

# LAKE PARK IMPROVEMENTS

C.C. No. 1629



A.GENERAL NOTES

1. **PREBID:**
- A. ALL WORK CALLED FOR ON THE PLANS SHALL BE IN COMPLIANCE WITH CURRENT STATE, COUNTY, AND/OR CITY STANDARDS & SPECIFICATIONS, ADOPTED BY THE CITY, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS FOR THE SUBJECT PROJECT.
- B. A TEMPORARY STREET CLOSURE PERMIT IS REQUIRED IN ALL CASES WHERE WORK WILL INTERFERE WITH EITHER VEHICULAR OR PEDESTRIAN TRAFFIC.
- C. INSPECTION BY THE CITY OF THE WORK CALLED FOR ON THE PLANS SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR AND/ OR THE DEVELOPER OF THEIR OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
- D. ANY ALTERATIONS OR VARIANCES FROM THE PLANS, EXCEPT MINOR ADJUSTMENTS IN THE FIELD TO MEET EXISTING CONDITIONS, SHALL BE REQUESTED IN WRITING AND MAY NOT BE INSTITUTED UNTIL APPROVED BY THE CITY OR ITS REPRESENTATIVES ACTING SPECIFICALLY ON ITS INSTRUCTIONS.
- E. ALL ELEVATIONS SHOWN ON THE PLAN ARE ESTABLISHED BY LOCAL BENCHMARK. SURVEY MONUMENTS SHALL BE PROTECTED IN PLACE.
- F. QUANTITIES, AS SHOWN ON THE PLANS, ARE ESTIMATED, AND THE CONTRACTOR IS ADVISED THAT ALL FINAL QUANTITIES OF MATERIAL AND WORK IN PLACE MAY BE SOMEWHAT GREATER OR LESS THAN INDICATED ON THE PLAN.
- G. THE CONTRACTOR SHALL OPERATE IN A MANNER COMPLIANT WITH ALL APPLICABLE SECTIONS OF THE MUNICIPAL CODE AND COMPLIANT WITH ALL APPLICABLE CITY RESOLUTIONS.
- H. THE LOCATION OF UNDERGROUND UTILITY OR IRRIGATION LINES, AS SHOWN ON THE PLANS, IS APPROXIMATE. SINCE THE ACTUAL LOCATION MAY BE SOMEWHAT DIFFERENT FROM THAT SHOWN, THE CONTRACTOR IS REQUIRED TO CONTACT THE INTERESTED UTILITY OR WATER COMPANY BEFORE EXCAVATING IN THE VICINITY OF ANY SUCH LINES. [www.digalert.com](http://www.digalert.com) OR CALL 1-800-422-4133 (DIG ALERT).
- I. THE CONTRACTOR IN ACCORDANCE WITH THE APPROPRIATE CITY STANDARDS, WILL INSTALL ALL TRAFFIC REGULATORY SIGNS INDICATED ON THE PLANS.(IF APPLICABLE).
- J. AN APPROVED WEED KILLER SHALL BE APPLIED TO THE PREPARED BASE PRIOR TO PAVING IN ALL AREAS WHERE THERE IS ANY EVIDENCE OF HUMUS OR ORGANIC MATERIAL PRESENT IN THE BASE (EITHER NATIVE OR IMPORTED) MATERIAL. ALL WEED KILLERS SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
- K. THE CONTRACTOR SHALL MAKE PROVISIONS FOR CONTRIBUTORY DRAINAGE AT ALL TIMES.
- L. REMOVE DIRT, DEBRIS, OR OTHER CONSTRUCTION MATERIAL DEPOSITED ON ANY PUBLIC STREET NO LATER THAN THE END OF EACH WORKING DAY.
- M. CONSTRUCTION OPERATIONS INCLUDING BUILDING RELATED ACTIVITIES AND DELIVERIES SHALL BE RESTRICTED TO MONDAY THROUGH FRIDAY DURING HOURS REQUIRED BY THE CITY, EXCLUDING HOLIDAYS, AND HOURS REQUIRED BY THE CITY ON WEEKENDS AND HOLIDAYS, IN ACCORDANCE WITH CITY MUNICIPAL CODE, UNLESS OTHERWISE EXTENDED OR SHORTENED BY THE BUILDING OFFICIAL. CONTRACTOR TO VERIFY APPROVED WORKING HOURS WITH CITY OFFICIAL.

2. **CONSTRUCTION**

- A. ALL WORK SHALL BE CARRIED OUT IN STRICT CONFORMANCE WITH THE CURRENT EDITION OF,
1. CALIFORNIA BUILDING CODE 2019, 2019 CPC AND 2019 CEC. REFERENCE SHEET T1.0.
2. CURRENT LOCAL CODES, ORDINANCES, POLICIES AND STANDARDS AS ADOPTED BY THE CITY AND REGULATING AGENCIES.
- B. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION OF KNOWN UTILITY LINES AT THE JOB SITE AND TAKE EXTREME PRECAUTIONS TO AVOID DAMAGE. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR REPAIR OF ANY SUCH LINES THAT ARE DAMAGED.
- C. ANY DISCREPANCIES, ERRORS OR OMISSIONS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS SHALL BE REFERRED TO THE ARCHITECT IMMEDIATELY BY THE GENERAL CONTRACTOR FOR CLARIFICATION BEFORE RELATED CONSTRUCTION; FABRICATION OR INSTALLATION TAKES PLACE.

3. **ACCESSIBILITY**

- A. EXISTING PARKING, PAVING AND PATHS OF TRAVEL SHALL BE MAINTAINED FOR HANDICAP ACCESSIBILITY IN ACCORDANCE WITH CBC 11B – 201&20 11B 206.
- B. SIGNAGE IDENTIFYING HANDICAP ACCESSIBILITY SHALL BE IN ACCORDANCE WITH CBC 11B-703.

B. GENERAL CONTRACTOR

1. **QUALITY ASSURANCE/ CONTROL OF INSTALLATION: THE CONTRACTOR SHALL:**

- A. MONITOR QUALITY CONTROL OVER SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SUBCONTRACTORS, SITE CONDITIONS, AND WORKMANSHIP TO PRODUCE WORK OF HIGH QUALITY.
- B. COMPLY FULLY WITH MANUFACTURERS' INSTRUCTIONS, INCLUDING STORAGE OF MATERIALS AND EACH STEP IN INSTALLATION SEQUENCE. MATERIALS SHALL BE STORED IN MANUFACTURERS WRAPPING/ PACKAGING/ SEALED CONTAINER UNTIL USED. (SEE ALSO MATERIALS AND EQUIPMENT)

- C. SHOULD MANUFACTURERS INSTRUCTIONS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM THE ARCHITECT/ OWNER BEFORE PROCEEDING WITH INSTALLATION/APPLICATION.
- D. COMPLY WITH SPECIFIED STANDARDS AS A MINIMUM QUALITY FOR THE WORK EXCEPT WHEN MORE STRINGENT TOLERANCES, CODED, OR SPECIFIED REQUIREMENTS INDICATE HIGHER STANDARDS OR MORE PRECISE WORKMANSHIP.
- E. WORK SHALL BE PERFORMED ONLY BY PERSONS QUALIFIED OR AUTHORIZED BY PRODUCT MANUFACTURES TO PRODUCE WORKMANSHIP OF HIGH QUALITY.
- F. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES RECOMMENDED BY MANUFACTURER, DESIGNED AND SIZED TO WITHSTAND STRESSES, VIBRATION, PHYSICAL DISTORTION OR DISFIGUREMENT.
- G. BE FAMILIAR WITH ALL CITY ORDINANCES AND AGENCY REQUIREMENTS.
1. REFERENCES: THE CONTRACTOR SHALL:
- A. CONFORM TO REFERENCE STANDARD BY DATE OF ISSUE CURRENT ON DATE OF CONTRACT DOCUMENTS.
- B. OBTAIN COPIES OF STANDARDS WHEN REQUIRED BY CONTRACT DOCUMENTS.
- C. SHOULD SPECIFIED REFERENCE STANDARDS CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT/OWNER BEFORE PROCEEDING.
- D. THE CONTRACTUAL RELATIONSHIP OF THE PARTIES TO THE CONTRACT SHALL NOT BE ALTERED FROM THE CONTRACT DOCUMENTS BY MENTION OR INFERENCE OTHERWISE IN ANY DOCUMENT REFERENCE.

C. CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

1. **TEMPORARY ELECTRICITY**

- A. PROVIDE POWER OUTLETS FOR CONSTRUCTION OPERATIONS, WITH BRANCH WIRING AND DISTRIBUTION BOXES LOCATED AS NEEDED. PROVIDE FLEXIBLE POWER CORDS AS REQUIRED.
- B. PROVIDE MAIN SERVICES DISCONNECT AND OVER CURRENT PROTECTION AT CONVENIENT LOCATION FEEDER SWITCH AT SOURCE DISTRIBUTION EQUIPMENT METER.
- C. PROVIDE ADEQUATE DISTRIBUTION EQUIPMENT, WIRING AN OUTLETS TO PROVIDE SINGLE-PHASE BRANCH CIRCUITS FOR POWER AND LIGHTING.

2. **TEMPORARY LIGHTING**

- A. PROVIDE AND MAINTAIN FLORESCENT & LED LIGHTING FOR CONSTRUCTION OPERATIONS.
- B. PROVIDE BRANCH WIRING FROM POWER SOURCE TO DISTRIBUTION BOXES WITH LIGHTING CONDUCTORS, PIGTAILS AND LAMPS AS REQUIRED.
- C. MAINTAIN LIGHTING AND PROVIDE ROUTINE REPAIRS.

3. **TEMPORARY SANITARY FACILITIES**

- A. GENERAL CONTRACTOR TO PROVIDE PORTABLE TOILET(S) & HAND WASHING FOR DURATION OF CONSTRUCTION OPERATIONS .

4. **PROTECTION OF INSTALLED WORK**

- A. PROTECT INSTALLED WORK AND PROVIDE SPECIAL PROTECTION WHERE REQUIRED WHETHER SPECIFIED OR NOT.
- B. PROVIDE TEMPORARY AND REMOVABLE PROTECTION FOR INSTALLED PRODUCTS. LIMIT AND CONTROL ACTIVITY IN IMMEDIATE WORK AREA TO MINIMIZE DAMAGE.
- C. PROTECT FINISHED FLOOR SURFACES FROM TRAFFIC, DIRT, WEAR, DAMAGE OR MOVEMENT OF HEAVY OBJECTS BY PROTECTING WITH DURABLE SHEET MATERIALS.
- D. PROHIBIT TRAFFIC FROM LANDSCAPED AREAS.

5. **ACCESS ROADS**

- A. CONSTRUCTION ACCESS SHALL BE FROM LOCATION TO BE DETERMINED BY OWNER.
- B. MAINTAIN ACCESS AT PUBLIC THOROUGHFARES TO SERVE CONSTRUCTION AREA.
- C. PROVIDE TRAFFIC CONTROL AS WORK PROGRESS REQUIRES, PROVIDING DETOURS NECESSARY FOR UNIMPEDED TRAFFIC AND PEDESTRIAN FLOW, DURING OFF-SITE WORK.
- D. PROVIDE AND MAINTAIN ASPHALT ACCESS TO FIRE HYDRANTS, FREE OF ANY OBSTRUCTIONS.
- E. PROVIDE MEANS OF REMOVING MUD FROM VEHICLE WHEEL BEFORE ENTERING STREETS.
- F. PUBLIC AND CONSTRUCTION PARKING SHALL BE LIMITED TO DESIGNATED PARKING AREAS ONLY.

6. **PROGRESS CLEANING**

- A. MAINTAIN AREAS FREE OF WASTE MATERIALS, DEBRIS, AND RUBBISH. MAINTAIN SITE IN A CLEAN AND ORDERLY CONDITION, PLACING ALL WASTE MATERIALS IN BINS AT THE END OF EACH DAY.
- B. REMOVE WASTE MATERIALS, DEBRIS, AND RUBBISH FROM SITE ON A FREQUENT, REGULAR, BASIS AND DISPOSE OFFSITE.

7. **DUST CONTROL**

- A. THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD THE CONTRACTOR SHALL EFFECTIVELY DUST PALLIATE THE WORKING AREA, ACCESS AND OTHER AREAS AFFECTED BY THE WORK, IN ACCORDANCE WITH COUNTY REQUIREMENTS.

8. **LAYOUT OF WORK**

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL THE WORK INVOLVED IN THE PROJECT. ANY CONFLICTS ARISING IN THE CONTRACT DOCUMENTS AND BETWEEN CONTRACT DOCUMENTS AND SITE CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE OWNER AND CONFIRMED IN WRITING WITHIN 24 HOURS.

9. **COORDINATION**

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY COORDINATION OF DELIVERY OF ALL MATERIALS AND WORK OF ALL TRADES TO ENSURE CONTINUITY OF CONSTRUCTION. FAILURE TO DO SO WILL NOT BE ACCEPTED AS A LEGITIMATE REASON FOR EXTENDING THE CONTRACT PERIOD.

10. **SUBMITTALS AND SHOP DRAWINGS**

- A. THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND SHOP DRAWING IN DETAIL, PROVIDE A SIGNED STATEMENT WITH EACH THAT THE DOCUMENT/ITEM IS IN CONFORMANCE WITH CONSTRUCTION DOCUMENTS, BEFORE SUBMITTAL TO THE ARCHITECT.
- B. SUBMITTALS AND SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR BEFORE BEING DELIVERED TO THE ARCHITECT ALL IN A TIMELY MANNER.
- C. SUBMITTALS RECEIVED BY THE ARCHITECT THAT DO NOT PROVIDE RECORD OF THE CONTRACTORS REVIEW OF THE ITEMS WILL BE RETURNED TO THE CONTRACTOR WITHOUT REVIEW BY THE ARCHITECT.

D. MATERIAL AND EQUIPMENT

1. **MATERIALS**

- A. ONLY NEW MATERIALS SHALL BE USED IN THE CONSTRUCTION OF THE WORK INSTALLATION AND RELATED WORK SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.

2. **PRODUCTS**

- A. PRODUCTS: MEANS NEW MATERIAL, MACHINERY, COMPONENTS, EQUIPMENT, FIXTURES, AND SYSTEMS FORMING THE WORK, BUT DOES NOT INCLUDE MACHINERY AND EQUIPMENT USED FOR PREPARATION, FABRICATION, CONVEYING AND ERECTION OF THE WORK.

- B. DO NOT USE MATERIALS AND EQUIPMENT REMOVED FROM OTHER PREMISES.

- C. PROVIDE INTERCHANGEABLE COMPONENTS OF THE SAME MANUFACTURER, FOR SIMILAR COMPONENTS.

- D. ALL PRODUCTS SHALL BEAR THE MANUFACTURERS LABEL AND BATCH/COLOR REFERENCE.

3. **TRANSPORTATION AND HANDLING**

- A. TRANSPORT AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.

- B. PROMPTLY INSPECT SHIPMENTS TO ASSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS, QUANTITIES ARE CORRECT, AND PRODUCTS FROM SAME BATHES ARE UNDAMAGED, AND FACTORY SEALED. ANY PRODUCT OR MATERIALS NOT MEETING THIS REQUIREMENT SHALL BE REPLACED AT NO EXPENSE TO THE OWNER.

- C. PROVIDE EQUIPMENT AND PERSONNEL TO HANDLE PRODUCTS USING METHODS THAT WILL PREVENT SOILING, DISFIGUREMENT OR DAMAGE.

4. **STORAGE AND PROTECTION**

- A. STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS, WITH SEALS AND LABELS INTACT AND LEGIBLE. STORE SENSITIVE PRODUCTS IN WEATHER TIGHT, CLIMATE CONTROLLED ENCLOSURES.

- B. ALL PRODUCTS SHALL BE STORED ABOVE GRADE ON PALLETS OR SUPPORTS TO ALLOW AIRFLOW BENEATH.

E. STARTING OF SYSTEMS

1. **DEMONSTRATION AND INSTRUCTIONS**

- A. VERIFY THAT TESTS, METER READING, AND SPECIFIED ELECTRICAL CHARACTERISTICS AGREE WITH THOSE REQUIRED BY THE EQUIPMENT OR SYSTEM MANUFACTURER.

F. CONTRACT CLOSE-OUT

1. **FINAL CLEANING**

- A. EXECUTE FINAL CLEANING PRIOR TO FINAL INSPECTION.
- B. CLEAN INTERIOR AND EXTERIOR SURFACES: REMOVE TEMPORARY LABELS, STAINS AND FOREIGN SUBSTANCES, POLISH TRANSPARENT AND GLOSSY SURFACES.
- C. CLEAN SITE: SWEEP PAVED AREAS, RAKE AND CLEAN LANDSCAPED SURFACES.
- D. REMOVE WASTE AND SURPLUS MATERIALS, RUBBISH AND CONSTRUCTION FACILITIES FROM THE SITE.

2. **ADJUSTING**

- A. ADJUST OPERATING PRODUCTS AND EQUIPMENT TO ENSURE SMOOTH AND UN-HINDERED OPERATION.

1. PROJECT RECORD DOCUMENTS (SEE "RECORD DRAWINGS")

- A. MAINTAINING ON SITE, ONE SET OF THE FOLLOWING RECORD DOCUMENTS; RECORD ACTUAL REVISIONS TO THE WORK:

1. CONTRACT DRAWINGS APPROVED BY THE CITY OF HUNTINGTON BEACH.
2. SPECIFICATIONS (INCLUDED WITH THE CONTRACT DRAWINGS).
3. CHANGE ORDERS AND OTHER MODIFICATIONS TO THE CONTRACT SIGNED BY THE OWNER.
4. ADDENDA (ISSUED DURING THE BID PHASE).
5. REVIEWED AND APPROVED SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
- B. STORE RECORD DOCUMENTS SEPARATE FROM DOCUMENTS USED FOR CONSTRUCTION.
- C. RECORD INFORMATION CONCURRENT WITH CONSTRUCTION PROGRESS.
- D. SPECIFICATIONS: LEGIBLY MARK AND RECORD AT EACH PRODUCT SECTION DESCRIPTION OF ACTUAL PRODUCTS INSTALLED, INCLUDING THE FOLLOWING:

1. MANUFACTURER'S NAME AND PRODUCT MODEL AND NUMBER.
2. PRODUCT SUBSTITUTIONS OR ALTERNATES UTILIZED.
3. CHANGES MADE BY ADDENDA AND MODIFICATIONS.

