "DT" SENSOR (OR EQUAL) WITH POWER PACK AND HVAC CONTROL RELAY. "s" INDICATES SATELLITE SENSOR.
(50) D _{x*}	AUTOMATIC CONTINUOUS DIMMING DAYLIGHTING CONTROLLER USED TO DIM LIGHTS WHEN SUFFICIENT NATURAL LIGHT IS PRESENT. NUMBER IN PARENTHESIS INDICATES THE AVERAGE WORKPLANE "TARGET ILLUMINATION" SYMBOL VALUE. ADJACENT LOWER CASE LETTERS "x*" INDICATES SWITCH LEG(S) CONTROLLED.
	LOW VOLTAGE (LV) WIRING BETWEEN OCCUPANCY, DAYLIGHT SENSORS, AND/OR LV

FINISHED FLOOR

DETAIL.

REQUIREMENTS.

POWER SYMBOLS

₽	DUPLEX RECEPTACLE - MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED.
	DOUBLE DUPLEX RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED.
-	WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
-	DOUBLE DUPLEX, GFCI RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS
æ	DEDICATED 20A, DUPLEX RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED.
-	DUPLEX RECEPTACLE WITH USB - MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS
T	NOTED.
-	DOUBLE DUPLEX RECEPTACLE WITH USB - MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED.
Ю	SIMPLEX RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED.
Ю	SPECIAL RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED. REFER TO
መ	PLAN NOTES.
*	DOUBLE DUPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
÷	SIMPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
8	SPECIAL RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
目	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS -
#	DOUBLE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ADA DEVICE MOUNTING
	REQUIREMENTS - UON OR REQUIRED.
	DUPLEX, GFCI RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENT - UON OR REQUIRED. WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
=	DOUBLE DUPLEX, GFCI RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ADA DEVICE MOUNTING
	SPECIFICATIONS.
Ð	SIMPLEX RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS -
	UON OR REQUIRED.
HSI .	UON OR REQUIRED.
Ю	WALL MOUNTED JUNCTION BOX. MOUNTING HEIGHT AS NOTED. 4S/DP MINIMUM OR AS REQUIRED BY N.E.C
J	JUNCTION BOX, MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN. 4S/DP MINIMUM OR
	AS REQUIRED BY N.E.C
RUM .	REQUIREMENTS WITH MANUFACTURER'S INSTALLATION GUIDES. VERIFY MOUNTING LOCATION AND HEIGHT
	SURFACE MOUNTED MULTI-OUTLET ASSEMBLY. REFER TO GENERAL PRODUCT SPECIFICATIONS. PROVIDE
_	ALL COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION.
КŢ	THERMOSTAT OUTLET BOX, PROVIDE 1/2"C.O. TO RESPECTIVE MECHANICAL UNIT.
A3	EXHAUST FAN, OR MOTOR LOAD. REFER TO MECHANICAL, PLUMBING OR KITCHEN DRAWINGS FOR SPECIFIC LOAD REQUIREMENTS OR AS NOTED.
	FLUSH MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.
	SURFACE MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.
	DISTRIBUTION SWITCHBOARD. REFER TO SINGLE LINE DIAGRAM.
Т	TRANSFORMER, REFER TO SINGLE LINE DIAGRAM.
 4百	FUSED DISCONNECT SWITCH, HP RATED, OR COMBINATION MOTOR STARTER/DISCONNECT SWITCH WITH FUSES
_	EQUIPMENT MANUFACTURER AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT AND STARTER SIZES.
4	MOTOR STARTER COMBINATION SWITCH WITH HOA SELECTOR SWITCH, ON "RUNNING LIGHT" RESET AND
. —	
4	NON-FUSED DISCONNECT SWITCH, HP RATED AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT SIZES.
м ст.	UTILITY COMPANY METER. PROVIDE "CT's" AND "PT's" AS REQUIRED, REFER TO SINGLE LINE DIAGRAM.
	CIRCUIT BREAKER, LINE 1 REPRESENTS FRAME SIZE/RATING; LINE 2 REPRESENTS TRIP SIZE/RATING; LINE 3
1	REPRESENTS NUMBER OF POLES AND LINE 4 REPRESENTS MISCELLANEOUS BREAKER INFO. (SEE BELOW): SHUNT = PROVIDE SHUNT TRIP MECHANISM.
b 150AF 150AT	HACR = PROVIDE HACR-RATED BREAKER. GEP = GROUND FAULT PROTECTION
•• 3P	CLCB = CURRENT LIMITING CIRCUIT BREAKER SS = PROVIDE SOUD STATE CIRCUIT BREAKER
Ŷ	EUSIBLE SWITCH: LINE 1 REPRESENTS SWITCH SIZE/RATING: LINE 2 REPRESENTS NUMBER OF POLIES: LINE 3
	REPRESENTS FUSE SIZE/RATING; LINE 4 REPRESENTS FUSE TYPE; LINE 5 REPRESENTS MISCELLANEOUS
	SHUNT= PROVIDE SHUNT TRIP MECHANISM.
50AF CLASS	CLF = CURRENT LIMITING FUSE
	GROUND CONNECTION, SIZE AS INDICATED OR AS REQUIRED.
▲ ³	SINGLE POLE SWITCHES, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS. SUBSCRIPTS AT
P ad	SYMBOL INDICATE THE FOLLOWING: 2 - DOUBLE POLE K - KEY OPERATED R - REMOTE CONTROL
	3 - THREE WAY LV - LOW VOLTAGE 4 - FOUR WAY M - MOTOR STARTING
	D - LOW VOLTAGE DIMMER P - PILOT LIGHT
	PULLBOX. SIZED PER N.E.C. OR AS NOTED.
	RECESSED COMBINATION POWER OUTLET FOR IN FLOOR BOX PER PLAN FOR FLEXIBLE CONNECTION TO
	FURNITURE SYSTEM. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
L۵	POWER OUTLET OUTLET. MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS. FOR FLEXIBLE
	CONNECTION TO FURNITURE SYSTEM PROVIDE THE FOLLOWING:
	 IN A NON-RATED INSULATED WALL, OR NON-RATED UNINSULATED WALL, PROVIDE A 2-GANG MUD RING OR CADDY #RBS SERIES BOX MOUNTING BRACKET (EQUAL BY B-LINE OR RAYCO) WITH (2) 1-1/4"C.O. WITH PULL STRING TO ACCESSIBLE CEILING. PROVIDE 1-1/4" BUSHINGS AT CONDUIT ENDS. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION/TYPE AND CEILING CONDITIONS
	IN A RATED WALL, PROVIDE (1) 4S/DP BOX WITH (2) 1-1/4"C.O. AND (1) 4S/DP BOX WITH (1) 1- "C.O. WITH PULL
	STRINGS IN EACH CONDUIT TO ACCESSIBLE CEILING. PROVIDE 1-1/4" BUSHINGS AT CONDUIT ENDS. UTILIZE CADDY #RBS SERIES BOX MOUNTING BRACKET TO MAINTAIN BOX ALIGNMENT. (EQUAL BY B-LINE OR
	RAYCO)UTLIZE FIRESTOPPING SYSTEM PADS RATED FOR USE ON THE INSIDE OR OUTSIDE OF THE BOX (STI OR EQUAL) AS REQUIRED TO MAINTAIN RATING OF WALL OR MEMBRANE. REFER TO ARCHITECTURAL PLANS
	FOR WALL CONSTRUCTION/TYPE AND CEILING CONDITIONS.
	BRANCH CIRCUIT SYMBOLS
A-1,3,5	HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS. HASH MARKS INDICATE
	NUMBER OF CONDUCTORS IN CONDUIT RUN, #12 AWG MINIMUM UNLESS OTHERWISE NOTED.
	- #12 UNDERGROUND CIRCUIT WIRE (HUT): NUMBER OF HATCH MARKS INDICATE NUMBER OF #12 AWG CONDUCTORS.
	- #12 GROUNDED CIRCUIT WIRE (NEUTRAL)
$\overline{\mathbf{N}}$	
	#12 ISOLATED GROUND WIRE. FOR CLARITY, I.G. MARKS ARE SHOWN ON THE HOME RUN ONLY. CONTRACTOR SHALL MAINTAIN THE ISOLATED GROUND CONDUCTOR TO THE FINAL CONNECTION OF ANY DEVICE SERVICE
	ALL GROUP CONDUCTOR TO THE FINAL CONNECTION OF ANY DEVICE SERVED.

CONCEALED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM

CONCEALED CONDUIT OR BRANCH CIRCUIT ROUTED IN FLOOR SLAB OR CONCRETE. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR AND SUPPORT AS REQUIRED. 1/2" CONDUIT (2) #12 AWG CONDUCTORS MINIMUM. CONDUIT OR BRANCH CIRCUIT CONCEALED BELOW GRADE, 3/4" CONDUIT MINIMUM WITH (2) 12 AWG CONDUCTORS MINIMUM AND A CODE SIZED EQUIPMENT GROUND.

SURFACE-MOUNTED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM. CONDUIT SHALL BE PAINT TO MATCH ADJUCENT SURFACE. COORDINATE COLOR WITH ARCHITECT/INTERIORS.

;	CONDUIT STUB OUT, CAP, MARK AND RECORD ON AS-BUILT DRAWINGS
`	CONDUIT CONTINUATION.
هر	FLEXIBLE CONNECTION AS REQUIRED. NUMBER OF CONDUCTORS AS REQUIRED. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
•	CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION DOWN WALL TO FLOOR BELOW
o	CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION UP WALL TO FLOOR ABOVE
	FLUSH MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.
	SURFACE MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.
	TELEPHONE TERMINAL BACKBOARD SIZED AS NOTED, REFER TO SYSTEM GROUND

ITS

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FEEDER	
(MSB-1)	(4) IN
MSB-2	(5) IN
(MSB-3)	(5) IN
(MSB-4)	(5) IN
(MSB-5)	(2) IN
(MSB-6)	(2) IN
(MSB-7)	(2) IN
-	-

FEEDER SCHEDULE LOAD DISTANCE V.D. A.I.C. CONDUIT AND CONDUCTORS NOTES 4) 4"C.-4#350MCM, 1#3/0 GRD. ----N EACH (5) 4"C.-4#500MCM, 1#4/0 GRD. --- | -IN EACH 5) 4"C.-4#500MCM, 1#4/0 GRD. ---IN EACH 5) 4"C.-4#500MCM, 1#4/0 GRD. ---IN EACH 2) 3"C.-4#250MCM, 1#2 GRD. -IN EACH 2) 3"C.-4#250MCM, 1#2 GRD. ---N EACH (2) 3"C.-4#250MCM, 1#2 GRD. ---IN EACH --- | - |







5. x

6. x





SAGE HILL Aquatic Complex

Newport Coast, CA 92657

Sage Hill School SCHEMATIC DESIGN Feburary 24, 2015



5161 California Irvine, Californi





GENERAL NOTES

EXISTING CONDITIONS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION

PERMITS, AND THE CONTRACT DOCUMENTS.

ON HOW TO PROCEED.

4

PLACEMENT OF ALL NEW CONSTRUCTION ON THE SITE.

ABBREVIATIONS

& L @ Ç Ø # (E) (N) ACOUS. A.D. ADMIN. ADJ. A.F.F. AGGR. AL.	AND ANGLE AT CENTERLINE DIAMETER OR ROUND POUND OR NUMBER EXISTING NEW ACOUSTICAL AREA DRAIN ADMINISTRATION ADJUSTABLE ABOVE FINISH FLOOR AGGREGATE ALUMINUM	FDN. F.E. F.E.C. F.H.C. FIN. FL. FLASH. FLUOR. F.O.C. F.O.F. F.O.M. F.O.S. FPRF.	FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE HOSE CABINET FINISH FLOOR FLASHING FLUORESCENT FACE OF CONCRETE FACE OF FACE OF FACE OF MASONRY FACE OF STUD FIREPROOF	PRCST. PL. P.LAM. PLAS. PLYWD. PR. PT. P.T. P.T.D P.T.D./R PTN. P.R.	PRE-CAST PLATE PLASTIC LAMINATE PLASTER PLYWOOD PAIR POINT PRESSURE TREATED PAPER TOWEL DISPENSER COMBINATION PAPER TOWEL DISPENSER & RECEPTACLE PARTITION PAPER TOWEL RECEPTACLE
APPROX. ARCH. ASB. ASPH. BD. BITUM. BIDG.	ARCHITECTURAL ASBESTOS ASPHALT BOARD BITUMINOUS BUILDING	FT. FTG. FURR. FUT. GA. GALV.	FOOT OR FEET FOOTING FURRING FUTURE GAUGE GALVANIZED	Q.T. R. RAD. R.D. REF. REFR.	QUARRY TILE RISER RADIUS ROOF DRAIN REFERENCE REFRIDGERATOR
BLK. BLKG. BM. B.O. BOT. CAB.	BLOCK BLOCKING BEAM BOTTOM OF BOTTOM CABINET	G.B. G.IM. GL. GND. GYP. H.B.	GRAB BAR GALV. IRON GLASS GROUND GYPSUM HOSE BIB HOLLOW COPE	RGTR. REINF. RELO. REQ. RESIL. RM. R.O.	REGISTER REINFORCED RELOCATABLE REQUIRED RESILENT ROOM ROUGH OPENING
C.B. CEM. CER. C.I. C.I.P C.G. CLG. CLKG.	CATCH BASIN CEMENT CERAMIC CAST IRON CAST IN PLACE CORNER GUARD CEILING CAULKING	H.C. HDWD. H.M. HORIZ. HR. HGT.	HOLLOW CORE HARDWOOD HOLLOW METAL HORIZONTAL HOUR HEIGHT INSIDE DIAMETER	RWD. R.W.L. S. S.C. S.C.D.	REDWOOD RAIN WATER LEADER SOUTH SOLID CORE SEAT COVER DISPENSER
CLO. CLR. COL. CONC. CONC. CONSTR. CONT. CORR. CR. CTSK. CNTR. CTR.	CLOSET CLEAR CASED OPENING COLUMN CONCRETE CONNECTION CONSTRUCTION CONTINUOUS CORRIDOR CLASSROOM COUNTERSUNK COUNTER CENTER	INSUL. INT. JAN. JT. KIT. LAB. LAM. LAV. LKR. LS.	INSULATION INTERIOR JANITOR JOINT KITCHEN LABORATORY LAMINATE LAVATORY LOCKER LUNCH SHELTER	SCHED. S.A. SECT. SH. SHR. SHT. SIM. S.M.S. S.N.D. S.N.R.	SCHEDULE SOAP DISPENSER SECTION SHELL SHOWER SHEET SIMILAR SHEET METAL SCREW SANITARY NAPKIN DISPENSER SANITARY NAPKIN RECEPTACLE
DBL. DEPT. D.F. DET. DIA. DIM.	DOUBLE DEPARTMENT DRINKING FOUNTAIN DETAIL DIAMETER DIMENSION	LI. MAX. M.C. MECH. MEMB. MET. MFR.	LIGHI MAXIMUM MEDICINE CABINET MECHANICAL MEMBRANE METAL MANUFACTURFR	SPEC. SQ. S.ST. S.SK. STA. STD. STL. STOR.	SPECIFICATION SQUARE STAINLESS STEEL SERVICE SINK STATION STANDARD STEEL STORAGE
DISF. DN. D.O. DR. DWR. D.S. D.S.S. DWG.	DOWN DOOR OPENING DOOR DRAWER DOWNSPOUT DRY STANDPIPE DRAWING	MH. MIN. MIR. MISC. M.O. MPR.	MANHOLW MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MULTI-PURPOSE ROOM MOLINTED	T. TRD. T.B. T.C. TEL. TER. T.&G.	TEMPERED TREAD TOWEL BAR TOP OF CURB TELEPHONE TERRAZZO TONGUE AND GROOVE
E. EA. E.D.F. E.J.	EAST EACH ELECT. DRINKING FOUNTAIN EXPANSION JOINT	MTD. MTL. MUL. N. N.I.C.	MOUNTED MATERIAL MULLION NORTH NOT_IN	THK. T.O. T.O.P. T.P. T.P.D.	TOP OF TOP OF PARAPET TOP OF PAVEMENT TOILET PAPER
EL. ELEC. ELEV. EMER. ENCL. F.P.	ELEVATION ELECTRICAL ELEVATOR EMERGENCY ENCLOSURE FLECT	NO. NOM. N.T.S. O.A.	NUMBER NOMINAL NOT TO SCALE OVERALL	T.S. T.V. T.W. TYP.	DISPENSER TUBE STEEL TELEVISION TOP OF WALL TYPICAL
EQ. EQPT. E.W.C.	PANELBOARD EQUAL EQUIPMENT ELECT. WATER COOLER	OBS. O.C. O.D. OFF. OPNG.	OBSCURE ON CENTER OUTSIDE DIAMETER OFFICE OPENING	UNF. U.O.N. UR.	UNFINISHED UNLESS OTHERWISE NOTED URINAL
EXPO. EXP. EXT.	EXPOSED EXPANSION EXTERIOR	OPP.	OPPOSITE	VERT. VEST. V.I.F.	Vertical Vestibule Verify in Field
F.A. F.B. F.D.	FIRE ALARM FLAT BAR FLOOR DRAIN			W. W/ W.C. WD. W/O	WEST WITH WATER CLOSET WOOD WITHOUT

SYMBOLS LEGEND

W.P. WATERPROOF

WSCT. WAINSCOAT WT. WEIGHT



	5.	THE CONTRACTOR SHALL CONFINE HIS OPERATIONS ON THE SITE TO AREAS PERMITTED BY THE OWNER.
NN E RATOR ED BLE	6.	THE JOB SITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY CONDITION FREE OF DEBRIS AND LITTER, AND SHALL NOT BE UNREASONABLY ENCUMBERED WITH ANY MATERIALS OR EQUIPMENT. EACH SUBCONTRACTOR IMMEDIATELY UPON COMPLETION OF EACH PHASE OF HIS WORK SHALL REMOVE ALL TRASH AND DEBRIS AS A RESULT OF HIS OPERATION.
PENING ER	7.	ALL MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE AND DETERIORATION. FAILURE TO PROTECT MATERIALS MAY CAUSE FOR REJECTION OF WORK.
RE ER ? PENSER	8.	THE CONTRACTOR SHALL DO ALL CUTTING, FITTING, OR PATCHING OF THIER WORK THAT MAY BE REQUIRED TO MAKE ITS SEVERAL PARTS FIT TOGETHER PROPERLY AND SHALL NOT ENDANGER ANY OTHER WORK BY CUTTING, EXCAVATING, OR OTHERWISE ALTERING THE TOTAL WORK OR ANY PART OF IT. ALL PATCHING, REPAIRING, AND REPLACING OF MATERIALS AND SURFACES, CUT OR DAMAGED IN EXECUTION OF WORK, SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL, UPON COMPLETION, MATCH SURROUNDING SIMILAR SURFACES.
TAL NAPKIN R NAPKIN LE TION	9.	NO PORTION OF THE WORK REQUIRING A SHOP DRAWING OR SAMPLE SUBMISSION SHALL BE COMMENCED UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE ARCHITECT. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH CORRECTED SHOP DRAWINGS AND SAMPLES.
STEEL SINK	10. A B C	DIMENSIONS: . ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE. . ALL DIMENSIONS ARE TO THE FINISH UNLESS OTHERWISE NOTED. . CEILING HEIGHT DIMENSIONS ARE FROM FINISHED FLOOR SLAB TO FACE OF FINISH CEILING MATERIAL UNLESS OTHERWISE NOTED.
R CURB	11.	WHERE LARGER STUDS OR FURRING ARE REQUIRED TO COVER PIPING AND CONDUITS, THE LARGER STUD SIZE OR FURRING SHALL EXTEND THE FULL SURFACE OF THE WALL WIDTH AND LENGTH WHERE THE FURRING OCCURS.
E ND PARAPET	12.	PROVIDE ALL ACCESS PANELS AS REQUIRED BY GOVERNING CODES TO ALL CONCEALED SPACES, VOIDS, ATTICS, ETC. VERIFY TYPE REQUIRED WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANELS SHALL BE FIRE RATED WHEN INSTALLED IN RATED CONSTRUCTION AND SHALL MEET OR EXCEED WALL, FLOOR, OR CEILING RATING
	13.	ALL GLASS AND GLAZING SHALL COMPLY WITH C.B.C. CHAPTER 24.
.PER R EL N	14.	ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
/ALL D	15.	CHANGES MADE TO THE APPROVED DRAWINGS SHALL BE MADE BY AN ADDENDA OR A CCD APPROVED BY THE DIV. OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4–338, PART 1. TITLE 24. CCR.

