

# CULVER CITY PARK - PARK TO PLAYA

## BALDWIN HILLS SCENIC OVERLOOK - SEGMENT 7

### HIKING TRAIL CONNECTION TO BALLONA CREEK WALKING / BIKE PATH

#### GENERAL NOTES

- In no case shall work be scaled from plans or details. For any work specifically outside the scope described in Item 1a, Refer to dimensions shown on drawings only. If a dimension is missing, notify the Structural engineer prior to installing work. Larger scale drawings shall take precedence over smaller scale drawings. Dimension lines are to face of concrete or face of stud, unless noted otherwise. At existing conditions, dimensions are to face of existing wall (F.O.W), whether it be concrete or gypsum construction.
- Contractor and Subcontractors shall be responsible for construction, workmanship and materials conforming to all applicable local, city, state and federal regulations, ordinances and codes, latest edition. Code requirements take precedence over the drawings.
- All work shall be in full accordance with the 2016 Edition of the California Building Code, and all local codes and ordinances adopted with the latest rules of OSHA. Nothing in these plans or specifications shall be construed to permit work not according to Code.
- EXAMINATION OF THE SITE** - Before submitting his/her bid, the Contractor shall examine the site and compare it with the plans and notes and to satisfy her/himself as to the conditions under which this work will be performed. The Contractor shall at that time ascertain the condition of the existing structures and equipment that may affect this work. She shall likewise determine with the Owner under what Security conditions, or special hours of operation limitations, the work shall be performed. No allowance shall subsequently be made for the Contractor's failure or neglect to make such examinations or determinations. The Contractor shall verify all quantities before submitting his/her bid.
- All work shall be performed in accordance with the property Building Standards and Procedures such as (but not limited to) equipment, system and material standards, work schedule, delivery times and locations, debris disposal, cleaning, etc. The Contractor is responsible for contacting the building personnel to verify all Building Standards and Procedures prior to any construction.
- The Contractor shall report to the Structural engineer any error or omission discovered in the drawings or any inconsistencies between the drawings and field conditions, prior to commencing work. It shall be the responsibility of the Contractor to verify and account for existing conditions and dimensions prior to starting work, including utilities and all other works and facilities that affect this project. After the start of construction, the Contractor shall be responsible for any time delays and corrective measures which arise from errors, omissions and inconsistencies which have not been brought to the attention of the Architect. Corrective measures shall be implemented without cost to the Architect or Owner.
- The Contractor shall pay all fees, miscellaneous costs, and obtain and pay for all permits necessary to complete all work. Before final acceptance of any part of the work the Contractor shall furnish the Project Manager with appropriate "Certificates of Inspection" stating that work has been inspected and approved by the Building Department.
- The Contractor shall insure that all work drawn, specified or essential for the completion of the same is accounted for in the contracts of his sub-contractors (when appropriate) and is accounted for and reflected in the base bid.
- The Contractor agrees to furnish and transport all necessary labor, materials, tools, and implement required to perform and completely finish in a workmanlike manner to the satisfaction and approval of Owner, with all applicable building codes and zoning regulations applicable to the subject premises.
- The Contractor and Subcontractors shall maintain liability and worker's compensation insurance to protect themselves and their workers and shall hold the Owner and the Architect harmless from any and all claims for damages for personal or bodily injury or death or property damage during the course of construction. Contractors and subcontractors performing work on or related to these plans shall conduct their operations so that all employees are provided a safe place to work and the public is protected. All contractors and subcontractors shall comply with the "Occupational Safety and Health Regulations" of the U.S. Dept. of Labor and with the State of California Dept. of Industrial Relations, "Construction Safety Orders."
- During the life of the Contract the Contractor shall provide and pay for all temporary sanitary facilities and all temporary power, water, heat, fences, lighting, barricades, protection, scaffolding, shoring, stairs, etc., as required for the timely completion of the work, unless otherwise stated in Item 11b, or agreed to in writing. All above provisions shall be in compliance with all applicable codes and ordinances.
- Work on this specific project is to be performed during normal working hours.
- The Contractor will be fully responsible for supervision of all work done by any of his subcontractors. The Contractor's responsibility for such supervision shall include all aspects of such work, including without limitation the speed, quality and safety thereof. All subcontractors employed by the Contractor shall be duly licensed, unless otherwise approved by Owner, in writing.
- The Contractor guarantees that the work performed will be free from faulty materials and workmanship. On receiving notification from the Owner, the Contractor agrees to remedy, repair or replace immediately, without cost to the owner and to the owner's satisfaction, all defects and imperfections. It shall be understood, unless otherwise noted, that all materials and workmanship shall be guaranteed for a period of one year by the Contractor from the acceptance of the project by the Owner.
- The Contractor shall notify the Owner of any extra costs arising from the execution of his Contract or his subcontracts and shall receive written Owner's approval of extra costs prior to the work involved.
- All construction documents are complementary. What is specified by any construction document will be binding as if specified by all construction documents. Any work shown or referred to on any construction document shall be provided as shown on all related documents.
- The construction documents are provided to illustrate the design and general type of construction desired, and imply the finest quality of construction, material and workmanship. The Contractor, in assuming responsibility for the work indicated, shall comply with the spirit as well as the letter in which they were drawn.
- Incidental items not indicated on the drawings or mentioned in the specifications that can be legitimately and reasonably inferred to belong to the work described or be necessary in good practice to provide a complete installation or system shall be provided and be installed as though called out herein in every detail.
- Work done in the absence or without the consent of the Owner, or any work done without written authority, will be considered as unauthorized and at the expense of the contractor.
- The location of the utilities, if indicated, on the plans is not guaranteed to be accurate or complete, but is plotted for the general information of the Contractor. It shall be the responsibility of the Contractor to determine the exact location of all utilities and their service connections. The Contractor shall make necessary measures for protecting and supporting any utilities that occur in the limits of the work.
- The Contractor shall lay out the work and establish all points, grades, and levels which are shown on the drawings. If they do not conform with the physical conditions of the proposed work, immediately notify the Architect who will make the necessary revisions or corrections. Set all grade stakes and protect them in place as long as may be required by all trades and crafts.
- The Contractor shall protect areas from damage which may occur during construction. Any damage to new and existing construction, structure or equipment shall be the Contractor's responsibility and shall be immediately repaired or replaced to the satisfaction of the owner at the expense of the general contractor.
- TEMPORARY BRACING** - It shall be the responsibility of the Contractor to install all temporary bracing and shoring to insure the safety of the work until it is in its completed form.
- REPAIR** - The Contractor shall repair and or repaint any damage to existing structures or surfaces caused by demolition or construction in the course of performing this work and shall finish to match adjoining surfaces.
- All dust and noise created by the work shall be kept to a minimum.
- The Contractor shall provide sufficient means for protecting existing site features, furnishings, etc., and new construction and materials, from damage by weather or vandals for the course of the project.
- The Contractor shall follow general construction industry standards and manufacturer's instructions for all products unless specifically identified by the design documents.
- SHOP DRAWINGS** - Shop drawings, catalogue cuts, data sheets, and samples shall be provided as required by the design documents.
- SUBMITTALS** for this work shall include, but not be limited to: Mill Certifications for Structural Steel, Rods, Angles, Channels and Reinforcing Bars. Concrete and Grout Submittals shall include mix designs to be approved by the Structural Engineer. See plans for additional submittal requirements.
- The Contractor shall submit to the owner a detailed construction schedule indicating phasing of work from start to completion.
- All work listed, shown, or implied on any construction document shall be supplied and installed by the general contractor, unless otherwise noted. The Contractor shall closely coordinate his work with that of sub-contractors or vendors to assure that all schedules are met and all work is done in conformance to manufacturers requirements.
- The Contractor shall provide the minimum insurance as required by the Client.
- The Contractor shall maintain a current and complete set of construction documents on the job site during all phases of construction for use of all trades and shall provide all sub-contractors with current construction documents as required.
- RECORD DRAWINGS** - The Contractor shall request a complete set of prints which shall be maintained in good order at the site. All differences between the locations or arrangements indicated on these drawings and those of the actual installation shall be recorded in red pencil on the set. At the end of the project and prior to final payment, the Contractor shall sign and date each "as built" drawing as being a correct and accurate representation of the work, and shall submit the complete package to the Owner.
- The Contractor shall remove all rubbish and waste materials on a regular basis, of all sub-contractors and trades. He shall observe, follow and implement all the requirements of NPDES and Stormwater Pollution Prevention Program. He shall exercise strict control over job cleaning throughout construction including final clean up upon completion of work.
- No substitution shall be made for any material, article, method or process herein specified or shown on the drawings unless approved by the architect or engineer.
- CONSTRUCTION OBSERVATION** - The Engineers shall have access to the work at all times for the purpose of observing construction.

#### NOTICE TO CONTRACTORS

#### GENERAL NOTES - CIVIL ENGINEERING

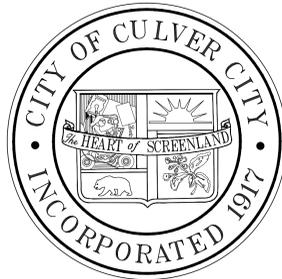
- ANY MODIFICATIONS OF OR CHANGES TO APPROVED GRADING PLANS MUST BE APPROVED BY THE BUILDING OFFICIAL.
- NO GRADING SHALL BE STARTED WITHOUT FIRST NOTIFYING THE BUILDING OFFICIAL.
- THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE PERMITTEE.
- ~~ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE APPROVED BY THE BUILDING OFFICIAL OR A LEGAL DUMPSTHE RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMP SITE ARE REQUIRED AND MUST BE PROVIDED TO THE BUILDING OFFICIAL UPON REQUEST.~~
- IF REQUIRED BY THE CITY, A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
- SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY FIELD ENGINEER OR LICENSED SURVEYOR. PRIOR TO GRADING, AS REQUESTED BY THE BUILDING OFFICIAL, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.
- A PREVENTIVE PROGRAM TO PROTECT THE SLOPES FROM POTENTIAL DAMAGE FROM BURROWING RODENTS IS REQUIRED. OWNER IS TO INSPECT SLOPES PERIODICALLY FOR EVIDENCE OF BURROWING RODENTS AND A FIRST EVIDENCE OF THEIR EXISTENCE SHALL EMPLOY AN EXTERMINATOR FOR THEIR REMOVAL.
- THE EROSION CONTROL DEVICES MUST BE INSTALLED AND MAINTAINED IN OPERABLE CONDITION THROUGHOUT THE RAINY SEASON, NOVEMBER 1 THROUGH APRIL 15 OF THE FOLLOWING YEAR.

#### FILL NOTES

- CONTINUOUS INSPECTION BY THE SOIL ENGINEER, OR A RESPONSIBLE REPRESENTATIVE, SHALL BE PROVIDED DURING ALL FILL PLACEMENT AND COMPACTION OPERATIONS WHERE FILLS HAVE A DEPTH GREATER THAN 30 FEET OR SLOPE SURFACE STEEPER THAN 2:1.
- CONTINUOUS INSPECTION BY THE SOIL ENGINEER, OR A RESPONSIBLE REPRESENTATIVE, SHALL BE PROVIDED DURING ALL SUBDRAIN INSTALLATION.
- ALL SUBDRAIN OUTLETS FOR THE RETAINING WALL ARE TO BE SURVEYED FOR LINE AND ELEVATION.

#### CULVER CITY GENERAL NOTES

- Unless otherwise noted, all work shall be performed in accordance with the current edition of the Standard Specifications for Public Works Construction, and any amendments thereto, other City standards, and to the satisfaction of the Public Works Director/City Engineer, or his/her designee.
- Traffic Control shall be per MUTCD and to the satisfaction of the Public Works Inspector.
- Contractor shall call for inspection for any work proposed at 310.253.5600 at least 48 hours in advance. Failure to properly notify the Public Works Inspector is cause for revocation of permit.
- The applicant shall be responsible for the expense and to repair or replace any damaged to the public right-of-way, to include existing traffic loops, signal, lighting, electrical systems, and underground installations (whether or not physically marked or shown on the contract plans), damaged caused by the construction of the proposed work or project. Such repairs or replacement shall be completed to the satisfaction of the City Engineer.
- ~~Working hours shall be from 9:00 AM to 3:00 PM weekdays on Public Right of Way, unless otherwise approved by the City Engineer; all construction activity on private property shall be prohibited, except between the hours of 8:00 a.m. and 8:00 p.m. Mondays through Friday; 9:00 a.m. and 7:00 p.m. Saturdays; 10:00 a.m. and 7:00 p.m. Sundays.~~
- To minimize inconvenience to traffic and the public in general, the Contractor shall schedule the concrete placement and/or roadway pavement to be completed no later than two (2) days after the removal operations, unless approved by Public Work Inspector. Safe and adequate pedestrian and vehicular movement at and around all construction sites shall be provided and maintained at all times. Approved barriers and signs (traffic flagging personnel, if necessary), shall be furnished and utilized by the Contractor to ensure public safety at all times.
- The contractor shall not discharge or permit to be discharged to any street, storm drain, or any appurtenance thereof, any non-rain water or other liquid from the project site of from operations pertaining to the project site, per NPDES regulations and City's Storm Water Pollution Ordinance Section 5.02.500 et seq.
- Catch basins within 50 feet of work area shall be protected with permeable fabric and sandbags prior to commencing work and maintained during duration of operation. Failure to provide protection to the catch basin(s) and storm drain inlet(s) is cause for revocation of permit.
- Stockpiling of material or equipment in the Public Right of Way is PROHIBITED unless authorized by the Public Works Director/City Engineer or his/her designee.
- The project work area shall be kept clean, safe, and sanitary condition. At the end of each work day, the project work area shall be swept by manual or mechanical means to the satisfaction of the Public Works Director/City Engineer, or his/her designee.
- No staging of construction materials or construction vehicles along Public Right of Way unless authorized by the Public Works Director/City Engineer or his/her designee.
- Construction vehicles shall not be parked over night or during non-operational hours on Public Right of Way.



## CITY OF CULVER CITY PUBLIC WORKS DEPARTMENT (310) 253-5600

APPROVED BY CITY ENGINEER/ PUBLIC WORKS DIRECTOR:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

Charles D. Herbertson, P.E., L.S.

PRINT NAME

#### ARCHITECTURAL

- T0.0 Cover page, Site Plan, Project Data & Notes
- T0.1 Construction Notes & Specs
- A2.0 BHSO Trail Gateway to Upper Fields and New ADA Ramp Plan
- A2.1 Babe Ruth Field Level to Boardwalk Plan and New ADA Ramp to Duquesne
- A3.0 ADA Ramp - Enlarged Plans & Sections for New ADA Ramp at Upper Fields
- A3.1 ADA Ramp - Enlarged Plans & Sections for New ADA Ramp to Duquesne
- A4.0 Details & Signage

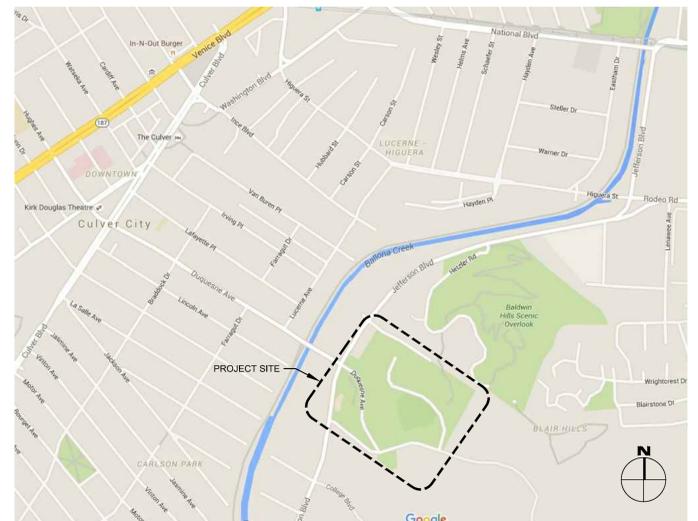
#### STRUCTURAL

- S0.1 Structural General Notes
- S0.2 Structural Details

#### CIVIL

- C-1 ADA Path Plan - at New Concrete Ramp
- C-2 ADA Path Plan - at Upper Field No. 1
- C-3 ADA Path Plan - at Babe Ruth Field
- C-4 ADA Path Plan - At Boardwalk
- C-5 ADA Path Plan - Boardwalk to Duquesne Crossing
- C-6 Details

#### SHEET SCHEDULE



#### VICINITY MAP

Property Boundary Description: \*TR=TRACTS OF LAND NO 1 AND 2 OF THE ALLOTMENT OF ANDRES, JOSE ANTONIO, RAFAEL AND CRISTOBAL MACHADO IN THE RANCHO LA BALLONA\*LOT COM S 29°5'0"20" ... SEE MAPBOOK FOR MISSING PORTION ... CRISTOBAL MACHADO 86.88 AC ALLOT

Assessor's ID No.: 4204-003-901

#### PROJECT CHARACTERISTICS

CONSTRUCT NEW PATHWAY FROM THE BALDWIN HILLS SCENIC OVERLOOK TRAIL GATEWAY TO THE INTERSECTION AT DUQUESNE AVE AND JEFFERSON BLVD.