- E. RECORD DOCUMENTS AND SHOP DRAWINGS: LEGIBLY MARK EACH ITEM TO RECORD ACTUAL CONSTRUCTION INCLUDING:

1. FIELD CHANGES OF DIMENSION AND DETAIL.
2. DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS.

PROJECT NO. C2002

100% CD's 3-01-2021

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REVISIONS

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REFERENCES

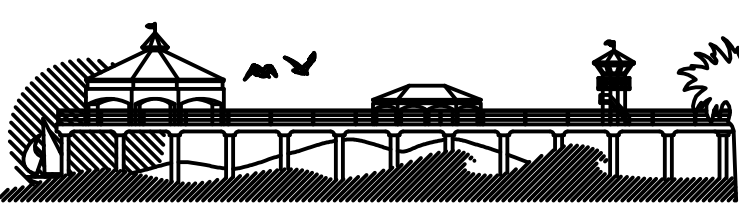

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CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS

SHEET TITLE  
GENERAL NOTES

LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

SHEET NO.

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LAKE PARK IMPROVEMENTS

C.C. No. 1629



1. TACTILE (RAISED CHARACTERS AND BRAILLE) EXIT SIGNS ARE REQUIRED ON THE WALL ADJACENT TO THE LATCH SIDE AT 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN AT EACH GRADE-LEVEL EXTERIOR EXIT DOOR.
2. ALL DOOR THRESHOLDS AND FLOOR TRANSITIONS TO BE ACCESSIBLE. (CBC) 11B-303.1 TO 11B-303.3, 11B-404.2.5.
3. PENETRATIONS OF FIRE RESISTIVE WALLS, FLOOR-CEILINGS AND ROOF CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC CHAPTER 7..
4. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATION IN CBC CHAPTER 8.
5. EVERY PRIMARY PUBLIC ENTRANCE, AND AT EVERY MAJOR FUNCTION AREA ALONG, OR LEADING TO, AN ACCESSIBLE ROUTE OF TRAVEL, THERE IS TO BE A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. SIGNS ARE REQUIRED TO INDICATE THE DIRECTION TO ACCESSIBLE BUILDING ENTRANCES AND FACILITIES, PER CBC CHAPTER 11B.
6. INSTALL TACTILE EXIT SIGNS AT THE FOLLOWING LOCATIONS: a) WHEREVER BASIC CB PROVISIONS REQUIRE EXIT SIGNS FROM A ROOM OR AREA TO A CORRIDOR OR HALLWAY, THE TACTILE EXIT SIGN SHALL HAVE THE WORDS "EXIT ROUTE" b) EACH GRADE-LEVEL EXIT DOOR, THE TACTILE EXIT SIGN SHALL HAVE THE WORD "EXIT". c) EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP, THE TACTILE EXIT SIGN SHALL HAVE THE FOLLOWING WORDS AS APPROPRIATE: "EXIT STAIR DOWN" / "EXIT RAMP DOWN".
7. THE GENERAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS ACCORDING WITH CONSTRUCTION. IF DISCREPANCIES ARE FOUND THE ARCHITECT SHALL BE NOTIFIED FOR THE CLARIFICATION BEFORE COMMENCING WITH THE WORK.
8. ALL WORK SHALL CONFORM TO THE REQUIREMENTS ABOVE, BY THE CITY OF HUNTINGTON BEACH AND ALL OTHER GOVERNING AUTHORITIES HAVING JURISDICTION.
9. BUILDING PERMITS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
10. DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. ELEVATIONS, SECTIONS AND DETAILS TAKE PRECEDENCE OVER DIMENSIONS ON FLOOR PLANS, LARGE SCALE DETAILS GOVERN OVER SMALL.
11. ALL EXTERIOR WALLS AND INTERIOR PARTITION DIMENSIONS ARE FROM FACE OF STUD AND/OR CMU UNLESS OTHERWISE NOTED. CEILING HEIGHTS ARE TO BE FINISHED SURFACES UNLESS OTHERWISE NOTED.
12. CONFLICTS BETWEEN THE WORK SET FORTH ON THE DRAWINGS AND ANY SITE CONDITIONS, BUILDING REGULATIONS, OR QUESTIONS REGARDING CLARITY OF THE INFORMATION PROVIDED IN THE CONSTRUCTION DOCUMENTS DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING.
13. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE GENERAL CONTRACTOR HAS QUESTIONS REGARDING THESE ITEMS OR THEIR EXACT MEANING, THE ARCHITECT SHOULD BE NOTIFIED FOR CLARIFICATION.
14. FIRE EXTINGUISHERS WILL BE REQUIRED DURING CONSTRUCTION, OR DEMOLITION AND UPON BUILDING OCCUPANCY. THE FIRE DEPARTMENT SHALL BE NOTIFIED BY THE GENERAL CONTRACTOR PRIOR TO OCCUPANCY OF THE SPACE FOR APPROVAL OF SIZES TYPES AND LOCATIONS.
15. THE PULL OR PUSH EFFORT APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS SHALL NOT EXCEED 5 LBS. FOR THE EXTERIOR DOORS AND 5 LBS. AT INTERIOR DOORS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 LBS.
16. ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL HAVE SIGNS POSTED READING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS".
17. REQUIRED EXIT SIGNS SHALL HAVE MINIMUM 3/4" x 6" LETTERS ON A CONTRASTING BACKGROUND IN ACCORDANCE WITH 2015 NFPA 101, LIFE SAFETY CODE, SECT. 7.10 & CBC SECT. 1013.
18. DOORS IN RATED WALLS SHALL CONSIST OF SELF-CLOSING, SELF-LATCHING ASSEMBLIES WITH SMOKE AND DRAFT SEALS AT HEAD AND JAMBS. DOOR ASSEMBLY RATINGS SHALL BE AS INDICATED ON DOOR FINISH SCHEDULE. HOLD OPEN DEVICES RATED ASSEMBLIES SHALL BE MAGNETICALLY OPERATED AND ACTIVATED BY SMOKE DETECTORS. ALL HOLLOW METAL FRAMES SHALL BE STEEL FRAMES. GLAZING MUST BE 1/4" THICK FIRE RATED INSTALLED IN STEEL FRAMES AND CANNOT EXCEED 100 SQ. INCHES IN AREA AND COMPLY WITH CBC SECT. 716.5.
19. FIRE DAMPERS OR DOORS SHALL BE PROVIDED WHERE DUCTS OR DOORS PENETRATE FIRE RATED WALLS OR CEILINGS.
20. THE IDENTIFICATION SYMBOLS ON DOORWAYS LEADING TO HANDICAPPED RESTROOMS SHALL BE 1/4" THICK BY 12" LONG EQUILATERAL TRIANGLE FOR MEN AND A 1/4" THICK BY 12" DIAMETER CIRCLE FOR WOMEN. SIGNS TO BE CENTERED AT 60" ABOVE FLOOR IN CONTRASTING COLOR OF THE DOOR.
21. APPLY PAINT TO WALLS AND CEILINGS IN ACCORDANCE TO MANUFACTURERS INSTRUCTIONS. WALLS REQUIRE MINIMUM 1 COAT SEALER AND SUFFICIENT COAT(S) OF PAINT TO PROVIDE UNIFORM COVER SEE SPECIFICATIONS.
22. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASE WORK, TOILET ROOM ACCESSORIES AND PARTITIONS AND ALL WALL MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL OR MISCELLANEOUS EQUIPMENT.
23. AT ALL POINTS WHERE PARTITIONS INTERSECT WINDOW MULLIONS, SOUND DEADENING MATERIAL IS TO BE INSTALLED WITHIN CONVECTOR PLENUM.
24. ALL RUBBISH AND DEBRIS RESULTING FROM DEMOLITION AND/OR NEW WORK SHALL BE DISPOSED OF OFF-SITE AND SHALL NOT BE ALLOWED TO ACCUMULATE.
25. LEAD BASED PAINT WITHIN AREA OF CONSTRUCTION SHALL BE ABATED PER CALIFORNIA CODE OF REGULATIONS TITLE 8 SECTION 1532.1.LEAD. PRIOR TO START OF CONSTRUCTION WORK.



PROJECT NO. C2002 100% CD's 3-01-202

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City of Huntington Beach  
Department of Community Development  
2000 Main Street, Huntington Beach, CA 92648  
Office: (714) 536 - 5241 Fax: (714) 374 – 1647

CONSTRUCTION & DEMOLITION DEBRIS  
RE-USE & RECYLING PROGRAM

Construction and Demolition (C & D) Debris Waste Reduction and Recycling Plan (WRRP)

This form must be complete for the following types of projects:

- Newly constructed building and demolition projects shall divert from landfills at least 65% of the construction materials generated during project.
- All locally permitted additions and alterations to non-residential buildings or structures shall divert from landfills at least 65% of nonhazardous construction and demolition materials.
- Additions and alterations to residential buildings that increase the structure's conditioned area, volume or size are also required to meet the 65% minimum diversion requirement

WRRP must be submitted and APPROVED prior to issuance of building permits. Incomplete forms will be returned to applicant and may delay issuance of permit(s). Each building requires a separate WRRP. Deliver WRRP with permit application to the Building Division permit counter, 2000 Main St, 3<sup>rd</sup> Floor, Huntington Beach, CA 92648. Allow 5-10 business days for WRRP processing. You may call (714) 536 – 5241 with inquiries regarding this form.

DO NOT ATTACH ADDITIONAL ITEMS

Permit#: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Email Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

For lines 1, 2 and 3, please check only 1 item for each:

- 1) Project Type: ☐ New Construction ☐ Addition/Alteration ☐ Demolition
- 2) Building Type: ☐ Non-residential ☐ Low-riseresidential/Duplex ☐ Apartment/Multi-Family
- 3) Tenant Improvement (check one): ☐ Yes ☐ No
- 4) Size of Project: \_\_\_\_\_ sq. ft. Project Valuation: \$ \_\_\_\_\_
- 5) Estimated Start Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ Estimated Completion Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_
- 6) Compliance method (Check one and provide required information)

- ☐ Green Halo System (Enter tracking number) ☐ Waste Diversion Plan Worksheet (if not using Green Halo)

7) Briefly describe project (i.e.: renovate warehouse, remodel office, etc.)

8) How will scrap or waste material be handled to ensure salvage, re-use or recycling?

9) How will employees and sub-contractors be notified of recycling proposed plan and goals?

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CONSTRUCTION & DEMOLITION DEBRIS  
RE-USE & RECYLING PROGRAM

Construction and Demolition (C & D) Debris Re-Use and Recycling Program

When a project is covered by the updated Huntington Beach C & D Ordinance Section 8.21, it must recycle 65% of the debris it generates. Please review the table below for our current requirements.

Planned Start Date	January 1 <sup>st</sup> , 2017
Covered projects	Effective January 1 <sup>st</sup> , 2017 <ul style="list-style-type: none"><li>Newly constructed building and demolition projects shall divert from landfills at least 65% of the construction materials generated during project.</li><li>All locally permitted additions and alterations to non-residential buildings or structures shall divert from landfills at least 65% of nonhazardous construction and demolition materials.</li><li>Additions and alterations to residential buildings that increase the structure's conditioned area, volume or size are also required to meet the 65% minimum diversion requirement</li></ul>
Materials required to be recycled	65% of all generated waste must be diverted / recycled per 2016 California Green Building Standards Code, Chapter 4, section 4.408 for all new residential and Chapter 5, section 5.408.1 – 5.408.3 and 5.713.8 – 5.713.8.3 for all non-residential new construction, additions and/or alterations. Please complete attached for C & D Debris Waste Log.
How to recycle	Mixed C & D: All debris (no wet garbage) into one bin. Source-Separated: Separate by type.
Who can haul debris	Mixed C & D: Permit-holder, self-haul or truck-haul, waste generator or franchised hauler. Source-Separated: Anyone <b>Franchised Hauler: Republic Services (714) 847-3581</b>
Where debris may go	Mixed C & D: City of Huntington Beach approved Mixed C & D facility such as Rainbow Disposal or see attached for other approved local processing facilities. Source-Separated: any facility that accepts the material.
Processing fee	Processing fee is currently being evaluated. Please continue to check with the Building Division counter staff for further updates.
Security Deposit	Required security deposit is currently being evaluated. Please continue to check with the Building Division counter staff for further updates.
Fines	Fines are currently being evaluated. Please continue to check with the Building Division counter staff for further updates.
Documentation	Permit-holder must keep a waste log of all materials hauled away from project site, as well as all weight tickets of disposed and recycled material. The waste log must be submitted at permit issuance, framing inspection and prior to building final approval.
How to comply	<ol style="list-style-type: none"><li>Register your project either online using <a href="#">Green Halo Systems</a> or by completing the Waste Reduction Recycling Plan (WRRP) form attached. Make sure to enter the Green Halo project tracking number on the WRRP form. The Green Halo System is a FREE web based system that will help you create your waste management plan, upload your recycling date throughout your construction process and generate your final report for project compliance.</li><li>Create waste diversion plan in Green Halo and print out Project Information page. Submit (3) copies of the Waste Diversion Form and (3) copy of the waste diversion plan print-out from Green Halo with your Building Permit Application.</li><li>Divert debris as specified on the plan and collect required documentation. Be sure to ask for construction debris receipts from transfer stations in order to qualify for diversion requirements. Upload recycling and disposal receipts to Green Halo.</li><li>Pre-Building Final: show the Building Inspector final Green Halo report demonstrating diversion rate compliance. Note, the final report is not required for single family renovations.</li></ol> <p>NOTE: If you are unable to use Green Halo, complete the C &amp; D Debris Waste Diversion Worksheet instead. Fill-out the Waste Diversion Plan (non-shaded) portion of the document prior to starting your project and the Waste Diversion Report (shaded) portion of the document prior to final inspections.</p> <p>Assistance: For assistance with the Diversion Plan Worksheet, contact the Building Division at (714) 536 – 5241. For Green Halo Systems, please visit <a href="#">www.greenhalosystems.com</a> or call (888) 525 – 1301 (M-F 8am to 5pm).</p>

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CONSTRUCTION & DEMOLITION DEBRIS WASTE DIVERSION WORKSHEET

PROJECT ADDRESS  
\_\_\_\_\_  
PERMIT NUMBER  
\_\_\_\_\_  
DATE  
\_\_\_\_\_

Pre-Project Waste Diversion Plan (non-shaded portion). Indicate diversion method with an 'X' in appropriate column along with the name of vendor/facility. Calculate anticipated diversion and landfill percentage of each material type. If you are sending mixed construction debris to a transfer station for sorting, enter the same destination for all materials in the mix. List deconstructed items for reuse on-site (donated / sold), on the next page. Include the approximate weight in the column for reusable items.

Post-Project Waste Diversion Report (shaded portion). Enter actual weight in pounds for each category. Calculate weight column total and diversion rate. Keep all receipts for final report.

If applicant is using [Green Halo](#) online tracking system, this worksheet (including Waste Diversion Plan & Waste Diversion Report) is NOT REQUIRED! Green Halo offers a free web-based Waste Management Plan and Project Tracking System which can be found by visiting [https://www.greenhalosystems.com](#).

WASTE DIVERSION PLAN (FOR PLAN CHECK ONLY)							WASTE DIVERSION REPORT (FOR FINAL INSPECTION ONLY)			
MATERIAL	ANTICIPATED						ACTUAL (See weight conversion factors next page)		DIVERSION RATE	
	DIVERSION					WASTE	DIVERTED MATERIALS ALL METHODS		WASTE	DIVERSION RATE
	REUSE	RECYCLE	COMPOST	ESTIMATE OF RECYCLED MATERIAL	VENDOR/FACILITY	LANDFILLED	ESTIMATED % OF LANDFILL MATERIAL	DIVERTED (lbs)	VENDOR/FACILITY	
ASPHALT				N/A	100%					100% REQUIRED
CONCRETE				N/A	100%					100% REQUIRED
DIRT & ROCK (From previously undeveloped lots)				N/A	100%					100% REQUIRED
AT LEAST 65% DIVERSION OF THE FOLLOWING MATERIALS. DIVERSION BASED ON AMOUNT OF THE COMBINED TOTAL WEIGHT OF MATERIALS BELOW.							A		B	
CARDBOARD										
CARPET, PADDING/FOAM										
BRICK, MASONRY, TILE										
METALS										
PLANT DEBRIS										
SHEETROCK (Not painted)										
CLEAN WOOD										
CEILING TILE										
PAINTED WOOD, PAINTED DRYWALL, PLYWOOD										
REUSABLE ITEMS								(COMPLETE REUSE LIST NEXT)		
ROOFING										
OTHER DEBRIS										
OTHER DEBRIS										
TOTAL										

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Office: (714) 536 - 5241 Fax: (714) 374 – 1647

CONSTRUCTION & DEMOLITION DEBRIS WASTE DIVERSION WORKSHEET

LOCAL RECYCLING DEALERS / FACILITIES

The categories of recyclable materials are as follows:

- Construction and Demolition Materials: Brick, concrete, dirt, granite, gravel, pavement/asphalt and sand.
- Green Wastes: Compost, grass clippings, leaves, pruning, and Christmas trees.
- Glass: Beverage containers, crushed glass, and window panes.
- Wood: Bark, boards, planks, chips, pallets, plywood, sawdust and shavings.