- R A CCD APPROVED BY THE DIV. OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. 16. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE
- 1, TITLE 24, CCR; CLASS 1. 17. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA-AC BEFORE PROCEEDING WITH THE WORK.
- 18. TITLE 24 PARTS 1–5 SHALL BE KEPT ON SITE DURING CONSTRUCTION.
- 19. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT.
- 20. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- 21. ALL LEGAL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. EXIT SIGNS SHALL BE PROVIDED AT ALL EXITS AS REQUIRED BY THE C.B.C. SECTION 1011. ALL DOOR SWINGS SERVING AN OCCUPANT LOAD OF 50 OR GREATER SHALL SWING IN THE DIRECTION OF TRAVEL.
- 22. PROVIDE ALL NECESSARY BLOCKING, BACKING, AND FRAMING FOR LIGHT FIXTURES, ELECTRIC UNITS, A.C. EQUIPMENT, RECESSED ITEMS, AND ALL OTHER ITEMS AS REQUIRED.
- 23. PROVIDE FIRE EXTINGUISHERS PER THE REQUIREMENTS OF LOCAL GOVERNING AGENCIES.
- 24. PROVIDE ALL ACCESS PANELS AS REQUIRED BY GOVERNING CODES TO ALL CONCEALED SPACES, VOIDS, ATTICS, ETC. VERIFY TYPE REQUIRED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- 25. PROVIDE EXIT ILLUMINATION PER THE REQUIREMENTS OF LOCAL GOVERNMENT AGENCIES.

1. ALL CONSTRUCTION AND MATERIALS SHALL BE AS SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, LAWS,

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. SHOULD A DISCREPANCY APPEAR IN THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND

SHOULD A CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE, UNLESS A WRITTEN DECISION FROM THE ARCHITECT HAS BEEN OBTAINED WHICH DESCRIBES A CLARIFICATION OR ALTERNATE METHOD AND/OR MATERIALS.

ACTOR SHALL CONFINE HIS OPERATIONS ON THE SITE TO

ADE TO THE APPROVED DRAWINGS SHALL BE MADE BY AN

INSPECTOR OF RECORD (I.O.R.) ARE DEFINED IN SECTION 4-342, PART

HAZARDOUS MATERIAL DISCLAIMER

THESE DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND ARE A REPRESENTATION OF EXISTING CONDITIONS AT A DETAIL REQUIRED BY THE SCOPE OF THE ARCHITECT'S SERVICES. THE ARCHITECT HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION INCLUDING BORING OR CORING OF STRUCTURAL AND/OR NON-STRUCTURAL ELEMENTS, MEASUREMENTS, ETC. AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT. THE ARCHITECT HAS NOT CONDUCTED ANY CODE COMPLIANCE ANALYSIS, STRUCTURAL ANALYSIS, ASBESTOS INVESTIGATIONS, LIFE SAFETY EVALUATION ENGINEERING STUDIES OF ANY KIND TO DETERMINE THE SUITABILITY OF THIS BUILDING FOR ITS INTENDED USE. SUBSEQUENTLY THE ARCHITECT DOES NOT REPRESENT THAT THESE DOCUMENTS ILLUSTRATE EXISTING CONDITIONS THAT COMPLY WITH ANY OR ALL APPLICABLE CODES. THE DISCOVERY OF ANY DEFICIENCY IN THE BUILDING AND/OR SITE, INCLUDING THE PRESENCE OF ASBESTOS, SHALL BE IMMEDIATELY REPORTED TO THE PROPERTY OWNER WHO SHALL BE RESPONSIBLE TO DIRECT HIS CONTRACTOR AND/OR CONSULTANTS IN THE APPROPRIATE MANNER.

GENERAL FIRE NOTES

1.	PROVIDE A MINIMUM, UNOBSTRUCTED WIDTH OF 20 FEET, CLEAR TO SKY, VEHICULAR ACCESS TO WITHIN 150 FEET OF ALL PORTIONS OF THE BUILDING EXTERIOR WALLS. CALIFORNIA FIRE CODE SECTION 503.
2.	VEHICULAR ACCESS MUST BE MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
3.	FIRE APPARATUS ACCESS ROADS SHALL NOT BE OBSTRUCTED IN ANY MANNER, INCLUDING PARKING OF VEHICLES. CALIFORNIA FIRE CODE, SECTION 503.4.
4.	FIRE EXTINGUISHER REQUIREMENTS SHALL BE DETERMINED BY FIELD INSPECTOR AND PROVIDED PER 2013 CALIFORNIA FIRE CODE SECTION 906.
5.	PROVIDE A KEY BOX LOCATION AT ALL GATED ENTRANCES AS REQUIRED BY CALIFORNIA FIRE CODE, SECTION 506. KEY BOX TO BE DESIGNED PER COUNTY OF EL CAJON FIRE DEPARTMENT REGULATIONS.
6.	COMMERCIAL DUMPSTERS OR CONTAINERS WITH AN INDIVIDUAL CAPACITY OF 1.5 CUBIC YARDS OR GREATER SHALL NOT BE STORED OR PLACED WITHIN FIVE FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTIBLE ROOF EAVE LINES UNLESS AREAS CONTAINING DUMPSTERS ARE PROTECTED BY AN APPROVED SPRINKLER SYSTEM PER CALIFORNIA FIRE CODE, SECTION 304.3.3.
7.	ROADS MUST BE CONSTRUCTED OF A MATERIAL WHICH PROVIDES AN ALL WEATHER DRIVING SURFACE AND CAPABLE OF SUPPORTING THE 70,000 POUND IMPOSED LOAD FOR THE FIRE APPARATUS. CALCULATIONS STAMPED AND SIGNED BY A REGISTERED ENGINEER SHALL CERTIFY THAT THE PROPOSED SURFACE MEETS THE ABOVE CRITERIA. CALIFORNIA FIRE CODE, SECTION 503.2.3.
8.	ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. EXIT SIGNS SHALL BE PROVIDED AT ALL EXITS AS REQUIRED BY CALIFORNIA BUILDING CODE, CHAPTER 10. ALL DOOR SWINGS SERVING AN OCCUPANT LOAD OF 50 OR GREATER SHALL SWING IN THE DIRECTION OF TRAVEL.
9.	PROVIDE EXIT ILLUMINATION PER THE REQUIREMENTS OF C.B.C., CHAPTER 10.
10.	PROVIDE INFORMATION INDICATING THAT VEHICULAR/PEDESTRIAN GATES ARE PROVIDED WITH EITHER A KNOX PADLOCK OR NON-CASE-HARDENED, FRANGIBLE PADLOCK/CHAIN THAT CAN BE CUT WITH BOLT CUTTERS. COORDINATE WITH LOCAL AHJ.
11.	COMPLY WITH CFC CHAPTER 33 FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION.

ACCESSIBILITY GENERAL NOTES

- SLOPE. THE RUNNING SLOP OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48. (CBC 11B-40.3.3)
- LANDINGS. RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN. (CBC 11B-405.7) CHANGE OF DIRECTION. RAMP THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES MINIMUM BY 72 INCHES MINIMUM IN THE DIRECTION OF DOWNWARD TRAVEL FROM THE UPPER RAMP RUN. (CBC 11B-405.7.4)
- ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USEABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
- 4. IF THE BUILDING INSPECTOR DETERMINES NONCOMPLIANCE WITH ANY ACCESSIBILITY PROVISIONS, HE/SHE SHALL REQUIRE COMPLETE DETAILED PLANS CLEARLY SHOWING ALL EXISTING NON-COMPLYING CONDITIONS AND THE PROPOSED MODIFICATIONS TO MEET CURRENT ACCESSIBILITY PROVISIONS AFFECTED BY THE REMODEL (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC..) THE PLANS MUST BE STAMPED BY THE FIELD INSPECTOR AND RESUBMITTED TO THE BUILDING DEVELOPMENT REVIEW DIVISION.
- WALKS, SIDEWALKS, AND PEDESTRIAN WAYS SHALL BE FREE OR GRATINGS WHEVER POSSIBLE. FOR GRATINGS LOCATED ON THE THE SURFACES OF ANY PEDESTRIAN WAY, IN THE PATH OF TRAVEL, GRID/OPENINGS SHALL BE LIMITED TO $\frac{1}{2}$ " MAXIMUM IN THE DIRECTION OF TRAVEL IF SUCH CONDITIONS OCCUR.
- MINIMUM CLEAR WIDTH OF AN ACCESSIBLE ROUTE SHALL NOT BE LESS THAN 36", EXCEPT AT DOORS.
- 7. ABRUPT CHANGES IN LEVEL ALONG THE PATH OF TRAVEL SHALL NOT EXCEED $\frac{1}{4}$ " LEVEL CHANGES BETWEEN $\frac{1}{4}$ "-1/2" ARE BEVELED WITH A MAXIMUM GRADIENT OF 1-2 (50% SLOPE)
- SIDEWALK AND WALK SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 1.20 GRADIENT (5%) AND CROSS SLOPE SHALL NOT EXCEED 1:50 GRADIENT (2%)
- 9. DOORS THAT ENCROACH INTO WALKWAYS SHALL HAVE A MINIMUM 60"X60" LEVEL LANDING ARE WITH SLOPES NO LESS THAN 1:50 GRADIENT (2%) IN ANY DIRECTION/ LEVEL LANDING AREAS SHALL EXTEND A MINIMUM OF 24" BEYOND STRIKE EDGE OF DOOR. DOORS THAT SWING AWAY FROM WALK SHALL HAVE A LEVEL LANDING AREA A MINIMUM OF 48" WIDE X 44" DEEP WITH SLOPE LESS THAN 1:50 GRADIENT (2%) IN ANY DIRECTION.
- 10. ALL SIDEWALKS, WALKS, AND PEDESTRIAN WAYS SHALL BE AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.

APPLICABLE CODES

BUILDING CODES: PPLICABLE CODE AS OF JANUARY 1, 2014	CONSTRUCTION OF NEW AQUATIC BUILDING, MECHANICAL/POOL BUILDING AND POOL. CONSTRUCTION OF NEW HARDSCAPE PAVING, SITE WALLS, DECORATIVE SITE FENCING, AND METAL PANEL FENCING/GATES. PLANTING AND IRRIGATION.	ate Sued Aming in IIS ISSUE VISION NO.		
art 1 2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE				
art 2 2013 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2012 INTERNATIONAL BUILDING CODE OF THE		$\begin{array}{c} \hline 02/24/15 \\ \hline 02/24/15 \\ \hline 02/24/15 \\ \hline 02/24/15 \\ \hline \end{array}$	G-0.00 G-0.01 G-0.02	GENERAL COVER SHEET GENERAL PROJECT INFORMATION OVERALL SITE PLAN
INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA 2013 AMENDMENTS) art 3 2013 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R.				CIVII
(2011 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA AND 2013		02/24/15	C1.01	DEMOLITION PLAN
CALIFORNIA AMENDMENTS) art 4 2013 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R.		[02/24/15][]]]	C2.01	GRADING PLAN
(2012 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, JAPMO, AND, 2013, CALIFORNIA			C3.01	UTILITY PLAN
AMENDMENTS) art 5 2013 CALIFORNIA PLUMBING CODE TITLE 24 C.C.R.				LANDSCAPE
(2012 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND			L0.1	LANDSCAPE NOTES AND SCHEDULES
MECHANICAL OFFICIALS, IAPMO AND 2013 CALIFORNIA AMENDMENTS)			L1.1	MATERIALS PLAN SITE SECTIONS/FLEVATIONS PLAN
art 6 2013 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R. art 7 CURRENTLY VACANT			L7.1	LANDSCAPE PLANTING PLAN
art 8 2013 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R. art 9 2013 CALIFORNIA FIRE CODE TITLE 24 C.C.R				
(2012 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)			A2 00	ARCHITECTURAL
art 10 2013 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R.		02/24/15	A2.10 A3.00	CEILING & FINISH PLANS – POOL & MECHANICA EXTERIOR ELEVATIONS – POOL & MECHANICAL
(2012 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)		02/24/15	A3.10	BUILDING SECTIONS - POOL & MECHANICAL BU
(CALGREEN CODE), TITLE 24 C.C.R. art 12 2013 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24				
C.C.R.			S0.01	STRUCTURAL GENERAL NOTES
PARTIAL LIST OF APPLICABLE STANDARDS:			S0.11	TYPICAL FOUNDATION AND SLAB ON GRADE DET
013 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHA	PTER 35		S0.31 S2.01	TYPICAL CMU WALL SCHEDULES AND DETAILS FOUNDATION AND FRAMING PLANS
FPA 13 AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED) FPA 14 STANDPIPE SYSTEMS (CALIFORNIA AMENDED) FPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION 2013 EDITION 2013 EDITION			
FPA 17A WET CHEMICAL EXTINGUISHING SYSTEMS FPA 20 STATIONARY PUMPS	2013 EDITION 2013 EDITION		SP-1	AQUATIC DESIGN GROUP - POOL SWIMMING POOL LAYOUT PLAN
FPA 24PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)FPA 72NATIONAL FIRE ALARM AND SIGNALING CODE(CALIFORNIA AMEN	2013 EDITION DED) 2013 EDITION		5P-2 5P-5	DETAILS
(NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES") FPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES	2013 EDITION		SP-6 SP-7	DETAILS DETAILS DETAILS
FPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA AMEI	NDED) 2012 EDITION	02/24/15	SP-8 SP-9	DETAILS DETAILS
PROJECT DIRECTORY		02/24/15	SP-10	DETAILS
)WNER	DOOR AND GATE HARDWARE: (ALL REQUIREMENTS BELOW SHALL APPLY TO GATES AS WELL) DOORS AND DOORWAYS THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY		MR-1	MECHANICAL ROOM LAYOUT PLAN
CAGE HILL SCHOOL	 HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL COMPLY WITH CBC SECTION 11B-309.4 AND SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT CRASPING DINCHING OR TWISTING 		MR-3 MR-4	DETAILS DETAILS
lewport Beach, CA 92657 'H: xxx.xxx.xxxx	OF THE WRIST. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION OPERATING HARDWARE SHALL BE EXPOSED AND LISABLE		MR-5 MR-6 MR-7	DETAILS DETAILS DETAILS
CONTACT: ARCHITECT/STRUCTURAL ENGINEER/MECHANICAL ENGINEE	FORM BOTH SIDE. CBC SECTION 11B-404.2.7 • DOOR CLOSING SPEED SHALL BE AS FOLLOWS: CBC SECTION 11B-404.2.8		WIX-7	DETAILS
PLUMBING ENGINEER/ELECTRICAL ENGINEER/ ANDSCAPE ARCHITECT	A. CLOSER SHALL BE ADJUSTED SO THAT THE REQUIRED TIME TO MOVE A DOOR FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.			ELECTRICAL
.PA, INC. 5161 CALIFORNIA AVE. STE. 100	B. SPRING HINGES SHALL BE ADJUSTED SO THAT THE REQUIRED TIME TO MOVE A DOOR FROM AN OPEN POSITION OF 70 DEGREES TO THE CLOSED POSITION IS 1.5 SECONDS MINIMUM.		E0.10	SYMBOL LIST
IRVINE, CA 92617 PH: 949.261.1001 FAX: 949.260.1190 CONTACT: DAVE FAVES (ARCHITECT)	IHRESHOLDS SHALL COMPLY WITH CBC SECTION TTB-404.2.5. SIGNAGE AND GRAPHICS: PAISED CHARACTERS SHALL COMPLY WITH CBC SECTION 11P 703.2;		E1.00	POOL LIGHTING PLAN
CONTACT: DANIEL WANG (STRUCTURAL ENGINEER) CONTACT: JIM MONTROSS (ELECTRICAL ENGINEER)	DEPTH: IT SHALL BE 1/32 INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUND AND SHALL BE SANS SERIF UPPERCASE AND BE DUPLICATED IN BRAILLE. HEICHT: IT SHALL BE 5/8 INCH (15.9 MM) MINIMUM AND 2 INCHES (51 MM)			
CONTACT: KATHEREEN SHINKAI (CIVIL ENGINEER)	MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". CBC SECTION 11B-703.2.5 • FINISH AND CONTRAST: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A			
	NON-GLARE FINISH. CHARACTER SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. CBC SECTION 11B-703.5.1		I	1
	 PROPORTIONS: IT SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "0" IS 60 % MINIMUM AND 110 % MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER 			
	"I" SHALL BE 15 % MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC SECTIONS 11B-703.4 AND 11B-703.2.6 • BRAILLE: IT SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH CBC			
	SECTIONS 11B-703.3 AND 11B-703.4. BRAILLE DOTS SHALL HAVE A DOMED AND ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE AND FIGURE 11B-703.3.1. • MOUNTING HEIGHT: A TACTILE SIGN SHALL BE LOCATED 48" MINIMUM TO THE BASELINE OF THE LOWEST REALLE CELLS AND 60" MAXIMUM TO THE BASELINE OF			
	THE HIGHEST LINE OF RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE. • MOUNTING LOCATION: A TACTILE SIGN SHALL BE LOCATED ON THE APPROACH SIDE			
	AS ONE ENTERS OR EXITS ROOMS OR SPACE, AND BE REACHED WITHIN 0" OF THE REQUIRED CLEAR FLOOR SPACE PER CBC SECTION AND FIGURE 11B -703.4.2 AS FOLLOWS:			
	A. A CLEAR FLOOR SPACE OF 18' X 18" MINIMUM, CENTERED ON THE TACTILE CHARACTERS, SHALL BE PROVIDED BEYOND THE ARC OF ANY DOOR SWINGS BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.			
	B. ON THE WALL AT THE LATCH SIDE OF A SINGLE DOOR. C. ON THE INACTIVE LEAF OF A DOUBLE DOOR WITH ONE ACTIVE LEAF. D. ON THE WALL AT THE RIGHT SIDE OF A DOUBLE DOOR WITH TWO ACTIVE			
	LEAFS. E. ON THE NEAREST ADJACENT WALL WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR NO SPACE AT THE RIGHT SIDE OF A DOUBLE DOOR WITH			
	WU ACTIVE LEAFS. VISUAL CHARACTERS SHALL COMPLY WITH CBC SECTION 11B-703.5 AND SHALL BE 40" MINIMUM ABOVE FINISH FLOOR OR GROUND. DICTOCRAMS SHALL COMPLY WITH CBC SECTION 11B 703.6			
	SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH CBC SECTION 11B-703.7.			
	 WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL COMPLY WITH CBC SECTION 11B-604.8.1. TOE CLEARANCE FOR AT LEAST ONE SIDE PARTITION OF A WHEELCHAIR ACCESSIBLE 		V	ICINITY MAP
	COMPARTMENT SHALL COMPLY WITH CBC SECTION AND FIGURE 11B-604.8.1.4. IT SHALL BE 9" HIGH MINIMUM ABOVE THE FINISH FLOOR AND 6" DEEP MINIMUM BEYOND THE COMPARTMENT SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION		/	/
	SUPPORT MEMBERS. IT SHALL BE 12" HIGH MINIMUM ABOVE THE FINISH FLOOR FOR CHILDREN'S USE. PARTITION COMPONENTS AT TOE CLEARANCES SHALL BE SMOOTH WITHOUT SHARP EDGES OR ABRASIVE SURFACES. TOE CLEARANCE AT THE	55		
	DOOR AND DOOR HARDWARE FOR ACCESSIBLE COMPARTMENT GREATER THAN 66 WIDE. DOOR AND DOOR HARDWARE FOR ACCESSIBLE COMPARTMENTS SHALL BE SELF-CLOSING AND SHALL COMPLY WITH CBC SECTION 11B-404 EXCEPT FOR CLEARANCE BETWEEN THE DOOR SIDE OF THE AMBILITATORY ACCESSIBLE		ULVER	405
	COMPARTMENT AND ANY OBSTRUCTION SHALL BE 44" PER CBC FIGURE 11B-604.8.2. • A DOOR PULL COMPLYING WITH CBC SECTION 11B-404.2.7 SHALL BE PLACED ON	$\mathbf{\tilde{\lambda}}$		
	BOTH SIDES OF THE DOOR NEAR THE LATCH.	BONITA		PROJECT 5
	 FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, AT LEAST ONE SHALL BE AN ACCESSIBLE VAN PARKING SPACE. CBC SECTION 11B-208.2.4 MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES SHALL BE PROVIDED 	CANYON DR.	Ň	
	IN ACCORDANCE WITH CBC TABLE 11B-208.2 FOR EACH PARKING FACILITY PROVIDED.	AND TO.	JOST	
	DETECTABLE WARNING SURFACES: POSSIBLY • DETECTABLE WARNING SURFACES SHALL DIFFER FROM ADJOINING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT. CBC SECTION 11B-705.1.1.4.	CH.	ALC S	
	 PROVIDE MINIMUM 5 YEAR WARRANTY PER DSA BULLETIN 10/31/02, REVISED 04/09/08. 			
	 32 31 00 FENCES, GATES AND HARDWARE: GATES THAT ARE PART OF THE ACCESSIBLE ROUTE SHALL MEET ALL THE REQUIREMENTS OF AN ACCESSIBLE DOOR IN COMPLIANCE WITH CBC SECTION 		\	
	11B-404.			$\setminus $