#### PROJECT DESCRIPTION

#### CLIENT/OWNER

CLIENT/OWNER : CITY OF CULVER CITY  
ADDRESS : 9770 CULVER BLVD.  
CULVER CITY , CALIFORNIA 90232

PARKS, RECREATION & COMMUNITY SERVICES DEPT.  
CONTACT: PATRICK REYNOLDS  
TEL.: 310.253.6471

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION  
CONTACT: MATE GASPAR  
TEL.: 310.253.5602

#### CONSULTANT

FIRM : RTI CONSULTING, INC.  
ADDRESS : 8325 MCCONNELL AVE.  
LOS ANGELES, CA 90045

TEL : 310.670.5977  
EMAIL : bob.neiwirth@rticm.com  
CONTACT : ROBERT NEIWRTH

#### ARCHITECT

FIRM : KOLODNY ARCHITECTS, INC.  
ADDRESS : 1644 TALMADGE ST.  
LOS ANGELES, CA 90027

TEL : 213.446.4572  
EMAIL : josh@kolodnyarchitects.com  
CONTACT : JOSHUA KOLODNY

#### CONSULTING ENGINEER

FIRM : JOHN LABIB + ASSOCIATES  
ADDRESS : 319 MAIN STREET  
EL SEGUNDO, CA 90245

TEL : 213.239.9700  
EMAIL : chuck@labibse.com  
CONTACT : CHUCK WHITAKER

#### CIVIL ENGINEER

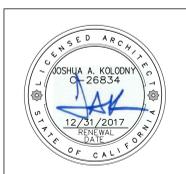
FIRM : JMC2 CIVIL ENGINEERING + SURVEYING  
ADDRESS : 411 NORTH HARBOR BLVD., SUITE 201  
SAN PEDRO CA 90731

TEL : 909.598.6067  
FAX : ftsin@jmc-2.com  
CONTACT : FELIX SIN

#### PROJECT PARTICIPANTS

NO.	REVISION	BY	APPR.	DATE	PROJECT NUMBER

<b>CITY OF CULVER CITY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION - CULVER CITY, CALIF.</b>			
<b>SPECIFICATIONS, STRUCTURAL NOTES &amp; ACCESSIBILITY NOTES</b>			
<b>PARK TO PLAYA: TRAIL ALIGNMENT - SEGMENT 7</b>			
APPROVED BY CHARLES D. HERBERTSON		Drawing No. <b>T0.1</b>	
CITY ENGINEER	DATE	DRAWN BY: JK	DATE: 01/12/17



**ACCESSIBLE - SITE**

- ALL RAMPS SHALL HAVE A NON-SLIP FINISH.
- WALK AND SIDEWALK SURFACES SHALL BE SLIP-RESISTANT AS FOLLOWS:
  - SURFACES WITH A SLOPE OF LESS THAN 6% GRADIENT SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.
  - SURFACES WITH A SLOPE OF 6% GRADIENT SHALL BE SLIP-RESISTANT.
- THE SURFACE OF EACH CURB RAMP AND ITS FLARED SIDES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT AND SHALL BE OF CONTRASTING FINISH FROM THAT OF THE ADJACENT SIDEWALK.
- WALKS, SIDEWALKS, AND PEDESTRIAN WAYS SHALL BE FREE OF GRATINGS WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN GRATINGS SHALL BE NO GREATER THAN 1/2" WIDE IN ONE DIRECTION. IF GRATINGS HAVE ELONGATED OPENINGS, THEY SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.
- ABRUPT CHANGES IN LEVEL, EXCEPT BETWEEN A WALK OR SIDEWALK AND AN ADJACENT STREET OR DRIVEWAY, EXCEEDING 4" IN VERTICAL DIMENSION, SUCH AS AT PLANTERS OR FOUNTAINS LOCATED IN OR ADJACENT TO WALKS, SIDEWALKS, OR OTHER PEDESTRIAN WAYS, SHALL BE IDENTIFIED BY WARNING CURBS PROJECTING AT LEAST 6" IN HEIGHT ABOVE THE WALK OR SIDEWALK SURFACE TO WARN THE BLIND OF POTENTIAL DROP OFF.
- OUTDOOR RAMPS AND THEIR APPROACHES SHALL BE DESIGNED AND CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

**ACCESSIBLE - RAMPS**

- MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE, SHALL NOT EXCEED 1:12 / 8.33% SLOPE. FROM THE TOP AND BOTTOM OF THE CURB RAMP, THE SLOPE OF THE FANNED OR FLARED SIDES OF CURB RAMPS SHALL NOT EXCEED 1:12 SLOPE.
- TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES, EXCEPT THAT THE LOWER END OF EACH CURB RAMP SHALL HAVE A 1/2" LIP BEVELED AT 45°
- DIAGONAL CURB RAMPS (CORNER TYPE) HAVING RETURNED CURBS OR OTHER WELL-DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A 48" MIN. CLEAR SPACE. FLARED SIDES OF DIAGONAL RAMP SHALL HAVE AT LEAST A 24" LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.
- CURB RAMP SHALL HAVE A DETECTABLE WARNING THAT EXTENDS THE FULL WIDTH AND 36" DEPTH OF THE CURB RAMP INSIDE THE GROOVED BORDER WHEN THE RAMP IS LESS THAN 1 VERTICAL TO 15 HORIZONTAL. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9" AT THE BASE TAPERING TO 0.45" AT THE TOP, A HEIGHT OF NOMINAL 0.2", AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35". THE DETECTABLE WARNING SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. THE DOMES MAY BE CONSTRUCTED IN A VARIETY OF METHODS, INCLUDING CAST-IN- PLACE OR STAMPED, OR MAY BE OF A PREFABRICATED SURFACE TREATMENT.
- CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS.
- PEDESTRIAN RAMPS ON PEDESTRIAN GRADE SEPARATIONS SHALL COMPLY CBC 2010, FOR RAMPS COMPLY WITH CBC 2010
- CROSS SLOPES OF WALKING SURFACES SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 1/4" PER FOOT. THE SLOPE OF ANY APPRECIABLY WARPED WALKING SURFACE SHALL NOT EXCEED 1 VERTICAL IN 12 HORIZONTAL IN ANY DIRECTION.
- WALK AND SIDEWALK SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4" PER SLOPE EXCEPT WHEN THE ENFORCING AGENCY FINDS THAT DUE TO LOCAL CONDITIONS IT CREATES AN UN-REASONABLE HARSHIP. THE CROSS SLOPE CAN BE INCREASED TO A MAXIMUM OF 1/2" PER FOOT FOR DISTANCES NOT TO EXCEED 20'.

**ACCESSIBLE - HANDRAILS**

- THE GRIP PORTION OF HANDRAILS SHALL NOT BE LESS THAN 1-1/4" NOR MORE THAN 1-1/2" OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE, AND ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".
- HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF 1-1/2" BETWEEN THE WALL AND THE HANDRAIL.
- HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAXIMUM OF 3" DEEP AND EXTENDS AT LEAST 18" ABOVE THE TOP OF THE RAIL.
- ANY WALL OR OTHER SURFACE ADJACENT TO HANDRAILS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".
- WHERE THE EXTENSION OF THE HANDRAIL IN THE DIRECTION OF THE STAIR RUN WOULD CREATE A HAZARD, THE TERMINATION OF THE EXTENSION SHALL BE MADE EITHER ROUNDED OR RETURNED SMOOTHLY TO THE FLOOR, WALL, OR POST. WHERE THE STAIRS ARE CONTINUOUS FROM LANDING TO LANDINGS, THE INNER RAIL SHALL BE CONTINUOUS AND NEED NOT EXTEND OUT INTO THE BUILDING.
- HANDRAIL ENDS SHALL BE RETURNED OR TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS.
- HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF MIN. 1-1/2" BETWEEN THE WALL AND THE HANDRAIL. HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAXIMUM OF 3" DEEP AND EXTENDS AT LEAST 18" ABOVE THE TOP OF THE RAIL. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

**DECOMPOSED GRANITE PAVING/REDWOOD HEADER**

- COMPACT SUBGRADE AT THE REQUIRED SLOPES TO A RELATIVE COMPACTION DENSITY OF 95%
- APPLY SOIL STERILANT TO WORK ZONE TO AN EXTENT NOT TO EXCEED THREE (3) FT ON EITHER SIDE OF THE PAVING AREA.
  - ENSURE THAT THE SUBGRADE HAS BEEN CLEANED OF ALL FOREIGN SUBSTANCES, ANY RUTS OR SOFT SPOTS HAVE BEEN ADDRESSED AND UNDISTURBED BY TRAFFIC OR OTHER TRADE ACTIVITIES.
  - INSTALL REDWOOD HEADER ALONG PATHWAYS AS SHOWN ON THE PLANS. PROVIDE HEADER STAKES EVERY FOUR (4) FEET ON THE OUT SIDE OF THE HEADER FOR SUPPORT & CONSTRAINTS.
  - ENSURE THAT THE SUBGRADE HAS NOT BEEN COMPROMISED BY RAIN, IRRIGATION OR MANUAL WATER APPLICATIONS.
  - THOROUGHLY COMBINE CRUSHED GRANITE MATERIALS WITH THE BINDER SO AS TO RESULT A UNIFORM MIXTURE OF CRUSHED GRANITE FINES/BINDER POWDER.
  - SPREAD CRUSHED GRANITE FINE/BINDER MATERIALS IN TWO (2) - ONE AND ONE HALF (1 1/2) INCH LIFTS.
  - WET AND ROLL EACH LIFT TO FORM A UNIFORM, SMOOTH SURFACE WITH A CROSS SLOPE OF 2%. COMPACT EACH LIFT TO 95 %. UTILIZE VIBRATING ROLLERS, TAMPERS OR OTHER APPROVED MECHANICAL MEANS.
  - CONTINUE CUTTING OR FILLING, WATERING AND ROLLING UNTIL THE SURFACE IS HARD AND TRUE. UPON COMPLETION OF THE FINAL LIFT, FILL ANY DEPRESSIONS, HOLES OR DIVOTS AND RE-ROLL USING THE ABOVE REFERENCED PROCESS. DEVIATIONS IN EXCESS OF 3/8" WHEN TESTED WITH A 10-TEN STRAIGHTEDGE IN PARALLEL AND RIGHT ANGLE PLACEMENTS SHALL BE CORRECTED.
  - REPAIRS TO BE PERFORMED BY REMOVING MATERIALS, REPLACING WITH NEW MATERIALS OR REWORKING EXISTING MATERIALS UTILIZING THE APPROVED COMPACTION EQUIPMENT.
  - PROVIDE A CERTIFICATE OF COMPLIANCE THAT THE BINDER/STABILIZER HAS BEEN MIXED PER MANUFACTURER RECOMMENDATIONS.

**RAMP STEEL GUARDRAILS AND HANDRAILS**

- PROVIDE HANDRAILS AND RAILINGS CAPABLE OF:
  - TOP RAIL:
    - CONCENTRATED LOAD OF 200 LBF APPLIED AT ANY POINT IN ANY DIRECTION;
    - UNIFORM LOAD OF 50 LB/FT APPLIED HORIZONTALLY AND CONCURRENTLY WITH A UNIFORM LOAD OF 100 LB/FT APPLIED VERTICALLY DOWNWARD.
  - HANDRAILS NOT SERVING AT TOP RAIL:
    - CONCENTRATED LOAD OF 200 LBF APPLIED AT ANY POINT IN ANY DIRECTION;
    - UNIFORM LOAD OF 50 LB/FT APPLIED IN ANY DIRECTION. HORIZONTALLY AND CONCURRENTLY WITH A UNIFORM LOAD OF 100 LB/FT APPLIED VERTICALLY DOWNWARD.
- INFILL AREA OF GUARDRAIL:
  - CONCENTRATED HORIZONTAL LOAD OF 200 LBF APPLIED TO A 1 SQ.FT. AT ANY POINT IN THE SYSTEM, INCLUDING INTERMEDIATE RAILS, BALUSTERS AND OTHER ELEMENTS;
  - UNIFORM LOAD OF 50 LB/FT APPLIED IN ANY DIRECTION. HORIZONTALLY AND CONCURRENTLY WITH A UNIFORM LOAD OF 100 LB/FT APPLIED VERTICALLY DOWNWARD.
- CONNECTIONS:
  - FIT EXPOSED CONNECTIONS TOGETHER TO FORM TIGHT, HAIRLINE JOINTS.
  - PERFORM CUTTING, DRILLING AND FITTING REQUIRED TO INSTALL HANDRAILS AND RAILINGS.
  - SET POSTS PLUMB WITHIN A TOLERANCE OF 1/16 INCH IN 3 FT. ALIGN RAILS SO VARIATIONS FROM LEVEL OR FROM PARALLEL WITH SLOPE OF RAMP DOES NOT EXCEED 1/4 INCH IN 12 FEET.
  - USE ANCHORAGE DEVICES AND FASTENERS TO SECURE HANDRAILS AND RAILINGS TO PROPERLY TRANSFER LOADS TO IN-PLACE CONSTRUCTION.
- ANCHORING POSTS:
  - USE STEEL PIPE SLEEVES PRESET AND ANCHORED INTO CONCRETE FOR INSTALLING POSTS. AFTER POSTS HAVE BEEN PLACED IN SLEEVE, FILL SPACE BETWEEN POST & SLEEVE WITH ANCHORING MATERIALS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
  - FORM OR CORE-DRILLED HOLES NOT LESS THAN 5 INCHES DEEP AND 1/4 INCH LARGER THAN OD OF POST. CLEAN HOLES OF LOOSE MATERIALS, INSERT POSTS AND FILL SPACE BETWEEN SLEEVE AND POST WITH ANCHORING MATERIALS PER MANUFACTURER'S INSTRUCTION.
- ANCHORING RAILING ENDS:
  - ANCHOR RAILING ENDS INTO CONCRETE WITH ROUND FLANGES WITH ROUND FLANGES AND ANCHORS INTO WALL CONSTRUCTION WITH ANCHORS AND BOLTS.
- ATTACHING HANDRAILS TO WALLS
  - ATTACH HANDRAILS TO WALL WITH WALL BRACKETS. PROVIDE BRACKETS WITH 1 1/2 INCH CLEARANCE FROM INSIDE FACE OF HANDRAIL AND FINISHED WALL SURFACE.
  - LOCATE BRACKETS AS INDICATED AT SPACING REQUIRED TO SUPPORT STRUCTURAL LOADS.
  - SECURE WALL BRACKETS TO BUILDING CONSTRUCTION AS FOLLOWS:
    - FOR CONCRETE ANCHORAGE, USE DRILLED-IN EXPANSION SHIELDS AND HANGER OR LAG BOLTS.
- CLEANING:
  - GALVANIZED SURFACES: CLEAN FILL WELDS, BOLTED CONNECTIONS, BOLTED CONNECTIONS, AND ABRADED AREAS AND REPAIR GALVANIZING TO COMPLY WITH ASTM A 780.

**REPLACEMENT WOOD DECKING/WOOD SLATS/FORMED WOOD RAILINGS/GUARDRAIL CAPS**

- EXISTING GUARDRAIL CAPS, BALUSTERS, 2X4 TOP AND BOTTOM MEMBER, WOOD FORMED HANDRAILS, WOOD DECKING ARE TO BE REMOVED FROM THE TOP OF THE BOARDWALK TO THE BOTTOM OF THE BOARDWALK PATHWAY. THEY ARE TO BE REPLACED WITH NEW REDWOOD TREATED LUMBER OF SIMILAR SIZE AND MECHANICALLY FASTENED USING WOOD SCREWS, BOLTS AND/OR GALVANIZED CONNECTORS PER PLANS.
- THE RIM JOISTS, INTERMEDIATE DECK JOISTS, BLOCKING AND BRACING ARE TO BE EXAMINED FOR DRY ROT, TERMITE DAMAGE, WEATHERING OR STRUCTURAL DAMAGE. SECTIONS REQUIRING REPAIR OR REPLACEMENT ARE TO BE REVIEWED WITH THE CITY REPRESENTATIVES FOR AUTHORIZATION TO PROCEED.
- THE REMOVAL AND REPLACEMENT OF THE BOARDWALK IS TO BE SEQUENCED TO ALLOW FOR HILLSIDE GRADING AND REPAIRS. BARRICADES ARE MOVE WITH THE WORK ON THE BOARDWORK SO AS TO PREVENT ACCESS TO WORK AREAS OR PEDESTRIAN ACCESS TO UNFINISHED AREAS.
- AN ALTERNATE FOR THE USE OF COMPOSITE DECKING, BALUSTERS, GUARDRAILS, ETC. CAN BE PRESENTED, BUT IS DEPENDENT UPON APPROVAL BY THE CITY REPRESENTATIVES OF THE SUBSTITUTION. WARRANTIES FROM THE MANUFACTURER MUST BE PROVIDED AT THE TIME OF SUBSTITUTION. ENGINEERED SYSTEMS AND DETAILS MUST BE PROVIDED WITH THE SUBSTITUTION REQUEST. COMPOSITE MATERIALS CANNOT BE SUBSTITUTED FOR STRUCTURAL MEMBERS AND CANNOT EXCEED SPANS RECOMMENDED BY THE MANUFACTURER.