Note: Although a company may designate the acceptance of materials in one or more categories, please call to verify the materials and quantities produced on your project are accepted. You may also visit Cal Recycle at [http://www.calrecycle.ca.gov/condemo/recyclers/RecyclerSearch.aspx](#) for other local dealers and facilities.

Franchised Waste Hauler	C & D	Metals	Green Waste	Glass	Wood	Recycling Facilities	C & D	Metals	Green Waste	Glass	Wood
Rainbow Disposal 17121 Nichols Ln, Huntington Beach, CA 92647 (714) 847-3581						Huntington Beach Recycling 7632 Slater Ave, Huntington Beach, CA 92647 (714) 841-4885					
						Rainbow Disposal 17121 Nichols Ln, Huntington Beach, CA 92647 (714) 847-3581					
Recycling Facilities	C & D	Metals	Green Waste	Glass	Wood	Recycling Facilities	C & D	Metals	Green Waste	Glass	Wood
Dan Copp Crushing Corp. 1120 N. Richfield Rd, Anaheim, CA 92807 (714) 777-6400						Madison Materials 1035 East 4 <sup>th</sup> St, Santa Ana, CA 92701 (714) 664-0159					
Aguinaga Company 16355 Construction Cir #W, Irvine, CA 92606 (949) 786-9558						R.J. Noble 15505 E. Lincoln Ave, Orange, CA 92865 (714) 637-1550					
Ewles Materials (concrete, concrete blocks, asphalt only) 8200 Katella Ave Stanton, CA 90680 (714) 894-1988						TVI Gold Coast Recycling 7973 Irvine Blvd, Irvine, CA 92618 (949) 551-0363					
All Variety Metals, Inc 1016 Santiago St, Santa Ana, CA 92701 (714) 835-9235						Sunset Environmental 16122 Construction Cir #E, Irvine, CA 92606 (949) 654-1562					

PROJECT ADDRESS  
\_\_\_\_\_  
PERMIT NUMBER  
\_\_\_\_\_  
DATE  
\_\_\_\_\_



City of Huntington Beach  
Department of Community Development  
2000 Main Street, Huntington Beach, CA 92648  
Office: (714) 536 - 5241 Fax: (714) 374 – 1647

CONSTRUCTION & DEMOLITION DEBRIS WASTE DIVERSION WORKSHEET

PROJECT ADDRESS  
\_\_\_\_\_  
PERMIT NUMBER  
\_\_\_\_\_  
DATE  
\_\_\_\_\_

Reusable items such as cabinets, built-ins, framing lumber, siding, etc. are encouraged to be reused on-site. Please list accordingly.

ITEM	USE LOCATION	OFF-SITE BENEFACTOR OR DECONSTRUCTION COMPANY
	<input type="checkbox"/> ON-SITE <input type="checkbox"/> OFF-SITE	
	<input type="checkbox"/> ON-SITE <input type="checkbox"/> OFF-SITE	
	<input type="checkbox"/> ON-SITE <input type="checkbox"/> OFF-SITE	

WEIGHT CONVERSION FACTORS

Use the following conversion factors as well as receipts from previous jobs to help you with your estimated diversion for the Waste Diversion Plan. The Waste Diversion Report is a record of your actual diversion and disposal. The Waste Diversion Report and receipts from landfills, transfer stations and recyclers must be available for review at your final building inspection.

Asphalt paving, crushed = 1,380 lbs / cubic yard	Concrete, scraps, loose = 1,855 lbs / cubic yard
Asphalt/shingles comp, loose = 418.5 lbs / cubic yard	Earth, loose = 2,052 lbs / cubic yard
Brick, laid flat = 20 lbs / square foot flat	Fiberglass insulation, loose = 17 lbs / cubic yard
Brick, loose = 120 lbs / cubic foot, 3,200 lbs / cubic yard	Sheetrock scrap, loose = 393.5 lbs / cubic yard
Ceramic tile, scrap, loose = 1,214 lbs / cubic yard	Rock, crushed = 2,570 lbs / cubic yard

Please submit three (3) copies of this worksheet with your building permit application and this worksheet shall be electronically placed / made a part of plans.

For instructions on how to fill out this form, see "Waste Diversion Worksheet Instructions" located online at the Building Division website under Frequently Requested Forms.

For more information, visit [http://www.huntingtonbeachca.gov/government/departments/planning-building](#) or contact the Building Division at (714) 536 – 5241.

PROJECT NO. C2002

100% CD's 3-01-2021

Underground Service Alert



Call: TOLL FREE  
1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

REVISIONS

REV.	DATE	BY	DESCRIPTION	APP'VD

REFERENCES

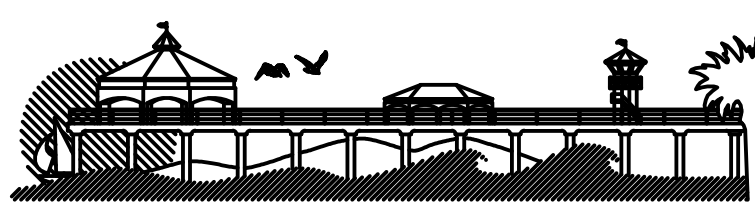

DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_

PREPARED UNDER THE SUPERVISION OF:  
TERRY EVANS

R.A. NO.: C33095 EXP. DATE: 11-30-2021

APPROVED BY:

CHRIS TANO, PRINCIPAL C.E. DATE  
R.C.E. No: C82756 Exp. Date: 09/30/22



CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS

SHEET TITLE

CONSTRUCTION & DEMOLITION DEBRIS DIVERSION WORKSHEET

LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

SHEET NO.

T1.3

4 OF 26

LAKE PARK IMPROVEMENTS

C.C. No. 1629



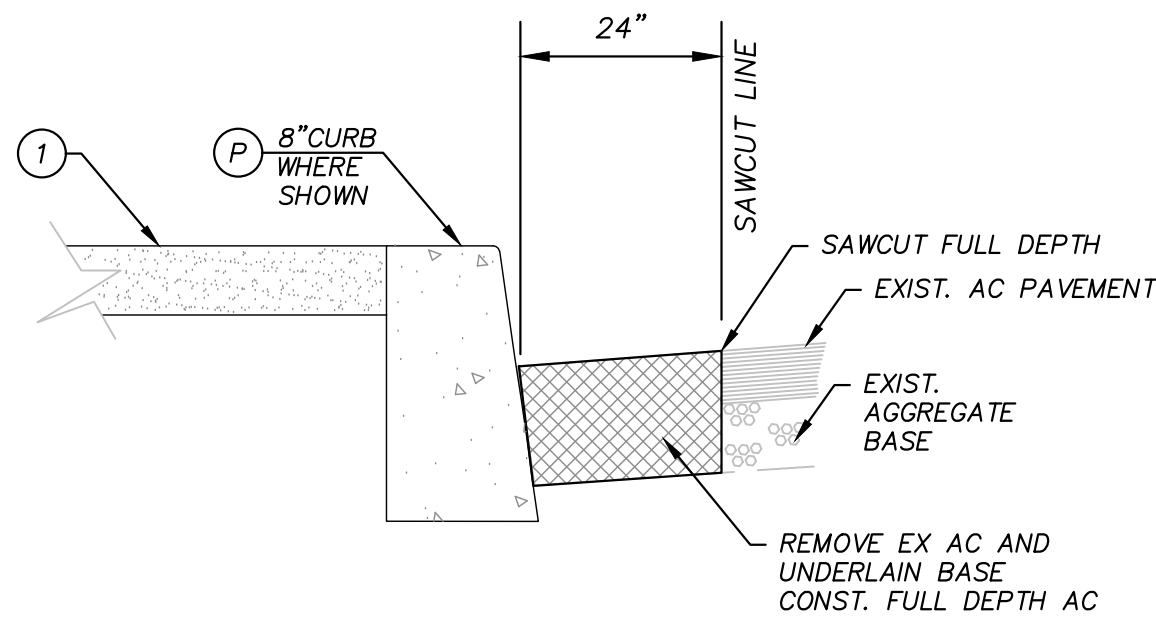
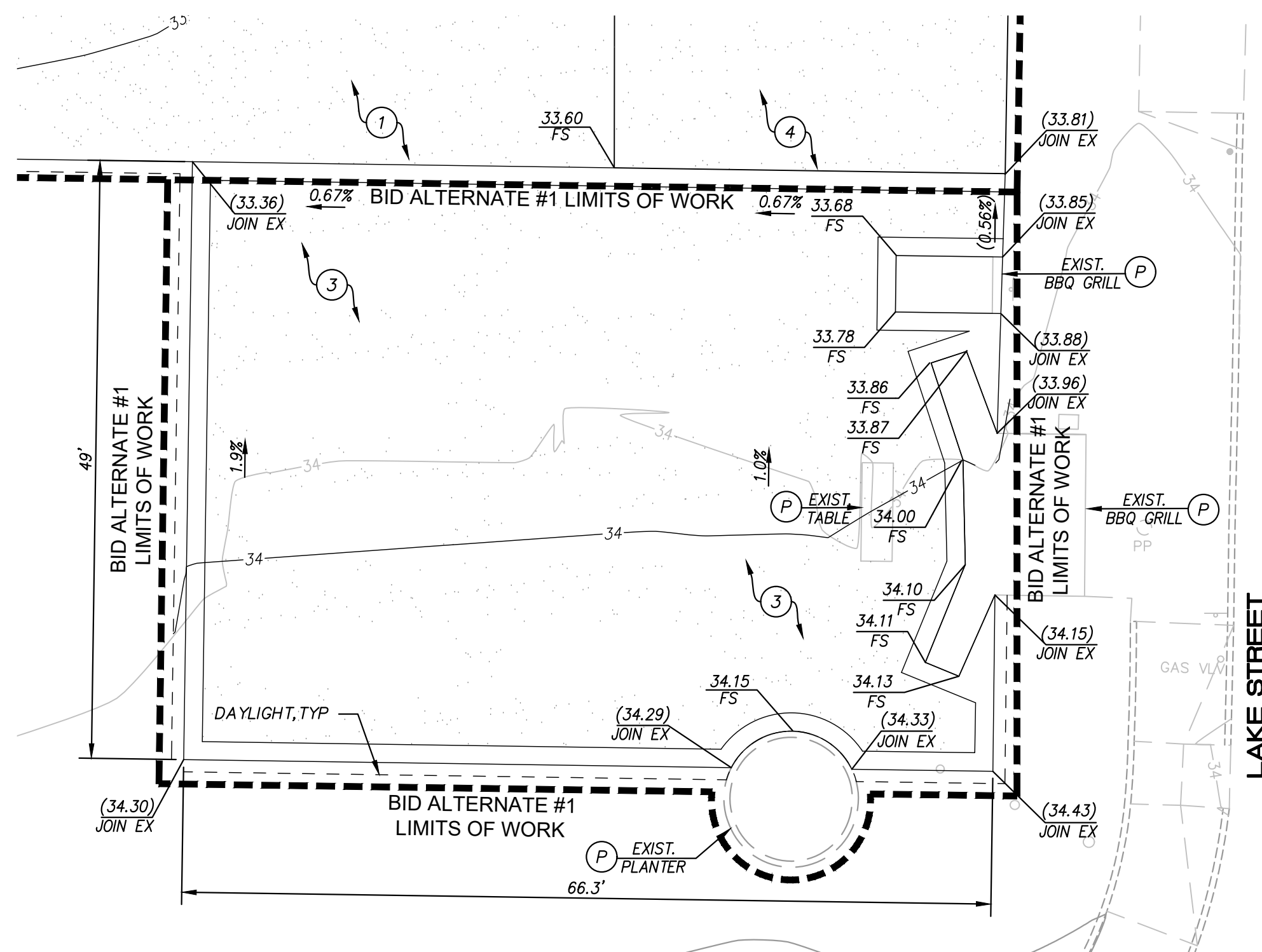


## CONSTRUCTION NOTES

1. CONST. 4" CONCRETE SIDEWALK PER CITY OF HUNTINGTON BEACH STD PLAN NO. 207 COLOR AND FINISH PER ARCH PLANS
2. NOT USED
3. CONST. 4" THICK CONCRETE PAVING WITH 18" WIDE BANDING PER ARCH PLANS COLOR AND FINISH PER ARCH PLANS
4. CONST. 6" THICK CONCRETE PAD PER ARCH PLANS
5. NOT USED
6. CONST. 0" TO 8" CURB TRANSITION PER HUNTINGTON BEACH STD PLAN NO. 201 AS MODIFIED PER PLAN
7. CONST. AC SLOT PATCH PER DETAIL 7 HEREON
- P. PROTECT IN PLACE

## NOTE:

SEE SHEET G1.1 FOR PUBLIC WORKS GENERAL NOTES.

7 AC SLOT PATCH DETAIL  
N.T.S.

BID ALTERNATE #1

SCALE: 1" = 10'-0"

GRAPHIC SCALE

SCALE IN FEET  
1 inch = 10 ft.

## BENCHMARK: BM# HB-272-01

DESCRIBED BY OCS 2002 - FOUND 31" OCS ALUMINUM BENCHMARK DISK STAMPED "HB-272-01", SET IN THE NORTHWEST CORNER OF A 5 FT. BY 5 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF INDIANAPOLIS AVENUE AND LAKE STREET, 33 FT. EASTERLY OF THE CENTERLINE OF LAKE STREET AND 39 FT. NORTHERLY OF THE CENTERLINE OF INDIANAPOLIS. MONUMENT IS SET LEVEL WITH THE SIDEWALK. EL=36.482 ADJ. 1995

PROJECT NO. C2002

100% CD's 3-01-2021

## Underground Service Alert

Call TOLL FREE  
1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

## REVISIONS

REV.	DATE	BY	DESCRIPTION	APP'VD

## REFERENCES


## PREPARED UNDER THE SUPERVISION OF:

TERRY EVANS

R.A. NO.: C33095 EXP. DATE: 11-30-2021

APPROVED BY:

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R.C.E. No: C82756 Exp. Date: 09/30/22

DRAWN BY:

DESIGNED BY:

CHECKED BY:

CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS

## SHEET TITLE

## GRADING PLAN

LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

## SHEET NO.

G1.0

5 OF 26



GRADING GENERAL NOTES

- ALL GRADING SHALL BE DONE IN ACCORDANCE WITH THE CITY OF HUNTINGTON BEACH REQUIREMENTS.
- CITY OF HUNTINGTON BEACH GRADING INSPECTOR IS TO BE NOTIFIED 48 HOURS PRIOR TO ANY GRADING AT THE DEPARTMENT OF PUBLIC WORKS, (714) 536-5431.
- DUST SHALL BE CONTROLLED BY WATERING.
- REMOVE ALL VEGETATION AND DEBRIS PRIOR TO ANY GRADING, INSPECTION IS REQUIRED.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A SEPARATE ENCROACHMENT PERMIT.
- IMPORT SOIL SHALL BE A GRANULAR MATERIAL WITH LOW EXPANSION POTENTIAL AND SHALL BE COMPACTED TO AT LEAST 90%.
- THE SUBGRADE OF THE DRIVEWAY AND PARKING AREAS SHALL BE SCARIFIED, BROUGHT TO OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 90%. CALL FOR CITY INSPECTION PRIOR TO PLACING CLASS 2 AGGREGATE BASE AND CASTING OF CONCRETE GUTTERS.
- A SOIL COMPACTION REPORT SHALL CERTIFY COMPACTION WITHIN BUILDING AND PAVING AREAS.
- A LICENSED ENGINEER, OR A LICENSED LAND SURVEYOR, SHALL CERTIFY LINE AND GRADE OF FINISH FLOOR FORMS.
- THE SOILS ENGINEER SHALL CERTIFY THAT ALL GRADING HAS BEEN COMPLETED PER THE SOILS REPORT PRIOR TO FINAL RELEASE.
- THE ENGINEER OR ARCHITECT OF RECORD SHALL CERTIFY THAT GRADES FOR ALL HARDSCAPE AND DRAINAGE DEVICES HAVE BEEN CONSTRUCTED PER APPROVED GRADING PLAN PRIOR TO FINAL RELEASE.
- ALL GRADING SHALL BE DONE IN ACCORDANCE WITH APPROVED SOILS REPORT NOTED HEREIN.
- STANDARD PLAN 100, SHEETS 1, 2, 3 AND 4 ARE INCORPORATED BY REFERENCE.
- THE SOILS ENGINEER AND CIVIL ENGINEER SHALL NOT BE SUBSTITUTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE DIRECTOR OF PUBLIC WORKS.
- USE THE AMERICAN PUBLIC WORKS ASSOCIATION SOUTHERN CALIFORNIA CHAPTER (APWA) WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH MANUAL) TENTH EDITION, 2006 WHEN WORKING IN THE STREETS OR ALLEYS. THE CITY INSPECTOR SHALL APPROVE BARRICADING PRIOR TO ANY WORK.
- STANDARD PLAN 600 GENERAL NOTES ARE INCORPORATED BY REFERENCE.
- ANY DAMAGE TO THE STREET LIGHT SYSTEM AND/OR TRAFFIC SIGNAL SYSTEM SHALL BE REPAIRED AND CONDUIT AND CONDUCTORS SHALL BE REPLACED PER CURRENT HUNTINGTON BEACH STANDARD PLANS AND STANDARD SPECIAL PROVISIONS FOR THE CONSTRUCTION OF TRAFFIC SIGNALS AND LIGHTING SYSTEMS IN THE CITY OF HUNTINGTON BEACH 2001 EDITION.
- REFER TO LANDSCAPE ARCHITECT PLANS FOR ADDITIONAL INFORMATION AND SLEEVING THAT MAY BE REQUIRED.