BUILDING CODES: APPLICABLE CODE AS OF JANUARY 1, 2014	CONSTRUCTION OF NEW AQUATIC BUILDING, MECHANICAL/POOL BUILDING AND POOL. CONSTRUCTION OF NEW HARDSCAPE PAVING, SITE WALLS, DECORATIVE SITE FENCING, AND METAL PANEL FENCING/GATES. PLANTING AND IRRIGATION.	Date Ssued Drawing in Fils Issue Revision No.		
Part 1 2013 CALIFORNIA BUILDING STANDARDS ADMINIS CODE, TITLE 24 C.C.R. Part 2 2013 CALIFORNIA BUILDING CODE, TITLE 24 C (2012 INTERNATIONAL BUILDING CODE OF TH	itrative .C.R.		G-0.00 G-0.01	GENERAL COVER SHEET GENERAL PROJECT INFORMATION
INTERNATIONAL CODE COUNCIL, WITH CALIFOF AMENDMENTS) Part 3 2013 CALIFORNIA ELECTRICAL CODE, TITLE 24 (2011 NATIONAL ELECTRICAL CODE OF THE	RNIA 2013 C.C.R. NATIONAL		6-0.02	CIVIL
FIRE PROTECTION ASSOCIATION, NFPA AND 2 CALIFORNIA AMENDMENTS) Part 4 2013 CALIFORNIA MECHANICAL CODE, TITLE 24 (2012 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING A	013 C.C.R. ND		C1.01 C2.01 C3.01	DEMOLITION PLAN GRADING PLAN UTILITY PLAN
AMENDMENTS) Part 5 2013 CALIFORNIA PLUMBING CODE, TITLE 24 (2012 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING A MECHANICAL OFFICIALS, IAPMO AND 2013 CA	C.C.R. ND LIFORNIA		L0.1 L1.1	LANDSCAPE LANDSCAPE NOTES AND SCHEDULES MATERIALS PLAN
AMENDMENTS) Part 6 2013 CALIFORNIA ENERGY CODE, TITLE 24 C.(Part 7 CURRENTLY VACANT Part 8 2013 CALIFORNIA HISTORICAL BUILDING CODE, C.C.R. Part 9 2013 CALIFORNIA FIRE CODE TITLE 24 C.C.R.	C.R. FITLE 24		L4.1 L7.1	SITE SECTIONS/ELEVATIONS PLAN LANDSCAPE PLANTING PLAN
(2012 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL) Part 10 2013 CALIFORNIA EXISTING BUILDING CODE, TIT C.C.R. (2012 INTERNATIONAL EXISTING BUILDING CO	TLE 24 DE OF THE	$\begin{array}{c} \hline 02/24/15 \\ \hline \end{array}$	A2.00 A2.10 A3.00	ARCHITECTURAL FLOOR & ROOF PLANS - POOL & M CEILING & FINISH PLANS - POOL & EXTERIOR ELEVATIONS - POOL & ME BUILDING SECTIONS - POOL & MECH
Part 11 INTERNATIONAL CODE COUNCIL, WITH AMENDM 2013 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN CODE), TITLE 24 C.C.R. Part 12 2013 CALIFORNIA REFERENCE STANDARDS COD C.C.R.	MENTS) CODE E, TITLE 24		A3.10	STRUCTURAL
PARTIAL LIST OF APPLICABLE STANDARDS: 2013 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED	STANDARDS CHAPTER 35	02/24/15 02/24/15 02/24/15 02/24/15 02/24/15	S0.01 S0.11 S0.31 S2.01	GENERAL NOTES TYPICAL FOUNDATION AND SLAB ON TYPICAL CMU WALL SCHEDULES AND FOUNDATION AND FRAMING PLANS
NFPA 13AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA NFPA 14STANDPIPE SYSTEMS (CALIFORNIA AMENDED)NFPA 17DRY CHEMICAL EXTINGUISHING SYSTEMSNFPA 17AWET CHEMICAL EXTINGUISHING SYSTEMSNFPA 20STATIONARY PUMPSNFPA 24PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	AMENDED) 2013 EDITION 2013 EDITION 2013 EDITION 2013 EDITION 2013 EDITION 2013 EDITION 4ENDED) 2013 EDITION	C02/24/15)	SP-1 SP-2	AQUATIC DESIGN GROUP - SWIMMING POOL LAYOUT PLAN SWIMMING POOL SECTIONS
NFPA 72NATIONAL FIRE ALARM AND SIGNALING CODE((NOTE: SEE UL STANDARD 1971 FOR "VISUA FIRE DOOR AND OTHER OPENING PROTECTIVE OFFPA 253NFPA 253CRITICAL RADIANT FLUX OF FLOOR COVERING NFPA 2001NFPA 2001CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	CALIFORNIA AMENDED) 2013 EDITION L DEVICES") ES 2013 EDITION S SYSTEMS 2006 EDITION (CALIFORNIA AMENDED) 2012 EDITION	$ \begin{array}{c} (02/24/15) \\ (02/24/15)$	SP-5 SP-6 SP-7 SP-8	DETAILS DETAILS DETAILS DETAILS
PROJECT DIRECTORY	ADD'L ACCESSIBILITY NOTES DOOR AND GATE HARDWARE: (ALL REQUIREMENTS BELOW SHALL APPLY TO GATES AS WELL)		SP-9 SP-10 MR-1	DETAILS DETAILS MECHANICAL ROOM LAYOUT PLAN
OWNER SAGE HILL SCHOOL 20402 Newport Coast Drive Newport Beach, CA 92657 PH: xxx.xxx.xxxx CONTACT: ——	 DOORS AND DOORWAYS THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH CBC SECTIONS 11B-404. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL COMPLY WITH CBC SECTION 11B-309.4 AND SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FORM BOTH SIDE 	02/24/15 02/24/15 02/24/15 02/24/15 02/24/15 02/24/15	MR-3 MR-4 MR-5 MR-6 MR-7	DETAILS DETAILS DETAILS DETAILS DETAILS
ARCHITECT/STRUCTURAL ENGINEER/MECHANI PLUMBING ENGINEER/ELECTRICAL ENGINEER/ LANDSCAPE ARCHITECT LPA, INC.	CALENGINEER CBC SECTION 11B-404.2.7 • DOOR CLOSING SPEED SHALL BE AS FOLLOWS: CBC SECTION 11B-404.2.8 A. CLOSER SHALL BE ADJUSTED SO THAT THE REQUIRED TIME TO MOVE A DOOR FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. B. SPRING HINGES SHALL BE ADJUSTED SO THAT THE REQUIRED TIME TO MOVE A DOOR FROM AN OPEN POSITION OF 70 DEGREES TO THE CLOSED POSITION OF 15 OF 15	[02/24/15] [[]]	E0.10	ELECTRICAL SYMBOL LIST
5161 CALIFORNIA AVE. STE. 100IRVINE, CA 92617PH: 949.261.1001CONTACT: DAVE EAVESCONTACT: DANIEL WANGCONTACT: JIM MONTROSSCONTACT: JIM MONTROSSCONTACT: DAVIE DIPE	 IS 1.5 SECONDS MINIMUM. THRESHOLDS SHALL COMPLY WITH CBC SECTION 11B-404.2.5. SIGNAGE AND GRAPHICS: RAISED CHARACTERS SHALL COMPLY WITH CBC SECTION 11B-703.2: NEER) DEPTH: IT SHALL BE 1/32 INCH (0.8 MM) MINIMUM ABOVE THEIR BACKGROUND AND SHALL BE SANS SERIF UPPERCASE AND BE DUPLICATED IN BRAILLE. HEICHT: IT SHALL PE 5 (8 INCH (15.0 MM) MINIMUM AND 2 INCHES (51.0 MM) 		E0.20 E1.00	SINGLE LINE, LOAD SCHEDULE & FEI POOL LIGHTING PLAN
CONTACT: TRAVIS RICE (LANDSCAPE ARCH CONTACT: KATHEREEN SHINKAI (CIVIL ENGINEER)	 HEGHT: IT SHALL BE 5/8 INCH (15.9 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER 'T'. CBC SECTION 11B-703.2.5 FINISH AND CONTRAST: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS ON A DARK BACKGROUND N SHALL HAVE A NON-GLARE FINISH. CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. CBC SECTION 11B-703.5.1 PROPORTIONS: IT SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER '0' IS 60 % MINIMUM AND 110 % MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER 'T'. STROKE THICKNESS OF THE UPPERCASE LETTER 'T' SHALL BE 15 % MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC SECTIONS 11B-703.4 AND 11B-703.2.6 BRAILLE: IT SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH CBC SECTIONS 11B-703.3 AND 11B-703.4. BRAILLE DOTS SHALL HAVE A DOMED AND ROUNDED SHAPE AND SHALL COMPLY WITH CBC SECTIONS 11B-703.3.1. MOUNTING HEIGHT: A TACTILE SIGN SHALL BE LOCATED 48' MINIMUM TO THE BASELINE OF THE LOWEST BRAILLE CLLS AND 60' MAXIMUM TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE. MOUNTING LOCATION: A TACTILE SIGN SHALL BE LOCATED ON THE APPROACH SIDE, AS ONE ENTERS OR EXITS ROOMS OR SPACE, AND BE REACHED WITHIN 0' OF THE REQUIRED CLEAR FLOOR SPACE PER CBC SECTION AND 45 DEGREE OPEN POSITION. B. ON THE WALL AT THE LATCH SIDE OF A SINGLE DOOR. A. A CLEAR FLOOR SPACE OF 18' X 18' MINIMUM, CENTERED ON THE TACTILE CHARACTERS, SHALL BE PROVIDED BEYOND THE ARC OF ANY DOOR SWINKS BETWEEN THE LCOSED POSITION AND 45 DEGREE OPEN POSITION. B. ON THE WALL AT THE LATCH SIDE OF A DOUBLE DOOR WITH TWO ACTIVE LEAFS. E. ON THE WALL AT THE RIGHT SIDE OF A DOUBLE DOOR WITH TWO ACTIVE LEAFS. 			
	LATCH SIDE OF A SINGLE DOOR OR NO SPACE AT THE RIGHT SIDE OF A DOUBLE DOOR WITH TWO ACTIVE LEAFS. VISUAL CHARACTERS SHALL COMPLY WITH CBC SECTION 11B-703.5 AND SHALL BE 40" MINIMUM ABOVE FINISH FLOOR OR GROUND. PICTOGRAMS SHALL COMPLY WITH CBC SECTION 11B-703.6. SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH CBC SECTION 11B-703.7.			
	 WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL COMPLY WITH CBC SECTION 11B-604.8.1. TOE CLEARANCE FOR AT LEAST ONE SIDE PARTITION OF A WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL COMPLY WITH CBC SECTION AND FIGURE 11B-604.8.1.4. IT SHALL BE 9" HIGH MINIMUM ABOVE THE FINISH FLOOR AND 6" DEEP MINIMUM BEYOND THE COMPARTMENT SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. IT SHALL BE 12" HIGH MINIMUM ABOVE THE FINISH FLOOR FOR CHILDREN'S USE. PARTITION COMPONENTS AT TOE CLEARANCES SHALL BE SMOOTH WITHOUT SHARP EDGES OR ABRASIVE SURFACES. TOE CLEARANCE AT THE SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 66" WIDE. DOOR AND DOOR HARDWARE FOR ACCESSIBLE COMPARTMENTS SHALL BE SELF-CLOSING AND SHALL COMPLY WITH CBC SECTION 11B-404 EXCEPT FOR CLEARANCE BETWEEN THE DOOR SIDE OF THE AMBULATORY ACCESSIBLE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 44" PER CBC FIGURE 11B-604.8.2. A DOOR PULL COMPLYING WITH CBC SECTION 11B-404.2.7 SHALL BE PLACED ON 	55	CULVER	
	BOTH SIDES OF THE DOOR NEAR THE LATCH. EXTERIOR IMPROVEMENTS • FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, AT LEAST ONE SHALL BE AN ACCESSIBLE VAN PARKING SPACE. CBC SECTION 11B-208.2.4 • MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN ACCORDANCE WITH CBC TABLE 11B-208.2 FOR EACH PARKING FACILITY PROVIDED.	BONITA BONITA CANYON DR. USCO		PROJECT SITE (133)
	 DETECTABLE WARNING SURFACES: POSSIBLY DETECTABLE WARNING SURFACES SHALL DIFFER FROM ADJOINING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT. CBC SECTION 11B-705.1.1.4. PROVIDE MINIMUM 5 YEAR WARRANTY PER DSA BULLETIN 10/31/02, REVISED 04/09/08. 	ech.	A CONTRACTOR	73
	 32 31 00 FENCES, GATES AND HARDWARE: GATES THAT ARE PART OF THE ACCESSIBLE ROUTE SHALL MEET ALL THE REQUIREMENTS OF AN ACCESSIBLE DOOR IN COMPLIANCE WITH CBC SECTION 			

PA, INC.
5161 CALIFORNIA AVE. STE. 100
IRVINE, CA 92617
PH: 949.261.1001
CONTACT: DAVE EAVES
CONTACT: DANIEL WANG
CONTACT: JIM MONTROSS
CONTACT: TRAVIS RICE
CONTACT: KATHEREEN SHINKAI

SCOPE OF WORK



ECHANICAL BUILDING HANICAL BUILDING

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GRADE DETAILS DETAILS

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PLANTING NOTES

ABBREVIATIONS

&		HDR HT.	HEADER HEIGHT
© ©	ANGLE AT	LT.	LIGHT
Ψ φ # ADJ. AGGR. AL. APPROX.	CENTERLINE DIAMETER OR ROUND POUND OR NUMBER ADJACENT AGGREGATE ALUMINUM APPROXIMATE	MAX. MET. MFR. MIN. MTD. MTL.	MAXIMUM METAL MANUFACTURER MINIMUM MOUNTED MATERIAL
ARCH. A.C. ACC.	ARCHITECTURAL ASPHALT ACCESSIBLE	N.I.C. N.T.S.	NOT IN CONTRACT NOT TO SCALE
B.C.R.	BEGINNING OF CURVE RADIUS	0.C. 0.D.	ON CENTER OUTSIDE DIAMETER(DIM.)
B.O.C. B.O.W. B.O.S. BLDG. BLK. C.E. C.I.P.	BACK OF CORB BOTTOM OF WALL BOTTOM OF SLOPE BUILDING BLOCK CIVIL ENGINEER CAST IN PLACE	PA PED PRCST. P.I.P. P.O.T. P.T.D.F.	PLANTING AREA PEDESTRIAN PRECAST POURED IN PLACE POINT OF TANGENCY PRESSURE TREATED DOUGLAS FIR
CLKG. CMU. CONC. CONSTR. CONT.	CAULKING CONCRETE MASONRY UNIT CONCRETE CONSTRUCTION CONTINUOUS	QTY R. RAD.	QUANTITY RISER RADIUS
CTR. D.A. DET. DIA. DIM. DN. DWGS	CENTER DISABLED ACCESS DETAIL DIAMETER DIMENSION DOWN DRAWINGS	REINF. REQ. SCHED. SHT. SPEC. S.S. STD. STRI	REINFORCED REQUIRED SCHEDULE SHEET SPECIFICATION STAINLESS STEEL STANDARD STRUCTURAL
E.J. EL. ELEC. EQ. EXP. EXT.	EXPANSION JOINT ELEVATION ELECTRICAL EQUAL EXPANSION EXTERIOR	T. T.C. T.O.S. T.O.W. TYP. TBS	TREAD TOP OF CURB TOP OF SLOPE TOP OF WALL TYPICAL TO BE SELECTED
F.G. F.S. F.O.W.	FINISH GRADE FINISH SURFACE FACE OF WALL	VEH VERT.	VEHICULAR VERTICAL
F.O.B. F.O.C. GA. GALV. GND. GR.	FACE OF BUILDING FACE OF CURB GAUGE GALVANIZED GROUND GRADE	W/ W/O WD	WITH WITHOUT WIDE

REFER TO CIVIL ENGINEER'S UTILITY AND GRADING PLA
LOCATIONS, TREE SUBDRAINAGE STUBOUTS (IF REQUIRE
GRADING. IF ACTUAL SITE CONDITIONS VARY FROM WHA
LANDSCAPE ARCHITECT'S PLANS, THE CONTRACTOR SHA
OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT
TO HOW TO PROCEED.

- 1. THE CONTRACTOR SHALL LAYOUT AND FIELD VERIFY ALL DIMENSIONS OF ED), AND FINAL DRIVEWAY, PLANTERS, WALKS, SLOPES, AND RELATED WORK PRIOR TO HAT IS SHOWN ON THE CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION IALL CONTACT THE OF THE OWNERS AUTHORIZED REP. FOR DIRECTION AS 2. VERIFY LOCATIONS OF ALL SITE IMPROVEMENTS INSTALLED AS PART OF OTHER PLANS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE OWNERS AUTHORIZED REP. FOR INSTRUCTION PRIOR TO BEGINNING WORK. PART OTHER PLANS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE LANDSCAPE ARCHITECT FOR 3. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALING. INSTRUCTION PRIOR TO COMMENCING WORK. 4. THIS DRAWING INCLUDES THE LOCATION OF AREA DRAINS FOR REFERENCE. REFER TO RELATED CIVIL ENGINEERING DRAWINGS FOR CONSTRUCTION LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION. LANDSCAPE DETAILS AND UTILITY CONNECTIONS. ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION 5. REFER TO ELECTRICAL ENGINEER'S DRAWINGS FOR LIGHT FIXTURE SCHEDULE IN FIELD. AND CIRCUITRY AS NECESSARY. 6. REFER TO EARTHWORKS NOTES ON CO.01 AND SOIL ENGINEER'S AND SQUARE FOOTAGES. QUANTITIES SHOWN ON PLANS TAKE PRECEDENCE GEOTECHNICAL REPORT FOR SUB-BASE MATERIALS AND COMPACTION. OVER WRITTEN QUANTITIES IN "PLANTING LEGEND." 7. WHERE DIMENSIONS ARE CALLED AS "EQUAL", ALL REFERENCED ITEMS SHALL BE SPACED EQUALLY, MEASURED TO THEIR CENTERLINES. EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS. 8. ALL MEASUREMENTS ARE TO FACE OF WALL, CURB OR OTHER FIXED SITE IMPROVEMENT, UNLESS OTHERWISE NOTED. DIMENSIONS TO CENTERLINES AS AS DESIGNATED PER THESE NOTES AND DRAWINGS. INDICATED. 9. INSTALL ALL INTERSECTING ELEMENTS AT 90 DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED. OR PAVEMENT. FINISH GRADES OF ALL SHRUB AREAS SHALL BE (1-1/2")BELOW ADJACENT CURB, PAVEMENT, OR HEADER. 10. ALL DRAINS / BASINS SHOULD HAVE ATRIUM TYPE GRATES WITHIN SHRUBS/ GROUNDCOVER AREAS AND FLAT TYPE GRATES IN TURF AREAS.
- 1 REFER TO CIVIL ENGINEER'S UTILITY AND GRADING PLANS FOR UTILITY 2. VERIFY LOCATIONS OF ALL PERTINENT SITE IMPROVEMENTS INSTALLED AS 3. EXACT LOCATIONS OF PLANT MATERIALS SHALL BE REVIEWED BY THE 4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS 5. PROVIDE MATCHING FORMS AND SIZES FOR ALL PLANT MATERIALS WITHIN 6. ALL SHRUBS TO BE ALIGNED AND EQUALLY SPACED, IN ALL DIRECTIONS, 7. FINISH GRADES OF ALL TURF AREAS SHALL BE (1") BELOW ADJACENT CURB 8. CONTRACTOR SHALL SUBMIT FOR APPROVAL AREPRESENTATIVE PHOTO OF ALL

- SHRUBS, GROUNDCOVER AND VINES. TREE PHOTOS SHOULD INCLUDE A PERSON FOR SCALE PURPOSES. ALL PLANT MATERIAL SHALL BE OF A QUALITY AS DETERMINED BY THE LANDSCAPE ARCHITECT. MATERIAL FOUND UNSUITABLE FOR THE DESIGN OR SPECIFICATION INTENT WILL BE REJECTED.
- 9. PROVIDE 6" CONCRETE MOW CURB AS DIVIDER BETWEEN ALL TURF AND SHRUB/GROUNDCOVER AREAS IN ADDITION TO AREAS INDICATED ON THE DRAWINGS.
- 10. PROVIDE A (2") LAYER OF WOOD MULCH AT TREE AND SHRUB PLANTING AREAS.
- 11. INSTALL JUTE MESH ON ALL SLOPES (3:1) OR GREATER. SEE SPECIFICATIONS FOR INSTALLATION METHOD AND ADDITIONAL INFORMATION.
- 12. CONTRACTOR SHALL CONDUCT AGRICULTURAL SUITABILITY AND FERTILITY SOILS TESTING PER SOIL PREPARATION SPECIFICATION. ANALYSIS SHALL INCLUDE RECOMMENDATIONS FOR SOIL PREPARATION AND BACKFILL MIX AS WELL AS RECOMMENDATIONS FOR POST MAINTENANCE FERTILIZATION. SUBMIT SOILS ANALYSES AND SAMPLES OF AMENDMENTS TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO SOIL PREPARATION.
- 13. PROVIDE ROOT BARRIERS IN ADDITION TO THOSE INDICATED ON THE PLANS FOR ALL TREES WITHIN 5' OF ANY HARDSCAPE.
- 14. LANDSCAPE MAINTENANCE PERIOD IS 90 DAYS.