**SUBMITTAL REQUIREMENTS**

- 0250 - DECOMPOSED GRANITE:**
- 1.02 SUBMITTALS:
- PRODUCT DATA - FROM SUPPLIER A ONE-POUND SAMPLE FOR THE DECOMPOSED GRANITE AND THE BINDING MATERIALS TO BE USED. PROVIDE A CERTIFICATE OF COMPLIANCE VERIFYING THAT THE BINDER/STABILIZER HAS BEEN MIXED PER MANUFACTURER'S RECOMMENDATIONS.
  - COMPACTION TEST REPORTS - TO BE FURNISHED AFTER PLACEMENT.
  - WARRANTY - 1 YEAR
- 0270 - ASPHALT PAVING:**
- 1.02 SUBMITTALS:
- PRODUCT DATA - FOR EACH TYPE OF PRODUCT INDICATED, INCLUDING TECHNICAL DATA, TESTED PHYSICAL AND PERFORMANCE PROPERTIES.
  - MIX DESIGNS - FOR THE MIX PROPOSED AT THE NEW ADA CROSSOVER SECTION.
  - MATERIAL TESTING REPORTS: FOR EACH PAVING PRODUCT.
  - CERTIFICATIONS - FROM SUPPLIERS FOR THE PAVING MATERIALS FURNISHED.
  - WARRANTY - 1 YEAR
- 0300 - CONCRETE & REINFORCING:**
- 1.02 SUBMITTALS:
- PRODUCT DATA - FOR EACH TYPE OF PRODUCT FURNISHED, INCLUDING TECHNICAL DATA, TESTED PHYSICAL AND PERFORMANCE PROPERTIES.
  - MIX DESIGNS - CONCRETE MIX DESIGNS FROM THE SUPPLIER. REINFORCING STEEL MILL CERTIFICATIONS FROM THE SUPPLIER ARE REQUIRED. FORMWORK TO BE FURNISHED FOR THE FORMING OF LANDINGS, FOOTINGS AND RETAINING WALLS.
  - BATCH PLANT AND TRUCK TICKETS: PROVIDE DOCUMENTS FROM DRIVERS DELIVERY AND PLACEMENT OF CONCRETE / REINFORCING STEEL
  - WARRANTY - 1 YEAR

- 05500 - MISC. IRON:**
- 1.02 SUBMITTALS:
- PRODUCT DATA - SHOP DRAWINGS FOR THE ADA RAMP GUARD AND HANDRAILS AND LISTING OF PAINT PRODUCTS.
  - WELDER QUALIFICATIONS - AWS D1.1 CERTIFICATION
  - FABRICATOR QUALITY ASSURANCE PROGRAM - COPY OF FABRICATOR'S QUALITY ASSURANCE PROGRAM.
  - MILL CERTIFICATIONS - SUBMIT THREE COPIES OF CERTIFIED MILL REPORTS.
  - WELDING PROCEDURES - SUBMIT DESCRIPTION OF WELDING PROCEDURES SHOULD THEY BE REQUIRED BY THIS TRADE.
  - WARRANTY - 1 YEAR

- 06200 - ROUGH CARPENTRY:**
- 1.02 SUBMITTALS:
- PRODUCT DATA - LUMBER AND/OR COMPOSITE MATERIALS CERTIFICATIONS, FASTENERS AND CONNECTIONS FOR THE FOLLOWING AREAS
    - D.G. PATHWAY EDGING.
    - BROWN PRESSURE TREATED TIMBER RETAINING WALL.
    - BOARDWALK DECK, GUARDRAILS AND HANDRAILS.
  - MATERIAL CERTIFICATIONS - FROM EACH MANUFACTURER.
  - WARRANTY - 1 YEAR FOR LUMBER AND INSTALLATION, 25 YEAR FOR COMPOSITE MATERIALS FROM MANUFACTURER

**0990 - PARKING LOT AND ROADWAY STRIPING:**

- 1.02 SUBMITTALS:
- PRODUCT DATA -
  - MATERIAL CERTIFICATIONS - FROM EACH MANUFACTURER.
  - WARRANTY - 1 YEAR

**STRUCTURAL NOTES and SPECIFICATIONS**

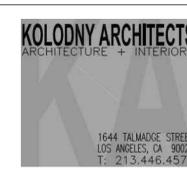
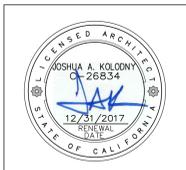
**EROSION & SEDIMENT CONTROL ("RIPRAP") (To be Coordinated with Civil Plans)**

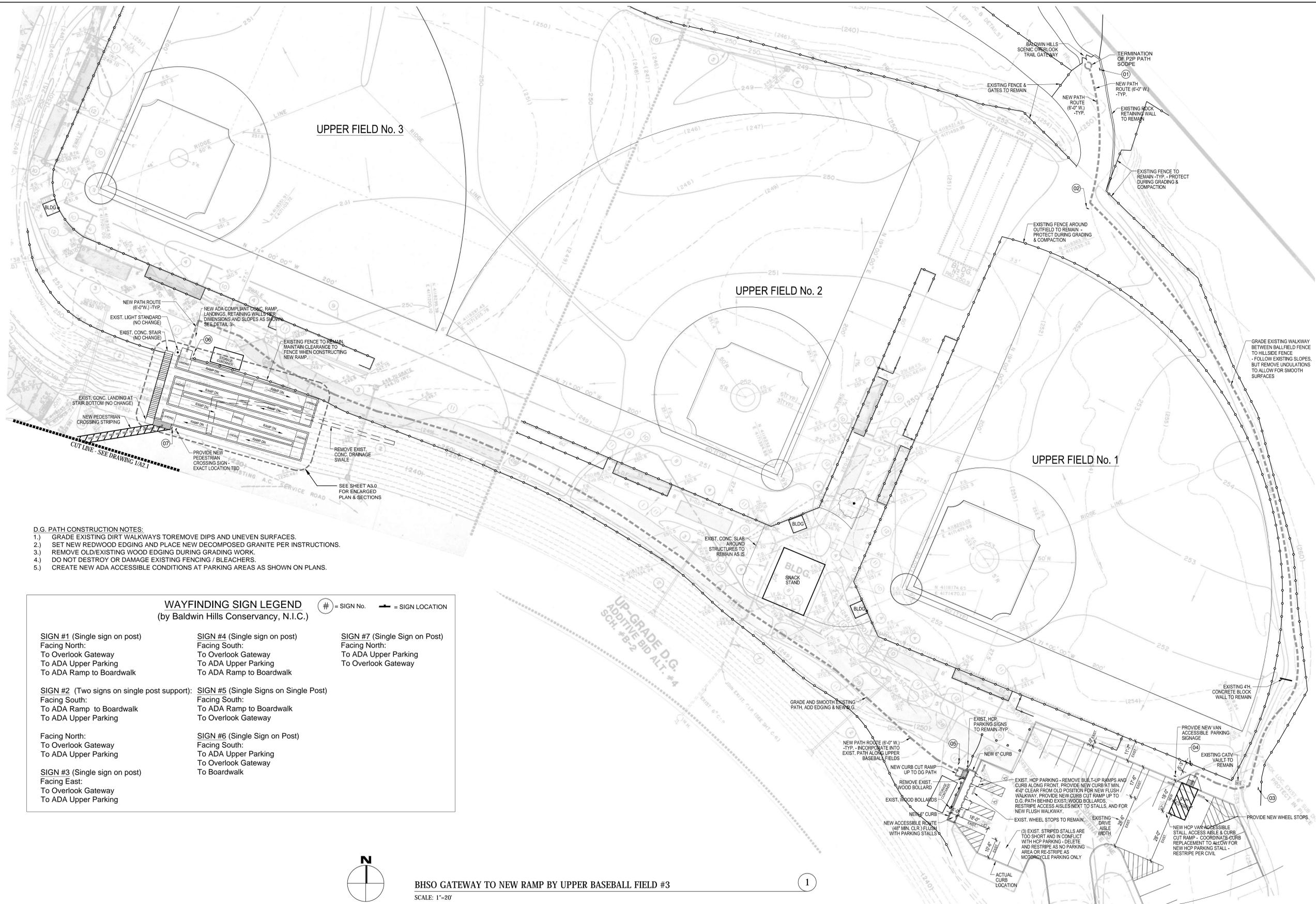
- THE CIVIL DESIGN DOCUMENTS WILL IDENTIFY THE LOCATIONS FOR THIS EROSION RESISTANT GROUND COVER ALONG THE WOOD FRAMED "BOARDWALK" TRAIL.
- PLACE RIPRAP ON A PROPER FILTER MATERIAL OF SAND, GRAVEL AND/OR FABRIC TO REDUCE THE SOIL PENETRATION THROUGH THE STONE.
- RIPRAP SHOULD BE OF GOOD QUALITY, SIZED CORRECTLY AND PLACED TO THE PROPER THICKNESS. PROVIDE SAMPLE STONE FOR APPROVAL BY THE CITY.
- RIPRAP TO BE GRADED SO AS TO PROVIDE A MIXTURE OF STONE SIZES. SIZES AND GRADATIONS TO BE IDENTIFIED BY THE CIVIL ENGINEERING DESIGN. STONE SHOULD BE HARD, ANGULAR, and WEATHER-RESISTANT WITH A SPECIFIC GRAVITY OF 2.5.
- THE LARGEST STONE PROVIDED SHOULD NOT EXCEED 1.5 TIMES THE MEDIUM "D" SPECIFIED.
- SUBGRADE SHALL BE CLEARED AND GRUBBED PRIOR TO PLACEMENT OF FILTER MATERIAL AND SHOULD BE GRADED TO COINCIDE WITH THE ADJACENT SLOPES AND SURFACES. BLEND STONE SURFACE TO REMOVE ANY PROTRUSIONS OR OVERFALL CONDITIONS.
- EXCAVATION SHOULD BE DEEP ENOUGH TO ALLOW FOR BOTH THE FILTER AND STONE PLACEMENT IN LINE WITH THE ADJACENT UNDISTRIBUTED SOIL.
- EXCAVATE A KEYWAY IN THE BASE OF THE SLOPE TO REINFORCE THE TOE OF THE RIPRAP AND SHOULD EXTEND TO THE FULL WIDTH OF THE REQUIRED RIPRAP PLACEMENT.
- VOIDS IN THE RIPRAP SHALL BE FILLEED WITH SMALL ROCKS OR SPALLS.
- OVERLAP THE FILTER FABRIC AT LEAST 12 INCHES AND ANCHOR EVERY 3 FT ALONG THE OVERLAP. SAND SHOULD BE PLACED TO PROTECT THE FILTER FABRIC FROM DAMAGE BY THE STONES. ANY DAMAGED SECTIONS SHALL BE REPAIRED PRIOR TO PROCEEDING.
- CLEAR DEBRIS REMAINING AFTER PERFORMANCE OF THIS WORK.

**BACKFILL DRAINAGE AT RETAINING WALLS**

- THE CIVIL DESIGN DOCUMENTS WILL IDENTIFY THE LOCATIONS FOR DRAINAGE OF RAINWATER OR GROUNDWALL ALONG THE NEW ADA RAMP BETWEEN FIELDS BALLFIELDS 3 AND 4.
- AFTER REMOVAL OF FOUNDATION AND RETAINING WALL FORMWORK, PLACE PERFORATED DRAINAGE PIPING ON TOP OF THE FOOTING AND BACKFILL UTILIZING GRAVEL AS SHOWN ON THE CIVIL PLANS.
- WEEP HOLES/SLEEVES (4" dia.) WILL BE PROVIDED ALONG THE NEW ADA RAMP WALL AT 6 FT INTERVALS OR AS SHOWN ON THE CIVIL PLANS. PLACE FILTER FABRIC OVER THE WEEP OPENINGS ON THE UPFILL SIDE. PROVIDE CIRCULAR DRAIN COVER AT THE DOWNHILL SIDE OF THE WEEP WHERE THE SLEEVE EXITS THE RAMP WALL.

REVIEWED BY		REVIEWED BY		<p align="center"><b>CITY OF CULVER CITY</b>  <b>PUBLIC WORKS DEPARTMENT</b>                  ENGINEERING DIVISION - CULVER CITY, CALIF.</p> <p align="center"><b>SPECIFICATIONS, STRUCTURAL NOTES &amp; ACCESSIBILITY NOTES</b></p> <p align="center"><b>PARK TO PLAYA:</b>  <b>TRAIL ALIGNMENT - SEGMENT 7</b></p>			
PATRICK REYNOLDS, PARKS DIVISION MANAGER		MATE GASPAR, ENGINEERING SERVICES MANAGER					
NO.	REVISION	BY	APPR.	DATE	PROJECT NUMBER	APPROVED BY CHARLES D. HERBERTSON	Drawing No. <b>T0.1</b>
						CITY ENGINEER	DATE: 01/12/17





- D.G. PATH CONSTRUCTION NOTES:
- 1.) GRADE EXISTING DIRT WALKWAYS TO REMOVE DIPS AND UNEVEN SURFACES.
  - 2.) SET NEW REDWOOD EDGING AND PLACE NEW DECOMPOSED GRANITE PER INSTRUCTIONS.
  - 3.) REMOVE OLD/EXISTING WOOD EDGING DURING GRADING WORK.
  - 4.) DO NOT DESTROY OR DAMAGE EXISTING FENCING / BLEACHERS.
  - 5.) CREATE NEW ADA ACCESSIBLE CONDITIONS AT PARKING AREAS AS SHOWN ON PLANS.

WAYFINDING SIGN LEGEND (by Baldwin Hills Conservancy, N.I.C.)		
#	= SIGN No.	= SIGN LOCATION
SIGN #1 (Single sign on post) Facing North: To Overlook Gateway To ADA Upper Parking To ADA Ramp to Boardwalk	SIGN #4 (Single sign on post) Facing South: To Overlook Gateway To ADA Upper Parking To ADA Ramp to Boardwalk	SIGN #7 (Single Sign on Post) Facing North: To ADA Upper Parking To Overlook Gateway
SIGN #2 (Two signs on single post support) Facing South: To ADA Ramp to Boardwalk To ADA Upper Parking	SIGN #5 (Single Signs on Single Post) Facing South: To ADA Ramp to Boardwalk To Overlook Gateway	
Facing North: To Overlook Gateway To ADA Upper Parking	SIGN #6 (Single Sign on Post) Facing South: To ADA Upper Parking To Overlook Gateway To Boardwalk	
SIGN #3 (Single sign on post) Facing East: To Overlook Gateway To ADA Upper Parking		



BHSO GATEWAY TO NEW RAMP BY UPPER BASEBALL FIELD #3  
SCALE: 1"=20'

REVIEWED BY	REVIEWED BY
PATRICK REYNOLDS, PARKS DIVISION MANAGER	MATE GASPAR, ENGINEERING SERVICES MANAGER

**CITY OF CULVER CITY**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION - CULVER CITY, CALIF.

**PATH FROM BHSO GATEWAY TO UPPER FIELDS & ADA RAMP**

**PARK TO PLAYA:  
TRAIL ALIGNMENT - SEGMENT 7**

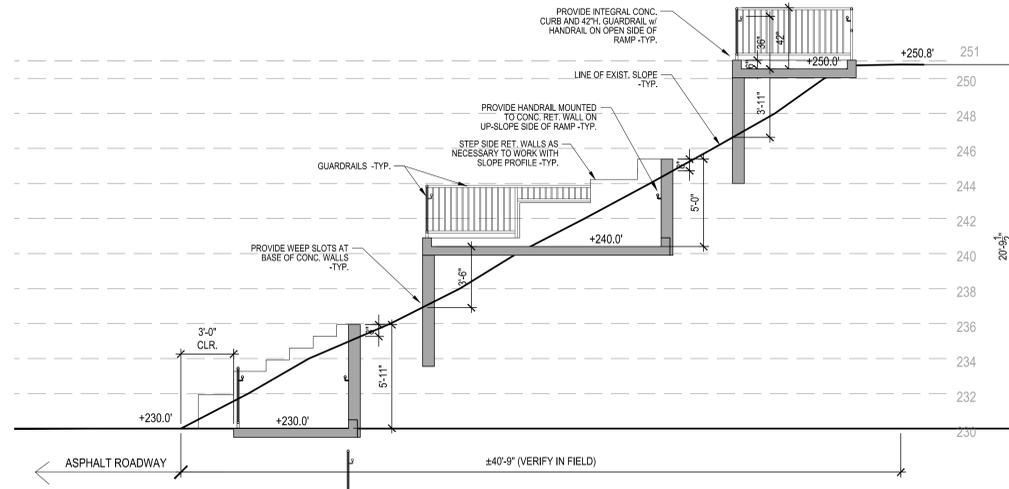
APPROVED BY CHARLES D. HERBERTSON  
CITY ENGINEER

DRAWING No. **A2.0**  
DRAWN BY: JK  
DATE: 01/12/17



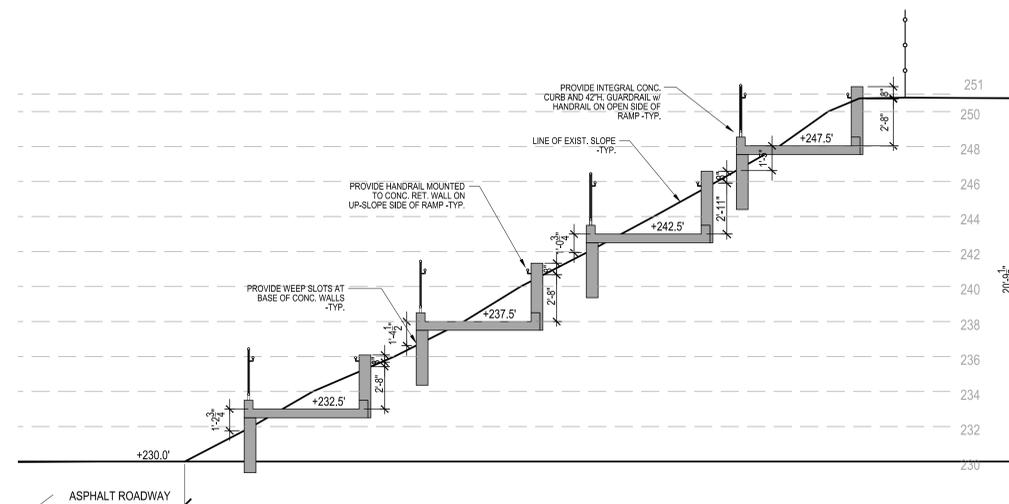
NO.	REVISION	BY	APPR.	DATE	PROJECT NUMBER





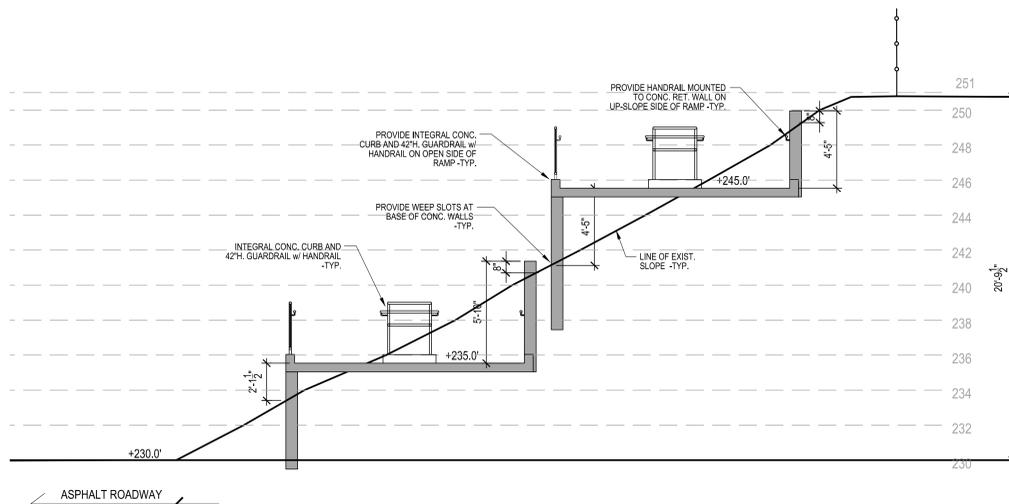
SECTION 'A-A' THRU HILLSIDE / RAMP

SCALE: 1/4"=1'-0"