EROSION CONTROL GENERAL NOTES

- EROSION CONTROL IS REQUIRED FOR GRADING OPERATIONS DURING "DRY SEASON" REQUIREMENTS (MAY 1 THROUGH SEPTEMBER 30) AND FOR "WET SEASON" REQUIREMENTS (OCTOBER 1 THROUGH APRIL 30). APPROVED PLANS ARE REQUIRED FOR ALL ROUGH GRADING OPERATIONS.
- IN CASE OF EMERGENCY CALL:

JEFF SCOTT  
(RESPONSIBLE PERSON)

ICG, INC.  
(FIRM)  
  
AT 909-322-5590  
(24 HOUR PHONE NO.)
- THE DESIGN CIVIL ENGINEER WILL SUPERVISE EROSION CONTROL WORK AND ENSURE THAT WORK IS IN ACCORDANCE WITH THE APPROVED PLANS (IF REQUIRED).
- THERE SHALL BE A "WEATHER TRIGGERED" ACTION PLAN AND THE ABILITY TO DEPLOY STANDBY SEDIMENT CONTROL BMP'S AS NEEDED TO PROTECT ALL EXPOSED PORTIONS OF THE SITE WITHIN 48 HOURS OF A PREDICTED STORM EVENT (A PREDICTED STORM EVENT IS DEFINED AS A NATIONAL WEATHER SERVICE FORECASTED, 50% CHANCE OF RAIN).
- EROSION CONTROL DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE CITY ENGINEER.
- ALL REMOVABLE PROTECTIVE EROSION CONTROL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY.
- AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS, SILT FENCES, AND DESILTING BASINS, ETC.
- GRADED AREAS AROUND THE TRACT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
- THE CITY ENGINEER RESERVES THE RIGHT TO MAKE CHANGES OR MODIFICATIONS TO THIS PLAN AS DEEMED NECESSARY.
- INFORMATION ON THIS PLAN IS FOR EROSION CONTROL ONLY. ALL OTHER INFORMATION IS SUBJECT TO CHANGE.
- AREAS SHALL BE MAINTAINED IN SUCH A STATE THAT FIRE ACCESS SHALL BE MAINTAINED AT ALL TIMES (INCLUDING ACCESS TO NEIGHBORING PROPERTIES).
- NO OBSTRUCTION OR DISTURBANCE OF NATURAL DRAINAGE COURSES OR EXISTING STORM DRAIN INLETS SHALL OCCUR DURING THE "WET SEASON", UNLESS ADEQUATE TEMPORARY/ PERMANENT DRAINAGE FACILITIES HAVE BEEN APPROVED AND INSTALLED TO CARRY SURFACE WATER TO THE NEAREST PRACTICAL STREET, STORM DRAIN OR NATURAL WATER COURSE.
- THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER THAT STORM RUNOFF WILL BE CONTAINED WITHIN THE PROJECT OR CHANNLED INTO THE STORM DRAIN SYSTEM WHICH SERVES THE RUNOFF AREA. STORM RUNOFF FROM ONE AREA SHALL NOT BE ALLOWED TO DIVERT TO ANOTHER RUNOFF AREA.
- CONFORMANCE WITH THE REQUIREMENTS OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TO THIS SITE AND ADJACENT PROPERTIES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT BE LIMITED TO, CONSTRUCTING SUCH FACILITIES AND TAKING SUCH MEASURES AS ARE NECESSARY TO PREVENT, CONTROL AND ABATE WATER, MUD AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT.
- CLEARING AND GRUBBING SHOULD BE LIMITED TO AREAS THAT WILL RECEIVE IMMEDIATE GRADING. EROSION CONTROL MEASURES WILL BE REQUIRED TO PROTECT AREAS THAT HAVE BEEN CLEARED AND GRUBBED PRIOR TO GRADING OPERATION, AND THAT ARE SUBJECT TO RUNOFF DURING THE PERIOD FROM THE BEGINNING OF THE "WET SEASON". THESE MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO: GRADED DITCHES; BRUSH BARRIERS AND SILT FENCES. CARE SHALL BE EXERCISED TO PRESERVE VEGETATION BEYOND THE LIMITS OF GRADING.
- CITY APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS AND OMISSIONS DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE REQUIRED PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.

NPDES GENERAL NOTES

- SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING INDUSTRY ACCEPTED BEST MANAGEMENT PRACTICES (BMPs). THESE BMPs SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY SUCH AS GRADING THAT MAY CAUSE SOIL DISTURBANCE. THESE BMPs ARE TO BE MAINTAINED YEAR-ROUND OR UNTIL ALL LOOSE SEDIMENT HAS BEEN STABILIZED.
- STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES AND ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND. STOCKPILED MATERIAL SHALL BE NO MORE THAN 8 FEET IN HEIGHT AND SHALL BE COMPLETELY COVERED WITH A SECURE IMPERMEABLE COVER AT THE END OF EACH WORK DAY. ALL STOCKPILES SHALL BE LOCATED AWAY FROM ANY STORM DRAIN INLETS AND AWAY FROM ANY STORM WATER CONVEYANCE STRUCTURES. AT NO TIME SHALL ANY RAW MATERIAL BE STAGED OR STOCKPILED ON CITY STREETS, SIDEWALKS, AND/OR GUTTERS WITHOUT A VALID OBSTRUCTION PERMIT.
- APPROPRIATE BMPs FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, AND ADJOINING PROPERTY BY WIND OR RUNOFF.
- RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED ON THE CONSTRUCTION SITE AND SHALL NOT BE DISCHARGED TO RECEIVING WATERS OR TO THE STORM DRAIN SYSTEM.
- CONCRETE WASH OUT WATER SHALL BE CONTAINED IN A WATER-TIGHT DEVICE TO PREVENT CEMENT DEPOSITION ONTO THE GROUND AND RUNOFF INTO STREETS, DRAINAGE FACILITIES, AND RECEIVING WATERS.
- ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BMPs AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
- AT THE END OF EACH WORK DAY, ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN COVERED TRASH OR RECYCLE BINS.
- CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT STORMWATER DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIALS OTHER THAN STORMWATER (NON-STORMWATER DISCHARGES) ARE PROHIBITED EXCEPT AS AUTHORIZED BY AN INDIVIDUAL NPDES PERMIT OR THE STATEWIDE GENERAL CONSTRUCTION STORMWATER PERMIT.
- ALL UNPAVED CONSTRUCTION ENTRANCES AND EXITS SHALL BE PROTECTED USING AN EFFECTIVE COMBINATION OF TRACKING CONTROL BMPs TO MINIMIZE AND/OR ELIMINATE OFF-SITE TRACKING OF SEDIMENT. THESE BMPs SHALL BE MAINTAINED AND INSPECTED DAILY.
- ALL TEMPORARY PORTABLE RESTROOMS MUST HAVE A CATCHMENT PAN AND MUST BE LOCATED AT LEAST 50 FEET AWAY FROM ANY STORM DRAIN INLETS.
- POLLUTANTS ARE ANY SUBSTANCES INTRODUCED INTO THE ENVIRONMENT THAT ADVERSELY AFFECTS THE USEFULNESS OF A RESOURCE. POTENTIAL POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO: SEDIMENT; SOLID OR LIQUID CHEMICALS SUCH AS: PAINTS, STAINS, SEALANTS, SOLVENTS, DETERGENTS, GLUES, LIME, PESTICIDE, HERBICIDE, FERTILIZERS, WOOD PRESERVATIVES AND ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; CONCRETE, AND RELATED CUTTING OR CURING RESIDUES; FLOATABLE WASTES; WASTES FROM ENGINE / EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; WASTES FROM STREET CLEANING; AND SUPER-CHLORINATED POTABLE WATER FROM LINE FLUSHINGS AND TESTING.
- DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED MANNER. A DESIGNATED TEMPORARY AREA ON-SITE SHALL BE PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
- DISCHARGING CONTAMINATED GROUNDWATER, PRODUCED BY DEWATERING GROUNDWATER THAT HAS INFILTRATED INTO THE CONSTRUCTION SITE IS PROHIBITED. DISCHARGING OF CONTAMINATED SOILS VIA SURFACE EROSION IS ALSO PROHIBITED. DISCHARGING NON-CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING ACTIVITIES REQUIRES A NATIONAL POLLUTANTS DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.
- DISCHARGES OF STORM WATER FROM CONSTRUCTION SITES SHALL NOT BE LADEN WITH SEDIMENT. ALL STORM WATER DISCHARGES MUST BE RELATIVELY FREE OF SEDIMENT.
- ALL CONTRACTORS AND CONSTRUCTION PERSONNEL SHALL MEET THE REGULATORY CONSTRUCTION REQUIREMENTS ON THE PROJECT SITE IN COMPLIANCE WITH THE CITY'S MUNICIPAL CODE 14.25, STORMWATER AND URBAN RUNOFF MANAGEMENT AND MUNICIPAL CODE 17.05, GRADING AND EXCAVATION CODE.

PROJECT NO. C2002100% CD's3-01-2021



Call TOLL FREE  
1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

REVISIONS				
REV.	DATE	BY	DESCRIPTION	APP'VD

REFERENCES		


PREPARED UNDER THE SUPERVISION OF:  
TERRY EVANS

R.A. NO.: C33095EXP. DATE: 11-30-2021

APPROVED BY:

CHRIS TANIO, PRINCIPAL C.E. DATE  
R.C.E. No: C82756Exp. Date: 09/30/22



CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS

SHEET TITLE

GENERAL NOTES

LAKE PARK IMPROVEMENTS

1035 11th Street

Huntington Beach, Ca 92648

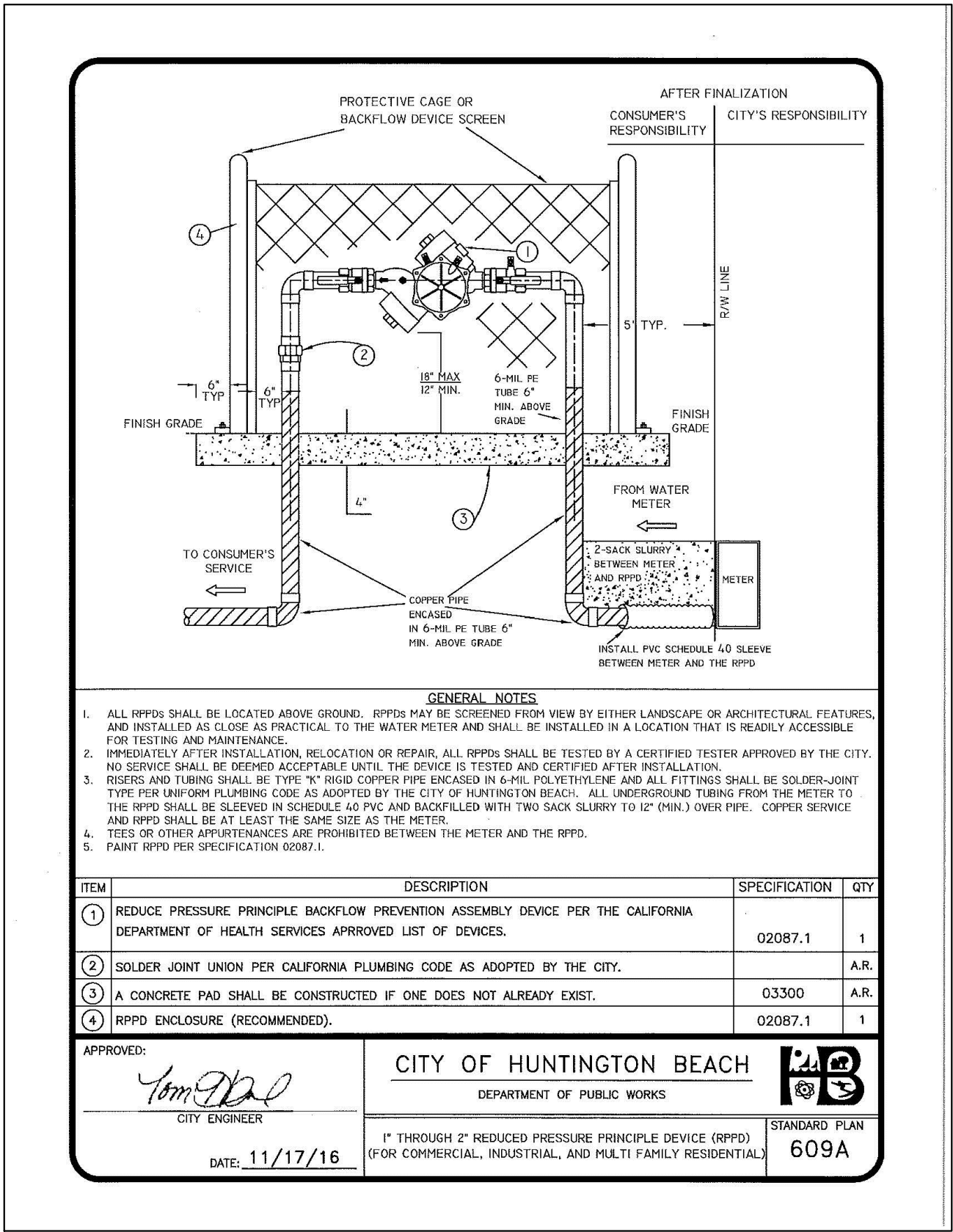
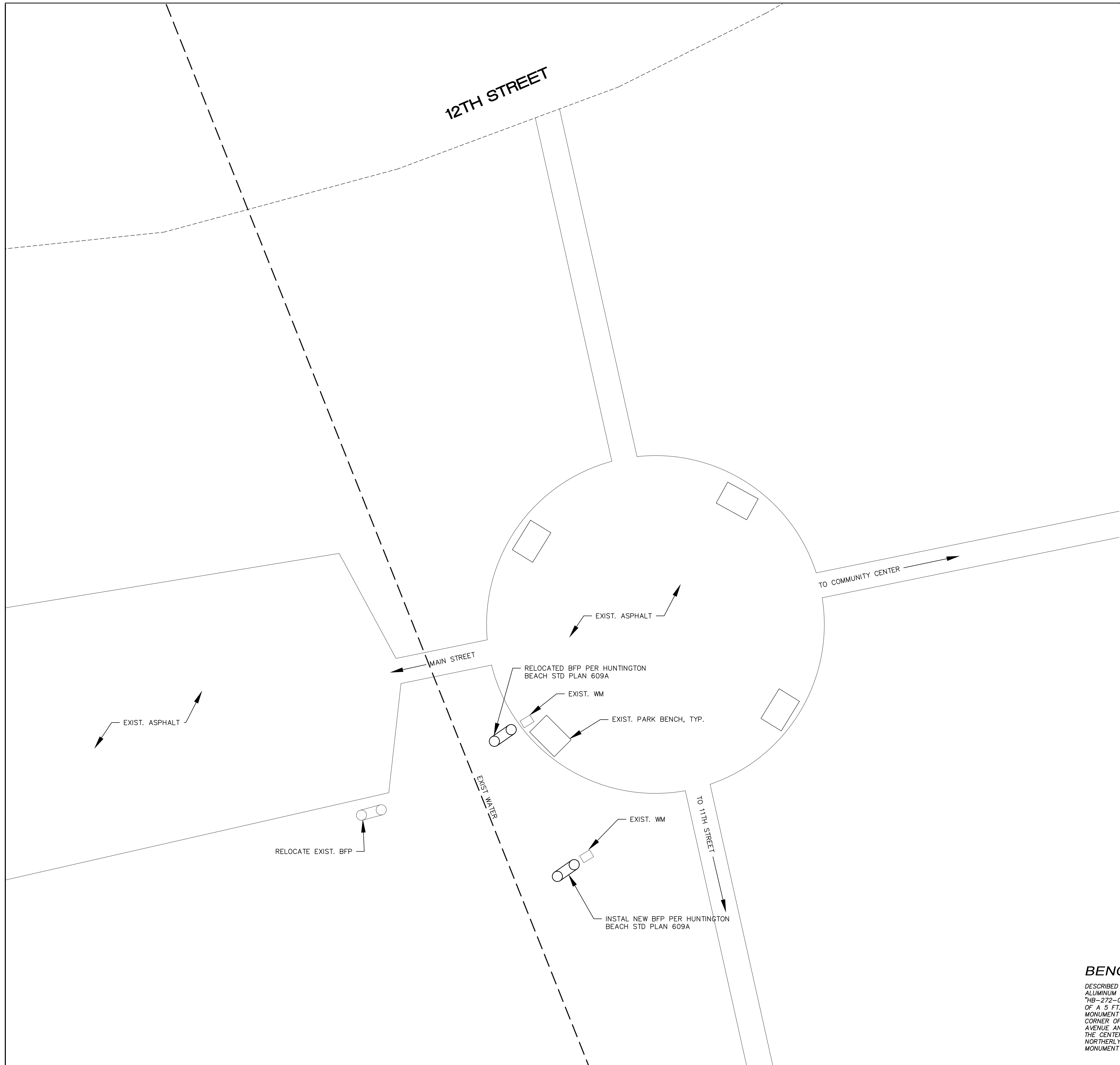
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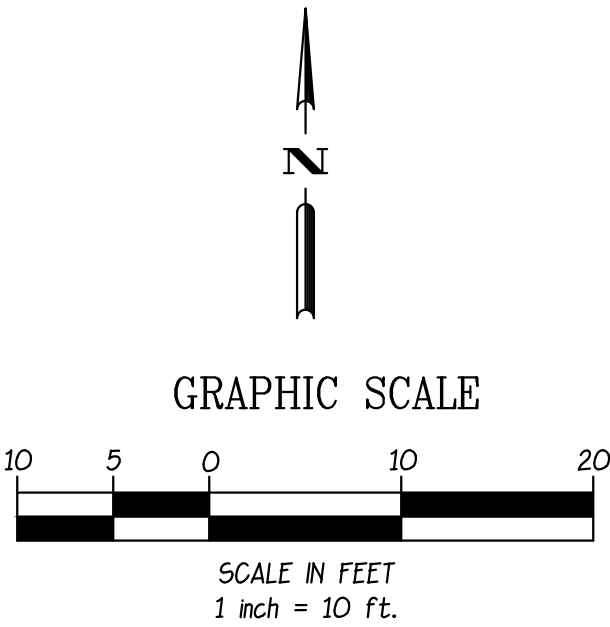
OF 26