LAYOUT AND MATERIALS NOTES

LANDSCAPE GRADING AND DRAINAGE NOTES

- REFER TO CIVIL ENGINEER'S GRADING PLANS FOR SITE GRADING, DRAINAGE, AND UTILITY LOCATIONS. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT FOR DIRECTION AS TO HOW TO PROCEED.
- 2. REFER TO CIVIL ENGINEER'S DRAWINGS FOR SUBDRAINAGE POINT OF CONNECTION TO STORM DRAIN.
- 3. THE CONTRACTOR SHALL REQUEST OBSERVATION AS REQUIRED 48 HOURS ADVANCE OF PERFORMING WORK.
- 4. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA 800/422-5133) 48 HOURS PRIOR TO ANY EXCAVATION.
- 5. FIELD VERIFY EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION AND ELEVATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
- 6. NO CHANGE IN CONTRACT PRICE WILL BE ALLOWED FOR ACTUAL OR CLAIMED DISCREPANCY BETWEEN EXISTING GRADE AND THOSE SHOWN ON PLANS AFTER CONTRACTOR HAS ACCEPTED EXISTING GRADES AND MOVED ONTO THE SITE.
- 7. ALL PROPOSED GRADES ARE TO MEET AND BLEND IN WITH EXISTING GRADING AT PROJECT LIMIT AND EXISTING SIDEWALK. PRECISE ELEVATIONS INDICATED ON PLANS TO BE VERIFIED IN FIELD TO AS-BUILT CONDITION.
- 8. THE DEBRIS CREATED BY LANDSCAPE GRADING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF-SITE.
- 9. FINAL LANDSCAPE GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION OF PLANTING.

1. BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LIN EASEMENTS, BUILDINGS, ROADS AND CURBS HAVE BEEN TAKEN CIVIL ENGINEER'S DRAWINGS. REFER TO CIVIL ENGINEERING DR ADDITIONAL INFORMATION.

GENERAL NOTES

- 2. REFER TO THE CIVIL ENGINEER'S DRAWINGS FOR UTILITY INFORM INCLUDING STORM DRAIN, SEWER, WATER, ELECTRICAL, GAS, TEL CABLE TV.
- 3. REFER TO CITY AND/OR COUNTY STANDARD PLANS AND SPECIFI WHERE APPLICABLE.
- 4. VERIFY SITE INFORMATION, INCLUDING PROPERTY LINES, TOP AN OF SLOPES, ROADWAY CURB AND GUTTERS, UTILITIES AND OTHER AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRE AND THE LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PI
- 5. EXCAVATION IN THE VICINITY OF UTILITIES AND EXISTING MATERIA BE UNDERTAKEN WITH CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. ANY DAMAGE CAUSED BY AN' VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF CONTRACT SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE OWNER.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION ACCOMPLISH ALL CONSTRUCTION OPERATIONS. ALL PIPING, CONDU ETC., SHALL BE SET IN PLACE PRIOR TO INSTALLATION OF CON ITEMS.
- 7. CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH SITE SUP APPROPRIATE AGENCIES AND PLANS, FOR THE LOCATIONS OF AL GROUND UTILITIES. PIPES AND STRUCTURES. CONTRACTOR SHALL RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF S
- 8. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCT DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, DISCREPANCIES AND/OR GRADE DIFFERENCES EXIST THAT MAY BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMM BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REF THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
- 9. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXIST MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
- 10. PRIOR TO INSTALLATION OF ANY CONSTRUCTION ITEM, FORMS N PLACE AND COMPACTED SUBGRADE COMPLETE, SHALL BE OBSEI REVIEWED BY THE LANDSCAPE ARCHITECT.
- 11. ALL WALLS AND WALKS SHOULD HAVE SMOOTH, CONTINUOUS C INDICATED ON PLANS.
- 12. ALL PROPERTY LINES, LOT LINES, AND TOP OF SLOPE LINES SH VERIFIED PRIOR TO COMMENCING WORK.
- 13. ALL ELECTRICAL JUNCTION BOXES FOR LIGHTS SHALL BE IN PL AREAS AND LOCATION REVIEWED BY THE LANDSCAPE ARCHITECT. LOCATION PRIOR TO INSTALLATION.
- 14. SEE CIVIL ENGINEER'S DRAWINGS FOR CURBS AND A/C PAVING. 15. REFER TO GRADING PLANS FOR ELEVATIONS AND LOCATION OF
- STRUCTURES PRIOR TO INSTALLATION OF WALKS, FOOTINGS, AND STRUCTURES. 16. RAISE ALL VAULTS & UTILITY BOXES TO GRADE WITHIN LIMIT OF
- FIELD VERIFY PRIOR TO BID. 17. REFER TO GEOTECHNICAL REPORTS FOR ADDITIONAL INFORMATION ON THE PLANS DIFFER FROM THE GEOTECHNICAL REPORT, PROV

MOST STRINGENT REQUIREMENT.

SCOPE OF WORK

CONSTRUCTION OF NEW AQUATIC BUILDING, MECHANICAL/POOL BUILDING AND POOL. CONSTRUCTION OF NEW HARDSCAPE PAVING, SITE WALLS, DECORATIVE SITE FENCING, AND METAL PANEL FENCING/GATES. PLANTING AND IRRIGATION.

SHEET INDEX

NES, FROM THF	L0.1	LANDSCAPE NOTES AND SCHEDULES	KEY	DESCRIPTION	DET/	
RAWINGS FOR	L1.1	LANDSCAPE MATERIALS PLAN			511	INTEGRAL COLOR,
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SITE LIGHTING LEGEND

KEYNOTES

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NOTE: SEE ELECTRICAL PLANS FOR FIXTURES, LAMPS, AND SPECS.

B. SEE SHEET LO.1 FOR ADDITIONAL LEGENDS AND SYMBOLS.

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- -	METAL PANEL – DOUBLE GATE W/ PANIC HARDWARE	CUSTOM COLOR/ HIGH PERFORMANCE PAINT		
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LANDSCAPE MATERIALS PLAN 01

KEYNOTES

KEY		DET/	
	DESCRIPTION	201	
	CONCRETE PAVING – TYPE 1		LT SANDBLAST FINISH
02	CONCRETE PAVING – TYPE 2		INTEGRAL COLOR/ HEAVY SANDBLAST FIN
03	CONCRETE PAVING – TYPE 3 – POOL		NATURAL GRAY/ MED SANDBLAST FINIS
04	CONCRETE FREESTANDING WALL		NATURAL GRAY/ LT SANDBLAST FINISH
05	CONCRETE RETAINING WALL		NATURAL GRAY/ LT SANDBLAST FINISH
06	CONC. TERRACED SEATING WITH WOOD PL	ANKS	CONCRETE – IPE WOO LT SANDBLAST FINISH
07	NOT USED		
08	CONCRETE STAIRS		
09	HANDRAIL AT STAIRS		STAINLESS STEEL
10	GUARDRAIL		STAINLESS STEEL
11	GLASS PANEL INFILL BETWEEN COLUMNS		
12	BLACK VINYL COATED CHAINLINK FENCING		6'-0" HT. ABOVE CON CONCRETE RETAINING
13	METAL PANEL FENCE		CUSTOM COLOR/ HIGH PERFORMANCE F
14	METAL PANEL – DOUBLE GATE W/ PANIC	HARDWARE	CUSTOM COLOR/ HIGH PERFORMANCE F
15	METAL PANEL – SINGLE GATE W/ PANIC	HARDWARE	CUSTOM COLOR/ HIGH PERFORMANCE F
16	SCOREBOARD		
17	POOLSIDE SHOWERS		STAINLESS STEEL
18	POOL		SEE AQUATIC DESIGN PLANS
_			

REFERENCE KEYNOTES

KEY NOTE	DESCRIPTION	DET REF	COMMENT	
A	EXISTING AC PAVING		PROTECT IN PLACE	
В	EXISTING BUILDING / ENCLOSURE		PROTECT IN PLACE	
С	EXISTING WALL		PROTECT IN PLACE	
D	EXISTING PAVING		PROTECT IN PLACE	
F	EXISTING RAMP/STAIRS		PROTECT IN PLACE	
G	EXISTING CURB/GUTTER		PROTECT IN PLACE	
Η	EXISTING MOW CURB		PROTECT IN PLACE	
J	EXISTING CANOPY		PROTECT IN PLACE	
К	ARCHITECTUAL BUILDING/COLUMN		PER ARCH	
L	ARCHITECTUAL OVERHANG / TRELLIS		PER ARCH	
Μ	CURB AND GUTTER		PER CIVIL	
Ν	CONCRETE CURB		PER CIVIL	
0	AC PAVING		PER CIVIL	
Ρ	STORM DRAIN		PER CIVIL	
NOTES: A. THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE IRRIGATION, GRADING AND PLANTING ON SAGE HILL CAMPUS & ALL ADJACENT PROPERTIES. ANY DAMAGE TO OR ADJUSTMENTS REQUIRED INCLUDING REPLACING OR RELOCATING IRRIGATION LINES, HEADS, VALVES, OR ANY UTILITY THAT OCCURS ON ADJACENT PARCELS AND IN THE RIGHT OF WAY DUE TO THE GRADING AND CONSTRUCTION OF THIS PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED AT NO				

ADDITIONAL COST TO THE OWNER. THE OWNER'S REP. MUST REVIEW ANY REQUIRED MODIFICATIONS TO THESE AREAS PRIOR TO COMMENCING WORK. THE CONTRACTOR MUST NOTIFY THE OWNER'S AUTHORIZED REP. OF THESE CONDITIONS OR ANY DISCREPANCIES PRIOR TO COMMENCING WORK. TYP. ENTIRE SITE. ALL IMPROVEMENT/REPAIRS WITHIN RIGHT OF WAY AREA MUST MEET THE CITIES STANDARDS.

B. SEE SHEET LO.1 FOR ADDITIONAL LEGENDS AND SYMBOLS.

SITE LIGHTING LEGEND

SYM.	DESCRIPTION	DET/ REF	COMMENTS
	PEDESTRIAN BOLLARD LIGHT		COLOR: MATCH EXISTI
Þ	SPORTS LIGHTING		SEE SPORTS LIGHTING PLANS

NOTE: SEE ELECTRICAL PLANS FOR FIXTURES, LAMPS, AND SPECS.

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Sage Hill Aquatic Complex	20402 Newport Coast Drive Newport Beach, CA 92657	Developed for Sage Hill School
This and all other project documents and all ideas, aesthetics and designs incorporated therein are instruments of service. All project documents are the registered property of LPA, INC. (LPA) and cannot be lawfully used in whole or in part for any project or purpose except as described in the contractual agreement between	LPA and Client. LPA hereby gives formal notice that any such project document use, reproduction or modification (misuse) is not only unlawful but automatically binds all prities involved with misuse to fully indemnify and defend LPA and LPA's Consultants to the maximum legal extent against all losses, demands, claims or liabilities arising directly or indirectly from project document misuse.	Project documents describe design intent of work and are not a representation of as-built or existing conditions. LPA and LPA's Consultants make no representations concerning the accuracy of documents and are not responsible for any discrepancies between project documents and the existing conditions.
Revision Date		
Date 02/24/2015		
Submittal Schematic Design		
Job. No. Date Checked by Scale	ANDSC MATERI PLAN	14248.10 02/24/2015 1" = 20' CAPE ALS N

TRE	E LIST	(NCN.)– NO COMMON NAME	(*)– UNLESS NOTE
REF.	QTY.	SYM.	DESCRIPTION	SIZE/ SPACING
T1	4		SPECIMEN TREE TBD	36" BOX PER PLAN
T2		+	EXISTING TREE TO REMA	AIN; PROTECT IN PLACE
SHF	RUB/VI	INE LIST		
S1	AS REQ'D 25% 1 60% 5	SHRUBS	5	
	15% 1 AVERAG	IS GALLON E SPACING IS (30"O.C.	
	NOTE: ALL PLA IRRIGATI	ANTING TO REC ON SYSTEM WIT	IEVE 100% HEAD TO HEAD CON TH NEW CONTROLLER.	VERAGE OF FULLY AUTOMAT
MIS	CELLA	NEOUS SYI	WBOLS	
	• ROOT E PROVID	BARRIER E AT ALL TREI	ES	

LANDSCAPE PLANTING PLAN 01

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01 INTEGRAL COLOR EXTERIOR CEMENT PLASTER, PAINTED 02 WESTERN YELLOW CEDAR WOOD CANOPY 03 1/4" CONTROL JOINT

A2.10

01 INTEGRAL COLOR EXTERIOR CEMENT PLASTER, PAINTED

02 1" INSULATED GLAZING IN ALUMINUM FRAME

KEYNOTES

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A .	GENERAL	C.	QUALITY ASSURANCE (ST - CONTINUED
1.	edition as adopted by Applicable Code. References to ICC-ES Evaluation Reports for proprietary materials herein shall be latest edition as adopted by Governing Code Authority.	5.	Continuous Special Inspection Special Inspector complying
	a.Design Wind Speed:85 mph, Exposure C, Importance Factor = 1.15b.Seismic Importance Factor I:1.25c.Spectral Acceleration (Ss, S1):1.65, 0.6 (respectively)		indicated below or otherwise Inspection requirements.
	d. Spectral Response Coefficient (S DS, SD1): 1.16, 0.78 (respectively) e. System Coefficient R: 5.0 f. Site Coefficient (Fa, Fv): 0.9, 2.4 (respectively)		Portions of Work Requiring C a. Soils Related Work to b Grading, excavations, b
	g. Site Class: D h. Occupancy Category: Class III i. Seismic Design Category: D		 Footing excavations price Caisson drilling operation Beinforcing Steel:
	j. Design Base Shear 160.7 ^k k. Seismic Response Coefficient Cs: 0.29 L. Basic Seismic Force Resisting System: Special Reinforced CMU Shear Wall		 i. Verification of mill test re ii. Placement of reinforcing
	m. Analysis Procedure: Static		c. Concrete: i. Verification of mix desig
2. 3.	Field Verification: Field verify existing conditions and dimensions prior to construction. Promptly notify Architect		ii. Concrete placement andiii. Placement of non-shrinkd. Masonry:
4.	(Structural Engineer) in case of discrepancies. Design Intent: Contract Documents indicate design intent for structure in its completed state. They do not indicate		i. Placement of masonry uii. Masonry prism testing for e. Anchors:
	method of construction. Promptly notify Architect (Structural Engineer), prior to proceeding with Work, if design intent requires further clarification.		i. Anchor bolts and other ofii. Proprietary anchoragesf. Structural Steel:
5.	Deviations, Modifications and Substitutions to Approved Structural Drawings: Must be accepted in writing by Architect (Structural Engineer) and approved by Governing Code Authority. No deviation, modification or substitution will be accepted via shop drawing review.		 Verification of mill test re Sampling and testing of Welding:
6.	Procedures of Construction: Contractor is responsible for procedures of construction complying with national, state and local safety ordinances. Site visits (including Structural Observation) by Architect (Structural Engineer) do not		 Shop fabrication and we Field welding of structur Eield welding of metal d
	 constitute supervision of methods of construction. a. Protection of Utilities: Locate existing utilities, including those not shown on Contract Documents, and protect them from damage. Contractor bears expense of repair or replacement of utilities in conjunction with execution 		 h. Bolts: i. Slip critical high strength
	of Work. b. Excavations: Protect structure, adjacent structures, adjacent properties, streets, and utilities during excavation utilizing lagging shoring underginging and related procedures as may be required. Provide necessary		 i. Sprayed-on Fireproofing i. Thickness, density and
	supports for soil at sides of excavations. Contractor and affected trades shall refer to Geotechnical Report for more information.	6.	Testing and Inspection of me
	 d. Contractor Proposed Revisions: Where a revision of structural design or connection is proposed by Contractor to accommodate construction tolerances, construction sequence and/or dimension modifications, Contractor aball rates a structural engineer licenced in State of California to perform design. Submit stamped and signed 	D.	EARTHWORK and FOUND
	design drawings and calculations to the Architect (Structural Engineer) for review and the Governing Code Authority for approval.	1.	Geotechnical Report: Perfor no. 1822A27, prepared by M
	 e. Erection Plans: Determine phases of Work requiring erection plans according to applicable safety regulations. Maintain certified copies of erection plans at site during construction. f. Shoring, Bracing, and Other Temporary Supports: Design and erect shoring, bracing, and other temporary 		January 28, 2011; log no. 11 log no. 11-716, May 06, 2011
	supports where structure has not attained design strength and as required for safe erection. Ensure floor, roof, and wall members are securely shored and braced during construction. Provide shoring at elevated beams and slabs supporting concrete or masonry walls during and after wall pour until wall attains design strength.	2.	Allowable Foundation Design loading. a. Bearing Capacity: 2000
	 g. Temporary Loading: Ensure construction loads do not exceed indicated design live load values. Notify affected sub-contractor trades of these design load limits. h. Fabrication, Shipment, and Erection of Structural Steel: Ensure stresses occurring during fabrication, 		1605A.3.2 load combinab. Passive Lateral Bearingc. Coefficient of Friction: 0
	shipment, and erection of structural steel are temporary and are less than design and allowable stress capacities of individual members. Do not impair full design and load carrying capacity of members due to fabrication, shipment, or erection. Contractor is responsible for controlling erection sequence, erection	3.	Grading, Excavations, Backfi Governing Code Authority ar
	procedure, temperature differentials and weld shrinkage to minimize residue stresses. Provide additional materials for the erection of structural steel such as temporary bracing and guy cables as may be necessary at no additional cost. Remove these materials unless approved in writing by Owner. Do not tighten bolts in	4.	Preparation of Soil Under Fo
	 typical beam to column connections for erection purposes. Securing Reinforcing Steel, Dowels, Anchor Bolts and Embeds: Firmly support and accurately place complying with ACI standards prior to casting concrete or grout in masonry walls. Use ties and support bars in addition to 		unsuitably loose soil end fill) below existing grade
	reinforcing steel shown where necessary. No welding of reinforcing steel, including tack welding, is permitted unless otherwise accepted in writing by Architect (Structural Engineer). Provide plastic or plastic coated chairs and spacers when resting on exposed surfaces.		 b. Scarification: Following a depth of at least 6 incl
7.	Coordination Responsibility: Contractor is responsible for coordination of Work including that of sub-contractor		 c. Approved Compacted F may be used for compare
8.	Submittals: Submit to Architect (Structural Engineer) as indicated on structural drawings and specifications.		determined by geotechr as determined by ASTM
	submission. a. Request for Information (RFI) Submittals: Accompany RFI's with partial structural foundation or framing plans	5.	Foundation Excavations: Fo Excavations are to be inspec Ensure excavations are clear
	showing location in question and affected structural members. Copy partial plan from structural drawings and indicate grid line locations and floor level. Also provide properly drawn engineering sketches illustrating issues and Contractor's proposed solutions. Photographs are not acceptable substitutes to engineering sketches.	6.	slope indicated in Geotechnie Backfilling of Retaining Walls
	b. Composite Slab Penetration Submittal: Submit to Architect (Structural Engineer) for each floor indicating size and location of each slab penetration and opening as necessary by all affected trades. Submit penetration plans together with corresponding metal decking or reinforcing steel shop drawings. Submit written statement		walls during backfill operation walls (excluding site retaining and have cured for at least 7
	from Special Inspector that no additional penetrations or openings were added to those shown in penetration submittal.c. Composite Concrete and Masonry Wall Penetration Submittal: Submit to Architect (Structural Engineer) for		
	each wall indicating size and location of each wall penetration and opening as necessary by all affected trades. Submit penetration elevations together with corresponding reinforcing steel shop drawings. Submit written statement from Special Inspector that no additional penetrations or openings were added to those shown in		
9.	penetration submittal. Contract Documents Use: Review Contract Documents in their entirety before performing structural related Work		
	 and before developing shop drawings. Bring discrepancies to immediate attention of Architect (Structural Engineer) before starting Work. a. Scaling of Drawings: Not permitted. 	_	
	 b. Additional Structural Requirements: See specifications. c. Building Geometry: See architectural drawings for building geometry including, but not limited to, top of floor and roof elevations; depressions; slopes; curbs; drains; trenches; slab and deck edge locations; wall overall 		
	 dimensions; and size and locations of openings in floors, roof, and walls. d. Non-structural Items Requiring Special Provisions: See architectural, mechanical, plumbing, and electrical drawings for non-structural items requiring special provisions during construction. They include but are not 		
	limited to, non-structural walls; size and locations of openings and sleeves penetrating structure; size and location of piping, ductwork, and equipment anchorages mounted or suspended from structure. Verify exact size and location of equipment with equipment		EXTENT OF OVER EXCAVA
10	manufacturer.		and RE-COMPACTION
10.	county and local ordinances and safety orders of State Industrial Accident Commission, OHSA.	Ε.	REINFORCING STEEL
''.	pipe, or conduit shall occur in structural members including footings, slabs, walls, columns, and beams unless specifically shown or indicated on structural drawings.	1.	Reinforcing Steel: a. All bars unless indicated b. Bars to be welded: AST
12.	Typical Details: Details on S1 series sheets are applicable throughout Project wherever the described condition occurs and may or may not be specifically referenced on structural drawings. Contractor is responsible for	2.	Wire and Spiral Reinforcing: a. Smooth welded wire fab
C.	Identifying these details and understanding extent of their application prior to performing Work.		1-1/2 wire spaces (1 foob. Deformed wire stirrups (c. Spiral reinforcing: ASTM
1.	Structural Observation: a. Coordination Responsibilities of Contractor: Notify Architect (Structural Engineer) 48 hours in advance of	3.	Shop Drawings: ACI 315, Pa
	critical stages of construction indicated below so visits may be scheduled by Structural Observer. Failure by Contractor to meet observation schedule may require removal of subsequent Work for observation. Contractor to bear costs of removal and replacement of finished Work or framing damaged by removal process or as		Promptly notify Architect (Str between reinforcing steel and approved Contract Documen
	 required for corrective action. b. Pre-construction Meeting: Owner may coordinate and call for meeting between Architect (Structural Engineer) responsible for structural design, Structural Observer, Contractor, affected subcontractors and Special 	А	reinforcing steel and concrete
	Inspector. structural observer will preside over this meeting. Purpose of meeting is to identify major structural elements and connections that affect vertical and lateral load resisting systems of structure and to review schedule of Structural Observation, Materials Testing, and Special Inspection of Project.	ч.	indicated. If additional splice developing shop drawings.
	 c. Critical Stages of Construction Requiring Structural Observation: i. Casting of first concrete footing. ii. Erection of first structural steel framing member. 	F	except at horizontal sup
2	iii. Erection of first structural steel roof framing member. Mill Test Reports Certifying Materials: Contractor to submit mill test reports certifying reinforcing steel and	5.	or 1 bar diameter, whichever piers, and pilasters only. For
	structural steel are of identifiable tested stock to Owner, Special Inspector, Architect (Structural Engineer) and, upon request, to Governing Code Authority. Ensure materials are properly tagged for identification. If mill test reports cannot be made available or if material cannot be identified. Testing Laboratory will perform tests as directed by	6.	as single bars except bar dia Minimum Concrete Coverage
	Architect (Structural Engineer). Contractor shall pay Testing Laboratory for costs related to tests and inspections of unidentifiable materials or materials furnished without mill test reports, materials found deficient after initial tests and inspections or materials replacing deficient materials		unless noted otherwise: a. Slabs on Grade locate a b. Slabs Supporting Earth
	 a. Ultrasonic Examination of Heavy Rolled Shapes and Thick Plates at Proposed Welded Moment Connections: Where complete penetration groove welds occur at Groups 4 and 5 structural steel shapes, as defined in ASTM A6, and plates exceeding 2 inches thick, submit mill test reports to Architect (Structural Engineer) and 		c. Formed Concrete in Cord. Concrete Poured Againse. Walls Above Grade, Exp
	upon request, to Governing Code Authority. Mill test reports shall certify that Charpy V-notch testing was conducted in compliance with ASTM A6, Supplementary Requirement S5, including impact test complying with		f. Walls Above Grade, Nog. Columns (Clear to Faceh. Beams (Clear to Face o
	Fahrenheit.	7.	i. Structural Slabs (Top ar Dowels at Construction Joint
3.	Certificate of Compliance for Offsite Fabrication: Submit for structural steel in compliance with Applicable Code Section 1704A.2. Submit to Owner, Testing Laboratory, Architect (Structural Engineer) and Governing Code Authority.	8.	construction joints, unless de
4.	Weld Testing and Inspection: Testing Laboratory will submit weld test results to Owner, Contractor, Architect (Structural Engineer) and to Governing Code Authority. See Specifications for testing requirements not indicated on	5.	bars of the same size. In cur with most steel area closest
	 structural drawings. a. Structural Steel Welding: Apart from visual inspection and review of fabrication and erection reports of fabricator/erector's own quality control testing and inspection, Owner's Testing Laboratory will perform indicated 	9.	Bars Terminating at Walls, C poured against earth) of far fa
	shop and field inspection and testing. Testing Laboratory will be AWS Q.C1 certified and will provide inspectors for continuous inspection of steel fabrication and erection and structural welding. Shop and field testing of materials and welding will be as follows:	10.	Bars Interrupted by Structura
	i. Ultrasonic testing is required for all (100%) partial and complete penetration welds. Test groove welding on continuity plates by ultrasonic testing after beam flange weld connection. Testing will be performed 24 hours or more after completion of welding. Weld backing removal areas and fillet welds will be subjected to magnetic	11.	welding: AWS D1.4, Curren
	 particle examination. ii. Base metal thicker than 1-1/2 inches, subjected to through thickness weld shrinkage, will be ultrasonically tested directly behind such welds 48 hours or more after completion of welding. 		a. Acceptable Reinforcing desired, submit propose Governing Code Author
	 iii. Welds shall be visually inspected and periodically measured (15 percent minimum). iv. Check 10 percent of fillet welds by magnetic particle (ASTM 109 method). Check 25 percent of continuity plate fillet welds and hear fillet welds (100 percent in moment zenes) by megnetic particle. 		tor approval prior to exeb. Welder Certification: Gec. Welding electrodes: E80
	 V. Ultrasonically test column flanges located at proposed welded moment connections, continuity plates, doubler plates and base plates where column flange or plate thickness exceeds 1-1/2 inches. Test for evidence of laminations, inclusions or other discontinuities is accordance with A OTMA 105. 	12.	Bending: Bend cold unless of steel bars embedded in conc
	examination of steel plates, or ASTM A898, straight beam ultrasonic examination of rolled steel structural shapes, as applicable. Test zone to include area 6 inches above and below each beam flange connection. For	13.	Reinforcing Steel Allowance: 5 tons of reinforcing steel to l
	plates, any discontinuity causing a total loss of back reflection not contained within 3-inch diameter circle, or one-half thickness of plate, whichever is greater, will be rejected. For rolled shapes, ASTM 898, Level I criteria applies. Testing will be performed on material prior to fabrication, after fabrication, and after final welding of		Direction will be given during and grade. Quantity of piece