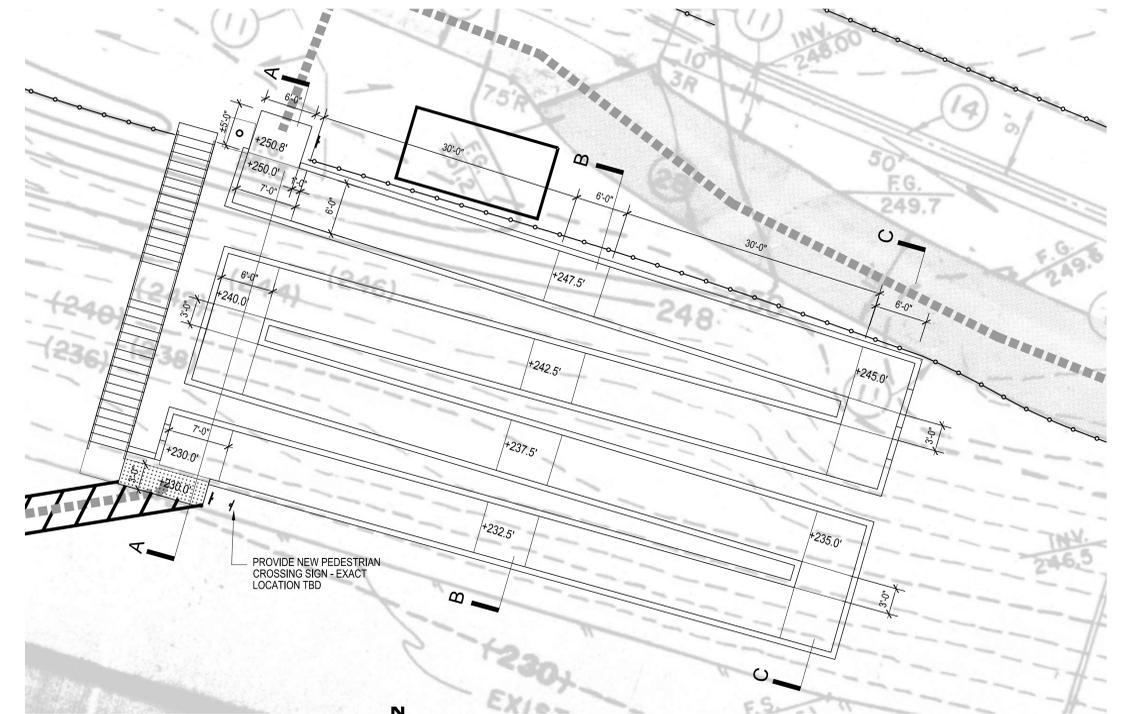
SECTION 'B-B' THRU HILLSIDE / RAMP

SCALE: 1/4"=1'-0"



SECTION 'C-C' THRU HILLSIDE / RAMP

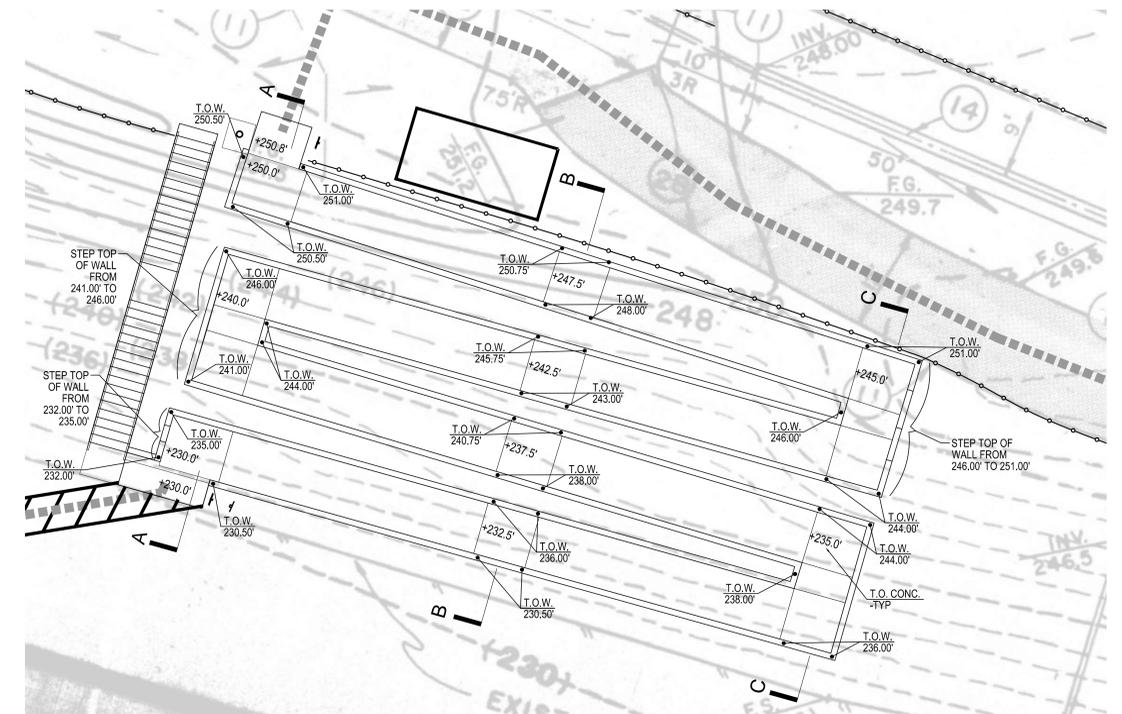
SCALE: 1/4"=1'-0"



RAMP PLAN

SCALE: 1/8"=1'-0"

- CONCRETE RAMP CONSTRUCTION NOTES:
- 1.) DO NOT DESTROY OR DAMAGE EXISTING FENCING
  - 2.) SECTION DRAWINGS ARE PROVIDED AS A BASE REFERENCE - VERIFY ALL CONDITIONS IN FIELD.
  - 3.) SEE STRUCTURAL AND CIVIL SHEETS FOR DETAILED CONSTRUCTION INFO FOR FOOTINGS, ETC.
  - 4.) GRADE ELEVATIONS FOR LANDINGS, TOP OF CURB, TOP OF WALL ARE APPROXIMATE; FIELD ADJUSTMENTS WILL BE NECESSARY TO ADDRESS ACTUAL CONDITIONS.
  - 5.) RELOCATE IRRIGATION LINES AND SPRINKLER HEADS AS REQUIRED - TBD IN FIELD.



NEW CONCRETE RAMP - CONSTRUCTION PLAN

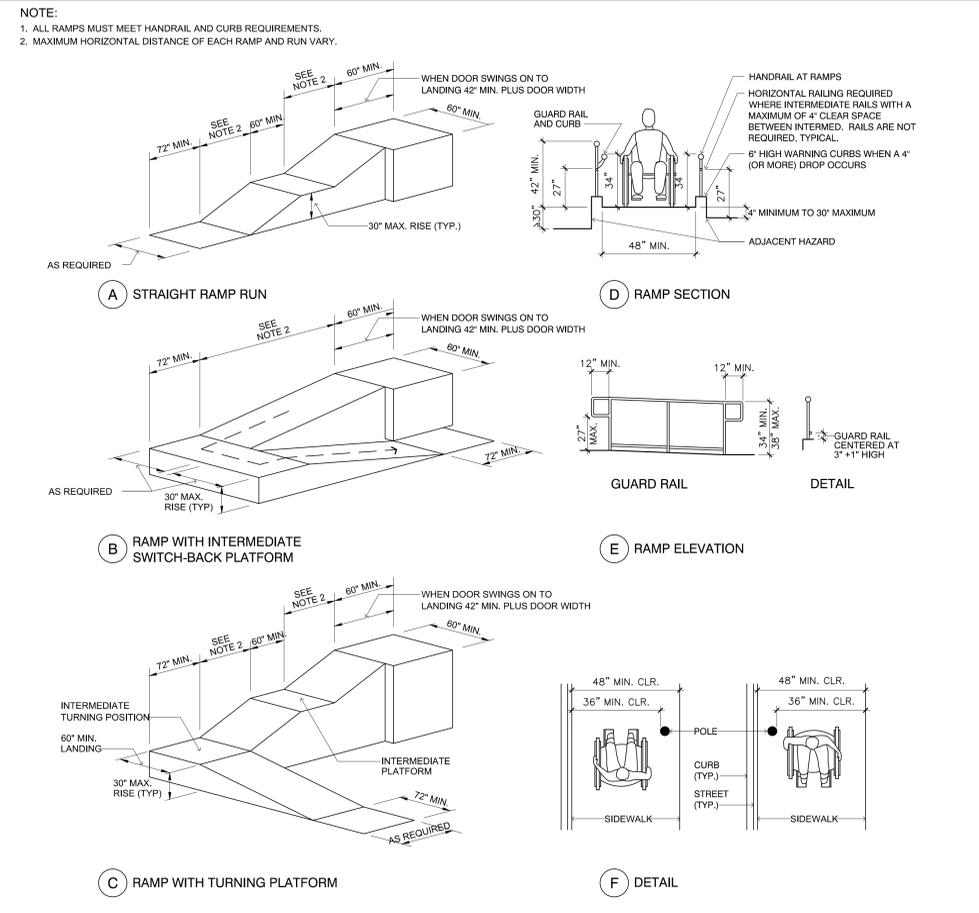
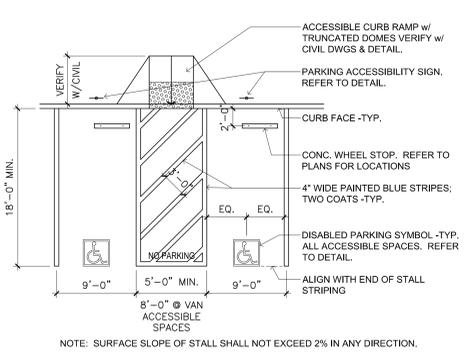
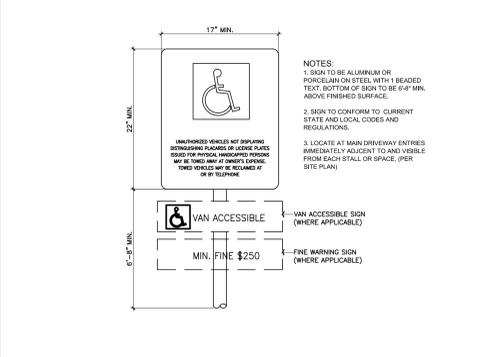
SCALE: 1/8"=1'-0"

REVIEWED BY		REVIEWED BY		<p><b>CITY OF CULVER CITY</b> PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION - CULVER CITY, CALIF.</p> <p><b>UPPER BALL FIELDS TO BABE RUTH FIELD - ENLARGED CONCRETE RAMP PLANS &amp; SECTIONS</b></p> <p><b>PARK TO PLAYA: TRAIL ALIGNMENT - SEGMENT 7</b></p>	
PATRICK REYNOLDS, PARKS DIVISION MANAGER		MATE GASPAR, ENGINEERING SERVICES MANAGER			
NO.	REVISION	BY	APPR.	DATE	PROJECT NUMBER
					APPROVED BY CHARLES D. HERBERTSON CITY ENGINEER
					Drawing No. <b>A3.0</b>
					DATE: 01/12/17

8308 McConnell Ave., Los Angeles, CA 90045  
T: 310-470-5877 F: 310-471-6026

1644 TILMAGE STREET  
LOS ANGELES, CA 90027  
T: 213.446.4572

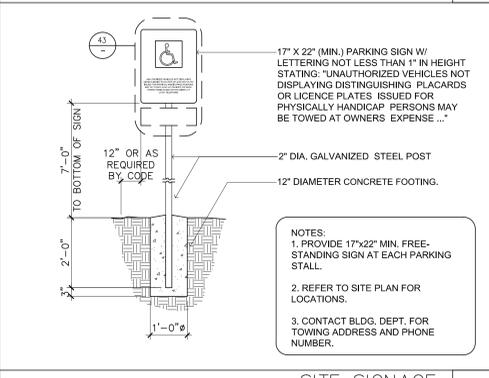
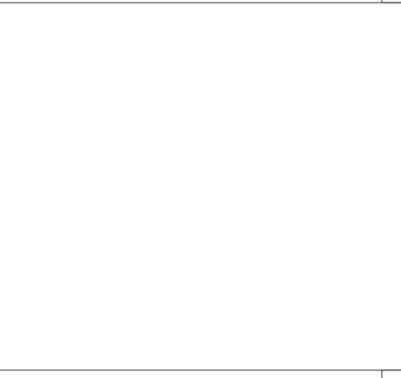




DIRECTIONAL SIGN (SAMPLE) SCALE: NONE

ACCESSIBLE PARKING NOTIFICATION SIGN SCALE: NONE

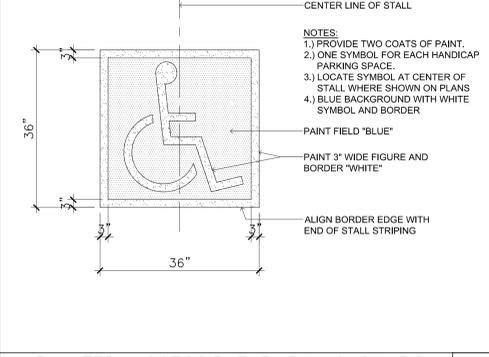
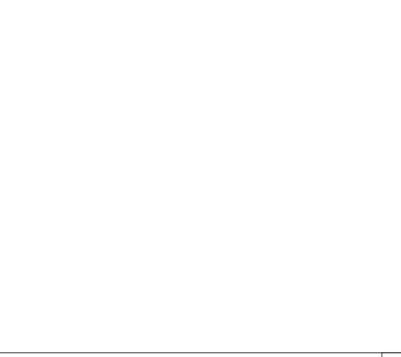
ACCESSIBLE PARKING STALL & STRIPING SCALE: NONE



SCALE: NONE

SITE SIGNAGE SCALE: NONE

CURB RAMP - TYP. SCALE: NONE



SCALE: NONE

PAINTED ACCESSIBLE PARKING SYMBOL SCALE: NONE

ACCESSIBLE CURB RAMP SECTION SCALE: NONE



SCALE: NONE

ACCESSIBLE CURB RAMP SECTION SCALE: NONE

ACCESSIBLE CURB RAMP SECTION SCALE: NONE

RAMP DETAILS & NOTES SCALE: NONE

GUARDRAIL & HANDRAIL AT RAMP SCALE: NONE

REVIEWED BY  
PATRICK REYNOLDS, PARKS DIVISION MANAGER

REVIEWED BY  
MATE GASPAR, ENGINEERING SERVICES MANAGER

**CITY OF CULVER CITY**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION - CULVER CITY, CALIF.

**SITE DETAILS & SIGNAGE**



**PARK TO PLAYA:**  
TRAIL ALIGNMENT - SEGMENT 7

APPROVED BY CHARLES D. HERBERTSON  
CITY ENGINEER

Drawing No. **A4.0**  
DRAWN BY: JK DATE: 01/12/17

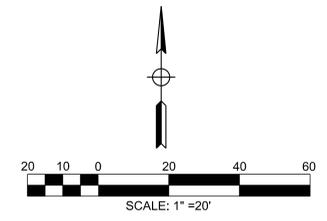
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MATCH LINE, SEE SHEET C-1

UPPER FIELD No. 2

UPPER FIELD No. 1



**NOTES:**  
 1. THIS PLAN ACCURATE FOR ADA PATH PLAN ONLY.  
 2. ELEVATIONS SHOWN ARE FOR FINISHED SURFACE, UNLESS OTHERWISE NOTED.

REVIEWED BY:	REVIEWED BY:
PATRICK REYNOLDS, PARKS DIVISION MANAGER	MATE GASPAR, ENGINEERING SERVICES MANAGER

CITY OF CULVER CITY  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION - CULVER CITY, CALIF.