**BENCHMARK:** BM# HB-272-01

DESCRIBED BY OCS 2002 - FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "HB-272-01", SET IN THE NORTHWEST CORNER OF A 5 FT. BY 5 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION OF INDIANAPOLIS AVENUE AND LAKE STREET, 33 FT. EASTERLY OF THE CENTERLINE OF LAKE STREET AND 39 FT. NORTHERLY OF THE CENTERLINE OF INDIANAPOLIS. MONUMENT IS SET LEVEL WITH THE SIDEWALK. EL=36.482 ADJ. 1995



PROJECT NO. C2002 100% CD's 3-01-2021

**Underground Service Alert**

 **Call TOLL FREE 1-800-422-4133**

**TWO WORKING DAYS BEFORE YOU DIG**

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REV.	DATE	BY	DESCRIPTION	APP'VD

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PREPARED UNDER THE SUPERVISION OF:	
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R.A. NO.: C33095	EXP. DATE: 11-30-2021
APPROVED BY:	
CHRIS TANIO, PRINCIPAL C.E. DATE	
R.C.E. No: C82756 Exp. Date: 09/30/22	

 **CITY OF HUNTINGTON BEACH**  
DEPARTMENT OF PUBLIC WORKS

**SHEET TITLE**  
**BFP INSTALLATION**

LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

**SHEET NO.**  
**G1.2**

7 OF 26





Site Image #1



Site Image #2



Site Image #3



Site Image #4



Site Image #5



Site Image #6



Site Image #7



Site Image #8



Site Image #9



Site Image #10



Site Image #11



Site Image #12



Site Image #13



Site Image #14



Site Image #15



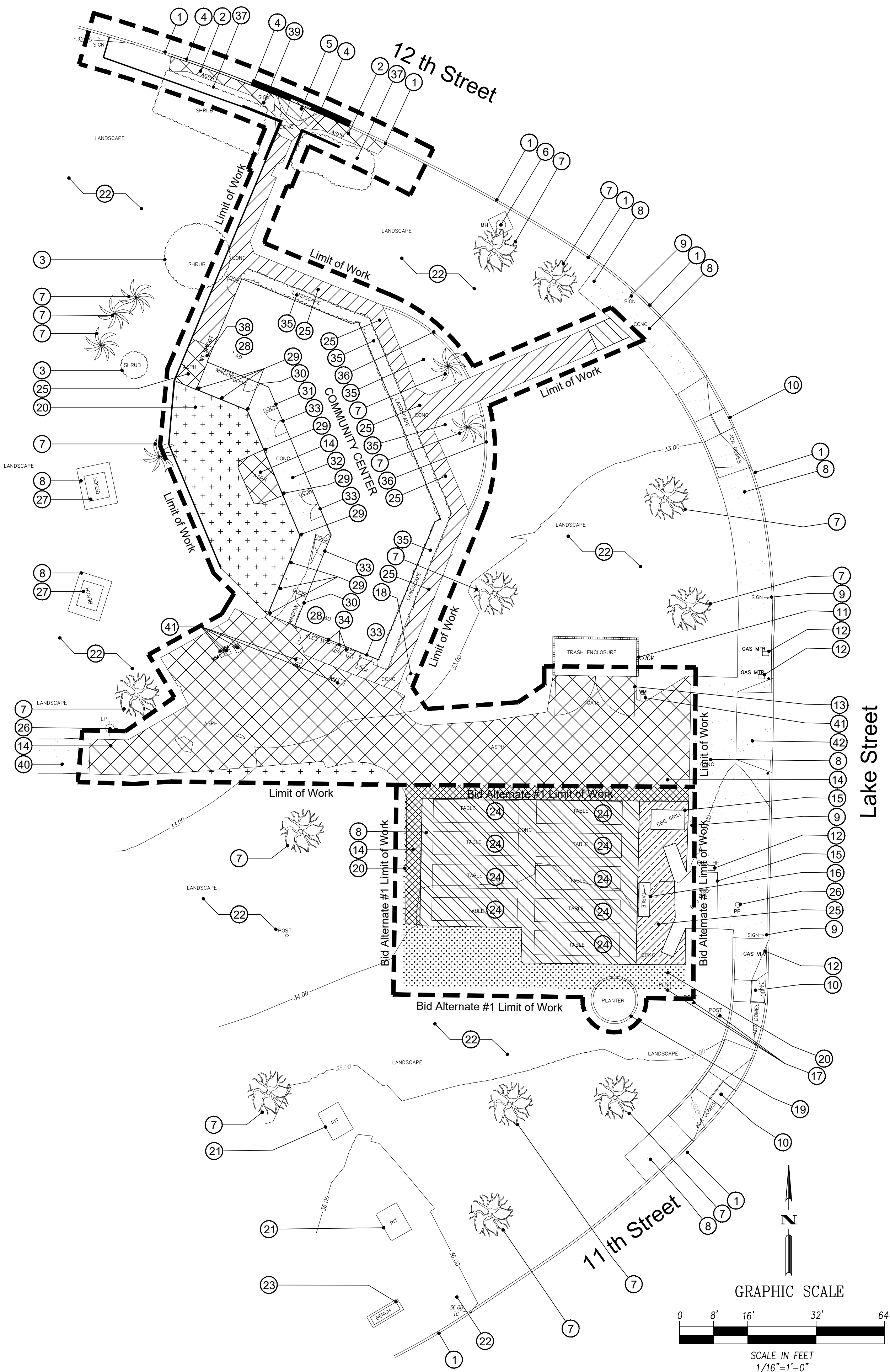
Site Image #16



Site Image #17



Site Image #18



- KEYNOTES:** (E) = Existing  
(R) = Remove  
P.I.P. - Protect In Place
- (E) 8" Concrete curb and gutter shall remain P.I.P.
  - (R) Asphalt paving
  - (E) Shrubs to remain P.I.P.
  - (R) Concrete curb and gutter - Refer to Site Plan sheet S1.0
  - (R) Concrete ramp - Refer to Site Plan sheet S1.0
  - (E) Manhole shall remain P.I.P.
  - (E) Tree shall remain P.I.P.
  - (E) Concrete shall remain P.I.P.
  - (E) Signage shall remain P.I.P.
  - (E) Handicap ramp shall remain P.I.P.
  - (E) Trash enclosure shall remain P.I.P.
  - (E) Utility box shall remain P.I.P.
  - (E) Trash enclosure gates shall remain P.I.P.
  - (R) Asphalt paving
  - (E) B.B.Q. shall remain P.I.P.
  - (E) Stainless Steel serving table shall be removed and reinstalled. Contractor shall store in community center.
  - (R) Wood poles (total 3)
  - (R) 2'-6" Diameter footing shall 18" below grade
  - (E) Planter wall to remain P.I.P.
  - (R) Turf - Refer to Site Plan sheet S1.0
  - (E) Horseshoe pit shall remain P.I.P.
  - (E) Turf shall remain P.I.P.
  - (E) Bench shall remain P.I.P.
  - (R) Picnic tables and footings
  - (R) Stone paving
  - (E) Light pole shall remain P.I.P.
  - (E) Picnic table pad shall remain P.I.P.
  - (R) Restroom refer to Architectural Plans A1.0
  - (E) Structural building post shall remain P.I.P.
  - (E) Restroom door shall be relocated refer to Architectural Plan A1.0
  - (E) Community building shall remain P.I.P. Refer to Architectural Plan A1.0
  - (E) Building stoop pad shall remain P.I.P.
  - (E) Building door shall remain P.I.P.
  - (E) Miscellaneous utilities shall remain P.I.P.
  - (R) Landscape material and replace. Refer to Landscape & Irrigation Plan L1.0 and J1.0
  - (E) Concrete curb shall remain P.I.P.
  - (E) Landscape shrubs and turf to be trimmed or removed for new construction.
  - (E) Water spigot shall remain P.I.P.
  - (E) Signage shall be relocated refer to Site Plans S1.0
  - (E) Asphalt paving shall remain P.I.P.
  - (R) Utility box and replace with new green plastic irrigation box. City to approve
  - (E) Drive approach shall remain P.I.P.

- DEMOLITION NOTES:**
- All demolition and removal work shall be carefully performed to avoid damage to existing trees noted on the plans as remaining.
  - All removal work (except as noted) shall be disposed of off-site, in a legal manner, at the Contractor's expense.
  - Clear the site of grass, weed growth, rubbish, debris, pavement, concrete, inactive or abandoned facilities (verified by the City's Representative), etc., that are to be removed for construction of the site improvements to the limits and depths shown on the plans.
  - Abandoned underground facilities (verified by the owner), roots 3" in diameter and larger, rocks and broken masonry larger than 4" in any dimension shall be removed to a minimum depth of 12" below finish grade.
  - Miscellaneous, inactive, or abandoned underground facilities located 12" or more below finish grade may be removed with the City's representative approval.
  - Miscellaneous active lines within 12" of finish grade that are uncovered during the grading operations shall be protected.
  - All deleterious materials within the limits of the work shall be disposed of off-site by the contractor, who shall make all necessary arrangements and pay all costs related to the disposal.
  - Active utilities shall be protected by and at the expense of the Contractor. Keep all required utilities in operating condition during the entire period of work, including existing irrigation systems for landscape maintenance.
  - Inactive or abandoned utilities shall be disconnected, removed, and plugged or capped subject to the local governing ordinances.
  - If the Contractor encounters any existing underground utilities not shown on the drawings, he shall immediately notify the owner who will determine further procedure.
  - Burning of debris will not be permitted except by written permission from the Air Pollution Control authorities and governing fire authorities.

- DEMOLITION SYMBOLS LEGEND:**
- |   |
|---|
| (E) Concrete to be removed (115 s.f.)           |
| (E) Asphalt to be removed (3,196 s.f.)          |
| (E) Stone paving to be removed (353 s.f.)       |
| (E) Turf and shrubs to be removed (827 s.f.)    |
| (E) Curb to be removed at 12th Street (25 f.f.) |
| (E) Concrete to be removed (1,749 s.f.)         |
| (E) Asphalt to be removed (421 s.f.)            |
| (E) Stone paving to be removed (360 s.f.)       |
| (E) Turf and shrubs to be removed (616 s.f.)    |
- NOTE: Contractor is responsible for all quantities.

**SITE IMAGES**

2

**DEMOLITION PLAN** SCALE: 1" = 16'-0"

1

PROJECT NO. C2002 100% CD's 3-01-2021



REVISIONS				
REV.	DATE	BY	DESCRIPTION	APP'VD

**REFERENCES**

DRAWN BY:	
DESIGNED BY:	
CHECKED BY:	

PREPARED UNDER THE SUPERVISION OF:	
TERRY EVANS	
R.A. NO.: C33095	EXP. DATE: 11-30-2021
APPROVED BY:	
CHRIS TANIO, PRINCIPAL C.E.	DATE
R.C.E. No: C82756	Exp. Date: 09/30/22



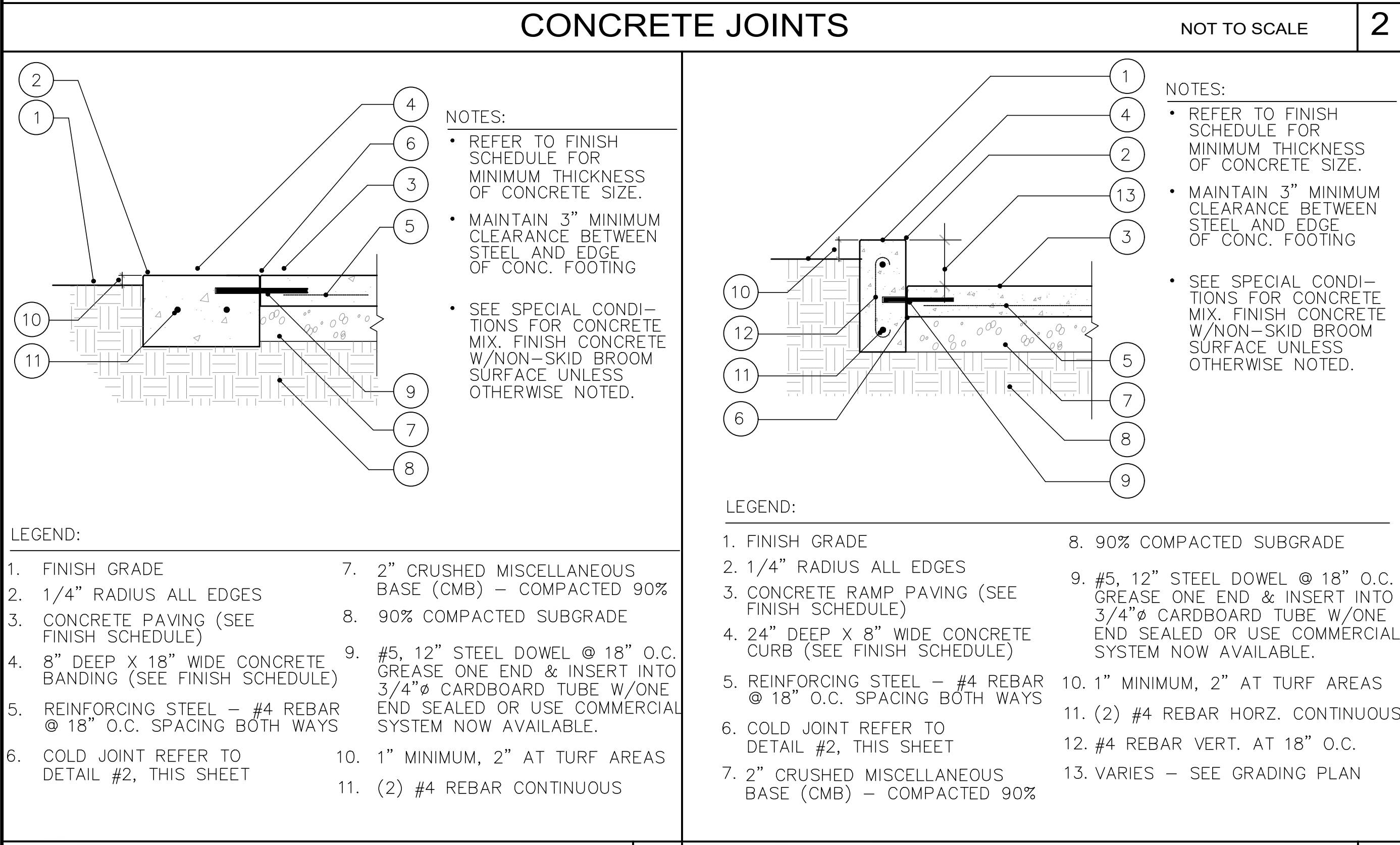
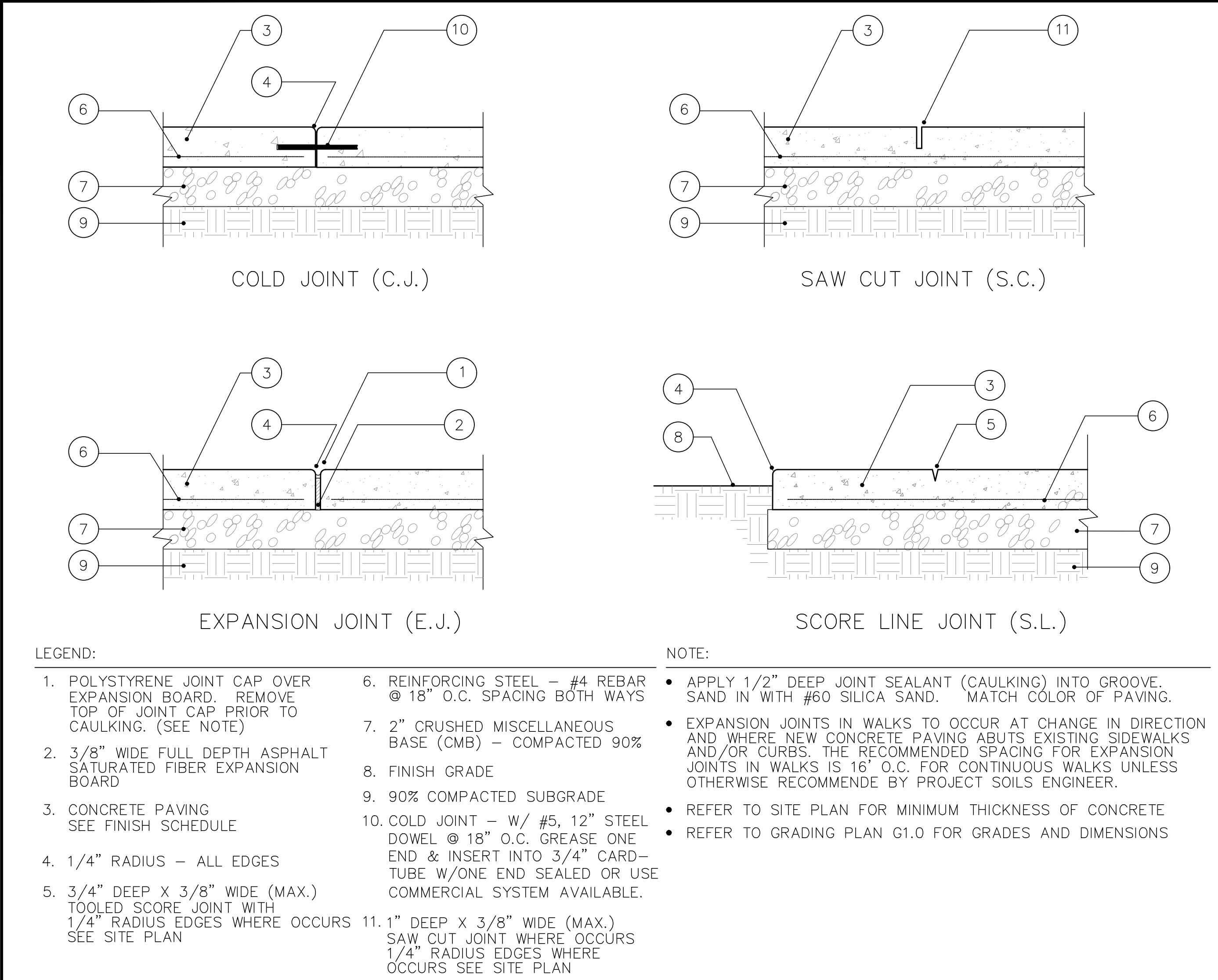
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**DEMOLITION PLAN**  
  
LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

SHEET NO.  
**D1.0**  
8 OF 26

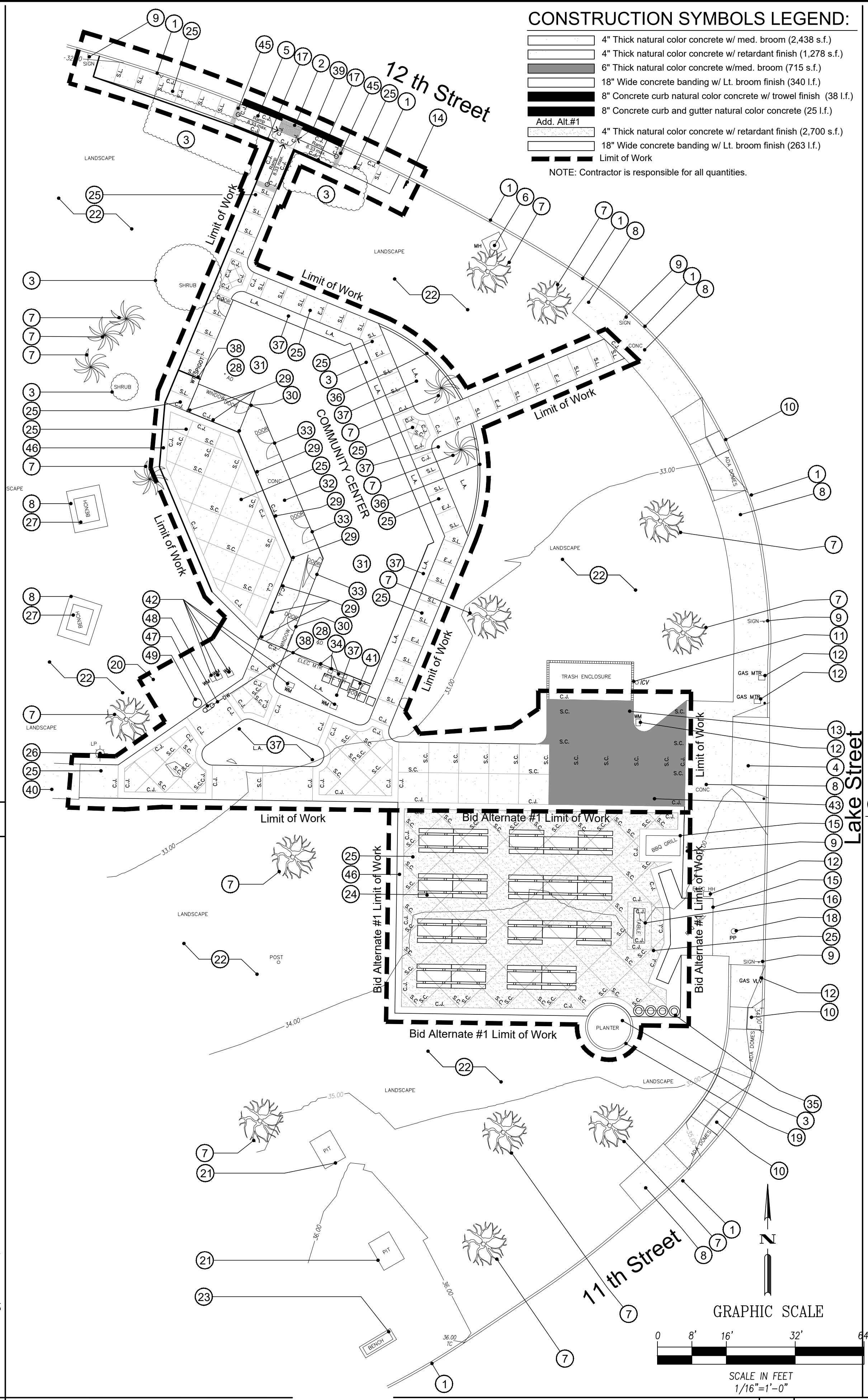
LAKE PARK IMPROVEMENTS

C.C. No. 1629





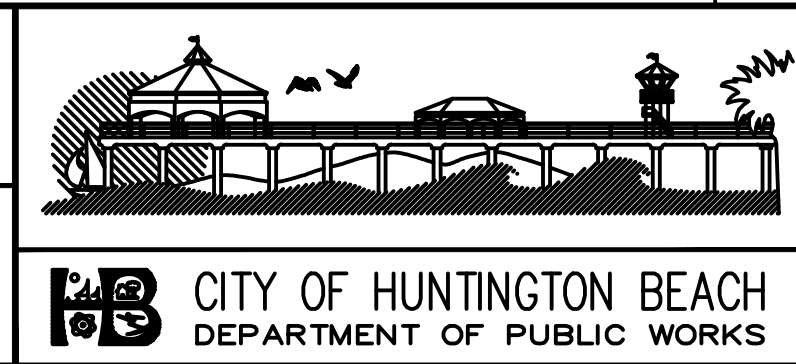
**18" WIDE X 8" DEEP BANDING** **4** **8" WIDE X 24" DEEP CURB** **NOT TO SCALE** **3**



REVISIONS				
REV.	DATE	BY	DESCRIPTION	APP'VD

REFERENCES				



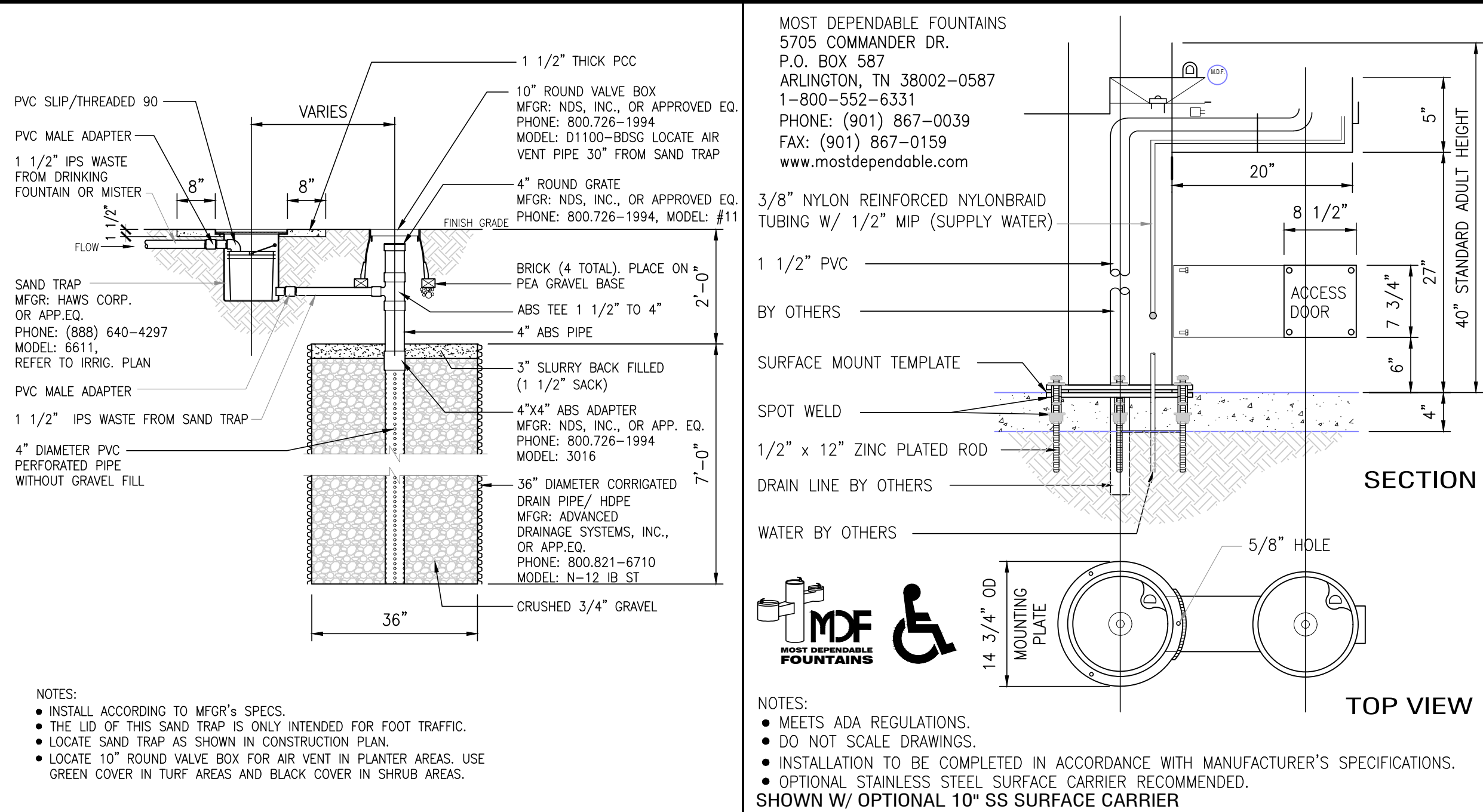


SHEET TITLE		SHEET NO.
SITE PLAN AND DETAILS		
LAKE PARK IMPROVEMENTS		S1.0 9 OF 26
1035 11th Street Huntington Beach, Ca 92648		

LAKE PARK IMPROVEMENTS

C.C. No. 1629





MOST DEPENDABLE FOUNTAINS  
5705 COMMANDER DR.  
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ARLINGTON, TN 38002-0587  
1-800-552-6331  
PHONE: (901) 867-0039  
FAX: (901) 867-0159  
www.mostdependable.com

3/8" NYLON REINFORCED NYLONBRAID  
TUBING W/ 1/2" MIP (SUPPLY WATER)

1 1/2" PVC  
BY OTHERS

SURFACE MOUNT TEMPLATE

SPOT WELD

1/2" x 12" ZINC PLATED ROD

DRAIN LINE BY OTHERS

WATER BY OTHERS

5/8" HOLE

14 3/4" OD  
MOUNTING PLATE

NOTES:

• MEETS ADA REGULATIONS.

• DO NOT SCALE DRAWINGS.

• INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

• OPTIONAL STAINLESS STEEL SURFACE CARRIER RECOMMENDED.

SHOWN W/ OPTIONAL 10" SS SURFACE CARRIER

NOT USED

7

D.F. SUMP

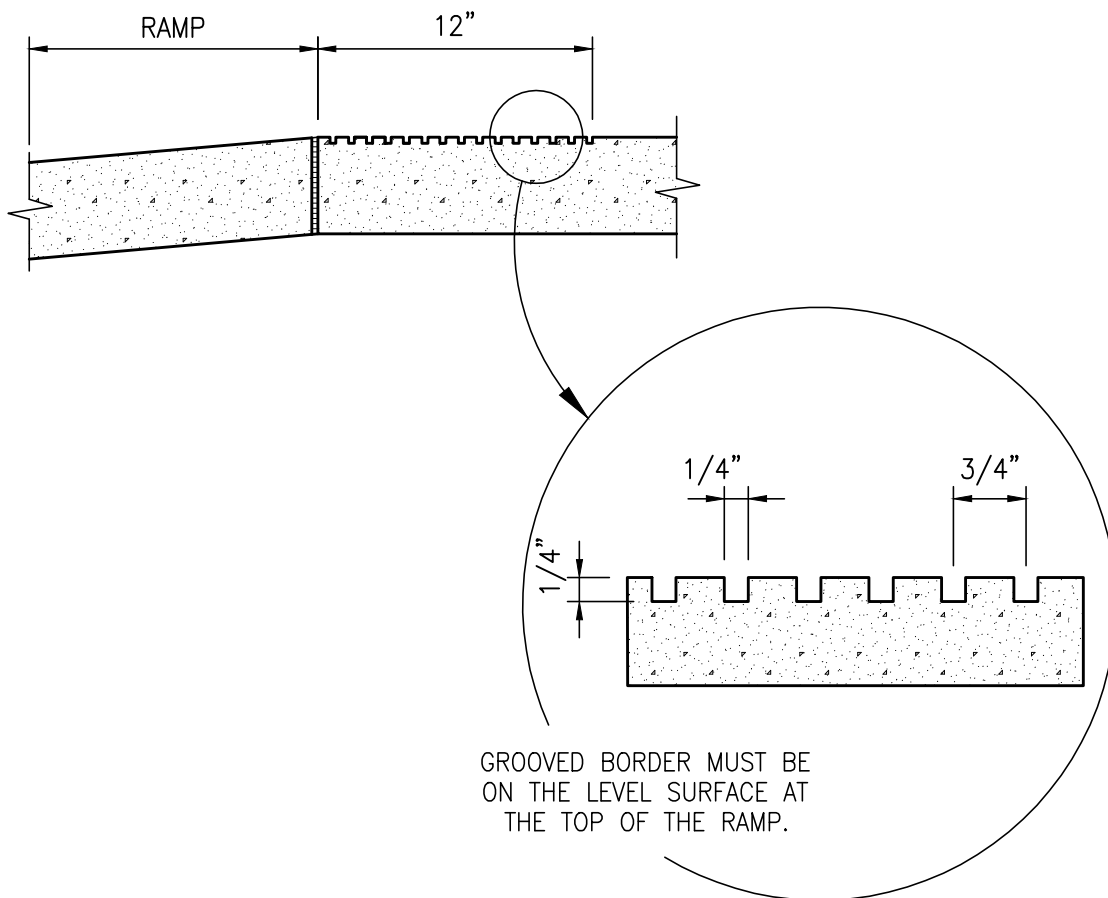
NOT TO SCALE

4

DRINKING FOUNTAIN

NOT TO SCALE

1



NOT USED

8

WARNING GROOVES

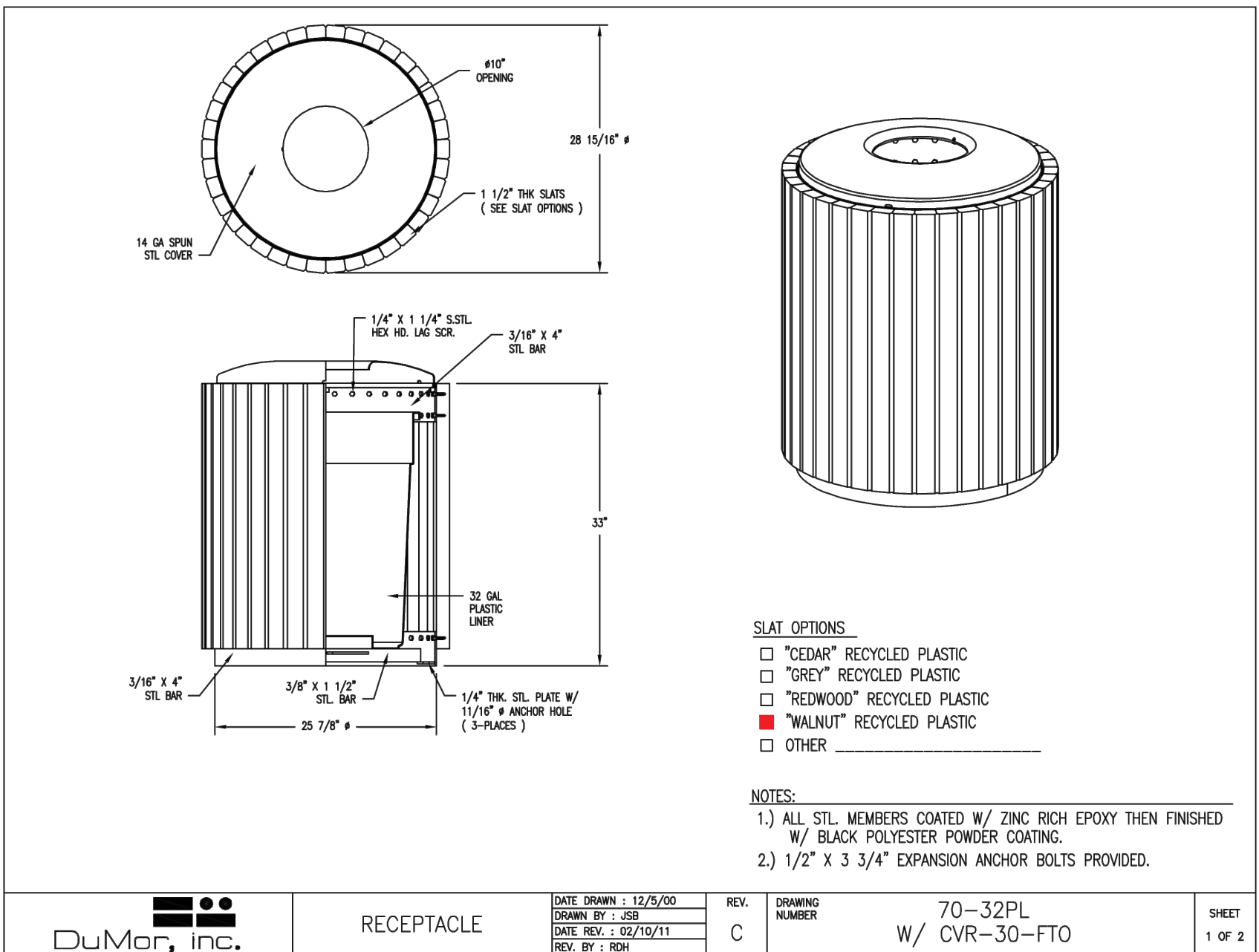
NOT TO SCALE

5

TACK-TILE-STRIP

NOT TO SCALE

2



RECYCLED PLASTIC TRASH RECEPTACLE

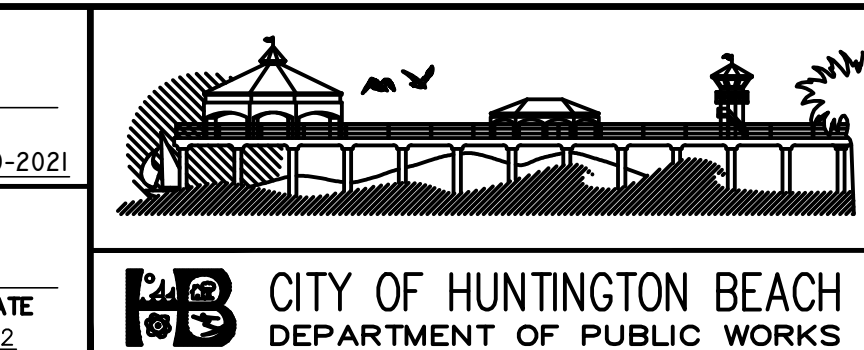
NOT TO SCALE

6

PICNIC TABLE

PROJECT NO. C2002 NOT TO SCALE

100% CD'S 3-01-2021



SHEET TITLE  
SITE DETAILS  
LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