vi. Amperage, voltage, polarity and electrode stick out will be verified for compliance with electrode manufacturer's

TRUCTURAL OBSERVATIO

- ion: Unless otherwise indicated g with Applicable Code Section e accepted by Architect (Structu
- Continuous Special Inspection: be Performed by Geotechnical backfill and compaction of back ior to placement of reinforcing
- ions, excavations, and placeme report certifications and materia g steel (including dowels) where
- igns before delivered concrete
- nd sampling where specified co k grout
- units including rebar and grout for verifying compressive stren r embeds in concrete and maso s (drill and epoxy and mechanic
- report certifications and materia of specimens
- ral steel, welded shear studs (decking per ICBO Evaluation R
- th bolts (A325-SC and A490-SC oolts (A325-N, A325-X, A490-N, d cohesion/adhesion per Applic n architectural drawings
- echanical and epoxy anchors s
- DATIONS
- orm soils work complying with fo MTGL, INC. dated Dec. 13, 201 1-386, March 16, 2011;log no. . Maintain at site a copy of rep
- gn Values per Geotechnical Rep 0 psf at footings (increase 33% ע nations) g Pressure: 250 psf/ft 0.35
- fill and Compaction of Backfill: and performed only under Conti
- oundations, Retaining and other existing artificial fill, soils disturt
- ncountered. Approximate depth le or proposed finish grade and echnical report. g geotechnical engineer's obser
- ches, moisten to optimum moist atory maximum dry density as
- Fill: Excavated artificial fill from acted fill subject to geotechnica nical engineer. Compact to at
- 1 Test Method D1557. oundations are to bear on appro cted by geotechnical engineer an, dry and free of debris or loo nical Report. Cast concrete dire
- Place after completion and i on. Unless adequately shored, ng walls) until concrete at eleva

- d otherwise: ASTM A615, Grad STM A706, Grade 60
- bric (W.W.F.): ASTM A185, Fy ot minimum). Offset laps in adj (D4 and larger only): ASTM A4 FM A82, Grade 60
- Part B. Show reinforcing steel p , lap lengths, and concrete cov tructural Engineer) prior to deve nd other congestion is encounte ents which are indicated on acce
- B splices unless indicated othe ce locations are proposed, prom e splices in horizontal bars at
- pports such as floor and roof dia een Parallel Reinforcing Steel Ir er is greater. 1-1/2 inches or 1
- r bundled bars, minimum clear
- ameter is derived from equivale e: Place bars as near to concr
- at center of slab Above 2 inches from top
- ontact With Earth 2 inches
- nst Earth (Unformed) 3 inches xposed to Weather 2 inches ot Exposed to Weather 3/4 inch e of Ties) 1-1/2 inches
- of Ties) 1-1/2 inches
- and Bottom) 1 inch
- etailed otherwise.
- t to near wall surface

- ailed otherwise. nt Edition and Applicable Code Section 1903A.4.
- ecution Soverning Code Authority.
- 30XX (80 ksi)
- and necessary construction services such as shop drawing preparation, and access for inspection. Submit expenditures in writing for any part of this allowance to Architect (Structural Engineer) prior to fabrication and erection

- recommendations.

I, MATERIALS TESTING, and SPECIAL INSPECTION)	F.		HORAGES and FASTE	ENERS				H. 1	MASONRY
d, Continuous Special Inspection will be performed by 1704A. Periodic Inspection is not permitted unless ural Engineer). See Specifications for additional Special	1.	Anchorages: Drill and Epoxy A F1554, grade 55, complying with IC Substituting drill a	Anchors: Hilti RE500 S , or reinforcing steel co CC-ES Evaluation Rep and epoxy anchors for	D adhesive syste nforming to ASTN ort No. ESR-2322 cast-in-place reir	em using thre M A615, grad 2. Installers t forcing embe	aded steel rods co e 60, or ASTM A7 o be certified by n edments will not b	onforming to ASTM 06, grade 60, nanufacturer. e accepted.	1. 2.	Verifying Sp acceptable t data for each
Engineer of Record:		i. To Concrete: H No. 1917.	iors: Hilti Kwik Bolt TZ carbo	n steel expansior	n anchors cor	mplying with ICC-I	ES Evaluation Report		shall be bas
kfill steel or concrete		ii. To Masonry: Hi No. 1385 Woldod Shoar St	lilti Kwik Bolt III carbon	steel expansion	anchors com	plying with ICC-E	S Evaluation Report	3.	Concrete Blo strength as i
al identification		strength, automat Report No. 2614.	itically end welded in fig.	eld conforming to	ASTM A108	and complying wi	th ICC-ES Evaluation	4.	Face Brick:
re specified concrete compressive strength is greater		. Welded Deformer A496 and comply	ed Anchors: Nelson D2 ying with ICC-ES Evalu	L, cold rolled, de ation Report No.	formed steel 5217.	reinforcing bars co	onforming to ASTM	5.	Portland Cerpermitted.
is placed oncrete compressive strength is greater than 2500 psi	2.	asteners: Powder Actuated ICC ES Report N surface. (All shot	l Fasteners: Hilti Low- lo. 2269. Provide appr pins shall be of this kii	velocity Powder A opriate washer be nd)	Actuated Drivetween faster	e, 0.157" diamete her head and light	· (X-U), complying with gauge metal or wood	6.	Aggregates a. Aggreg b. Aggreg
ing operations ngth (f'm), mortar and grout sampling		 Self-Drilling Meta Evaluation Repor Masonry screws: 	al Screws (Indicated "S rt ER-2196. : Hilti Hus-H complying	crews" on Drawin with ICC ES eva	igs): Hilti Sel luation report	f Drilling screws c no. ESR-2369	omplying with ICC ES	7.	Mortar: AST 2800 PSI mi
onry cal) in concrete and masonry	3.	nstallation: See manu	ufacturer's written instr	uctions, reference	ed ICC-ES ev	valuation report.	an chamman taola with	8.	Grout: AST compressive
al identification		ANSI compliant n prestressing and	non-rebar cutting drill b post-tensioning tendo	its to drill holes of ns using non-haz	f proper toler ardous, non-	ances. Locate ex destructive metho	sting rebar including ds with accurate	9.	Reinforcing
inspection and field test), and reinforcing steel Report indicated herein		location tolerance thoroughly cleane . Deleterious Mater free of dust, grea	es (plus or minus 1/4-ir ed per manufacturer's rials: Keep anchorage ase, and other material	nch) prior to drillin written recommer s, including holes s that impair bonc	g holes to av ndations prior s for drill and l.	old cutting or dam to installation of a epoxy anchors ar	aging. Holes shall be anchorages. d mechanical anchors,	10.	Composite N penetration a drawings. S to those sho
C) verified by calibrated torque wrench I, and A490-X) verifying snug contact of plys	4.	esting for Drill and E . Special Inspectio	poxy Anchors and Mecon: Special Inspector will	chanical Anchors: /ill perform Contir	nuous Specia	I Inspection during	g installation.	11.	Reinforcing
cable Code Section 1704A.10 and 714 in compliance to		operating against concrete adjacen	t suitable pulling fixture t to hole. Test equipm	e. Place jacks and ent, method and	d fixture so th layout are su	hey do not apply re bject to Architect	estraint to or confine (Structural Engineer's)		distance bet staggered at
shall be based on ICC-ESR or manufactures written		acceptance. . Qualification Test actual Work.	ting: Required for Arch	nitect's (Structura	l Engineer's)	acceptance prior	o commencement of	12.	Dowels for V otherwise.
		Prepare and set 3 kind of concrete u Test anchors to te	3 specimens for each s under conditions repre- rension and torque value	size and type of d sentative of propo les tabled below	rill and epoxy psed use.	anchor and mec	nnical anchor in each	13.	Minimum Re a. Minimu
oundation design based on recommendations in report 0 and subsequent addenda letters: log no. 11-295, 11-475, April 05, 2011; log no. 11-554, April 26, 20; and port and addenda.		 No loosening or n Proof Testing: Replaced. Test 100% of inst 	movement of anchor no lequired throughout Wo stalled anchors.	or cracking or spa ork as anchors are	Illing of conci e set. Testing	ete shall be obsei g shall be represe	ved. ntative of all anchors		clearan b. Minimu whiche c. Minimu
port. Values may be increase 33 percent for transient		 I est anchors to te No loosening or not set in the set of the	ension and torque valu movement of anchor no Anchor Testing:	ies tabled below. or cracking or spa	Illing of conci	ete shall be obsei	ved.		and pie
when applying seismic or wind per CBC 2010 section		Tension Test Val Anchor D or Bar Si	lues: Dia. (in.) Anchor I	Minimum	4000 psi Tension (Il	ne) *		14.	Placement: flush mortar
		3/8 #4	3 1/2 4		3264 6320	<u>, , , , , , , , , , , , , , , , , , , </u>		15.	Grouting: G a. Grout H
Comply with Geotechnical Report and requirements of inuous Special Inspection of geotechnical engineer.		#5 #6 #7	5 7 7 1/2		8336 14592 13712				b. Horizon b. or longe
er Site Walls and Building Slabs on Grade: bed during demolition of existing improvements, and any		* Normal Mechanical Anch	I weight concrete nor Testing:					16	b. Grout C
h of excavation shall be 4 feet (depth of existing artificial I a min. 2 feet below footing, whichever is deeper, as		Anchor Dia.	Anchor Min. Embed	3000 psi Tension	4000 psi Tension	Setting Torque		10.	provide stan
ervation of excavation, scarify soil at excavation bottom to ture content, and recompact scarified soil to a minimum determined by ASTM Test Method D1557		<u>(in.)</u> 1/4 1/4	<u>(in.)</u> 1 1/8 2	* 541 1070	* 638 1192	<u>(ft-lbs)</u> 4 4		17.	Provide 1" n
al engineer's approval. Place compacted fill in thin lifts as		1/4 3/8	3 1 5/8	1142 1354	1226 1621	4 20		I.	STRUCTUR
least 90 percent of the laboratory maximum dry density		3/8 3/8 1/2	2 1/2 3 1/2 2 1/4	2278 2496 2054	2670 2670 2430	20 20 40		1.	Detailing, Fa Seismic Pro
oved compacted fill as indicated in Geotechnical Report. prior to placement of reinforcing steel and formwork.		1/2 1/2	3 1/2 4 3/4 2 3/4	3277 3531 2027	3658 3862 3246	40 40 85		2.	modified by
ectly against excavated surfaces.		5/8 5/8	2 3/4 4 51/2	4488 5539	5026 6154	85 85			Furnish structure
inspection of waterproofing. Adequately shore retaining do not place backfill behind building structure retaining sted floor levels adjacent to walls are completely poured		3/4 3/4 3/4	3 1/4 4 3/4 6 1/2	3568 6330 8590	4016 7848 10504	150 150 150			c. Plates: d. Pipes:
·····		1 1	4 1/2 6	5840 8496	7000 10600	200 325 225			e. Tubes: f. Anchor
		* Normal	9 I weight concrete	11280	12000	320		3.	Holes for Bo
	G		NCRETE					4.	nominal bolt High Strengt
	1.	pplicable Standards:	: ACI 318 and ACI A3	01 except as amo	ended in App	licable Code Cha	oter 19A and as		a. Harden where j
<i>│ </i>	— 2.	rodified by supplement ortland Cement: AS	TM C150, type \overline{II} / \overline{v} .	ein.					c. Anchor
	3.	Aggregates:		STM C33 for and	rogatos of pa	tural cand and roo	yk Maximum		d. vvasne anchor e. Nuts: A
		aggregate size is Light Weight Agg gravel size.	s 1-1/2 inches at founda gregate for Structural C	ations and slabs on oncrete: ASTM C	on grade and 330, expand	1 inch elsewhere. ed shale light weig	ght aggregate of pea	5.	Welding: a. Applica limited
5-0"	4.	linimum 28-Day Cono	crete Compressive Str	engths and Types Compre and Typ	s: essive Streng be of Concre	th	Max. W/C Ratio		i. Sec ii. Se
		Concrete Unless Othe Structural Drawing	erwise Indicated on gs	4000 ps	si normal wei	ght (145 pcf)	0.45		tempe iii. Se iv. Se
		Concrete Slabs on Grade B	rade	4000 ps 3000 ps	si normal wei si normal wei	ght (145 pcf) ght (145 pcf)	0.45 0.45		b. Pre-qua
ade 60	5.	Il concrete above gra ead, column cover a	ade, including slab on g Ind retaining walls shal	grade, elevated s I have 1.6 pounds	lab, deck fill, s of 1 1/2" fib	wall, column, topp er ultranet per cub	ing slab, stair landing & ic yard of concrete.		Standa comply c. Work p
/ =65 ksi, flat sheets only - do not use rolled mesh. Lap	6.	ean Concrete: When	re specifically indicated	l, containing 2 sa	cks of cemer	t per cubic yard o	f concrete.		Each w d. Pre-cor
jacent sheets to avoid continuous laps. 497, Fy =65 ksi	7. 8.	lon-shrink Grout: AS Concrete Mix Design \$	STM C109, cementitiou Submittal: Prior to ord	s, non-metallic at ering concrete, st	taining a corr Jbmit for eacl	pressive strength	of 6000 psi. ength and type of		e. Welding Welding
placement including sizes, quantities, spacing,		oncrete required desi Structural Engineer),	signed, signed, and sea Special Inspector and	aled by a registered to Governing Cod	ed Civil Engir de Authority o	eer in State of Ca complying with Ap	lifornia to Architect plicable Code, Chapter		approva i. Weldi ii. Inforr
erages and submit to Architect (Structural Engineer). eloping shop drawings if insufficient clear distances ered. Notify Special Inspector of adjustments made from epted shop drawings that facilitate field placement of	9.	onstruction Joint Sub dicating locations of hrinkage as well as b	bmittal: Submit to Arch construction joints and being placed at points v	nitect (Structural E I extent of pours. which least impai	Engineer) at l Place joints r strength of s	east 14 days prior at locations to mi structure. Provide	to placing concrete nimize effects of dowels as directed.		iii. Deta seisn stress
erwise. Splice #5 bars and larger only at locations	10.	mbedments and Pen	netrations in Concrete:	No penetration t	hrough struct	ural concrete is p	ermitted unless		comp struct
well-staggered locations. Do not splice vertical bars		. Pipes, Sleeves, C columns, walls or	Conduits, and Ducts: N r concrete cast over me	Not permitted emb etal decking.	bedded or pe	netrating concrete	spread footings,		iv. Weld v. List o
iaphragms. Stagger Lap Splices 4'-0" min.		. Conduits Embedo diameter conduits thickness. No co	aed in Structural Concl s and smaller spaced a onduit embedded in cou	rete Slabs: Not p at least 3 inches o ncrete cast over r	ermitted unle center to cent netal decking	er and within mide	ayers of 1 inch outside lle third of slab		vı. vveldi Indivio dep
-1/2 bar diameters, whichever is greater, at columns, r distances between units of bundled bars shall be same	11.	chamfered Corners: I	Provide 3/4-inch cham	fer at exposed co	rners of colu	mns, beams and v	valls except where		laye vii. Appli
ent total area of bundle.	12.	uuctural walls are laid	Roughen surface to 1/4	Jearn taces, unle	ss detailed o Clean, remo	uierwise. ve laitance, thoro	ughly wet and remove		ix. Posit ix. List deta
	10	tanding water before	placing new concrete.	s Fahrenheit and	in a moist or	ndition for a minin	num of 7 days after		x. Minii preh
	10.	lacement unless othe	erwise accepted by Arc	chitect (Structural	Engineer).				xi. List c

nts: Provide dowels matching size and quantity of reinforcing steel interrupted at

Place vertical bars closest to wall surfaces at curtains containing vertical and horizontal urtains which vertical and horizontal bars are of different sizes or spacing, place layer

Columns, Beams, and Foundations: Extend bars to within 2 inches (3 inches at concrete face of wall, column, beam, or foundation and provide standard ACI 90-degree hook

al Steel: Extend bars to within 2 inches of steel face and provide standard ACI

g Steel for Welding: ASTM A706. If welding of reinforcing steel other than A706 is ed procedure, indicating conformance to Applicable Code and requirements of prity, to Architect (Structural Engineer) for acceptance and to Governing Code Authority

otherwise accepted by Architect (Structural Engineer). Do not field-bend reinforcing crete unless otherwise accepted in writing by Architect (Structural Engineer).