ADA PATH PLAN  
 PARK TO PLAYA:  
 TRAIL ALIGNMENT, SEGMENT 7

APPROVED BY CHARLES D. HERBERTSON  
 CITY ENGINEER  
 DATE

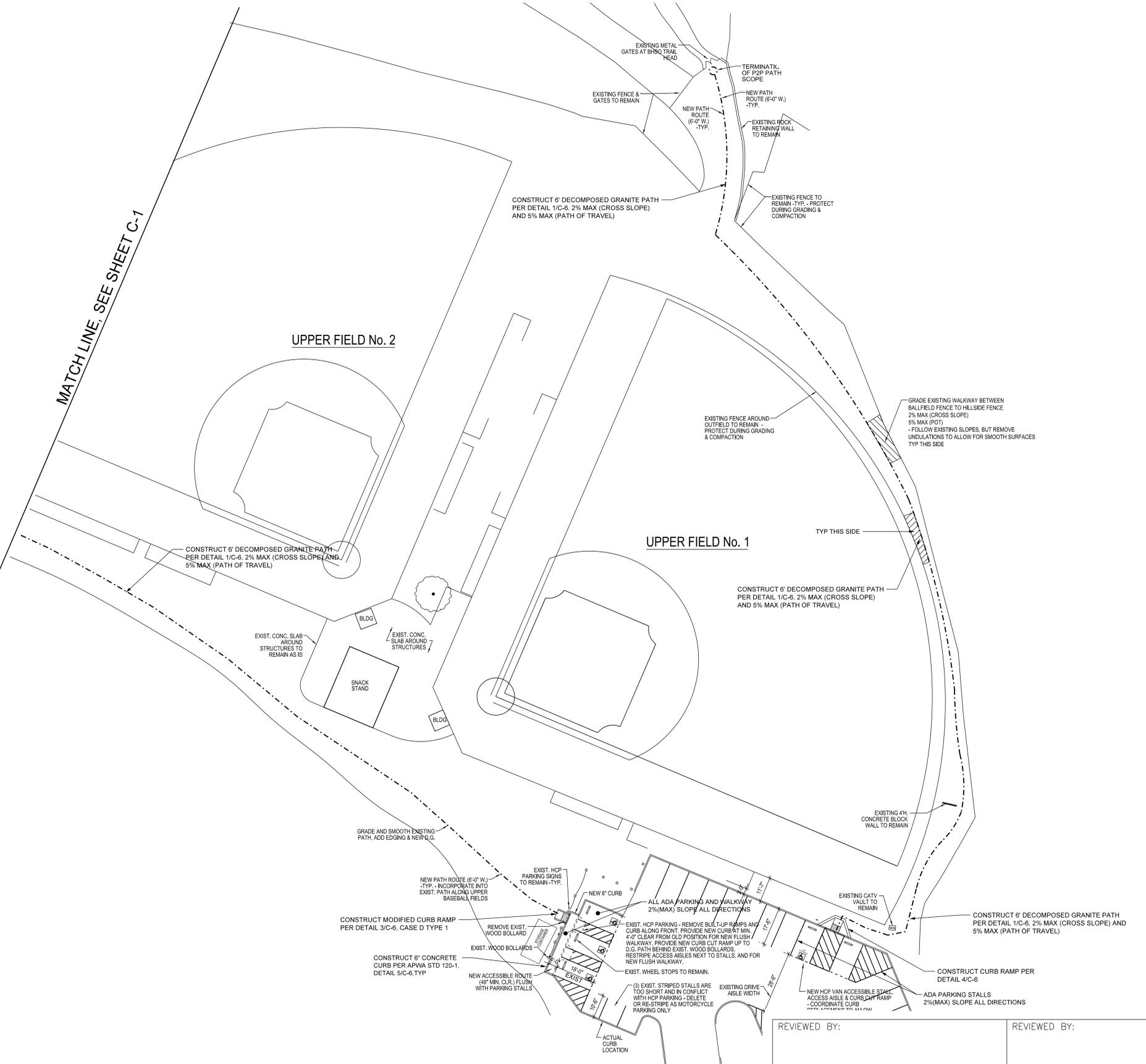
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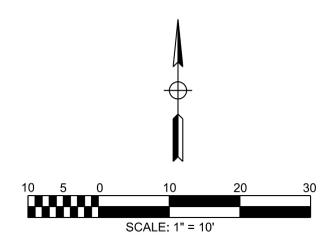
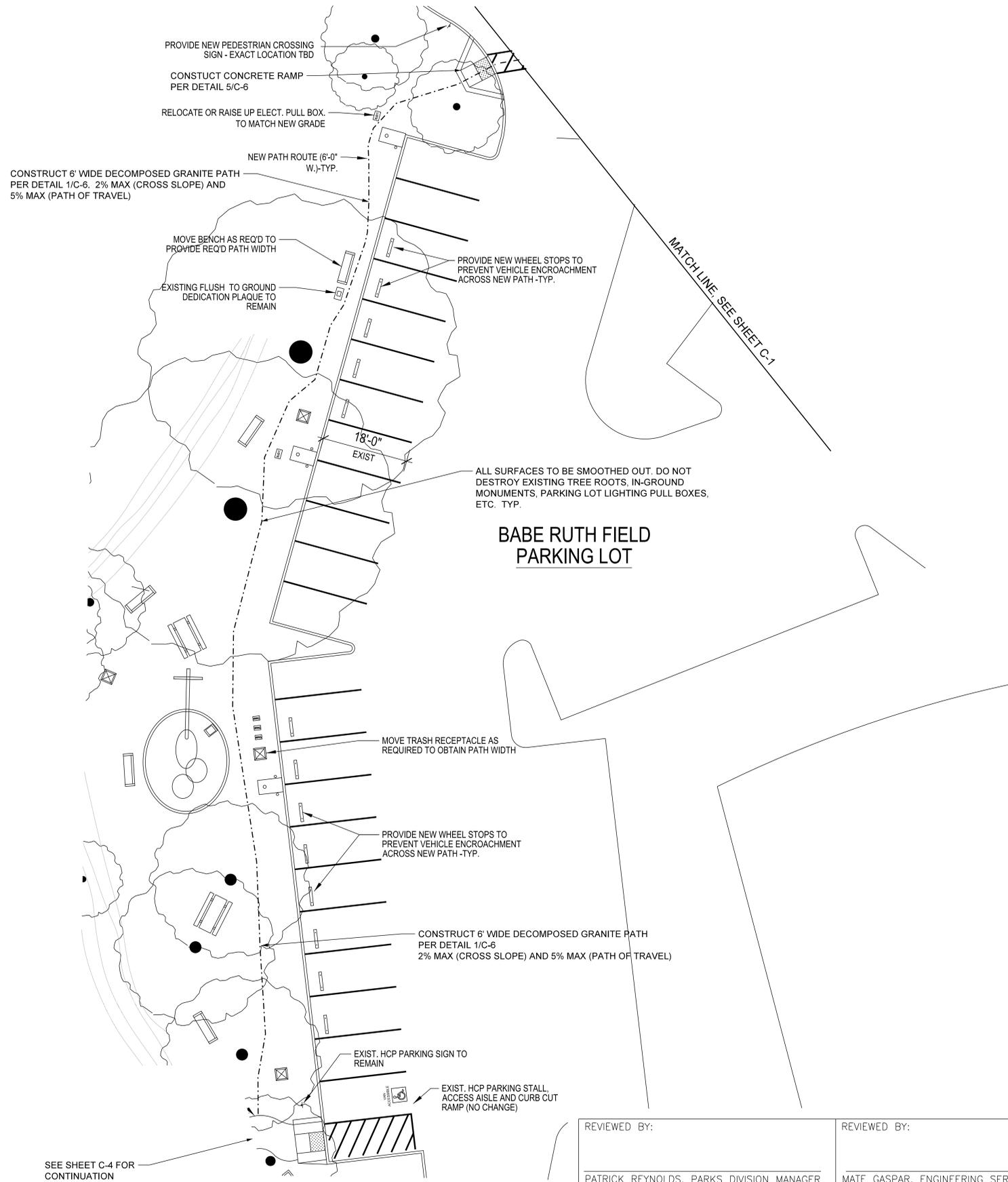
NORTH

PREPARED BY

John M. Crisobank Consultants, Inc.  
 411 N. Harbor Blvd, Suite 201  
 San Pedro, CA 90731  
 P: 310.241.6580  
 F: 310.330.8871  
 www.jmc2.com

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1					
2					
3					





**NOTES:**  
 1. THIS PLAN ACCURATE FOR ADA PATH PLAN ONLY.  
 2. ELEVATIONS SHOWN ARE FOR FINISHED SURFACE, UNLESS OTHERWISE NOTED.

SEE SHEET C-4 FOR CONTINUATION

REVIEWED BY:	REVIEWED BY:
PATRICK REYNOLDS, PARKS DIVISION MANAGER	MATE GASPAR, ENGINEERING SERVICES MANAGER

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 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION - CULVER CITY, CALIF.

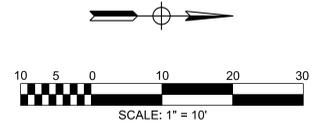
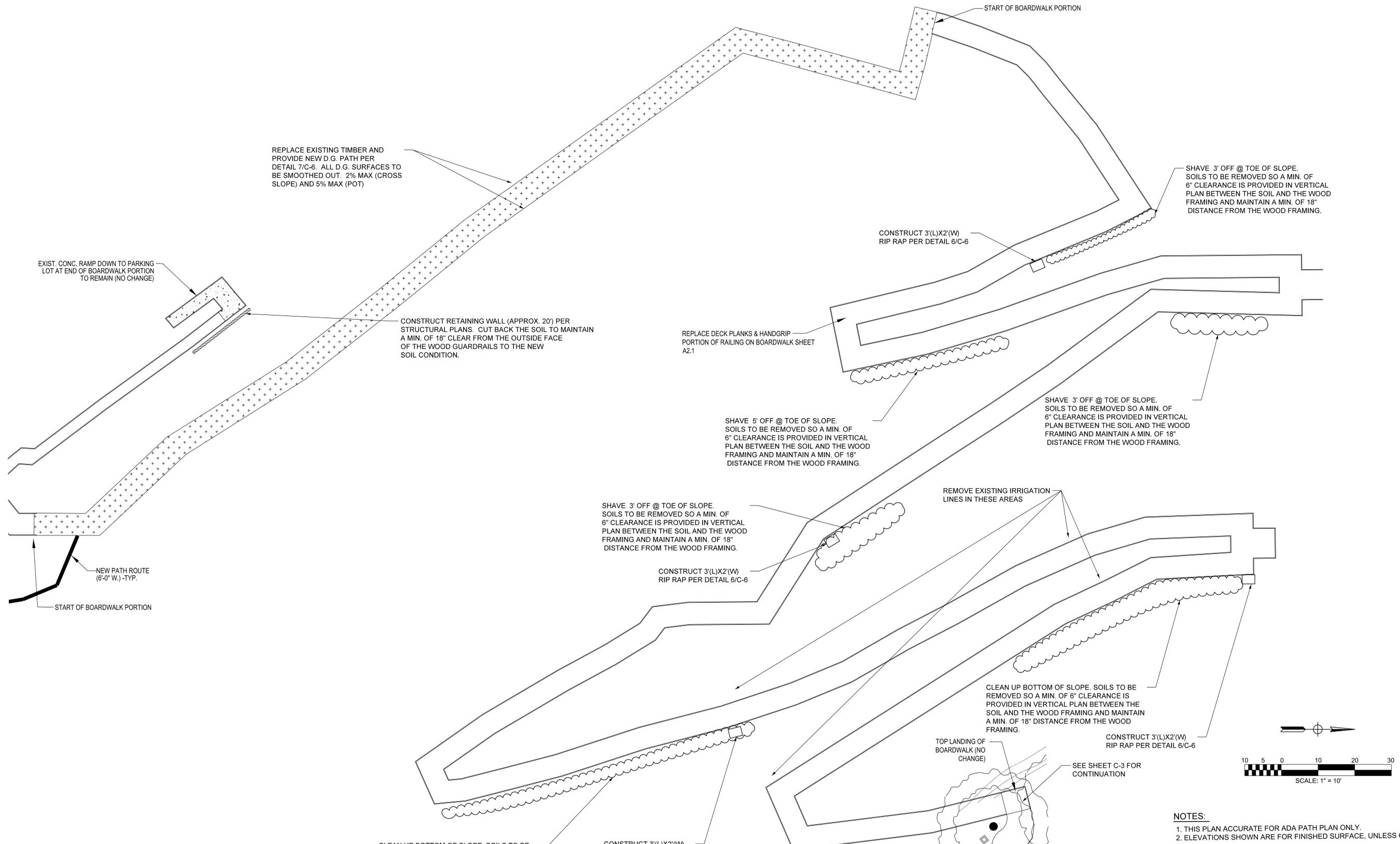
ADA PATH PLAN  
 PARK TO PLAYA:  
 TRAIL ALIGNMENT, SEGMENT 7



PREPARED BY **JMC**  
 John M. Crisostomo Consultants, Inc.  
 411 N. Harbor Blvd, Suite 201  
 San Pedro, CA 90731  
 P: 310.241.6580  
 F: 310.320.8871  
 www.jmc-2.com

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APPROVED BY CHARLES D. HERBERTSON	Drawing No. C-3
CITY ENGINEER	DATE
	DRAWN BY FS, JAN 12, 2017



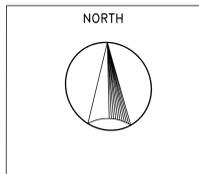
**NOTES:**  
 1. THIS PLAN ACCURATE FOR ADA PATH PLAN ONLY.  
 2. ELEVATIONS SHOWN ARE FOR FINISHED SURFACE, UNLESS OTHERWISE NOTED.

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PATRICK REYNOLDS, PARKS DIVISION MANAGER	MATE GASPAR, ENGINEERING SERVICES MANAGER

CITY OF CULVER CITY  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION – CULVER CITY, CALIF.

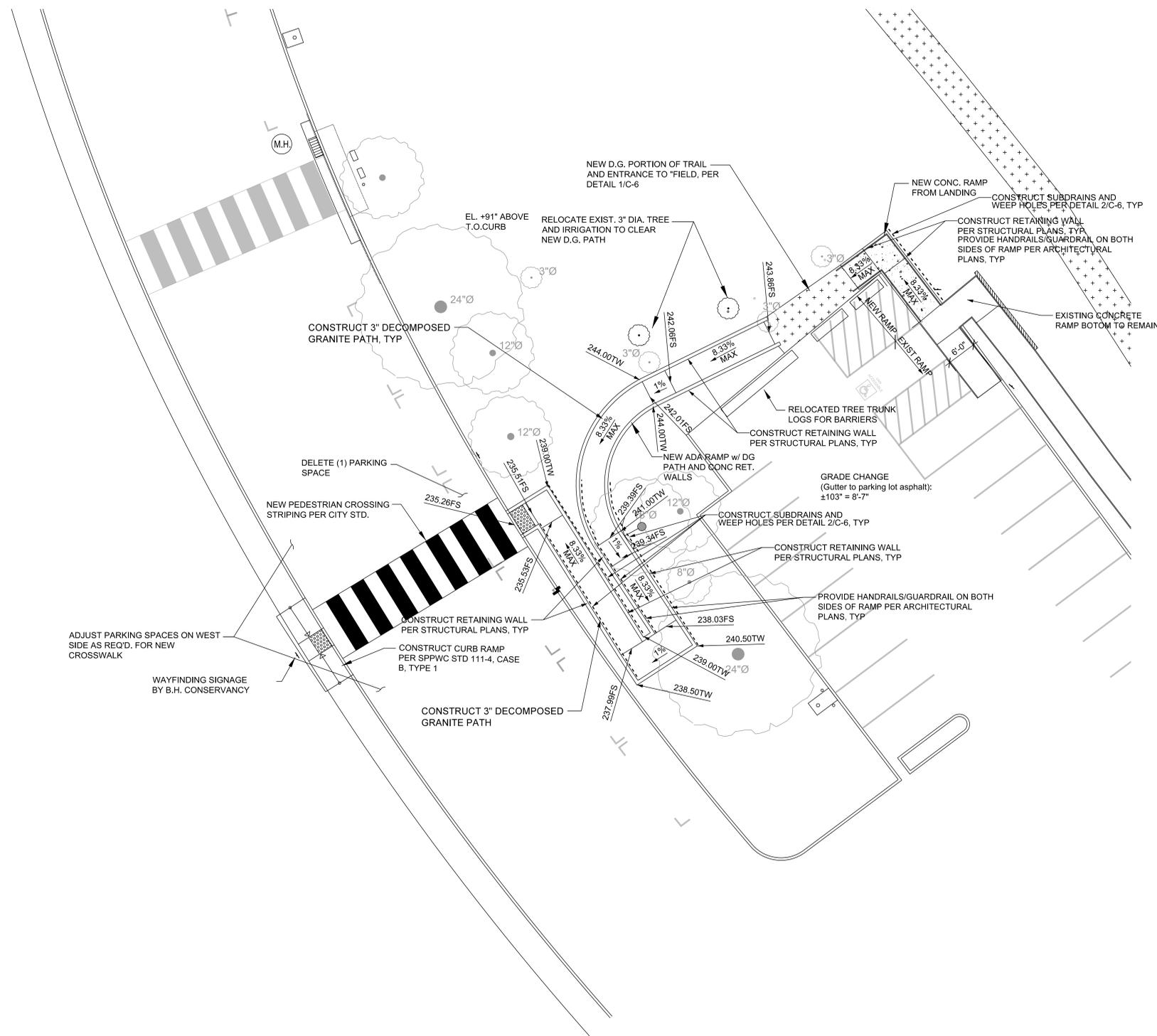
ADA PATH PLAN  
 PARK TO PLAYA:  
 TRAIL ALIGNMENT, SEGMENT 7

APPROVED BY CHARLES D. HERBERTSON CITY ENGINEER	DATE	Drawing No. C-4 DRAWN BY FS, JAN 12, 2017
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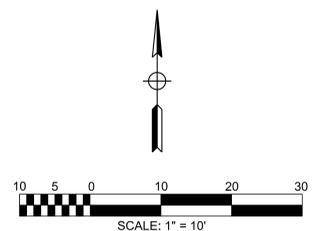
PREPARED BY **JMC<sup>2</sup>**  
 John M. Crisostomo Consultants, Inc.  
 411 N. Harbor Blvd, Suite 201  
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2					
3					



**ABBREVIATIONS**

FG	FINISH GRADE
FS	FINISH SURFACE
INV	INVERT ELEVATION
TC	TOP OF CURB
TG	TOP OF GRATE
TW	TOP OF WALL



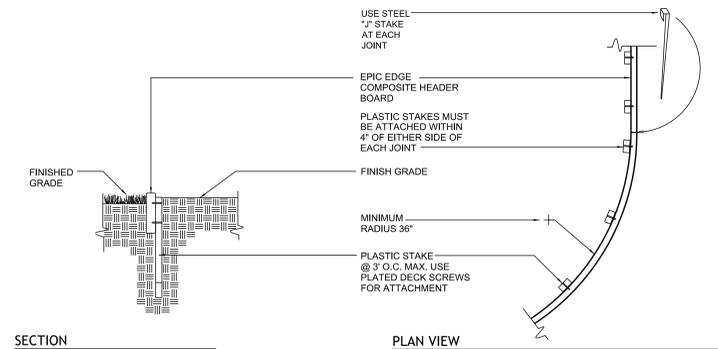
- NOTES:**
1. THIS PLAN ACCURATE FOR ADA PATH PLAN ONLY.
  2. ELEVATIONS SHOWN ARE FOR FINISHED SURFACE BASED ON TOPO SURVEY AND FIELD MEASUREMENTS PROVIDED BY CLIENT. CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS.