SHEET NO.  
S1.1  
10 OF 26

Underground Service Alert  
Call: TOLL FREE  
1-800-422-4133  
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS				
REV.	DATE	BY	DESCRIPTION	APP'VD

REFERENCES				


PREPARED UNDER THE SUPERVISION OF: TERRY EVANS	
R.A. NO.: C33095	EXP. DATE: 11-30-2021
APPROVED BY:	
CHRIS TANIO, PRINCIPAL C.E.	DATE
R.C.E. No: C82756	Exp. Date: 09/30/22





KEYNOTES: (XX)

1. NEW ADA WATER CLOSET. SEE PLUMBING PLANS.
2. NEW 48" STAINLESS STEEL GRAB BAR.
3. NEW 36" STAINLESS STEEL GRAB BAR.
4. NEW WALL HUNG LAVATORY. SEE PLUMBING PLANS.
5. NEW SURFACE MOUNTED TOILET SEAT COVER DISPENSER.
6. NEW SURFACE MOUNTED SOAP DISPENSER.
7. NEW SURFACE MOUNTED PAPER TOWEL DISPENSER.
8. NEW 3'-0" X 8'-8" HM DOOR AND FRAME. PRIME AND PAINT WITH SEMI-GLOSS FINISH TO MATCH EXISTING COLOR. INSTALL NEW ADA DOOR SIGNAGE. REFER TO DETAIL 4/A4.0.
9. RELOCATED EXISTING VINYL WINDOW AND SECURITY BARS. RE-PAINT WITH SEMI-GLOSS FINISH TO MATCH EXISTING COLOR.
10. NEW 24"x36" VINYL WINDOW WITH OBSCURED INSULATED GLASS. FIELD VERIFY HEIGHT OF EXISTING WINDOW FOR CORRECT DIMENSION.
11. RELOCATED SECURITY BARS MODIFIED TO FIT NEW WINDOW SIZE. RE-PAINT WITH SEMI-GLOSS FINISH TO MATCH EXISTING COLOR.
12. PATCH EXISTING CONCRETE SLAB FLUSH WITH TOP OF EXISTING SLAB. TROWEL WITH SMOOTH FINISH. SEE DETAIL 2/A4.1.
13. NEW ADA URINAL. SEE PLUMBING PLANS.
14. REPLACE WALL INSULATION WITH NEW BATT INSULATION TO FILL ENTIRE DEPTH OF WALL STUDS IN THE INTERIOR AND EXTERIOR WALLS OF RESTROOMS PRIOR TO INSTALLATION OF NEW FINISHES.
15. RE-USE EXISTING EXTERIOR BEAD BOARD, IN AREA OF REMOVAL, TO FINISH EXTERIOR WALL. PLACE 2 LAYERS TYPE -D ASPHALT PAPER (OR EQUAL) PRIOR TO INSTALLATION. SEAL ALL JOINTS WITH SILICONE SEALER.
16. PAINT EXTERIOR SIDING WITH SEMI-GLOSS FINISH TO MATCH EXISTING COLOR.
17. INSTALL NEW BRAILLE RESTROOM SIGNAGE. REFER TO DETAIL 4/A4.0.
18. BABY CHANGING STATION. SEE TOILET ACCESSORIES SCHEDULE SHEET A3.0.

NOTES:

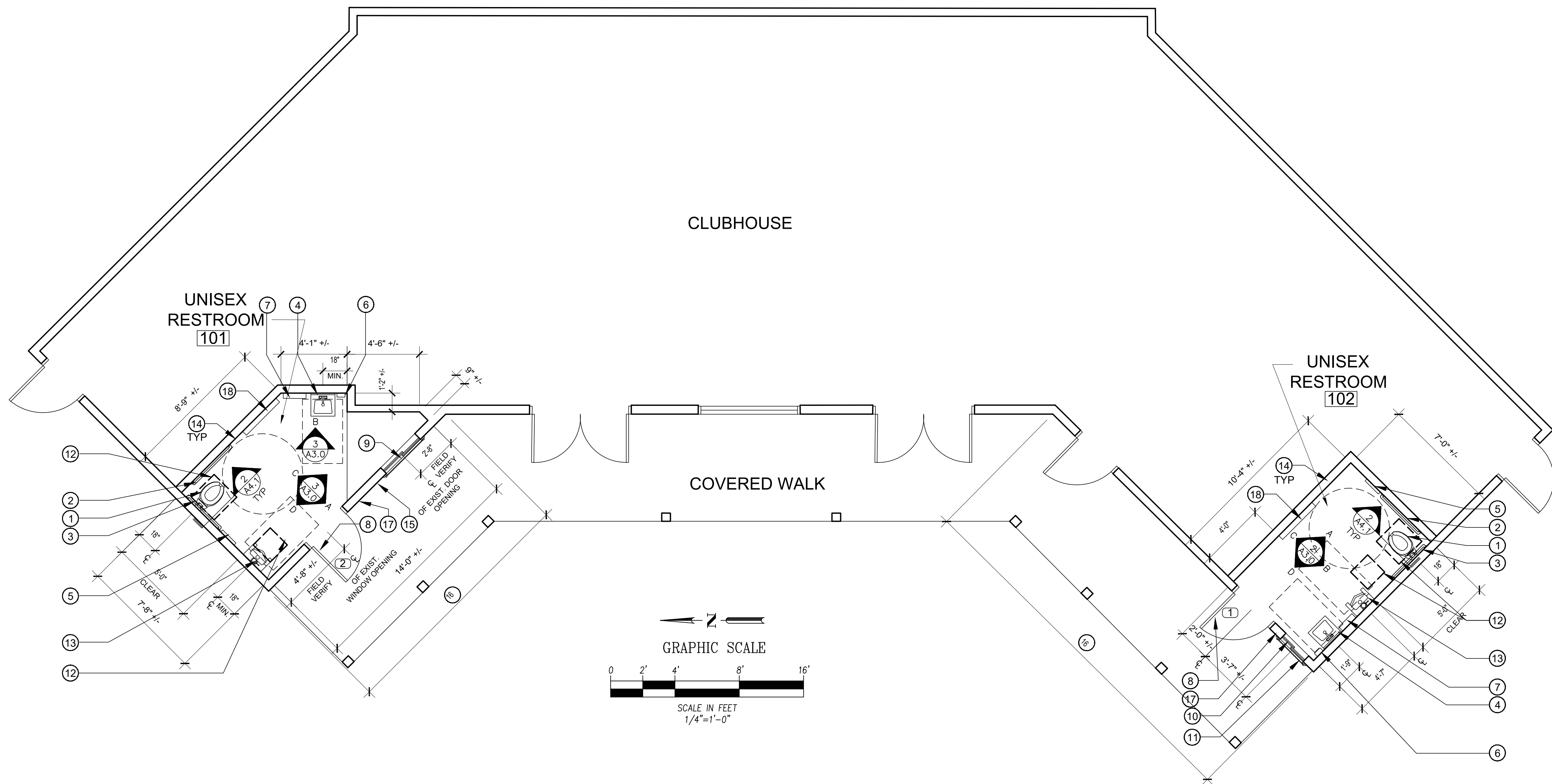
PROVIDE NEW BEAD BOARD SIDING, TO MATCH EXISTING, IF EXISTING SIDING IS NOT REUSABLE DUE TO DAMAGE DURING DEMOLITION.

DOOR HARDWARE SCHEDULE:

DOOR NUMBERS: ( )

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	SCB1 4.5 X 4.5	652	IVE
1	EA ENTRANCE OFFICE LOCK	N3010 RRD	626	SCH
1	EA ONE SIDED DEADBOLT	B661R	626	SCH
1	EA PERMANENT CORE	25-030	626	SCH
1	EA SURFACE CLOSER	1461 REG OR PA AS REQ' FC	689	LCN
1	EA LATCH GUARD	LG13	32D	IVE
1	EA KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA SILENCER	SR64	GRY	IVE
1	EA DOOR SWEEP	39W	A	ZER
1	EA DOOR SEAL	188RK	BLK	ZER



FLOOR PLAN

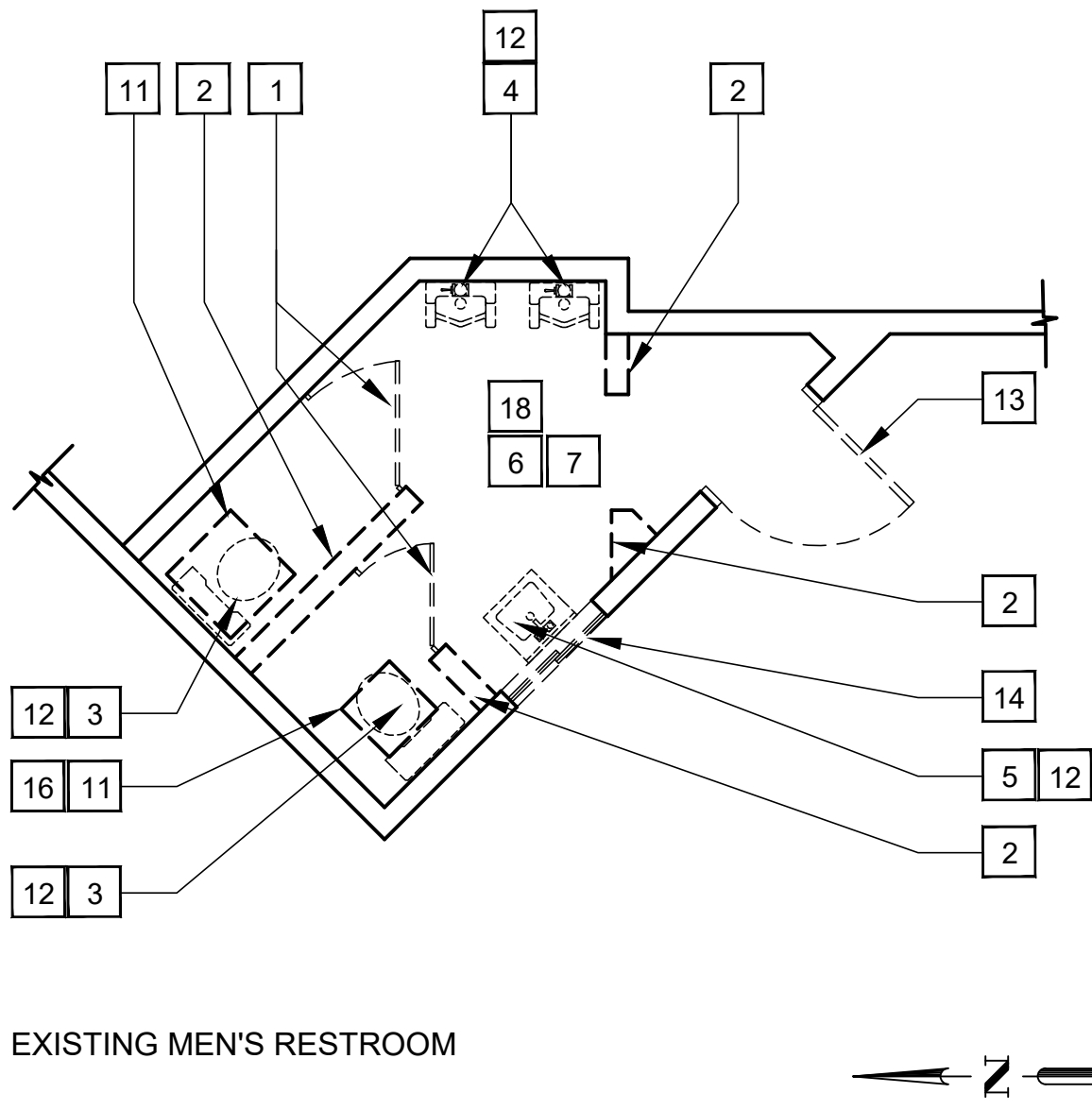
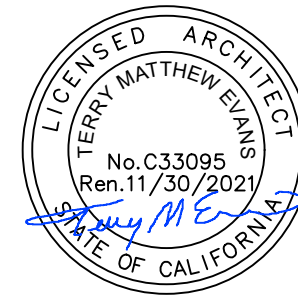
SCALE: 1/4"=1'-0"

3

DEMOLITION NOTES: (XX)

1. REMOVE EXISTING TOILET PARTITIONS INCLUDING ALL ATTACHMENT HARDWARE.
2. REMOVE EXISTING WALL INCLUDING ALL FINISHES AND ATTACHMENT HARDWARE.
3. REMOVE EXISTING TOILET FIXTURE.
4. REMOVE EXISTING URINAL.
5. REMOVE EXISTING LAVATORY.
6. REMOVE EXISTING FLOORING INCLUDING ALL ADHESIVE AND/OR SET MORTAR.
7. REMOVE ALL EXISTING INTERIOR WALL FINISHES DOWN TO EXISTING STUDS.
8. REMOVE EXISTING LIGHT FIXTURES.
9. REMOVE EXISTING EXHAUST GRILL AND FAN UNIT.
10. REMOVE EXISTING CEILING FINISH DOWN TO EXISTING CEILING JOISTS.
11. REMOVE EXISTING CONCRETE SLAB AS NEEDED TO ADJUST SEWER CONNECTION FOR NEW TOILET FIXTURE OR TO CAP EXISTING SEWER LINE.
12. CAP EXISTING PLUMBING IN WALL AFTER REMOVAL OF PLUMBING FIXTURE.
13. REMOVE EXISTING DOOR, FRAME AND HARDWARE.
14. REMOVE EXISTING WINDOW AND SECURITY BARS. KEEP EXISTING WINDOW AND SECURITY BARS FOR RELOCATION.
15. REMOVE EXISTING WINDOW AND SECURITY BARS. KEEP EXISTING SECURITY BARS FOR MODIFICATION AND RELOCATION.
16. CAP SEWER LINE BELOW SLAB.
17. REMOVE AREA OF EXTERIOR STUD WALL AND EXTERIOR SIDING FOR REWORK OF ROUGH OPENING FOR NEW DOOR AND WINDOW. PROVIDE PROPER SUPPORT OF EXISTING STRUCTURE WHILE INSTALLING NEW FRAMING AND HEADERS.
18. REMOVE ALL TOILET ACCESSORIES.

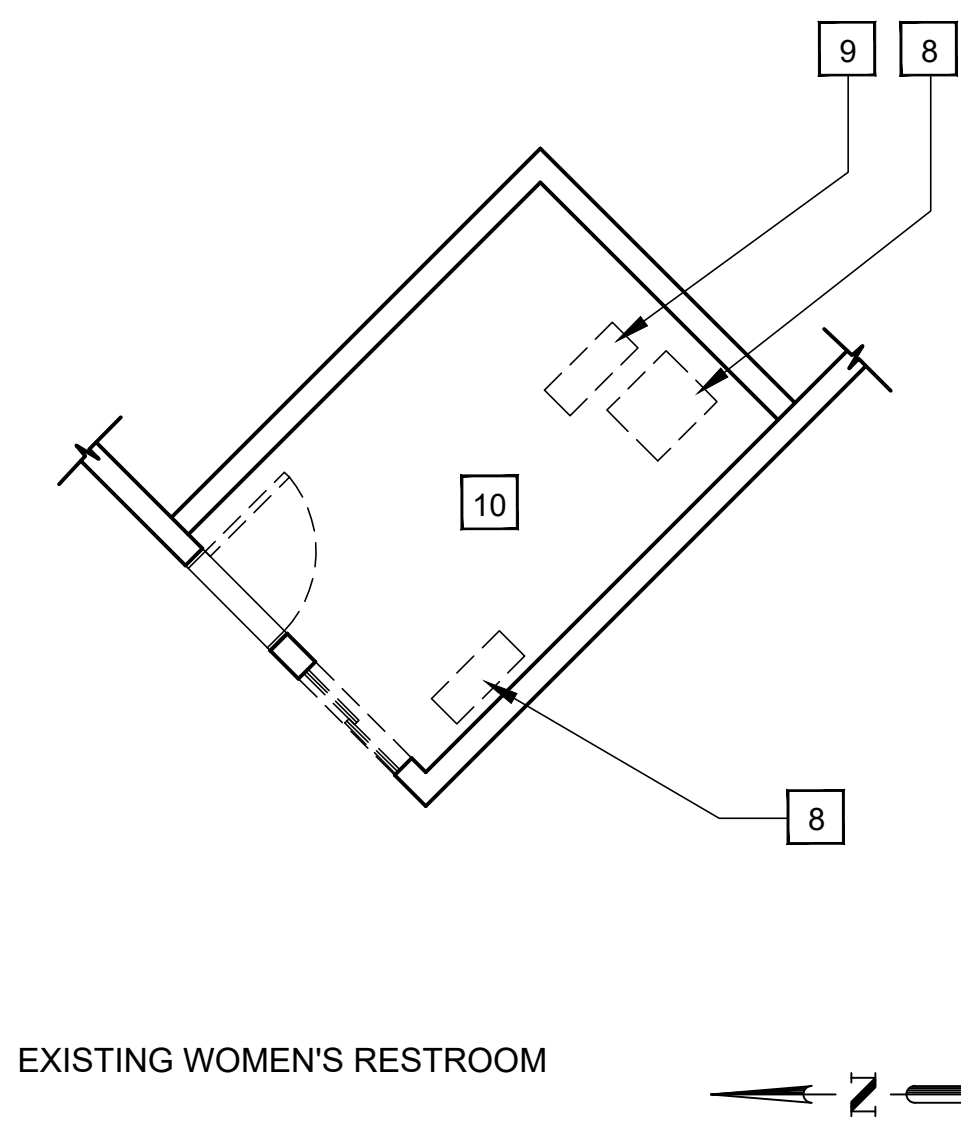
NOTE: PROTECT IN PLACE. ALL ITEMS TO REMAIN, AND REPAIR ANY DAMAGE RESULTING FROM CONSTRUCTION.