: In addition to reinforcing steel indicated in Contract Documents, allow for an additional be constructed under direction of Architect (Structural Engineer) during construction. multiple occasions. Reinforcing steel under this allowance will be of any size, shape ces and location in Project will vary. Include in this allowance fabrication and erection

Specified Compressive Strength of Masonry (fm): 1800 psi typical unless noted otherwise.

Verifying Specified Compressive Strength of Masonry (fm): Use masonry prism testing method unless otherwise acceptable to Architect (Structural Engineer). Full allowable stresses are used in design. Submit masonry prism data for each type and compressive strength of masonry required, with a professional engineer's signature and state of California seal, to Architect (Structural Engineer). Compliance with minimum required compressive strength shall be based on Applicable Code Section 2105A.2.

3. Concrete Block: ASTM C90, medium weight and Applicable Code Table 2105A-1 attaining a minimum compressive strength as required to meet specified compressive strength of masonry (f'm). I. Face Brick: ASTM C216.

5. Portland Cement for Mortar and Grout: ASTM C150, Type V. Use of masonry cement or plastic cement is not

6. Aggregates for Mortar and Grout: a. Aggregates for Mortar: ASTM C144. b. Aggregates for Grout: C404, coarse type.

2800 PSI min.

Mortar: ASTM C270, Type S. Mix in proportions according to Applicable Cod per Table 2105A2.2.1.2, Type S,

8. Grout: ASTM C476, coarse type, attaining a minimum compressive strength as required to meet specified compressive strength of masonry (fm). However, in no case shall grout compressive strength be less than 2500 psi

9. Reinforcing Steel: Reinforcing steel section of general notes unless indicated otherwise

10. Composite Masonry Wall Penetration Submittal: Submit for each wall indicating size and location of each wall penetration and opening as necessary by affected trades. Submit together with appropriate reinforcing steel shop drawings. Submit written statement from Special Inspector that no additional penetrations or openings were added to those shown in penetration submittal.

11. Reinforcing Steel Splices: Lap reinforcing steel at splices a minimum of 48 bar diameters, except dowels in footings at base of walls shall splice a minimum of 72 bar diameters, unless noted otherwise. Where minimum clear distance between bars at adjacent splices is 3 inches or less, increase lap length 30 percent unless splices are staggered at least 24 bar diameters.

12. Dowels for Walls, Columns, Pilasters, and Piers: Match size and spacing of vertical reinforcing steel, unless noted otherwise. Set dowels to align with cells containing reinforcing steel.

13. Minimum Reinforcing Steel Clearances: a. Minimum Clearances Between Reinforcing and Outside Face of Masonry: 2 inches except in no case shall clearance be less than 2-1/2 bar diameters b. Minimum Clearance Between Reinforcing and Inside Face of Grout Cell: 1/2 inch or 1 Bar diameter,

whichever larger c. Minimum Clearance Distances Between Parallel Reinforcing: 1 inch or nominal bar diameter, whichever is less. Increase to 1-1/2 inches or 1-1/2 times nominal bar diameter, whichever is less, at columns, pilasters, and piers only.

14. Placement: Set courses in running bond pattern unless indicated otherwise. Set cells in vertical alignment. Provide flush mortar joints at surfaces to receive waterproofing or damp-proofing.

15. Grouting: Grout solid all cells. Mechanically vibrate grout in cells. a. Grout Height Limits: Applicable Code Section 2104A.5.1.2.3 High lift grout must be approved by DSA. See IR b. Horizontal Construction Joints: Hold grout 1 1/2 inches below top of masonry unit if work is stopped one hour

b. Grout Cover Around Reinforcing Steel, Anchor Bolts and Inserts Penetrating Masonry Shell: 1 inch minimum. 16. Horizontal Bars Terminating at Wall Ends and Opening Jambs: Extend bars to within 2 inches of end of wall and

provide standard ACI 90-degree hook unless detailed otherwise.

17. Provide 1" min. grout around bolts and other embedments.

STRUCTURAL STEEL

Detailing, Fabrication, and Erection: AISC 360-05 "Specification for Structural Steel Buildings "AISC" & 341-05 Seismic Provisions for Structural Steel Buildings" except as amended in Applicable Code Chapter 22A and as modified by supplemental requirements herein.

Structural Steel: Provide readily identifiable structural steel in compliance with Applicable Code Section 2203A. Furnish structural steel complying with the following ASTM standard specifications, unless noted otherwise: a. Structural Steel Unless Indicated Otherwise: ASTM A992, Grade 50

f. Anchor Bolts

b. Angles and Channels:

Holes for Bolted Connections and Anchor Bolts: AISC "standard" holes limited to 1/16-inch larger in diameter than nominal bolt diameter, unless noted otherwise.

High Strength Bolts, Nuts and Washers: AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts". a. Hardened Washers: ASTM F436, under nuts except where plate washers are used. Provide beveled washers where joint face slope is greater than 1:20.

b. Tightening: Snug tight for all high strength bolts except tighten A325-SC and A490-SC bolts to at least the minimum proper tension according to AISC Specification. c. Anchor Bolts: ASTM F1554, grade 55, unless noted otherwise.

d. Washers: ASTM A36, under nuts, 3-1/2-inch square washers of thickness 0.375 times nominal diameter of anchor bolts. Weld washers to base plate with 5/16-inch fillet weld all around. e. Nuts: ASTM A 563 Grade DH Hexagonal Nuts, Headed Type.

a. Applicable Welding Standard: Applicable Code and latest adopted edition of AWS D1.1 including, but not limited to, the following: i. Section 6.4 for qualified welders.

ii. Section 4.2 and AISC 360-05 Specification Section J2-7 for jumbo sections for preheat and interpass temperature requirements.

iii. Section 4, Parts 8c and 8d technique for arc welding. iv. Section 6 and Section 8, Part D, for inspection.

b. Pre-qualified and Non Pre-qualified Welds: Welds shall be pre-qualified in compliance with Applicable Welding Standard. Where non pre-qualified welds are to be used, qualify by test and procedure qualification test record complying with Applicable Welding Standard.

c. Work performed by Welders and Inspectors: Adhere to approved Welding Procedure Specification (WPS). Each welder and inspector shall retain a copy of WPS. d. Pre-construction Meeting: Conduct to include Architect (Structural Engineer), fabricator, erector, Contractor and inspectors to discuss Welding Procedure Specification (WPS).

e. Welding Procedure Specification (WPS): Fabricator/erector to develop WPS in compliance with Applicable Welding Standard. Submit to Architect (Structural Engineer) for acceptance and Governing Code Authority for approval prior to fabrication. WPS submittal to include the following: i. Welding manufacturers' specifications. ii. Information required by Applicable Code, Contract Documents and any other information necessary to

produce welds that are in compliance with Applicable Welding Standard. iii. Detailed sequence of weld sketches addressing effects of welding heat for welds at joints and within seismic frame assemblies as a whole. Plan sequence of erection and welding to minimize locked in stresses and distortion considering effects of welding heat. Procedures submitted shall result in completed connections which comply with design intent of structural drawings. No deviation from structural drawings is permitted unless otherwise accepted by Architect (Structural Engineer) and approved by Governing Code Authority.

iv. Welding parameters recommended by electrode manufacturer. v. List of applicable base metal types and thicknesses.

Provisions, Appendix X.

Authority.

vi. Welding joint sketches including joint type, weld type, joint geometry, and applicable dimensions. Individual weld passes shall be identified in sketches and numbered to identify the sequence of their deposition. Sketches shall identify the maximum layer thicknesses and bead widths. In no case shall layer thickness exceed 1/4-inch, nor shall maximum bead width exceed 5/8-inch. vii. Applicable welding process.

iix. Position of welding. ix. List of filler metal per Applicable Welding Standard and electrode specification and classification. Include details showing shielding material to be used.

x. Minimum preheat requirements, interpass temperatures and post weld heat treatment. Minimum specified preheat shall meet requirements of AWS D1.1, table 4.3, and AISC 360-05 Section J2-7 requirements for jumbo sections. xi. List of applicable electrical characteristics for process employed. Clearly indicate specific values required for each welding pass. These electrical characteristics shall include at a minimum the following:

1. Electrode diameter. 2. Type of current and acceptable ranges of current measured in amperage. For wire feed processes, indicate manufacturers' recommended melt-off rate, deposition rate, and wire feed speed.

3. Voltage (for all processes). 4. Actual field condition travel speed and manufacture's data for travel speed.

5. Electrode extension (stick out) for wire feed processes 6. Amperage, voltage and electrode extension (as applicable) shall be within filler metal manufacturer's recommendations (compare to AWS D1.1, Section 4.6.2). 7. Electrode manufacturer's technical information, with identification number listed, and welding

parameter recommendations. 8. Welding Electrodes (Filler Metal): E70XX (70 ksi), unless indicated otherwise. Provide filler metal with Charpy V-notch toughness of 20 ft/lbs average at -20 degrees Fahrenheit at complete penetration groove welds. Use low-hydrogen electrodes only.

9. Welding Toughness Requirements: Certify conformance to Charpy V-notch toughness requirements with tests by an independent testing laboratory for each AWS classification, manufacturer and trade name. Testing procedures shall be in accordance to Applicable Welding Standard and AISC 341-05 Seismic

10. Approved Fabricators: Perform shop welds by fabricators approved by Governing Code Authority. 11. Welder Qualification: Welders, regardless if Work is performed in shop or in field, shall be qualified for the Work they will be doing and shall have certifications current and acceptable to Governing Code

I. STRUCTURAL STEEL - CONTINUED

f. Welds Exposed to View: i. Faces of fillet welds exposed to view shall have as-welded surfaces that are reasonably smooth and uniform. No finishing or grinding shall be required, except where clearances or fit of other items may so necessitate. ii. Partial and full penetration welds exposed to view shall be ground smooth and flush with finish surface of steel. Remove backup bars and weld tabs. Fill holes with weld metal or body solder and smooth by grinding or

g. Groove Preparation: Clean groove preparation thermal cuts by grinding. h. Termination of Welds: Terminate at joint ends in a manner that ensures sound welds. Use extension bars and run-off tabs whenever necessary.

i. Hand-held Calibrated Amp and Volt Meters: To be used by fabricator, erector and inspectors to assure proper Storage of Electrodes: Adhere to Section 4.5.2 of AWS D1.1.

amperage and voltage of welding process. Measure amperage and voltage at arc. Verify travel speed and electrode stick-out in compliance with electrode manufacturer's recommendations and with approved WPS. k. Weld each flange of moment frame beam to column connections in one continuous process without cooling below pre-heat temperature. I. Welding of ASTM A913 Materials: Perform according to requirements of latest edition of AWS standard,

structural drawings and specifications, whichever is more stringent. m. Minimum Fillet Weld Size: Where minimum fillet weld size, as stipulated by AISC Section J2 and Table J2.4, exceeds fillet weld size indicated on structural drawings, use AISC stipulated size. n. Minimum Groove or Butt Weld Size: Provide complete penetration unless indicated otherwise.

o. Weld Length: Length of welds shown are net effective lengths. Where length of weld is not indicated, provide weld full length of joint.

6. Shop Drawings: Submit To Architect (Structural Engineer) for review and, upon request, to Governing Code Authority. Include sequence of erection procedures from approved WPS:

7. Fabrication: a. Moment Connections: Orient flange stiffener plates and cap plates used in moment connections so that rolling direction of plate is parallel with direction of principal stress. b. Horizontal Members: Place natural camber up.

c. Filler Plates: Provide at splices of parts having more than 1/8-inch difference in thickness. Filler plates to match grade of material spliced.

8. Cleaning: After fabrication, clean steel surfaces free of rust, loose mill scale, and oil.

9. Oversized Holes for Anchor Bolts in Base Plates: Where oversized holes occur, provide 3-1/2-inch square plate washers under nuts. Thickness of plate washer shall be 0.375 times diameter of anchor bolt. Weld plate washer to base plate with 5/16-inch fillet weld all sides.

10. Exposure to Soil: Encase structural steel in lean concrete with 4-inches concrete cover where exposed to soil. 11. Structural Steel Allowance: In addition to the steel shown or implied in this document, allow for an additional 5 tons of structural steel to be constructed at the direction of the Structural Engineer during construction. The allowed steel may be of any shape or sizes, including plates, wide flanges, tubes, pipes, channels, angles, and/or any other structural shapes. The number of pieces may vary. The locations of applications may vary. Direction may be given in multiple occasions during construction. The allowance should include all fabrication and construction related services, such as shop drawings, shop preparation, field erection and coordination, bolted connections and field welding. Expenditure of any part of this allowance shall be approved in writing by the Structural Engineer prior to any fabrication and erection.

J. METAL DECKING

1. Metal Decking and Accessories: HSB, N24, and W decks to be by Verco Manufacturing Company, type and gauge as indicated on structural drawings, ASTM A653, Grade 33, G60 coating, unless heavier galvanized coating indicated in specifications, complying with ICC-ES Evaluation Report 1735P.

Minimum vertical load carrying and diaphragm shear capacities corresponding to weld patterns shown on structural drawings are as indicated in ICC-ES evaluation reports. Run deck units continuous over three or more spans where possible.

2. Welded Shear Studs: See Proprietary Anchorages and Fasteners section of General Notes.

3. Deck Welding and Installation of Welded Shear Studs: AWS D1.3 using prequalified procedures. a. Qualification of Welders: Welders shall be experienced in welding light-gauge steel and using prequalified procedures. Erector shall establish welding procedure for arc spot welding of metal decking to structural steel, and installation of welded shear studs if applicable, for each gauge of decking to be used. Prior to deck erection, each welder shall be qualified using this procedure and witnessed by Special Inspector. See Applicable Code, Chapter 22A, for additional qualification requirements.

4. Shop Drawings: Submit to Architect (Structural Engineer) for review.

Limits to Non-Structural Items Suspended From Concrete Filled Metal Decking: Hangers supported by metal decking with structural concrete fill may be installed using ICC-ES approved anchorage systems. Limit hangers to supporting duct work 54 inches x 16 inches maximum, 4-inch diameter pipe maximum, and acoustical ceilings. Locate hangers two flutes apart on same deck span. Support larger duct work and piping by structural beams or columns as shown on mechanical drawings. Add structural steel beams as necessary, and submit design per section B of this sheet.

6. Pre-punched Holes in Metal Decking and Accessories: Metal deck welding and installation of welded shear studs are not permitted through single layer sheets greater than 16 gauge, nor through double layer sheets greater than 18 gauge, nor through sheets with total galvanized coating thickness greater than 1.25 ounces per square foot. Provide pre-punched holes as necessary.

7. Excess Structural Concrete: Concrete filled metal decking and framing will deflect during placement of concrete. These deflections will require placement of concrete in excess of amount based on nominal dimensions in order to bring slab within tolerances of a horizontal plane. Provide excess concrete at no cost to Owner.

K. STRUCTURAL SHEET INDEX

S1.01	GENERAL NOTES
S1.11	TYPICAL FOUNDATION and SLAB-ON-GRADE DETAILS
S1.21 S1.22	TYPICAL STRUCTURAL STEEL DETAILS TYPICAL METAL DECKING DETAILS
S1.31 S1.32	TYPICAL CONCRETE BLOCK WALL ELEVATIONS, DETAILS TYPICAL ROOF CONN. TO CMU WALL
S1.91 S1.92 S1.93	TYPICAL LIGHT GAUGE FRAMING SCHEDULES and ELEVATIONS TYPICAL LIGHT GAUGE METAL FRAMING DETAILS TYPICAL LIGHT GAUGE METAL FRAMING DETAILS
S2.01	FOUNDATION AND ROOF FRAMING PLANS
S4.01	WALL ELEVATION AND DETAILS
S9.01	EQUIPMENT ANCHORAGE DETAILS

EQUIPMENT ANCHORAGE DETAILS

SCHEDULE FOR DETERMINING CATEGORY								
	I	II						
1.	A>db and B>2db and TIES THRUOUT Ld	OTHER CASES						
2.	A>db and B>3db							

	"CLA	SS	В "	ΤE	E N S	810	NL	_ A F	° S	ΡL	I C E	S	СН	ΕD	ULI	Ξ		
					S	SPLIC	E OR	DEVE		IENT	LENG	STH (II	NCHE	S)				
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ATEG	NOR WEI CONC	#	3	#	4	#	5	#	6	#	7	#	8	#	9	#1	0	
0		Т	В	Т	В	Т	В	Т	В	Т	В	Т	В	Т	В	Т	В	
•	3000	28	23	38	29	47	37	56	43	82	63	94	72	106	81	117	90	
I	4000	25	20	33	25	41	32	49	38	71	55	81	63	91	71	102	78	
П	3000	43	34	58	43	71	55	85	65	124	94	141	108	159	121	176	136	
11	4000	38	30	50	38	62	47	73	58	106	82	121	94	137	106	153	117	
		D	ΕV	ΕL	ΟΡ	ΜE	ΝT	" L	d "	SC	ΗE	DU	LE					
1	3000	22	17	29	22	36	28	43	33	63	48	72	55	81	62	90	69	
I	4000	19	15	25	19	31	24	37	29	54	42	62	48	70	54	78	60	
	3000	33	26	44	33	54	42	65	50	95	72	108	83	122	93	135	104	
11	4000	29	23	38	29	47	36	56	44	81	63	93	72	105	81	117	90	

S0.11

ROOF FRAMING PLAN

FOUNDATION PLAN

PLAN NOTES

- 1. FOR GENERAL NOTES and TYPICAL DETAILS SEE S1 SERIES SHEETS.
- 2. SEE ARCHITECTURAL DRAWINGS FOR TOP OF STRUCTURAL STEEL PARAPET, and SCREENWALL ELEVATIONS; ROOF DEPRESSIONS, SLOPES, CURBS, DRAINS, DECK EDGE LOCATIONS; PARAPET and SCREENWALL OVERALL DIMENSIONS; and LOCATIONS OF OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS. INTERPOLATE AS NECESSARY TO DETERMINE TOP OF STRUCTURAL STEEL ELEVATIONS AT SLOPED MEMBERS BETWEEN POINTS INDICATED ON ARCHITECTURAL DRAWINGS.
- 3. CENTER COLUMNS AT GRID INTERSECTIONS UNLESS INDICATED OTHERWISE. 4. FOR OPENINGS IN ROOF UP TO 2'-0" SQUARE SEE 4/S1.22 and FOR OPENINGS
- UP TO 4'-0" MAXIMUM (PERPENDICULAR TO DECK SPAN) SEE 5/S1.22.
- 5. NO PENETRATION THROUGH STRUCTURAL STEEL IS PERMITTED UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.
- 6. CONSTRUCT LIGHT GAUGE METAL INTERIOR and EXTERIOR STUD WALLS PER SHEET S1.91 UNLESS SPECIFICALLY DETAILED OTHERWISE.
- 7. SEE SCHEDULE ON S9 SERIES FOR EQUIPMENT ANCHORAGE DETAILS.
- 8. REFER TO S1.31 FOR TYPICAL CMU DETAILS.
- 9. ALL WELDABLE REBARS SHALL BE A706.

LEGEND ↔ / INDICATES FRAME OR NON-FRAME COLUMN BELOW - SEE н WXxXX _____

<X">

- BEAM TO GIRDER TWO-SIDED CONNECTIONS, 1B/S1.21 FOR TYPICAL BEAM TO GIRDER ONE-SIDED CONNECTIONS 3/S1.21 FOR BEAM TO WIDE FLANGE COLUMN CONNECTIONS.
- INDICATES UPWARD CAMBER (IN INCHES) AT MIDSPAN OF BEAM (IF BEAM CANTILEVERS, HOLD CANTILEVERED PORTION LEVEL) - IF NO CAMBER INDICATED, NO CAMBER REQUIRED
- INDICATES DRAG CONNECTION SYMBOL SEE DETAIL 3/S1.21 INDICATES ROOF CONSTRUCTION MARK - SEE SCHEDULE THIS RDX SHEET AND DETAIL 1/S1.22 - PROVIDE CLOSURES OVER BEAMS AT

DENOTES 8" THICK CONCRETE BLOCK SHEAR WALL SOLID GROUTED - FOR REINFORCING SEE 1/S1.31. DENOTES 12" THICK CONCRETE BLOCK SHEAR WALL SOLID GROUTED - FOR REINFORCING SEE 1/S1.31.