REVIEWED BY:	REVIEWED BY:	CITY OF CULVER CITY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION – CULVER CITY, CALIF.
PATRICK REYNOLDS, PARKS DIVISION MANAGER	MATE GASPAR, ENGINEERING SERVICES MANAGER	

PREPARED BY **JMC<sup>2</sup>**  
 John M. Crisostomo Consultants, Inc.  
 411 N. Harbor Blvd, Suite 201  
 San Pedro, CA 90731  
 P: 310.241.6580  
 F: 310.330.8871  
 www.jmc-2.com

1						
2						
3						
NO.	REVISION	BY	APPR.	DATE	PROJECT NUMBER	

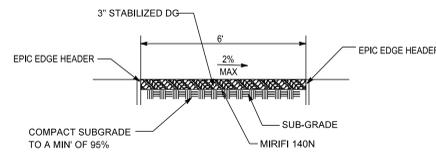
ADA PATH PLAN	
PARK TO PLAYA: TRAIL ALIGNMENT, SEGMENT 7	
APPROVED BY CHARLES D. HERBERTSON	Drawing No. C-5
CITY ENGINEER	DATE
	DRAWN BY FS, JAN 12, 2017



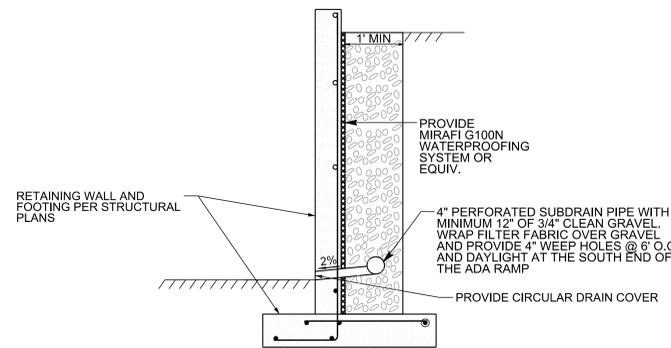
HDR. SIZE	ACTUAL DIMENSIONS	MINIMUM RADIUS POSSIBLE
1X 6	5.7/16" x 9/16" x 20"	36"

**EPIC EDGE CHART**  
 COLOR OPTION: CARMEL BROWN  
 MANUFACTURED BY: EPIC PLASTICS, 104 EAST TURNER RD., LODI CA 95240  
 URL ADDRESS: www.epicplastics.com

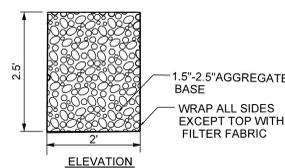
NOTE:  
 1. USE COARSE WOOD WORKING TOOLS FOR CUTTING & DRILLING



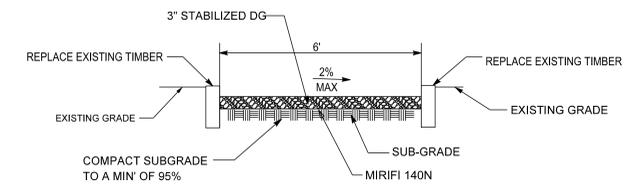
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 C-6



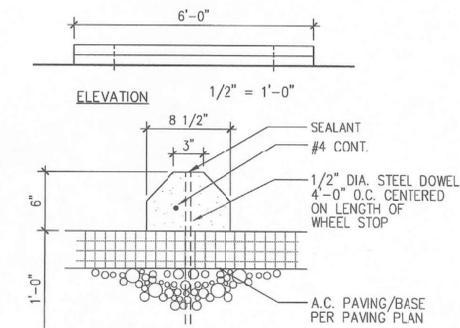
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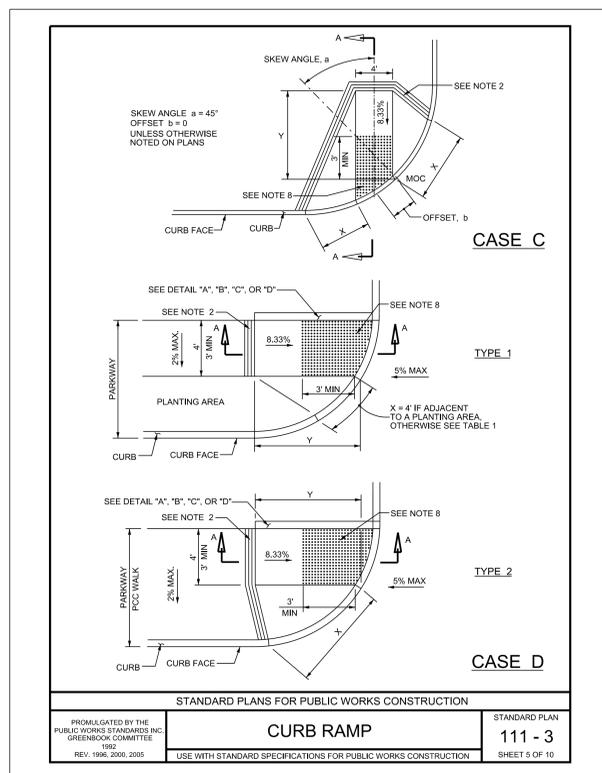
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 C-6



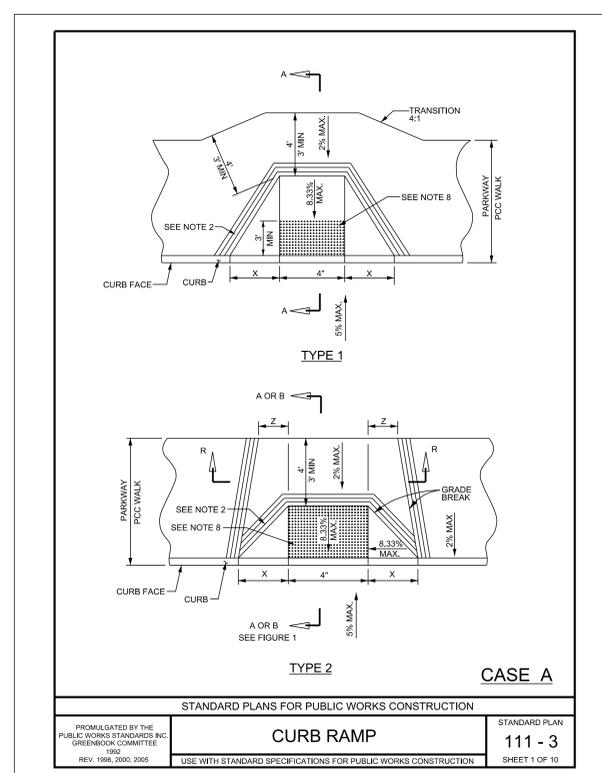
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 C-6



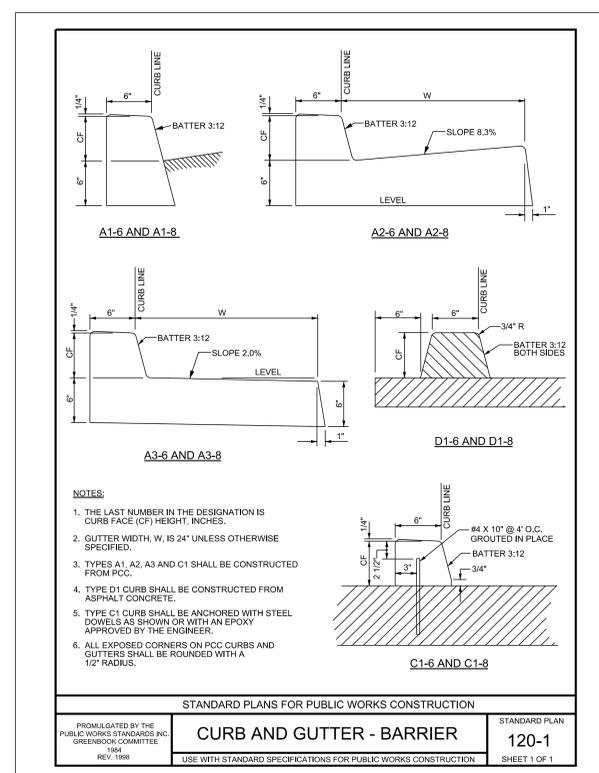
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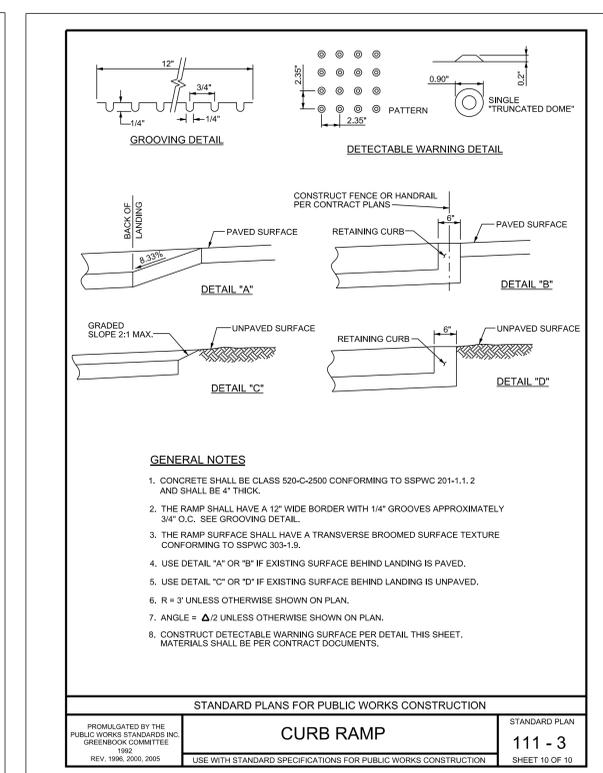
**3**  
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 C-6



**4**  
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 C-6



**5**  
 NOT TO SCALE  
 C-6



REVIEWED BY:  
 PATRICK REYNOLDS, PARKS DIVISION MANAGER

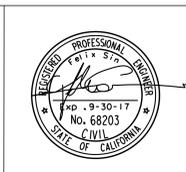
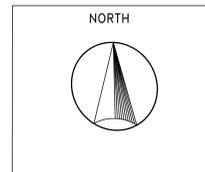
REVIEWED BY:  
 MATE GASPAR, ENGINEERING SERVICES MANAGER

CITY OF CULVER CITY  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION - CULVER CITY, CALIF.

CONSTRUCTION DETAILS  
 PARK TO PLAYA:  
 TRAIL ALIGNMENT, SEGMENT 7

APPROVED BY CHARLES D. HERBERTSON  
 CITY ENGINEER

DRAWING No. C-6  
 DRAWN BY FS, JAN 12, 2017



PREPARED BY  
**JMC**  
 John M. Crisostomo Consultants, Inc.  
 411 N. Harbor Blvd, Suite 201  
 San Pedro, CA 90731  
 P: 310.241.6590  
 F: 310.330.9871  
 No. 68203  
 www.jmc-2.com

NO.	REVISION	BY	APPR.	DATE	PROJECT NUMBER
1					
2					
3					
NO.					

**STRUCTURAL OBSERVATION**

PERIODIC STRUCTURAL OBSERVATION SHALL BE PROVIDED BY JOHN LABIB & ASSOCIATES, STRUCTURAL ENGINEERS, PER THE ATTACHED L.A. CITY P/BC 2001-24. CONTRACTOR SHALL NOTIFY ENGINEER 72 HOURS BEFORE REQUIRED OBSERVATIONS. DELINQUENT NOTIFICATION MAY REQUIRE DEMOLITION OF COVERING MATERIAL TO FACILITATE OBSERVATION.

LOS ANGELES REGIONAL UNIFORM CODE PROGRAM COMMITTEE 1-3, STRUCTURAL OBSERVATION

STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER

PROJECT ADDRESS: 9700 JEFFERSON BLVD.  
OWNER:  
ARCHITECT: KOLONDY ARCHITECTS  
ENGINEER: JOHN LABIB AND ASSOCIATES

STRUCTURAL OBSERVATION (ONLY CHECKED ITEMS ARE REQUIRED)			
FIRM OR INDIVIDUAL TO BE RESPONSIBLE FOR THE STRUCTURAL OBSERVATION: NAME: JOHN LABIB & ASSOC. PHONE: (213) 239-9700 CALIF. REGISTRATION: S4549			
FOUNDATION	WALL	FRAME	DIAPHRAGM
FOOTINGS, STEM WALLS, PIERS <input type="checkbox"/>	CONCRETE <input checked="" type="checkbox"/>	STEEL MOMENT FRAME <input type="checkbox"/>	CONCRETE <input type="checkbox"/>
MAT FOUNDATION <input type="checkbox"/>	MASONRY <input type="checkbox"/>	STEEL BRACED FRAME <input type="checkbox"/>	STEEL DECK <input type="checkbox"/>
CAISSONS, PILES, GRADE BEAMS <input type="checkbox"/>	WOOD <input type="checkbox"/>	CONCRETE MOMENT FRAME <input type="checkbox"/>	WOOD <input type="checkbox"/>
STEPP'G/RET'G FOUND., HILLSIDE SPECIAL ANCHORS <input type="checkbox"/>	HARDY FRAMES STRONG WALLS <input type="checkbox"/>	MASONRY FRAME <input type="checkbox"/>	<input type="checkbox"/>
OTHERS <input type="checkbox"/>	OTHERS <input type="checkbox"/>	OTHERS <input type="checkbox"/>	OTHERS <input type="checkbox"/>

**DECLARATION BY OWNER**

I, THE OWNER OF THE PROJECT, DECLARE THAT THE ABOVE LISTED FIRM OR INDIVIDUAL IS HIRED BY ME TO BE THE STRUCTURAL OBSERVER.

SIGNATURE DATE

**STATEMENT OF SPECIAL INSPECTION**

- CONTINUOUS AND PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE WORK AS DESCRIBED IN CBC 2013 CHAPTER 17. SEE INSPECTION SCHEDULE BELOW. ONLY CHECKED ITEMS ARE REQUIRED.
- APPROVAL BY THE INSPECTOR DOES NOT MEAN APPROVAL OF FAILURE TO COMPLY WITH THE PLANS OR SPECIFICATIONS. ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE STRUCTURAL ENGINEER FOR INTERPRETATION OR CLARIFICATION.
- FOR VERIFICATION AND INSPECTION OF SOILS SEE SOILS REPORT.
- CONTINUOUS SPECIAL INSPECTION PER AWS D1.1 IS REQUIRED FOR ALL STRUCTURAL STEEL WELDING, EXCEPT FOR SINGLE PASS FILLET WELDS NOT EXCEEDING 1/2" IN SIZE. WELDING INSPECTORS SHALL BE AWS Q.C.-1 CERTIFIED.
- STRUCTURAL WOOD PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS, AND HOLDOWNS. EXCEPTION: SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM, WHERE THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER (O.C.). INSPECTIONS SHALL BE PERFORMED BEFORE COVERING.
- CONTRACTORS RESPONSIBLE FOR CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THIS STATEMENT OF SPECIAL INSPECTION SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE LABS INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH A SYSTEM OR COMPONENT PER SEC. 1704.4.
- WHERE FABRICATION OF MEMBERS AND ASSEMBLIES IS PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED BY THIS SECTION, UNLESS THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL, STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE OF VERIFYING APPROVAL OF FABRICATOR.

INSPECTION SCHEDULE		
TYPE OF WORK	CODE REFERENCE	REMARKS
CONCRETE WORK	CBC TABLE 1705.3	<input checked="" type="checkbox"/>
SHOTCRETE WORK	CBC TABLE 1705.3	<input type="checkbox"/>
REINFORCING STEEL	CBC TBL 1705.2.2 1705.3	<input type="checkbox"/>
POST INSTALLED ANCHORS	CBC TABLE 1705.3	SEE ALSO ICC APPROVAL <input type="checkbox"/>
STRUCTURAL STEEL	CBC 1705.2	<input type="checkbox"/>
STRUCTURAL STEEL WELDING	CBC 1705.2	<input type="checkbox"/>
HIGH STRENGTH BOLTING	CBC 1705.2	<input type="checkbox"/>
MASONRY WORK	CBC 1705.4	<input type="checkbox"/>
HIGH LOAD DIAPHRAGMS	CBC 1705.5.1	<input type="checkbox"/>
STRUCTURAL WOOD	CBC 1705.10.1 & 1705.11.2	SEE NOTE ABOVE <input type="checkbox"/>
COLD FORMED STEEL	CBC 1705.10.2 & 1705.11.3	<input type="checkbox"/>
DRIVEN DEEP FOUND. ELEMENT	CBC TABLE 1705.7	<input type="checkbox"/>
CAST IN PLACE DEEP FOUND.	CBC TABLE 1705.8	<input type="checkbox"/>
SOIL CONDITION	CBC TABLE 1705.6	SEE SOILS REPORT FOR COMPLIANCE <input type="checkbox"/>
STEEL DECK & WELDING	CBC 1705.2.2	<input checked="" type="checkbox"/>

**STRUCTURAL OBSERVATION**

- PERIODIC STRUCTURAL OBSERVATION SHALL BE PROVIDED BY JOHN LABIB & ASSOCIATES, STRUCTURAL ENGINEERS, PER THE ATTACHED L.A. CITY P/BC 2002-024. CONTRACTOR SHALL NOTIFY ENGINEER 72 HOURS BEFORE REQUIRED OBSERVATIONS. DELINQUENT NOTIFICATION MAY REQUIRE DEMOLITION OF COVERING MATERIAL TO FACILITATE OBSERVATION.
- STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH THE INFORMATION BULLETIN NO. P/BC 2002-024 STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION AT THE CONSTRUCTION SITE OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.
- THE OWNER SHALL EMPLOY A STATE OF CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER OR LICENSED ARCHITECT TO PERFORM THE STRUCTURAL OBSERVATION. THE DEPARTMENT OF BUILDING AND SAFETY (LABS) RECOMMENDS THE USE OF THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN WHO ARE INDEPENDENT OF THE CONTRACTOR.
- THE STRUCTURAL OBSERVER SHALL PROVIDE EVIDENCE OF EMPLOYMENT BY THE OWNER OR THE OWNER'S REPRESENTATIVE. A LETTER FROM THE OWNER, THE OWNER'S REPRESENTATIVE, OR A COPY OF THE AGREEMENT FOR SERVICES SHALL BE SENT TO THE BUILDING INSPECTOR BEFORE THE FIRST SITE VISIT.
- THE OWNER OR OWNER'S REPRESENTATIVE SHALL COORDINATE AND CALL FOR A MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND DEPUTY INSPECTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE BUILDING INSPECTOR.
- THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE LISTED SIGNIFICANT CONSTRUCTION STAGES ON THE FOLLOWING STRUCTURAL OBSERVATION/SIGNIFICANT CONSTRUCTION STAGES TABLE REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.
- THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT OF THE STRUCTURAL OBSERVATION REPORT FORM N/FORM.08 (PART 1) FOR EACH SIGNIFICANT STAGE OF CONSTRUCTION OBSERVED. THE ORIGINAL OF THE STRUCTURAL OBSERVATION REPORT SHALL BE SENT TO THE BUILDING INSPECTOR'S OFFICE AND SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER. ONE COPY OF THE OBSERVATION REPORT SHALL BE ATTACHED TO THE APPROVED PLANS. THE COPY ATTACHED TO THE PLANS SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER OR THEIR DESIGNEE. COPIES OF THE REPORT SHALL ALSO BE GIVEN TO THE OWNER, CONTRACTOR, AND DEPUTY INSPECTOR. ANY DEFICIENCY NOTED ON THE OBSERVATION REPORT WILL BECOME THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD TO VERIFY ITS COMPLETION BY HIM (HER), OR BY A REGISTERED DEPUTY INSPECTOR AT THE DISCRETION OF THE STRUCTURAL OBSERVER.
- A FINAL OBSERVATION REPORT AND THAT OF THE REGISTERED DEPUTY INSPECTOR MUST BE SUBMITTED WHICH SHOWS THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND STRUCTURAL SYSTEM GENERALLY CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. THE DEPARTMENT OF BUILDING AND SAFETY (LABS) WILL NOT ACCEPT THE STRUCTURAL WORK WITHOUT THIS FINAL OBSERVATION REPORT AND THAT OF THE REGISTERED DEPUTY INSPECTOR (WHEN PROVIDED) AND THE CORRECTION OF SPECIFIC DEFICIENCIES NOTED DURING NORMAL BUILDING INSPECTION.
- THE STRUCTURAL OBSERVER SHALL PROVIDE THE ORIGINAL STAMPED AND SIGNED STRUCTURAL OBSERVATION REPORT TO THE CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY BUILDING INSPECTOR.
- WHEN THE OWNER ELECTS TO CHANGE THE STRUCTURAL OBSERVER OF RECORD, THE OWNER SHALL:
  - NOTIFY THE BUILDING INSPECTOR IN WRITING BEFORE THE NEXT INSPECTION BY SUBMITTING COMPLETED "STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER" FORM IN/FORM.08 (PART 2)
  - CALL AN ADDITIONAL PRECONSTRUCTION MEETING, AND
  - FURNISH THE REPLACEMENT STRUCTURAL OBSERVER WITH A COPY OF ALL PREVIOUS OBSERVATION REPORTS. THE REPLACEMENT STRUCTURAL OBSERVER SHALL APPROVE THE CORRECTION OF THE ORIGINAL OBSERVED DEFICIENCIES, UNLESS OTHERWISE APPROVED BY PLAN CHECK SUPERVISION. THE POLICY OF THE DEPARTMENT SHALL BE TO CORRECT ANY PROPERTY NOTED DEFICIENCIES WITHOUT CONSIDERATION OF THEIR SOURCE.
- THE ENGINEER OR ARCHITECT OF RECORD SHALL DEVELOP ALL CHANGES RELATING TO THE STRUCTURAL SYSTEMS. THE BUILDING DEPARTMENT SHALL REVIEW AND APPROVE ALL CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS.
- STRUCTURAL OBSERVATIONS PERFORMED BY ENGINEER DURING CONSTRUCTION ARE NOT CONTINUOUS AND SPECIAL INSPECTION SERVICES AND DO NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR. OBSERVATIONS DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION.

**CONCRETE**

- CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF AC308.8 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," AND THE LATEST EDITION OF AC311.7 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"
- ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AND A MAX WATER CEMENT RATIO W/C AS FOLLOWS:
 

LOCATION	STRENGTH	W/C	TYPE OF CONCRETE
ALL LOCATIONS U.N.O.	4,000 PSI	0.50	NORMAL WEIGHT
- NO MORE THAN ONE GRADE OF CONCRETE SHALL BE ON THE JOB SITE AT ANY ONE TIME.
- ALL STRUCTURAL CONCRETE MIXES SHALL BE DESIGNED BY AN APPROVED LABORATORY AND SHALL BE STAMPED AND SIGNED BY A CIVIL ENGINEER LICENSED IN CALIFORNIA.
- CONCRETE MIXES SHALL BE PREPARED WITH TYPE II/V PORTLAND CEMENT CONFORMING TO ASTM C150.
- CONCRETE MIX DESIGNS CONTAINING FLY ASH MAY BE USED WHERE CONCRETE IS NOT VISUALLY EXPOSED. FLY ASH SHALL CONFORM WITH ASTM C618 AND MAY REPLACE UP TO 20% PORTLAND CEMENT BY VOLUME.
- NORMAL WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33. LIGHT WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C330.
- WATER USED IN MIXING CONCRETE SHALL CONFORM WITH ASTM C1602.
- THOROUGHLY CLEAN AND ROUGHEN ALL HARDENED CONCRETE AND MASONRY SURFACES TO RECEIVE NEW CONCRETE. INTERFACE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF 1/4" UNLESS NOTED OTHERWISE.
- KEY AND DOWEL POUR JOINTS AS SHOWN ON THE PLANS. ANY DEVIATION FROM POUR JOINTS SHOWN ON THE PLANS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.
- NON-SHRINK CEMENT GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 7000 PSI. USE "SQUIRETE" (LARR #25451) OR "TRAPID SET" (LARR #24654).
- DEFECTIVE CONCRETE (VOIDS, ROOK POCKETS, HONEYCOMBS, CRACKING, ETC.) SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- WHEN WATER OVER 3" IN DEPTH IS PRESENT IN THE DRILLED PILE HOLES:
  - A CONCRETE MIX WITH A STRENGTH OF 1,000 PSI GREATER THAN THE SPECIFICATIONS LISTED ABOVE WITH A MINIMUM OF 5,000 PSI AND MAX W/C = 0.45 WILL BE USED.
  - AN ADMIXTURE THAT REDUCES THE PROBLEM OF SEGREGATION OF PASTE/AGGREGATES AND DILUTION OF PASTE SHALL BE INCLUDED.

**REINFORCEMENT**

- ALL REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60, UNLESS NOTED OTHERWISE ON THE DRAWINGS AND BELOW:
  - SPIRALS SHALL BE COLD DRAWN BARS CONFORMING TO ASTM A-82. REINFORCING FOR DIAPHRAGMS AND FOUNDATIONS MAY BE GRADE 75 IN LIEU OF GRADE 60, AT THE CONTRACTOR'S OPTION. MAINTAIN OVERALL CAPACITY OF ELEMENTS WHERE GRADE 75 REINFORCING IS PROPOSED FOR USE. IN GENERAL, REDUCE REQUIRED STEEL AREA IN PROPORTION TO RATIO OF YIELD STRENGTH. MAINTAIN BAR SPACING SHOWN ON PLANS, DETAILS, AND SCHEDULES.
  - MOMENT FRAME LONGITUDINAL REBAR, COLUMN LONGITUDINAL REBAR, SHEAR WALL VERTICAL REBAR, AND COUPLING BEAM LONGITUDINAL REBAR SHALL BE EITHER ASTM A-706 (Fy=60 KSI) OR ASTM A-615, GRADE 60, WITH ACTUAL YIELD STRENGTH BASED ON MILL TESTS NOT GREATER THAN 78 KSI.
  - SMOOTH DOWELS IN SLAB ON GRADE: ASTM A36, 36 KSI
- WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE NOT BE DONE UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS. WHERE SHOWN ON THE DRAWINGS, THE FOLLOWING SHALL APPLY:
  - WELDED REBAR SHALL COMPLY WITH ASTM A-706 (Fy=60 KSI)
  - WELDING SHALL CONFORM TO AWS D1.4
  - WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY WELDERS CERTIFIED BY THE CITY OF LA. USE E50K ELECTRODES
- WELDED WIRE FABRIC SHALL BE MADE OF COLD DRAWN WIRE AND SHALL CONFORM TO ASTM A-185 (Fy=65 KSI) MINIMUM LAP AT SPICES OF 12 INCHES. PROVIDE MESH IN FLAT SHEETS ONLY. ROLLED MESH IS NOT ACCEPTABLE. OFFSET END-LAPS IN ADJACENT SHEETS TO PREVENT CONCRETE LAPS.
- REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER. SEE ACI FOR TOLERANCES:
  - CONCRETE POURED AGAINST EARTH 3"
  - FORMED CONCRETE IN CONTACT WITH EARTH 2"
  - CONCRETE EXPOSED TO WEATHER (#6 AND LARGER) 2"
  - CONCRETE EXPOSED TO WEATHER (#5 AND SMALLER) 1-1/2"
  - SLABS (INCLUDING SLAB SUPPORTING EARTH), WALLS, AND JOISTS NOT EXPOSED TO WEATHER (#11 AND SMALLER) 1"
  - OTHER CONCRETE NOT EXPOSED TO WEATHER 1-1/2"
- #5 AND LARGER REINFORCING BARS SHALL NOT BE SPLICED EXCEPT AS LOCATED AND DETAILED ON THE DRAWINGS. #4 AND SMALLER BARS WITH LENGTHS NOT SHOWN SHALL BE CONTINUOUS. PROVIDE CLASS 'B' SPLICE UNLESS NOTED OTHERWISE. ALL BARS IN MASONRY SHALL BE CONTINUOUS, LAPPING 48 BAR DIAMETERS, 2'-0" MINIMUM. HORIZONTAL WALL SPICES SHALL BE STAGGERED. VERTICAL BARS SHALL NOT BE SPLICED EXCEPT AT HORIZONTAL SUPPORTS, SUCH AS FLOOR OR ROOF, UNLESS DETAILED OTHERWISE. ALL BARS ENDING AT THE FACE OF A WALL, COLUMN, OR BEAM SHALL EXTEND TO WITHIN 2" OF THE FAR FACE AND HAVE A 90 DEGREE HOOK, UNLESS OTHERWISE SHOWN.
- BARS SHALL BE FIRMLY SUPPORTED AND ACCURATELY PLACED AS REQUIRED BY THE ACI STANDARDS, USING TIE AND SUPPORT BARS IN ADDITION TO REINFORCEMENT SHOWN WHERE NECESSARY FOR FIRM AND ACCURATE PLACING. PROVIDE DOWELS TO MATCH ALL REINFORCEMENT AT POUR JOINTS, UNLESS SHOWN OR NOTED OTHERWISE. ALL DOWELS AND BOLTS SHALL BE ACCURATELY SET IN PLACE BEFORE PLACING CONCRETE. NO WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE DONE UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER. ALL SLAB AND BEAM REINFORCEMENT SHALL BE CHAIRED UP.
- IN WALL REINFORCING, CURTAINS CONTAINING VERTICAL AND HORIZONTAL BARS OF THE SAME SIZE, VERTICAL BARS SHALL BE PLACED CLOSEST TO THE WALL SURFACE. IN CURTAINS WHICH VERTICAL AND HORIZONTAL BARS ARE OF DIFFERENT SIZES OR SPACING, THE LAYER WITH THE MOST STEEL SHALL BE PLACED CLOSEST TO THE NEAR SURFACE.
- ALL BARS INTERRUPTED BY STRUCTURAL STEEL SHALL EXTEND TO WITHIN 1" OF STRUCTURAL STEEL FLANGE OR WEB AND HAVE A 90 DEGREE HOOK, UNLESS OTHERWISE SHOWN.
- DRAWINGS SHOW TYPICAL REINFORCING CONDITIONS. CONTRACTOR SHALL PREPARE DETAILED PLACEMENT DRAWINGS OF ALL CONDITIONS SHOWING QUANTITY, SPACING, SIZES, CLEARANCES, LAPS, INTERSECTIONS, AND COVERAGE REQUIRED BY THE STRUCTURAL DETAILS, APPLICABLE CODE, AND TRADE STANDARDS. CONTRACTOR SHALL NOTIFY REINFORCING INSPECTOR OF ANY ADJUSTMENTS FROM TYPICAL CONDITIONS WHICH ARE PROPOSED IN PLACEMENT DRAWINGS TO FACILITATE FIELD PLACEMENT OF REINFORCING STEEL AND CONCRETE.
- ALL PRINCIPAL REBAR SHALL TERMINATE WITH A STANDARD HOOK MINIMUM UNLESS SPECIFICALLY DETAILED OTHERWISE. REBAR BENDS SHALL BE MADE COLD. REBAR SHALL NOT BE BENT AFTER ANY PORTION OF THE BAR IS ENCASED IN CONCRETE.
- ALL LAP SPICES ARE CLASS 'B' LAP SPICES UNLESS NOTED OTHERWISE.
- ALL WALL FOOTING REINFORCEMENT SHALL BEND AROUND ALL CORNERS AND EXTEND 36 BAR DIAMETERS OR 18 INCHES WHICHEVER IS LARGER. UNLESS NOTED OTHERWISE.
- ALL SLABS ON GRADE LESS THAN 6" IN THICKNESS SHALL BE REINFORCED WITH #4 REBARS AT 16 INCHES ON CENTERS EACH WAY, UNLESS NOTED OTHERWISE. PROVIDE ONE (1) LAYER OF 6X6/W2.9XW2.9 WELDED WIRE FABRIC CONTINUOUS FOR EVERY 3" ARCHITECTURAL CONCRETE FILLS ABOVE THE STRUCTURAL SLAB.
- ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT PADS LESS THAN 4" THICK SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 6X6/W2.9XW2.9 WELDED WIRE FABRIC AND HAVE HOOKED DOWELS (#3 AT 12" ON CENTERS) INTO THE STRUCTURAL SLAB, UNLESS NOTED OTHERWISE. FOR PADS GREATER THAN 4 INCHES THICK, USE REINFORCING AS SHOWN IN THE TYPICAL DETAILS.
- ADDITIONAL REINFORCEMENT SHALL BE PROVIDED AROUND ALL SLAB AND WALL OPENINGS INCLUDING DIAGONAL BARS WITHOUT EXCEPTION.
- ALL STRUCTURAL CONCRETE ELEMENTS REQUIRE REINFORCEMENT SINCE NO PLAIN CONCRETE ELEMENTS ARE USED. ALL CONCRETE SLABS SHALL HAVE A MINIMUM REINFORCEMENT PERCENTAGE OF 0.18 EACH WAY CONTINUOUS.