 DENOTES CONCRETE BLOCK WALL OR LINTEL BELOW

DENOTES DRAG BEAMS TO WALL CORNER CONNECTION PER

PLAN NOTES

- 1. FOR GENERAL NOTES and TYPICAL DETAILS SEE S1 SERIES SHEETS.
- 2. SEE ARCHITECTURAL DRAWINGS FOR TOP OF CONCRETE SLAB ON GRADE ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, PADS, and CURBS; SLAB EDGE LOCATIONS; WALL OVERALL DIMENSIONS; and LOCATIONS OF OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS.
- 3. BUILDING SLAB-ON-GRADE: 6" THICK W/ #5 @18" O/C EACH WAY at CENTER OF SLAB PER 4/S1.11. PROVIDE CONSTRUCTION JOINTS and WEAKENED PLANE JOINTS IN SLAB-ON-GRADE PER DETAIL 4/S1.11.
- 4. CENTER COLUMNS ON GRID LINE INTERSECTIONS U.N.O. ALIGN CMU WALL FACES WITH GRID LINES U.N.O. CENTER CONTINOUS FOOTINGS ON CMU WALLS U.N.O. CENTER SPREAD FOOTINGS ON COLUMNS U.N.O.
- 5. IN NO CASE SHALL PIPES, CONDUITS, OR SLEEVES BE EMBEDDED IN SPREAD FOOTINGS OR WITHIN TOP OR BOTTOM THIRD OF CONTINUOUS FOOTING UNLESS SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS.
- 6. CONSTRUCT CONTINUOUS FOOTINGS AT CORNERS and INTERSECTIONS PER 5/S1.11. WHERE CONTINUOUS FOOTINGS TERMINATE AT SIDES OF SPREAD FOOTINGS, EXTEND LONGITUDINAL BARS TO FAR SIDE OF GRADE BEAM OR SPREAD FOOTING and TERMINATE W/ STANDARD 90° HOOK.
- 7. SEE SCHEDULE ON S9 SERIES FOR EQUIPMENT ANCHORAGE DETAILS.
- 8. REFER TO S1.31 FOR TYPICAL CMU DETAILS.
- 9. LOCATE TOP OF CONTINUOUS FOOTING AT ELEVATION -1'-4" U.N.O.
- 10. ALL WELDABLE REBARS SHALL BE A706.

1/8" = 1'-0"

LEGEND)
WITH RESTANT	INDICATES NON-FRAME COLUMN ABOVE - FOR BASE PLATE SEE 6/S1.21 U.N.O.
	DENOTES INTERIOR NON-BEARING METAL STUD WALL - CONSTRUCT PER 1/S1.91
	DENOTES PARTIAL HEIGHT 8" THICK CONCRETE BLOCK WA SOLID GROUTED. TOP OF WALL = 12'-0" U.N.O.
<u> ////////////////////////////////////</u>	DENOTES 8" THICK CONCRETE BLOCK SHEAR WALL SOLID GROUTED - FOR REINFORCING SEE CMU WALL ELEVATIONS S1.31 U.N.O.
	DENOTES 12" THICK CONCRETE BLOCK SHEAR WALL SOLID GROUTED - FOR REINFORCING SEE CMU WALL ELEVATIONS S1.31 U.N.O.
SS	INDICATES STEP IN CONTINUOUS FOOTING OR GRADE BEAM 6/S1.11
	INDICATES CHANGE IN ELEVATION AT SLAB ON GRADE - SEE 9/S1.11 UNLESS DETAILED OTHERWISE
+X'-X"	INDICATES ELEVATION OF TOP OF STRUCTURAL CONCRETE (TOC) - SEE ARCHITECTURAL FOR TOC IF NO ELEVATION INI
ł ł	DENOTES ALIGN.
T.O. FTG.	DENOTES TOP OF FOOTING ELEVATION RELATIVE TO FIRST FLOOR.

Α

G

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S2.01

and ROOF FRAMING PLANS

SWIMMING POOL DATA

=	8,178 SQ. FT.
=	376 FT.
=	3'-6'' TO 12'-6''
=	492,676 GAL.
=	1,369 GPM
	= = = =

LEGEND

MD	=	MAIN DRAIN	
RA	=	ROPE ANCHOR	
ЧL	=	UNDERWATER LIGHT)
DM	=	DEPTH MARKER	
NR	=	NO RUNNING)
ND	=	NO DIVING	
GR	=	GRABRAIL)
RP	=	RACING PLATFORM	
BS	=	BACKSTROKE STANCHION)
WP	=	WATERPOLO GOAL	
FWP	=	FLOATING WATERPOLO)
LAD	=	LADDER	
AL	=	ACCESSIBLE LIFT)
MGC	=	MOVEABLE GUARD CHAIR 4	
	_		١
	-	HANDRAIL]
СА	=	CUP ANCHOR (4)	
SA	=	STANCHION ANCHOR)
IM	=	ONE METER BOARD	

CERTIFICATION REQUIREMENTS

* THE CONTRACTOR SHALL RETAIN AN INDEPENDENT LICENSED SURVEYOR TO PROVIDE PROOF OF COMPLIANCE FOR REQUIRED POOL LENGTHS AS FOLLOWS: (RECOMMEND PATRELL ENG. GROUP (626) 335-4362)

SHORT COURSE-25YDS: (ALLOWS FOR TOUCH PADS AT ONE END) 75'-0 5/16'' MIN.: 75'-1 3/16'' MAX.

TOLERANCE AGAINST LENGTH SHALL EXTEND IN A VERTICAL PLANE Ø.3M (12") ABOVE AND Ø.8M. (2'-71/2") BELOW THE SURFACE OF THE WATER AT ALL POINTS OF BOTH END WALLS TYP. OF ALL COURSES. THE INDEPENDENT LICENSED SURVEYOR SHALL FILL OUT, NOTARIZE AND FILE OFFICIAL CERTIFICATION FORM(S) WITH USA SWIMMING.

WATER DEPTH	"t"	"ds"	RADIUS	5	VERTICAL REINF.	HORIZONTAL REINF.	TRANSITION TO FLOOR REINF.
3'-6"	6"	3"	6"		*4 @ 12" OC	#4 @ 12" OC	BETOND END RADIUS
3'-7" TO 5'-Ø"			6" TO 18	, II	*4 @ 12'' O.C.	#4 @ 12" O.C.	24"
5'-1'' TO T'-Ø''	9	6"	18" TO 2'-	6"	#4 @ 8'' O.C.	#4 @ 8" O.C.	24"
T'-1'' TO 10'-0''	11''	8''	2'-6'' TO 5	'-Ø''	*5 @ 6'' O.C.	*4 @ 6'' O <u>.</u> C.	24''
10'-1'' TO 13'-0''	14''	11''	5'-Ø'' TO 6	'-Ø'	#5 @ 4'' O.C. REAR FACE #4 @ 12'' O.C. FRONT FACE	*4 @ 4'' O.C. REAR FACE *4 @ 12'' O.C. FRONT FACE	24''
CONCRETE NOTES:				<u>SHC</u>	DTCRETE NOTES:		
THE MINIMUM ULTIN COMPRESSIVE STI DAYS	1ATE Reng	ŧŤ₩,	AT 28	1	THE MINIMUM ULTIMATE POOL WALLS = 3000	COMPRESSIVE STRENGT	H AT 28 DAYS
POOL = 3000 SLAB-ON-GRAI	P91 DE =	300	00 PSI	2	CONTINUOUS INSPECTION	ON BY A D.S.A. APPROVE LACEMENT.	ED INSPECTOR IS REQUIRE
2 CONTINUOUS INSPECTIC	ON BY	A D	.S.A.	3	ALL CEMENT USED SH	ALL CONFORM TO A.S.T.M.	C-150 TYPE II
ALL CONCRETE PLACE	EMENT	KEQUI	RED OF	4	FINE AND COARSE AG	GREGATE SHALL CONFO	RM TO A.S.T.M. C-33.
3 ALL CEMENT USED	SHA	4LL - 150		5	SHOTCRETE MIX DESIG	ANS SHALL BE PER CBC	SECTION 1910A.2
 ④ FINE AND COARSE AG CONFORM TO ASTM C 	GREG	ATE (14×11~	3HALL 1UM SIZE	6	SHOTCRETE SHALL BE AND 1913A.5	E TESTED AND INSPECTED	O PER SECTION 1705A.3
OF AGGREGATE TO BE	E ''.			1	ANCHOR BOLTS, ANCH	ORS, DOWELS, INSERTS, E	ETC. SHALL BE
(5) CONCRETE MIX DESIG BASED UPON CBC SE	ng sh Ction	ALL E 1904	3E A.2.	8	ALL REINFORCEMENT	UITHIN SHOTCRETE SHALL	_ MAINTAIN MINIMUM 2''
© CONCRETE SHALL BE	TESTE			A	CLEAR NON-CONTACT	SPLICES.	
AND 1913A.1			Ø9A.5	9	SHOTCRETE SHALL BE	REMOVED WITHIN APPR	OXIMATELY TWO HOURS
(1) REMOVAL OF FORMS S WITH ACI 318-11 SECTIO	N 6.2	COM	IPLY		REMOVED WITHIN TWO	HOURS, IT SHALL BE REN	10/ED BY THOROUGH
(8) ALL REINFORCING SHA GRADE 60, UNLESS 0	ALL BE	E AST IISE N	IM A-615, IOTED.		WIRE BRUSHING OR 54 EIGHT HOURS OLD SH, WATER PRIOR TO REC	ND BLASTING. CONSTRUC ALL BE THORUGHLY CLE: Elving shotcrete	ANED WITH AIR AND
LAPS SHALL BE 14 BA	AR DI,	Д.		0	ALL REINFORCING SHA OTHERWISE NOTED. LA	ALL BE ASTM A-615, GRA IPS SHALL BE 14 BAR D	DE 60, UNLESS 14.
3)			REINF	-0	RCEMENT	TABLE	





) LIGHTING CONTACTOR PANEL: 'ALLEN BRADLEY' #500L; OR APPROVED EQUAL. PANEL SHALL BE MOUNTED IN A NEMA 12 HINGED COVER - LOCKABLE ENCLOSURE. CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO 'HUBBELL' #1557 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. REFER TO ELECTRICAL PLANS FOR LOCATION OF OWNER

THREE PHASE MOTOR LOADS AT 460V



MR-3 / MR-3 / MR-3 / MR-3 / MR-4 /

 $(MR-1)^{(14)}$.

COORDINATED REMOTE UNDERWATER LIGHT SWITCH.



MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED, OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- 3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT

- A COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEM LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HI FROM FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERI THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOV REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING N

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WI FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 GECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26 FOR THE MAXIMUM LOAD THE STRUCTURE CAN ACCOMODATE FOR HANGER AND BRACE LOADS REFER TO DETAIL 3/MR.7.

HEATER/GAS PIPING INSTALLATION NOTE

GAS FIRED POOL HEATER(S) INSTALLED ON A GAS SUPPLY SYSTEM UTILIZING A 2 PSI OR 5 PSI SUPPLY. GAS PRESSURE SHALL REQUIRE A REGULATOR TO REDUCE THE SUPPLY PRESSURE. A PROPERLY SIZED AND INSTALLED LOCK-UP-TYPE HIGH GAS PRESSURE REGULATOR (HGPR) SHALL BE USED TO REDUCE THE GAS PRESSURE AT THE UNIT INLET TO A MAXIMUM OF 10.5" WATER COLUMN.

'LOCHINVAR' <u>RECOMMENDS</u> THAT ANY REQUIRED LINE LOCK-UP-TYPE HIGH GAS PRESSURE REGULATOR BE INSTALLED WITH A MINIMUM OF 8 FEET TO 10 FEET OF PIPE FROM ITS DISCHARGE TO THE UNIT'S GAS INLET. IF A STRAIGHT DISTANCE OF GAS PIPE IS NOT AVAILABLE THE ADDITION OF A VERTICAL 'U' IN THE GAS PIPING DOWN STREAM FROM THE 'HGPR' CAN BE USED TO ACHIEVE THE 8 FEET TO 10 FEET OF DISTANCE.

NOTE:

REFER TO MECHANICAL PLANS FOR HEATER VENTING, EXHAUST DUCTING, FLUE TERMINUS AND PENETRATION(S) THROUGH BUILDING STRUCTURE.

	<u>E0</u> 1.	RUIPMENT ANCHORS (THIS APPLIES TO EQUIPMENT SHOWN ON THIS PLAN) EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB TZ (ICC ESSR-1917) OR
		SIMPSON STRONG BOLT (ICC ESR-ITTI) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
	2.	EXPANSION OR WEDGE ANCHORS INTO MASONRY: HILTI KB 3 (ICC ESR-1385) OR SIMPSON WEDGE-ALL (ICC ESR-1396) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
	3.	FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
16	4.	IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING INTO CONCRETE OR CMU, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR I INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE OR CMU BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION. (CONCRETE OR CMU).
ID, UNG:	5.	LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
FY E	6.	ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
	٦.	TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
OTE	8.	TEST ACCEPTANCE CRITERIA SHALL BE PER CBC 14133A.7.4 FOR POST INSTALLED ANCHORS. FIELD TEST SHALL SATISFY FOLLOWING MINIMUM REQUIREMENTS.
/ >		A. HYDRAULIC RAM METHOD:
		ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNIBLE MOVEMENT DURING THE TENSION TEST E.G., AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.
		FOR ADHESIVE ANCHORS, WHERE OTHER THAN BOND IS BEING TESTED, THE TESTING DEVICE SHALL NOT RESTRICT THE CONRETE SHEAR CONE TYPE FAILURE MECHANISM FROM OCCURING.
		B. TORQUE WRENCH METHOD:
		ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN $\frac{1}{2}$ TURN OF THE NUT.
	9,	WHEN POST-INSTALLED ANCHORS ARE USED FOR OTHER STRUCTURAL APPLICATIONS, ALL ANCHORS SHALL BE TESTED.
		WHEN POST-INSTALLED ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE, 50 PERCENT OR ALTERNATE BOLTS IN GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP,

THE TESTING OF THE POST-INSTALLED ANCHORS SHALL BE DONE IN THE

SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY.

PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS

B. WHERE THE FACTORED DESIGN TENSION ON ANCHORS IS LESS THAN 100 165. AND

THOSE ANCHORS ARE CLEARLY NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS, ONLY 10 PERCENT OF THOSE ANCHORS SHALL BE TESTED.

SHALL BE TESTED.

EXCEPTIONS:

LEGEND

37	=	BALL VALVE
BFV	=	BUTTERFLY VALVE
	=	CHECK VALVE
Μ	=	FLOWMETER
4I	=	ACID INJECTION
I	=	CHLORINE INJECTION
Ч	=	PIPE HANGER
D	=	FLOOR DRAIN
6	=	FLOOR SINK



MR-1





	RECESSED				$\frac{1}{4}$						\bigcirc (
ESCRIPTION	•		ΨA	ΨD	ΨΟ	<u> NO.</u>	<u>- 10</u>	DESC	NIF I	IUN.		
						2						
		5				4						
						6						
						8						
		9				10						
						12						
		13				14						
		15				16						
		17	I			18						
		19		L		20						
		21				20						
		23										
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		27				26						
		29				28						
		.31		[30						
		33]		32						
		35				34						
				-		36						
		3/				38						
		39				40						
		41				42						
OTAL PER	PHASE								- 12ØV		AM	PS
25% L.C.L	•											
DTAL						1						
J GET CIRCUIT												







MR-6

MENU	No	SUB-MENU		DESCRIPTIC	N		CODE	ADJ.
SIM	1.1			2/3 WIRE CO	ONTROL		tCC	2C
SIM	1.1			PUMPS FAN	9		CFG	PnF
SIM	1.1			STANDARD	MOT, FREQ (HZ)		bFr	60
SIM	1.1			ACCELERA	TION (SEC)		ACC	10
SIM	1.1			DECELERA	TION (SEC)		dEC	10
SIM	1.1			LOW SPEED)(HZ)		LSP	3
SIM	1.3			SWITCHING	FREQ. (HZ)		SCr	8
- 0	1.5			2 WIRE TYP	Ê		tCt	LEL
1-0	1.5	Al2 CONFIG.		AI2 MIN. VA	LUE (mA)		Crl2	4
1-0	1,5	R2 CONFIG.		R2 ASSIGN	- DRIVE RUNNING		r2C	rUn
CtL	1.6			REF. 1 CHAN	١		FRI	HMI
CtL	1.6						FRI	All
CtL	1.6			PROFILE			CHCF	SEP
FUn	1.7	STOP CONF	G.	FREEWHEEL	STOP ASSIGN		nST	LI2
FUn	1.7	REFERENCE	SWITCH	REF. IB SWI	TCHING		rCb	LI3
FUn	1.7	REFERENCE	SWITCH	REF. 1B CH,	AN		Frib	
FLt	1.8	FAULT RESE	T	FAULT RES	ET		rSF	L14
FLt	1.8	CATCH ON -	THE FLY	CATCH ON			FLR	YES
FLt	1.8	OUTPUT PHA	ASE LOSS	OUTPHASE	LOSS		PDL	NO
COM	1.9	FORCED LC	DCAL	FORCED L	OCAL ASSIGN.		FLt	L14
D	ESCR	IPTION	TYPE	E 1	TYPE 12K	רד	PE 3R	
+ 5 ⁻		IG FANS	10-100 HP 4 7.5-50HP 20	60Y, 08/230Y	10-100 HP 460V, 7.5-50HP 208/230V	NA		
+ M	ENTIL	IATION FAN	NA		NA	ALL HP		
+ 51	PACE	HEATER	NA		NA	ALL HP		

JUMPER USED WHEN START-STOP PUSH BUTTONS NOT USED. <u>/9</u>

BECS RUN COMMAND RELAY (BRCR) <u>/8</u>

<u>/6</u>

NOTES:

 $\langle 1 \rangle$ CONTROL TRANSFORMER SHOWN FOR 460V PRIMARY, FOR 230V PRIMARY, JUMPER H2-H3 IS 2REMOVED AND JUMPERS HI-H3. AND H2-H4 ARE INSTALLED. FOR 208V PRIMARY, REFER TO DETAIL A. PROGRAMMED 1/0 SEE CONTROLLER FUNCTION CONFIGURATION TABLE.

EKO-FLEX ATV61 FACTORY CONFIGURATION

RCR TIMED CONTACT USED ONLY IF LINE CONTACTOR IS SUPPLIED









MR-7

ABBREVIATIONS

S/DP	4" SQUARE BY 2 1/8" DEEP BOX	LTG, LTS	LIGHTING
DA	AMERICAN WITH DISABILITIES ACT	LPS	LOW PRESSURE SODIUM
F.F.	ABOVE FINISH FLOOR	MAX.	MAXIMUM
FG	ABOVE FINISH GRADE	MDE	MAIN DISTRIBUTION FRAME
		MOCD	
		MCR	
		MCB	
.I.C.	AMPERES IN FERRUPTING CAPACITY	MLO	MAIN LUGS ONLY
	(SYMMETRICAL)	M.C.	MECHANICAL CONTRACTOR
7/AT	AMP FRAME, AMP TRIP	М	METER
'HJ	AUTHORITY HAVING JURISDICTION	M/M	METER MAIN
S/AF	AMP SWITCH, AMP FUSE	MV	MERCURY VAPOR
TS	AUTOMATIC TRANSFER SWITCH	MH	
		IVII I Raini	
vG		MIN.	
DF	BUILDING DISTRIBUTION FRAME	MCA	MINIMUM CIRCUIT AMPS
BR	BRANCH	MCC	MOTOR CONTROL CENTER
_DG	BUILDING	MCM	THOUSAND CIRCULAR MILS
EC	CALIFORNIA ELECTRICAL CODE	MCP	MOTOR CIRCUIT PROTECTOR
СКТ.	CIRCUIT	MFR.	MANUFACTURER
B	CIRCUIT BREAKER	MTD	MOUNTED
		NAVA/	
		IAIAA	
		N	NEW EQUIP.
.O.	CONDUIT ONLY, COMPLETE WITH	NATS	NON AUTOMATIC DISCONNECT
	PULLSTRING	NEC	NATIONAL ELECTRICAL CODE
DNN	CONNECTED	NEMA	NATIONAL ELECTRICAL
PT	CONTROL POWER TRANSFORMER		MANUFACTURERS' ASSOCIATION
CB	CURRENT LIMITING CIRCUIT BREAKER	NC	NORMALLY CLOSED
1 E		NO	
		NF	NON-FUSED
DIA	DIAMETER	NIC	NOT IN CONTRACT
ISC	DISCONNECT	N.T.S.	NOT TO SCALE
IST	DISTRIBUTION	NL	NIGHT LIGHT
E	EXISTING EQUIP. TO REMAIN	NO. or #	NUMBER
0	ELECTRICAL CONTRACTOR	OFCI	OWNER FURNISHED CONTRACTOR
MQ	ENERGY MANAGEMENT CONTROL		INISTALLED
IVIS		0/ 7	
	STSIEM	% Z	
MI	ELECTRICAL METALLIC TUBING	PH. or ~	PHASE
NT	ELECTRICAL NON-METALLIC TUBING	PC	PHOTOCELL
WC	ELECTRIC WATER COOLER	P.C.	PLUMBING CONTRACTOR
P.O.	EMERGENCY POWER OFF	Р	POLE
01	END-OF-LINE CIRCUIT TERMINATOR	PVC	
-/G	EQUIPMENT GROUND (GREEN)	PRIMARY	OVER 600 VOLIS
ΞP	EXPLOSION PROOF	PROVIDE	FURNISH, INSTALL AND CONNECT.
R*	EXISTING EQUIP. TO BE REOLCATED	PT	POTENTIAL TRANSFORMER
	(* CORRESPONDS TO NEW LOCATION)	PA	PUBLIC ADDRESS
RT*	NEW LOCATION FOR REOL CATED FOUIP.	REC. RECEPT	RECEPTACI E
	(* CORRESPONDS TO PREVIOUS LOCATIO		
!			
or		RGS	
-A		RMS	ROOT MEAN SQUARE
LA	FULL LOAD AMPS	SCC	SHORT CIRCUIT CURRENT
RD	GROUND	SCS	STRUCTURED CABLING SYSTEM
FCI	GROUND FAULT CIRCUIT INTERRUPTER.	SFD	SMOKE FIRE DAMPER
FP	GROUND FAULT PROTECTION	SECONDARY	600 VOLTS AND LESS
FC	GROUNDING ELECTRODE CONDUCTOR	SMACNA	
ACK		20	CONTRACTORS NATE ASSOC.
	REFRIGERATION	SQ.	SQUARE
OA	HAND-OFF-AUTO	TC	TIMECLOCK
/AC	HEATING, VENTILATING AND AIR	TEL/DATA	TELEPHONE AND DATA
	CONDITIONING	TV	TELEVISION
וחי	HEIGHT WIDTH DEPTH LENGTH	TVSS	TRANSIENT VOLTAGE SURGE
-,, HD	HIGH INTENSITY DISCHARGE		SUPPRESSION
		TVD	
175	HIGH PRESSURE SODIUM	U.G.P.S.	UNDERGROUND PULL SECTION
. or "	INCHES	U.O.N.	UNLESS OTHERWISE NOTED
/G	ISOLATED GROUND	U.P.S.	UNINTERRUPTABLE POWER SYSTEM
DF	INTERMEDIATE DISTRIBUTION FRAME	VAV	VARIABLE AIR VOLUME
SOX	JUNCTION BOX	V	VOLTS
K		\/A	
		VA	
MIL	THOUSAND CIRCULAR MILS	VD	
VA	KILOVOLT AMPERES	WP	WEATHERPROOF
Ŵ	KILOWATT	W	WIRE
WH	KILOWATT HOUR	XFMR	TRANSFORMER
CL	LONG CONTINUOUS LOAD	XX	EXISTING EQUIP. TO BE DEMO'D
F		~ ~ `	



EF 2 $\left(3 \right)$ E-1 FR1 \mathbf{X} \triangle Y.