**GENERAL**

- ALL NEW CONSTRUCTION SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND THE 2013 CALIFORNIA BUILDING CODE AND ALL LOCAL AMENDMENTS.
- REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES ARE TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.
- TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS NOTED OTHERWISE (U.N.O.)
- THE STRUCTURAL DRAWINGS ILLUSTRATE THE NEW STRUCTURAL MEMBERS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS WHICH REQUIRE SPECIAL PROVISIONS DURING THE CONSTRUCTION OF THE STRUCTURAL MEMBERS.
- REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR DEPRESSIONS, EDGE OF SLAB, OPENINGS, SLOPES, DRAINS, CURBS, PADS, EMBEDDED ITEMS, NON-BEARING PARTITIONS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, OPENINGS, AND HANGERS FOR PIPES, DUCTS AND EQUIPMENT.
- DRAWING DIMENSIONS ARE TO FACE OF STRUCTURE, JOINT CENTERLINE OR COLUMN GRID CENTERLINE UNLESS NOTED OTHERWISE. DO NOT SCALE THE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL VERIFY ALL DIMENSIONS AND CONDITIONS WHICH IMPACT THE WORK. FIELD VERIFY SIZES, ELEVATIONS, HOLE LOCATIONS, ETC. PRIOR TO FABRICATION. THE LANGUAGE "BY OTHERS" USED IN THIS STRUCTURAL DRAWING SET INDICATES ELEMENTS OR PARTS OF WORK NOT WITHIN JLA SCOPE AND SHOWN OR REFERENCED FOR EASE OF COORDINATION ONLY, AND SHALL NOT IMPLY THAT SUCH ELEMENTS OR PARTS OF WORK ARE NOT IN THE CONTRACT SCOPE.
- CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE SCOPE OF WORK REQUIRED, VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS AND DETERMINE THE EXTENT TO WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.
- EXISTING CONDITIONS AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL RESOLVE ANY CONFLICTS ON THE DRAWINGS OR IN THE SPECIFICATIONS WITH THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- ANY DEVIATION, MODIFICATION & SUBSTITUTION FROM THE APPROVED SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW/APPROVAL PRIOR TO ITS USE OR INCLUSION ON THE SHOP DRAWINGS & PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORES, BRACES, GUYS, HOIST BEAM, REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURE AND COMPONENTS, SOILS, OTHER STRUCTURES AND UTILITIES MAY BE SUBJECTED DURING CONSTRUCTION. SHORING SYSTEMS SHALL BE DESIGNED AND STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. VISITS TO THE SITE BY THE OWNER'S REPRESENTATIVE WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.
- THE CONTRACTOR SHALL PROVIDE MEANS, METHOD, TECHNIQUES, SEQUENCE AND PROCEDURE OF CONSTRUCTION AS REQUIRED. SITE VISITS PERFORMED BY THE OWNER'S REPRESENTATIVE DO NOT INCLUDE INSPECTIONS OF MEANS AND METHOD OF CONSTRUCTION PERFORMED BY CONTRACTOR.
- THE CONTRACTOR SHALL PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE AND SHALL PROVIDE PROPER STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING CONSTRUCTION.
- ATTACHMENT OF NON-STRUCTURAL COMPONENTS SPECIFIED BY OTHERS TO STRUCTURAL ELEMENTS SHALL BE SPECIFIED BY THE NON-STRUCTURAL COMPONENT DESIGNER/SPECIFIER/INSTALLER. DESIGNER OF NON-STRUCTURAL ELEMENTS SHALL AT A MINIMUM SPECIFY THE CONNECTION TO THE STRUCTURE INCLUDING BUT NOT LIMITED TO: ANY TYPE OF CONNECTING HARDWARE, WIRE, HANGERS, FASTENERS, CLIPS, UNISTRUT MEMBERS. NON STRUCTURAL ELEMENTS SHALL INCLUDE, BUT NOT LIMITED TO: MEP AND HVAC EQUIPMENT & THEIR SUPPORTING PADS, PLATFORMS, FRAMES, ETC.; DUCTWORK, PIPES, CONDUTS, ARTWORK, GRILLES, GRATING, METAL SCREENS, ELEVATOR RAILS, STONE FINISH TILES, STONE CAPS, BRICK VENEER.
- SPECIFICATIONS RELATED TO WATERPROOFING, INCLUDING BUT NOT LIMITED TO MEMBRANES, WATERSTOPS, SEALANTS, FLASHING, VAPOR BARRIER, ARE AS SPECIFIED BY ARCHITECT/WATER PROOFING CONSULTANT, AND ARE EXCLUDED FROM JLA SCOPE.
- ALLOW FOURTEEN WORKING DAYS FOR PROCESSING SHOP DRAWINGS AND SUBMITTALS AFTER RECEIPT.

**FOUNDATIONS**

- ALL FOOTINGS SHALL BE FOUNDED A MIN OF 24" BELOW THE LOWEST ADJACENT GRADE AND A MINIMUM OF 12" INTO NATIVE SOIL WHICHEVER GOVERNS UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CONTACT ENGINEER IF EXCAVATIONS REVEAL UNFAVORABLE CONDITIONS. THE SERVICES OF A SOILS ENGINEER AND/OR GEOLOGIST MAY BE REQUIRED.
- 1500 PSF ALLOWABLE SOIL BEARING PRESSURE WAS USED IN THE DESIGN.
- EXCAVATION SHALL BE PROPERLY BACKFILLED. ANY FILL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION.
- REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.
- LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.
- REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE. THE CITY REPRESENTATIVE SHALL INSPECT AND APPROVE ALL EXCAVATIONS, SOIL COMPACTION WORK PRIOR TO PLACEMENT OF ANY REBAR OR CONCRETE, SHORING INSTALLATIONS, BACKFILL MATERIALS AND BACK FILLING PROCEDURES.
- NOTIFY THE OWNER'S REPRESENTATIVE IF ANY BURIED STRUCTURES NOT INDICATED, SUCH AS CESSPOOLS, SISTERS, FOUNDATIONS, ETC., ARE FOUND.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.
- EXCAVATION AND COMPACTION, IF REQUIRED SHALL BE APPROVED BY THE GOVERNING AGENCY AND PRIOR TO PLACING THE CONCRETE AND REINFORCING THE GOVERNING AGENCY SHALL SUBMIT LETTER OF COMPLIANCE TO THE OWNER'S REPRESENTATIVE.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE WALLS HAVE ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL THE ATTACHING CONCRETE SLAB ON GRADE IS COMPLETELY IN PLACE AND HAS ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
- FOOTINGS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE CITY REPRESENTATIVE, FOOTING ELEVATIONS SHALL BE ALTERED AS REQUIRED.
- FOOTING BACKFILL SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH PER PLANS. FLOODING IS NOT PERMITTED.
- LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.
- ALL ABANDONED EXISTING CONCRETE SWALES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.

**CITY OF CULVER CITY  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION - CULVER CITY, CALIF.**

**STRUCTURAL GENERAL NOTES**

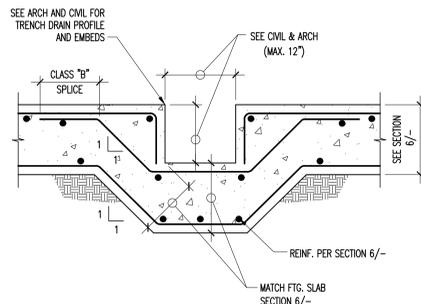
**PARK TO PLAYA:  
TRAIL ALIGNMENT - SEGMENT 7**

APPROVED BY CHARLES D. HERBERTSON	Drawing No. <b>S0.1</b>
CITY ENGINEER	DATE
	DRAWN BY: LT DATE: 01/12/17



319 MAIN STREET  
EL SEGUNDO, CA 90245  
t: 213/239 9700 f: 213/ 239 9699  
JLA Job no. 15807

REVIEWED BY		REVIEWED BY					
PATRICK REYNOLDS, PARKS DIVISION MANAGER		MATE GASPAR, ENGINEERING SERVICES MANAGER					
NO.	REVISION	BY	APPR.	DATE	PROJECT NUMBER		



NOTE:  
SEE CIVIL FOR LOCATION

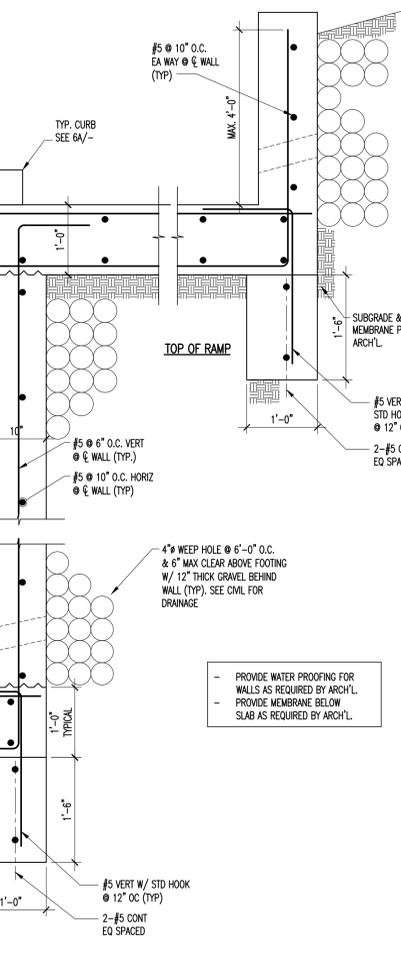
**TYP. TRENCH DRAIN SECTION 7**

SCALE: N.T.S.

- NOTES:**
- WHERE ONE OPENING OCCURS ABOVE ANOTHER, EXTEND ALL SILL AND LINTEL REINF. 3'-0" BEYOND FURTHEST OPENING IN EACH DIRECTION.
  - WHERE OPENINGS IN A HORIZONTAL LINE ARE SPACED LESS THAN THE WIDTH OF THE MAX. ADJACENT OPENING APART, RUN LINTEL AND SILL REINF. CONTINUOUS BETWEEN OPENINGS.
  - EXTEND VERTICAL BARS FROM FLOOR TO FLOOR OR (WHERE OPENING INTERSECTS BAR) FROM FLOOR TO OPENING.
  - TYPICAL WALL REINF. AT TYPICAL SPACING BETWEEN SPECIAL BARS IS TO BE USED. SEE TYPICAL WALL REINF. DETAILS AND WALL SECTIONS.
  - EXTEND VERTICAL BARS 3'-0" PAST FLOOR JOINT OR PROVIDE EQUIVALENT DWELS.

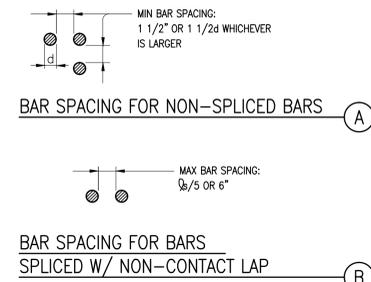
**REINF. @ CONC. WALL OPENING 5**

SCALE: N.T.S.



**DETAIL 6**

SCALE: 1"=1'-0"



**BAR SPACING FOR BARS SPLICED W/ NON-CONTACT LAP B**

**BAR SPACING 3**

SCALE: N.T.S.

CONC. CLASS	TENSION LAP SPLICE LENGTH (IN) (CLASS B)			DEVELOPMENT LENGTH "Ld" (IN) (CLASS A)			DEVELOPMENT LENGTH "Ldh" (IN) STANDARD HOOK			
	N.W. 3000 PSI	N.W. 4000 PSI	N.W. 5000 PSI	N.W. 3000 PSI	N.W. 4000 PSI	N.W. 5000 PSI	N.W. 3000 PSI	N.W. 4000 PSI	N.W. 5000 PSI	
BAR SIZE	TOP	OTHER	TOP	OTHER	TOP	OTHER	CASE 1	CASE 2	CASE 1	CASE 2
#3	29	22	28	20	28	20	23	17	21	15
#4	39	29	34	25	30	23	30	22	26	19
#5	48	36	42	31	38	28	37	28	32	24
#6	58	43	50	37	45	34	45	33	39	29
#7	81	63	71	54	63	49	63	48	54	42
#8	93	72	81	62	72	56	72	55	62	48
#9	105	81	91	70	81	63	81	62	70	54
#10	118	91	102	79	92	70	91	70	79	61
#11	131	101	113	87	102	78	101	78	87	67

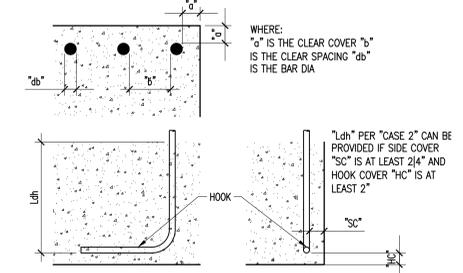
- NOTES:**
- ALL SPLICES SHALL BE TENSION LAP SPLICES U.N.O.
  - ALL DEVELOPMENT LENGTH WITH STANDARD HOOKS "Ldh" SHALL BE TYPE 1 UNLESS TYPE 2 CAN BE USED AS SHOWN IN ILLUSTRATION BELOW
  - LENGTHS SHOWN ARE FOR GRADE 60 UNCOATED BARS
  - LENGTHS SHOWN ARE FOR NORMAL WEIGHT CONCRETE (N.W.). INCREASE LENGTHS 30% FOR LIGHT WEIGHT CONCRETE AND AT FOUR BAR BUNDLES (WHERE 2 BARS LAP WITH 2 OTHER BARS) INDIVIDUAL BARS WITHIN A BUNDLE SHALL NOT OVERLAP
  - TOP BARS - HORIZONTAL BARS PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THEM
  - INCREASE LENGTHS 50% WHERE a < db OR WHERE b < db FOR BEAMS AND COLUMNS OR WHERE b < 2db FOR OTHER ELEMENTS
  - FOR #14 AND #18 BARS, USE MECHANICAL SPLICE IN ACCORDANCE WITH IBC REQUIREMENTS.

**NOTES:**

WHERE REINFORCING IS NOT SHOWN OTHERWISE ON SECTIONS, DETAILS OR WALL ELEVATIONS.

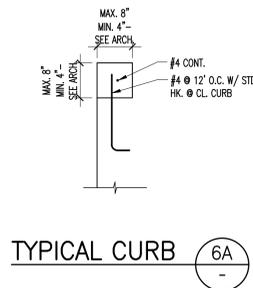
WALL THICKNESS T	REINFORCING EACH WAY	OPENING REINF.
6"	#4 @ 12" @ C.L.	1-#5
8"	#4 @ 10" @ C.L.	2-#5
10"	#4 @ 16" E.F.	2-#6
12"	#4 @ 12" E.F.	2-#6
14"	#4 @ 12" E.F.	2-#7
16"	#5 @ 15" E.F.	2-#7
18"	#5 @ 14" E.F.	2-#8
20"	#5 @ 12" E.F.	2-#8

- NOTES:**
- FOR PLACEMENT OF VERTICAL BARS RELATIVE TO HORIZONTAL BARS, SEE REINFORCING NOTES IN GENERAL NOTES.
  - MAXIMUM OPENING 8'-0".

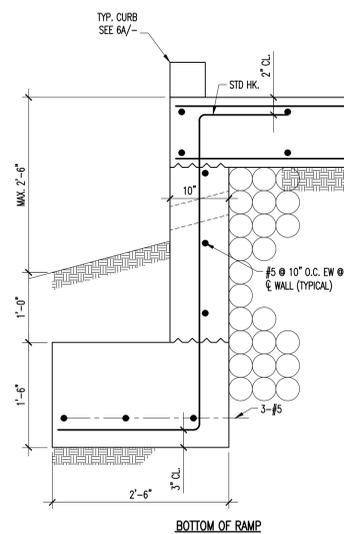


**DEVELOPMENT LENGTH AND SPLICE 1**

SCALE: N.T.S.

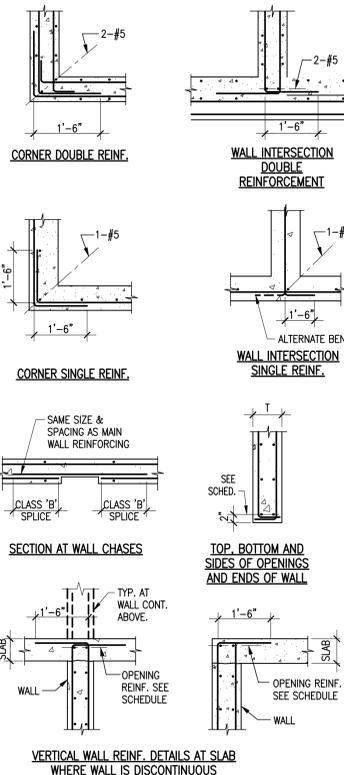


**TYPICAL CURB 6A**



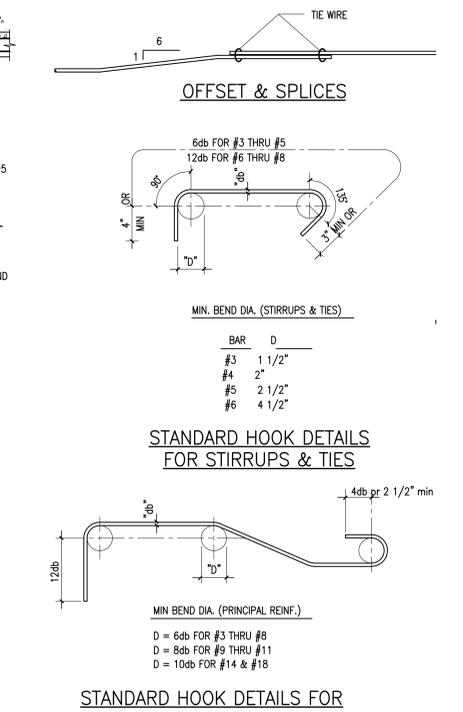
**DETAIL 6**

SCALE: 1"=1'-0"



**TYPICAL CONCRETE WALL DETAILS 4**

SCALE: N.T.S.



**TYPICAL REINFORCEMENT DETAILS 2**

SCALE: N.T.S.

REVIEWED BY	REVIEWED BY
PATRICK REYNOLDS, PARKS DIVISION MANAGER	MATE GASPAR, ENGINEERING SERVICES MANAGER

**CITY OF CULVER CITY**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION - CULVER CITY, CALIF.

**STRUCTURAL DETAILS**

PARK TO PLAYA:  
TRAIL ALIGNMENT - SEGMENT 7

APPROVED BY	Drawing No.
CHARLES D. HERBERTSON	S0.2
CITY ENGINEER	DRAWN BY: LT DATE: 01/12/17



**JLA**  
John Labib + Associates  
Structural Engineers

319 MAIN STREET  
EL SEGUNDO, CA 90245  
t: 213/239 9700 f: 213/ 239 9699  
JLA Job no. 15807

NO.	REVISION	BY	APPR.	DATE	PROJECT NUMBER