LOW VOLTAGE SYSTEM SYMBOLS

NOTE: ELECTRICAL CONTRACTOR TO REFERENCE LOW VOLTAGE TELEPHONE/DATA, SEC AND A/V PLAN FOR ADDITIONAL LOW VOLTAGE DEVICE LOCATIONS, ROUGH-IN REQUIRME	URIT
CONDUIT/INFRASTRUCTURE REQUIREMENTS, AND ALL OTHER REQUIREMENTS FOR COMP AND OPERTIONAL SYSTEM.	PLET

FLOOR BOX / SPECIALTY WALL BOX SYMBOLS

SINGLE SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE SPECIFICATIONS FOR MORE INFORMATION.

TWO SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE SPECIFICATIONS FOR MORE INFORMATION.

THREE SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE SPECIFICATIONS FOR MORE INFORMATION.

FOUR SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE SPECIFICATIONS FOR MORE INFORMATION.

SIX SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE SPECIFICATIONS FOR MORE INFORMATION.

ANNOTATIONS

MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.

DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.

 Δ DELTA CONFIGURATION

LIGHTING FIXTURE DESIGNATION

PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED. **REVISION REFERENCE.**

WYE CONFIGURATION

GROUND

ADA DEVICE MOUNTING DETAIL



\frown .	
$\mathbf{y}_{\mathbf{A}}$	DECORATIVE PENDANT "A" INDICATES BALLAST SPE ON SHEET E0.40
A 	SURFACE MOUNTED FLUORESCENT STRIP LIGHTING CONNECTION POINT INDICATES FIXTURE WITH EME 1100 LUMEN OUTPUT). "NL" INDICATES FIXTURE ON M BALLAST SPECIFICATION. SEE BALLAST SCHEDULE O
A	CHAIN HUNG FLUORESCENT STRIP LIGHTING FIXTUI INDICATED ON FIXTURE SCHEDULE. "EM" AND/OR SH FIXTURE WITH EMERGENCY BATTERY PACK (MINIMU INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT. "A" IN SEE BALLAST SCHEDULE ON SHEET E0.40
O ^	DECORATIVE SURFACE MOUNTED FLUORESCENT LI BALLAST SPECIFICATION. SEE BALLAST SCHEDULE
A	SURFACE MOUNTED FLUORESCENT WRAPAROUND INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT. "A" I SEE BALLAST SCHEDULE ON SHEET E0.40
A 🚺 A	RECESSED FLUORESCENT LIGHTING FIXTURE. "NL" CIRCUIT. "A" INDICATES BALLAST SPECIFICATION. S E0.40
	RECESSED DIRECT/ INDIRECT LIGHT FIXTURE. "A" IN
	SEE BALLAST SCHEDULE ON SHEET E0.40 RECESSED LINEAR LED/ FLUORESCENT LIGHTING FI NIGHT LIGHT CIRCUIT. "A" INDICATES BALLAST SPE ON SHEET E0.40
	PENDANT LINEAR LED/ FLUORESCENT LIGHTING FIX
0 0	NIGHT LIGHT CIRCUIT. "A" INDICATES BALLAST SPE ON SHEET E0.40
<u> </u>	RECESSED LINEAR LED/ FLUORESCENT ASYMMETR INDICATES FIXTURE ON NIGHT LIGHT CIRCUIT. "A" I SEE BALLAST SCHEDULE ON SHEET E0.40
ΠΑΟΑ	RECESSED OR SURFACED MOUNTED DOWN LIGHTIN ON NIGHT LIGHT CIRCUIT. "A" INDICATES BALLAST S SCHEDULE ON SHEET E0.40
	RECESSED WALLWASHER LIGHTING FIXTURE. "A" IN SEE BALLAST SCHEDULE ON SHEET E0.40
â a ô a	RECESSED ADJUSTABLE WALLWASHER LIGHTING FI
-ቍ - ^ -ቍ - ^	SURFACE MOUNTED DOWNLIGHT. "A" INDICATES BA
	WALL MOUNTED LIGHTING FIXTURE. "A" INDICATES BALLAST SCHEDULE ON SHEET E0.40
A A	SINGLE OR TWO CKT. LIGHTING TRACK AS SPEC'D IN INDICATES BALLAST SPECIFICATION. SEE BALLAST S
	SURFACE MOUNTED ADJUSTABLE LINEAR WALLWAS SPECIFICATION. SEE BALLAST SCHEDULE ON SHEE
	CONCEALED LINEAR LIGHT STRIP. "A" INDICATES BA SCHEDULE ON SHEET E0.40
+4	CONCEALED LIGHT STRIP. "A" INDICATES BALLAST S SCHEDULE ON SHEET E0.40
OO A	RECESSED MULTI-LAMP ADJUSTABLE DOWNLIGHT. SPECIFICATION. SEE BALLAST SCHEDULE ON SHEE
— A	WALL STEP LIGHTING FIXTURE. "A" INDICATES BALL SCHEDULE ON SHEET E0.40
╋०╋०	BOLLARD TYPE LIGHTING FIXTURE. PROVIDE CONC REQUIREMENTS. "A" INDICATES BALLAST SPECIFIC/ SHEET E0.40
< → ∧	LANDSCAPE FLOOD LIGHTING FIXTURE. "A" INDICAT BALLAST SCHEDULE ON SHEET E0.40
⊶ □ ^	POLE MOUNTED H.I.D. LIGHTING FIXTURE. "A" INDICA BALLAST SCHEDULE ON SHEET E0.40
8	ILLUMINATED EXIT SIGN WITH NUMBER OF FACES AI AS INDICATED.
	LOW LEVEL EXIT SIGN AS SPECIFIED ON LIGHTING F
	EGRESS EMERGENCY BATTERY PACK LIGHT FIXTUR
•	"EM" AND/OR SHADED CONNECTION POINT INDICATI BATTERY PACK (MINIMUM 1100 LUMEN OUTPUT) OR
	OCCUPANCY SENSORS
H IO	WALL MOUNTED INFRA-RED OCCUPANCY SENSOR. SINGLE SWITCH AND "WI 300" FOR "ab" SWITCHING O ADA MOUNTING DETAIL THIS SHEET - UON OR REQU
DO	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY S WITH POWER PACK OR EQUAL. MOUNTING HEIGHT SHEET - UON OR REQUIRED.
⊦© ab	VACANCY SENSOR (MANUAL ON), MOUNTING HEIGH SHEET - UON OR REQUIRED. LETTERS "ab" INDICATE SWITCH LEGS TO BE CONFIGURED IN A "MANUAL ON
⊦UO ab	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOF RELAY SENSOR. MOUNTING HEIGHT PER ADA MOUN REQUIRED.
©\$ _m	CEILING MOUNTED OCCUPANCY SENSOR. "m" INDIC. (OR EQUAL) WITH POWER PACK AND HVAC CONTRO SENSOR.
(50) D _{x*}	AUTOMATIC CONTINUOUS DIMMING DAYLIGHTING C WHEN SUFFICIENT NATURAL LIGHT IS PRESENT. NU THE AVERAGE WORKPLANE "TARGET ILLUMINATION CASE LETTERS "x*" INDICATES SWITCH LEG(S) CONT

LOW VOLTAGE (LV) WIRING BETWEEN OCCUPANCY, DAYLIGHT SENSORS, AND/OR LV SWITCHES. QUANTITY AND SPECIFICATIONS OF WIRE PER MANUFACTURER REQUIREMENTS.

LIGHTING SYMBOLS

PECIFICATION. SEE BALLAST SCHEDULE
NG FIXTURE. "EM" AND/OR SHADED ERGENCY BATTERY PACK (MINIMUM I NIGHT LIGHT CIRCUIT. "A" INDICATES E ON SHEET E0.40
URE. MOUNTING HEIGHT TO BE AS SHADED CONNECTION POINT INDICATES //UM 1100 LUMEN OUTPUT). "NL" INDICATES BALLAST SPECIFICATION.
LIGHTING FIXTURE. "A" INDICATES E ON SHEET E0.40
D TYPE LIGHTING FIXTURE. "NL" ' INDICATES BALLAST SPECIFICATION.
" INDICATES FIXTURE ON NIGHT LIGHT . SEE BALLAST SCHEDULE ON SHEET
INDICATES BALLAST SPECIFICATION.
FIXTURE. "NL" INDICATES FIXTURE ON PECIFICATION. SEE BALLAST SCHEDULE
IXTURE. "NL" INDICATES FIXTURE ON PECIFICATION. SEE BALLAST SCHEDULE
RICAL LIGHTING FIXTURE. "NL" INDICATES BALLAST SPECIFICATION.
ING FIXTURE. "NL" INDICATES FIXTURE
INDICATES BALLAST SPECIFICATION.
FIXTURE. "A" INDICATES BALLAST EET E0.40
BALLAST SPECIFICATION. SEE BALLAST
S BALLAST SPECIFICATION. SEE
IN LTG. FIXTURE SCHEDULE. "A" I SCHEDULE ON SHEET E0.40
ASHER. "A" INDICATES BALLAST ET E0.40
BALLAST SPECIFICATION. SEE BALLAST
SPECIFICATION. SEE BALLAST
. "A" INDICATES BALLAST EET E0.40
LLAST SPECIFICATION. SEE BALLAST
CRETE FOOTING PER MFGRS. CATION. SEE BALLAST SCHEDULE ON
ATES BALLAST SPECIFICATION. SEE
CATES BALLAST SPECIFICATION. SEE
AND DIRECTION OF EGRESS ARROWS
FIXTURE SCHEDULE.
JRE (BUGEYE).
TES FIXTURE WITH EMERGENCY R FIXTURE ON EMERGENCY INVERTER.
R. USE WATTSTOPPER "WI 200" FOR OR EQUAL. MOUNTING HEIGHT PER QUIRED.
Y SENSOR. USE WATTSTOPPER "DT 200" T PER ADA MOUNTING DETAIL THIS
GHT PER ADA MOUNTING DETAIL THIS TES DUAL RELAY SENSOR. BOTH DN" CONFIGURATION.

OR. LETTERS "ab" INDICATES DUAL JNTING DETAIL THIS SHEET - UON OR

CATES WATTSTOPPER "DT* SENSOR OL RELAY. "s" INDICATES SATELLITE

CONTROLLER USED TO DIM LIGHTS UMBER IN PARENTHESIS INDICATES N" SYMBOL VALUE. ADJACENT LOWER ITROLLED.

POWER SYMBOLS

	- OTER OTHEOLO
₽	DUPLEX RECEPTACLE - MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED.
₩	DOUBLE DUPLEX RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED. DUPLEX, GFCI RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED.
	WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS. DOUBLE DUPLEX, GFCI RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS
	NOTED. WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
	DUPLEX RECEPTACLE WITH USB - MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS
	NOTED. DOUBLE DUPLEX RECEPTACLE WITH USB - MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS
	OR AS NOTED.
Ŕ	SIMPLEX RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED. SPECIAL RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED. REFER TO
Φ	PLAN NOTES. DUPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
+	DOUBLE DUPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
Ф 8	SIMPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
-	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS -
#	DOUBLE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ADA DEVICE MOUNTING
-8	REQUIREMENTS - UON OR REQUIRED. DUPLEX, GFCI RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS
#	- UON OR REQUIRED. WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS. DOUBLE DUPLEX, GFCI RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS - UON OR REQUIRED. WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.
-8	SIMPLEX RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS -
R	UON OR REQUIRED. SPECIAL RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS -
ю	UON OR REQUIRED.
.e Ø	JUNCTION BOX, MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN. 4S/DP MINIMUM OR
Ŵ	ELECTRICAL CONNECTION TO INTERACTIVE MARKER-BOARD. COORDINATE CONNECTION TYPE AND
	WITH ARCHITECT AND DISTRICT EQUIPMENT INSTALLER PRIOR TO ROUGH-IN OF ELECTRICAL.
	SURFACE MOUNTED MULTI-OUTLET ASSEMBLY. REFER TO GENERAL PRODUCT SPECIFICATIONS. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION.
Ю Ф	THERMOSTAT OUTLET BOX, PROVIDE 1/2"C.O. TO RESPECTIVE MECHANICAL UNIT.
~~ 	LOAD REQUIREMENTS OR AS NOTED.
	SURFACE MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.
	DISTRIBUTION SWITCHBOARD. REFER TO SINGLE LINE DIAGRAM.
Т	TRANSFORMER, REFER TO SINGLE LINE DIAGRAM.
۴Ē	FUSED DISCONNECT SWITCH, HP RATED, OR COMBINATION MOTOR STARTER/DISCONNECT SWITCH WITH FUSES PER EQUIPMENT MANUFACTURER AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT AND STARTER SIZES.
4	MOTOR STARTER COMBINATION SWITCH WITH HOA SELECTOR SWITCH, ON "RUNNING LIGHT" RESET AND
ا ت	NON-FUSED DISCONNECT SWITCH, HP RATED AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION
	TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT SIZES.
	CIRCUIT BREAKER, LINE 1 REPRESENTS FRAME SIZE/RATING; LINE 2 REPRESENTS TRIP SIZE/RATING; LINE 3
	REPRESENTS NUMBER OF POLES AND LINE 4 REPRESENTS MISCELLANEOUS BREAKER INFO. (SEE BELOW): SHUNT = PROVIDE SHUNT TRIP MECHANISM.
) 150AT 3P	GFP = GROUND FAULT PROTECTION CLCB = CURRENT LIMITING CIRCUIT BREAKER
•	
60AS	FUSIBLE SWITCH: LINE 1 REPRESENTS SWITCH SIZE/RATING; LINE 2 REPRESENTS NUMBER OF POLES; LINE 3 REPRESENTS FUSE SIZE/RATING; LINE 4 REPRESENTS FUSE TYPE; LINE 5 REPRESENTS MISCELLANEOUS FUSE INFO. (SEE BELOW):
	SHUNT= PROVIDE SHUNT TRIP MECHANISM. GFP = GROUND FAULT PROTECTION
	J GROUND CONNECTION SIZE AS INDICATED OR AS REQUIRED
₽ Sab	SINGLE POLE SWITCHES, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS. SUBSCRIPTS AT
4 an	2 - DOUBLE POLE K - KEY OPERATED R - REMOTE CONTROL 3 - THREE WAY LV - LOW VOLTAGE
	4 - FOUR WAY M - MOTOR STARTING D - LOW VOLTAGE DIMMER P - PILOT LIGHT
	NOTE: ALL WALL SWITCHES CONTROLLING EMERGENCY CIRCUITS SHALL BE ENGRAVED WITH "EMERGENCY"
	RECESSED COMBINATION POWER OUTLET FOR IN FLOOR BOX PER PLAN FOR FLEXIBLE CONNECTION TO
	FURNITURE SYSTEM. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.
IÔ	POWER OUTLET OUTLET, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS. FOR FLEXIBLE CONNECTION TO FURNITURE SYSTEM PROVIDE THE FOLLOWING:
	 IN A NON-RATED INSULATED WALL, OR NON-RATED UNINSULATED WALL, PROVIDE A 2-GANG MUD RING OR CADDY #RBS SERIES BOX MOUNTING BRACKET (EQUAL BY B-LINE OR RAYCO) WITH (2) 1-1/4"C.O. WITH PULL
	STRING TO ACCESSIBLE CEILING. PROVIDE 1-1/4" BUSHINGS AT CONDUIT ENDS. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION/TYPE AND CEILING CONDITIONS.
	IN A RATED WALL, PROVIDE (1) 4S/DP BOX WITH (2) 1-1/4"C.O. AND (1) 4S/DP BOX WITH (1) 1-1"C.O. WITH PULL STRINGS IN EACH CONDUIT TO ACCESSIBLE CEILING. PROVIDE 1-1/4" BUSHINGS AT CONDUIT ENDS. UTILIZE CADDX #PRS SERIES BOX MOUNTING BRACKET TO MAINTAIN BOX ALIGNMENT. (FOULD, BY BLINE OR
	RAYCO)UTLIZE FIRESTOPPING SYSTEM PADS RATED FOR USE ON THE INSIDE OR OUTSIDE OF THE BOX (STI OR EQUAL) AS REQUIRED TO MAINTAIN RATING OF WALL OR MEMBRANE. REFER TO ARCHITECTURAL PLANS
	FOR WALL CONSTRUCTION/TYPE AND CEILING CONDITIONS.
	BRANCH CIRCUIT SYMBOLS
A-1,3,5	HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS. HASH MARKS INDICATE NUMBER OF CONDUCTORS IN CONDUIT RUN, #12 AWG MINIMUM UNLESS OTHERWISE NOTED.
· ····	- #12 UNDERGROUND CIRCUIT WIRE (HOT): NUMBER OF HATCH MARKS INDICATE NUMBER OF #12 AWG CONDUCTORS
	- #12 GROUNDED CIRCUIT WIRE (NEUTRAL)
	~#12 GROUND WIRE -#12 ISOLATED GROUND WIRE.
I	FOR CLARITY, I.G. MARKS ARE SHOWN ON THE HOME RUN ONLY. CONTRACTOR SHALL MAINTAIN THE ISOLATED GROUND CONDUCTOR TO THE FINAL CONNECTION OF ANY DEVICE SERVED.
	CONCEALED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG
	CONCEALED CONDUIT OR BRANCH CIRCUIT ROUTED IN FLOOR SLAB OR CONCRETE. COORDINATE
	INSTALLATION WITH GENERAL CONTRACTOR AND SUPPORT AS REQUIRED. 1/2" CONDUIT (2) #12 AWG CONDUCTORS MINIMUM. CONDUIT OR BRANCH CIRCUIT CONCEALED BELOW GRADE -3/4" CONDUIT MINIMUM WITH (2) 12 AWG
	CONDUCTORS MINIMUM AND A CODE SIZED EQUIPMENT GROUND.
	#12 AWG CONDUCTORS MINIMUM. CONDUIT SHALL BE PAINT TO MATCH ADJUCENT SURFACE. COORDINATE COLOR WITH ARCHITECT/INTERIORS.

CONDUIT STUB OUT, CAP, MARK AND RECORD ON AS-BUILT DRAWINGS **CONDUIT CONTINUATION.** FLEXIBLE CONNECTION AS REQUIRED. NUMBER OF CONDUCTORS AS REQUIRED. VERIFY CONNECTION 3 REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. _____ CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION DOWN WALL TO FLOOR BELOW CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION UP WALL TO FLOOR ABOVE _____0 FLUSH MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED. SURFACE MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED. TELEPHONE TERMINAL BACKBOARD SIZED AS NOTED, REFER TO SYSTEM GROUND DETAIL.

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School Center



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FEEDER	CONDUIT AND CONDUCTORS	LOAD	DISTANCE	V.D.	A.I.C.	NOTES
MSB-1	(4) 4"C4#350MCM, 1#3/0 GRD. IN EACH	-	-	-	-	-
MSB-2	(5) 4"C4#500MCM, 1#4/0 GRD. IN EACH	-		-	-	-
MSB-3	(5) 4"C4#500MCM, 1#4/0 GRD. IN EACH	-		-	-	-
MSB-4	(5) 4"C4#500MCM, 1#4/0 GRD. IN EACH	-		-	-	-
MSB-5	(2) 3"C4#250MCM, 1#2 GRD. IN EACH	-	-	-	-	-
MSB-6	(2) 3"C4#250MCM, 1#2 GRD. IN EACH	-	-	-	-	-
MSB-7	(2) 3"C4#250MCM, 1#2 GRD. IN EACH	-	-	-	-	-
-	_	-	-	-	-	-



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1. XX 2. XX	SITE GENERAL NOTES	
3. X 4. X		
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KEYNOTES