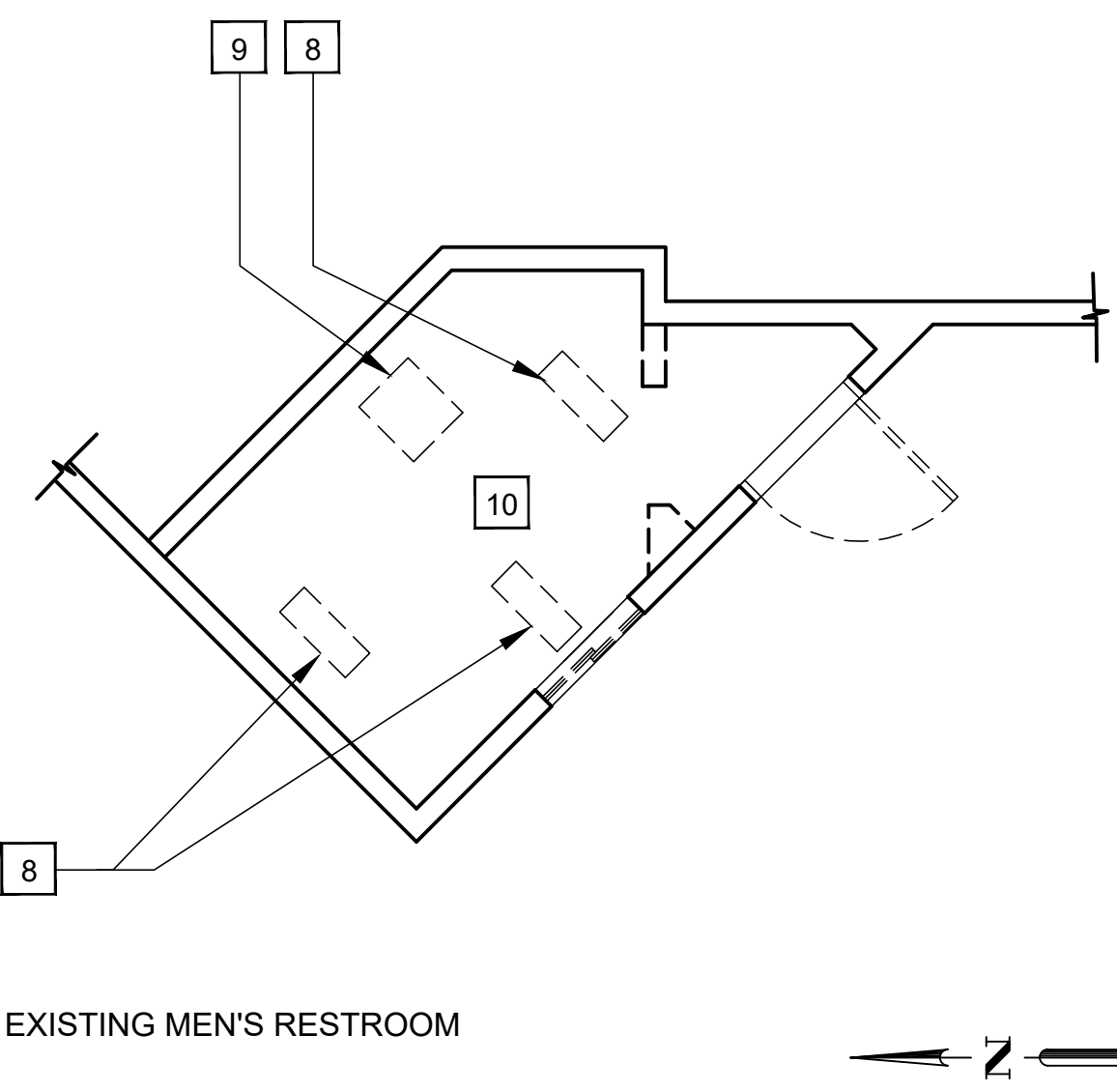
DEMOLITION FLOOR PLANS

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

1



EXISTING WOMEN'S RESTROOM

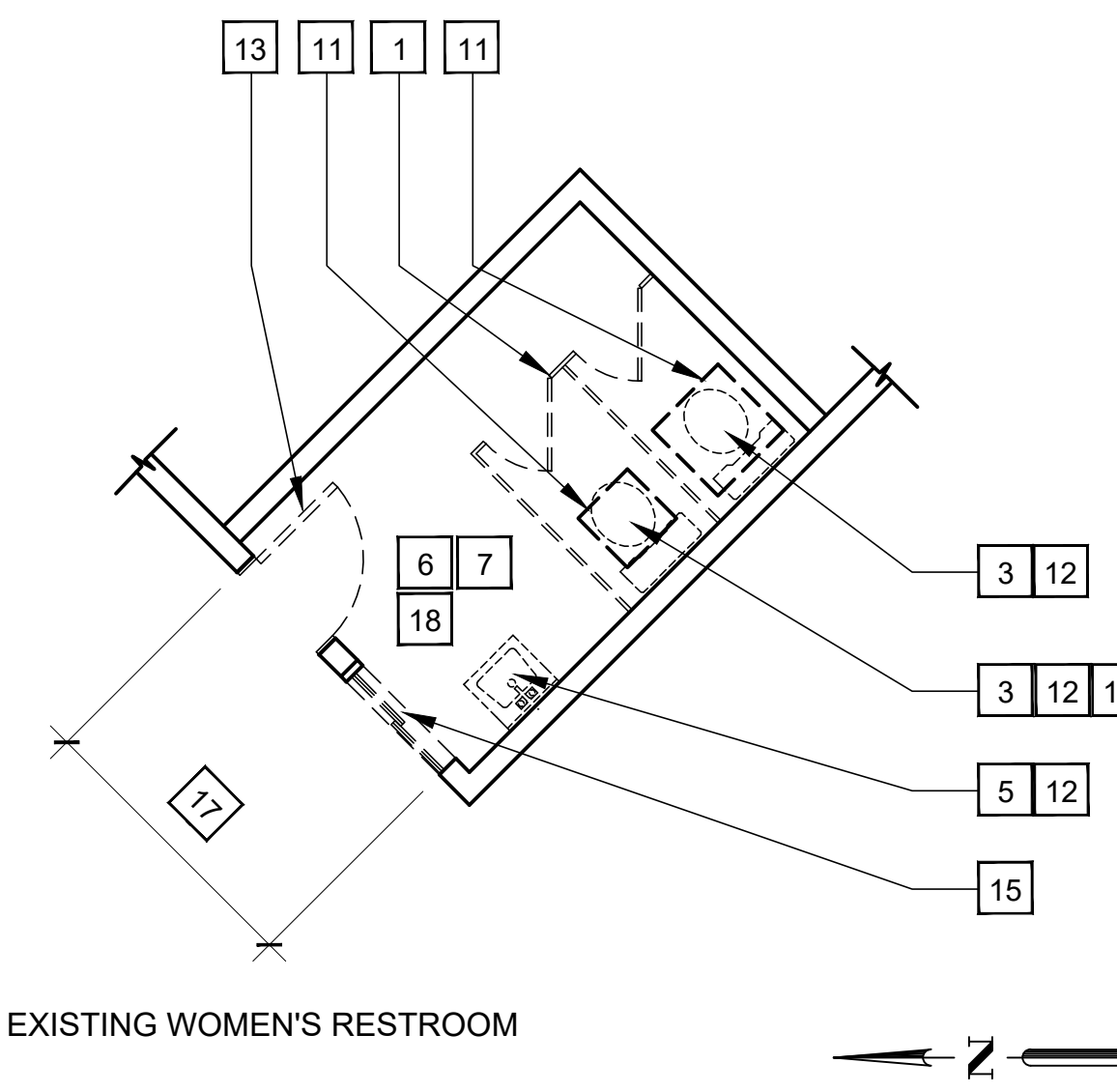


EXISTING MEN'S RESTROOM

CEILING DEMOLITION PLANS

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

2



EXISTING WOMEN'S RESTROOM

DEMOLITION FLOOR PLANS

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

1

Underground Service Alert



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REVISIONS

REV.	DATE	BY	DESCRIPTION	APP'VD

REFERENCES


DRAWN BY:  
DESIGNED BY:  
CHECKED BY:

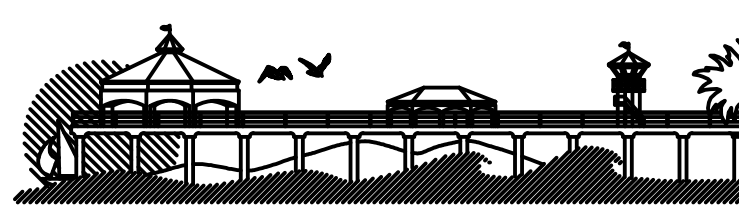
PREPARED UNDER THE SUPERVISION OF:

TERRY EVANS

R.A. NO.: C33095 EXP. DATE: 11-30-2021

APPROVED BY:

CHRIS TANIO, PRINCIPAL C.E. DATE  
R.C.E. No: C82756 Exp. Date: 09/30/22



CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS

SHEET TITLE

DEMOLITION PLANS / FLOOR PLAN

LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

SHEET NO.

A2.0

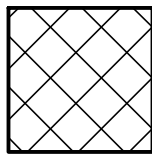
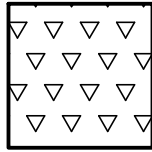
11 OF 26

PROJECT NO. C2002

100% CD's 3-01-2021



## FLOOR FINISH KEY

PORCELAIN TILE	
CONCRETE STAIN	

## FINISH SCHEDULE : FIRST FLOOR

ROOM NO.	LOCATION	ROOM NAMES	FLOORING	BASE	CEILING	MATERIAL				REMARKS
						NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	
101	UNISEX RESTROOM		TYPE 1	TYPE 1	TYPE 1	TYPE 2 & 3	TYPE 2 & 3	TYPE 2 & 3	TYPE 2 & 3	
102	UNISEX RESTROOM		TYPE 1	TYPE 1	TYPE 1	TYPE 2 & 3	TYPE 2 & 3	TYPE 2 & 3	TYPE 2 & 3	

## FLOOR TYPES:

TYPE	DESCRIPTION
TYPE 1	PORCELAIN TILE – INSTALL PER MANUFACTURER'S SPECIFICATIONS  MANUFACTURER: ARIZONA TILE TYPE: PORCELAIN STYLE: FUSION SIZE: 2 x 2 A. COLOR: CEMENTO  NOTES: 1. THE GROUT SPACING WIDTH BETWEEN TILES SHALL NOT EXCEED 1/8 INCH. 2. GROUT BETWEEN TILES, WITHOUT A GLAZED SURFACE FINISH, MUST BE SEALED TO BE IMPERVIOUS TO WATER, GREASE AND ACID.
TYPE 2	CONCRETE STAIN – INSTALL PER SPECIFICATIONS  MANUFACTURER: SCOFIELD TYPE: LITHOCHROME TINTURA COLOR: OLD HICKORY 1406 CLEAR SEALER: SELECT SEAL PLUS

## WALL TYPES:

TYPE	DESCRIPTION
TYPE 1	PAINT 1ST COAT – PRIME RECOMMENDED BY MANUFACTURER 2ND & 3RD COAT – SEMI GLOSS MANUFACTURER: DUNN EDWARDS PAINT COMPANY A. COLOR: WHISPER DEW340
TYPE 2	FIELD TILE – INSTALL PER MANUFACTURER'S SPECIFICATIONS  MANUFACTURER: ARIZONA TILE TYPE: CERAMIC STYLE: BARE SIZE: 3 x 12 A. COLOR: GRAY
TYPE 3	ACCENT TILE – INSTALL PER MANUFACTURER'S SPECIFICATIONS  MANUFACTURER: ARIZONA TILE TYPE: PORCELAIN STYLE: FUSION SIZE: 2 x 2 A. COLOR: CEMENTO  NOTES: 1. THE GROUT SPACING WIDTH BETWEEN TILES SHALL NOT EXCEED 1/8 INCH. 2. GROUT BETWEEN TILES, WITHOUT A GLAZED SURFACE FINISH, MUST BE SEALED TO BE IMPERVIOUS TO WATER, GREASE AND ACID.

## BASE TYPES:

TYPE	DESCRIPTION
TYPE 1	COVE BASE TILE  MANUFACTURER: ARIZONA TILE STYLE: BARE TYPE: CERAMIC SIZE: 6 x 6 A. COLOR: GRAY

## CEILING TYPES:

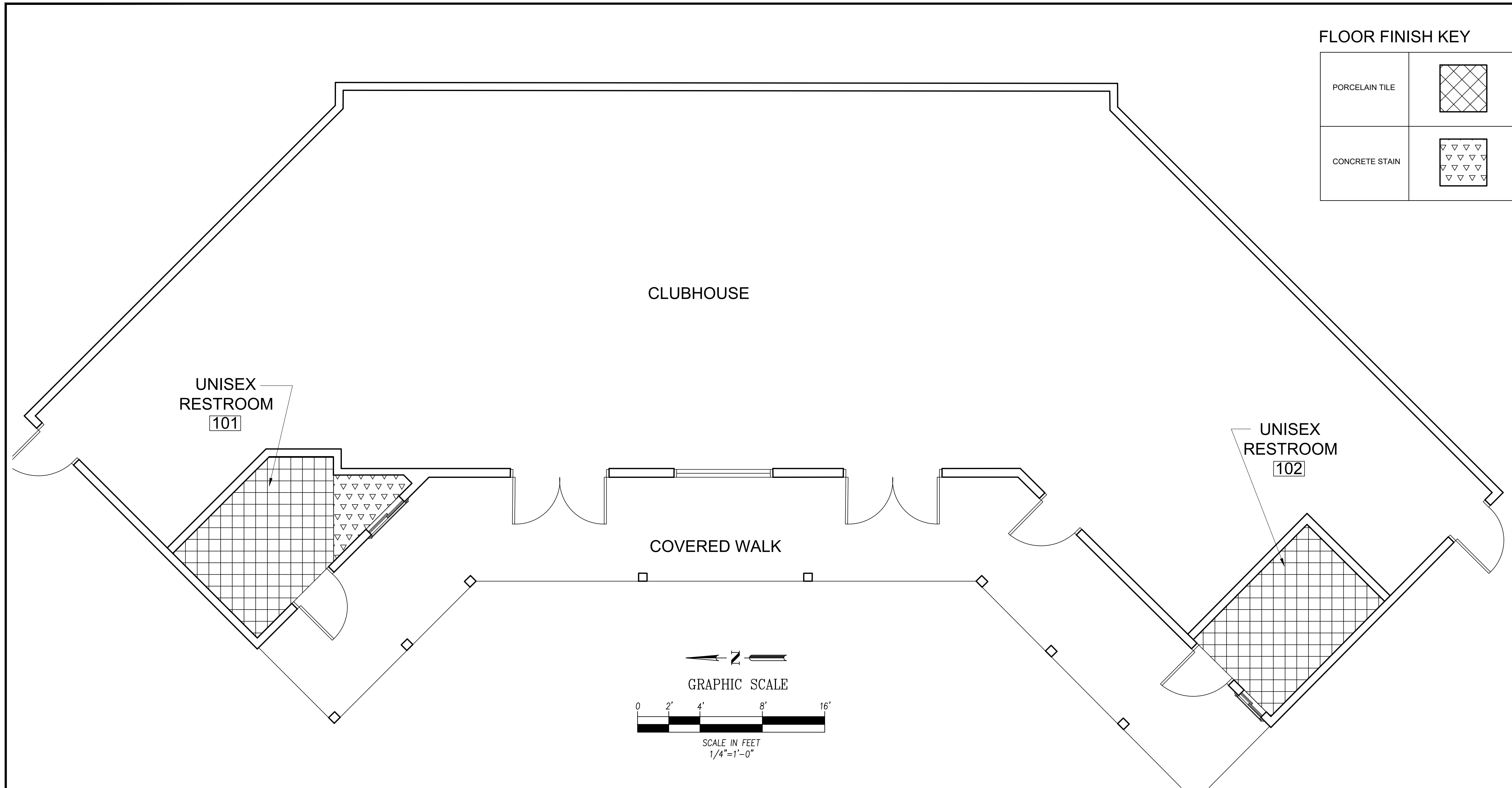
TYPE	DESCRIPTION
TYPE 1	PAINT 1ST COAT – PRIME RECOMMENDED BY MANUFACTURER 2ND & 3RD COAT – SEMI GLOSS MANUFACTURER: DUNN EDWARDS PAINT COMPANY COLOR: WHISPER DEW340

## KEYNOTES: (X)

- NEW LED LIGHT FIXTURE. SEE ELECTRICAL PLANS.
- NEW 5/8" GYP. BOARD FINISH. PAINT PER FINISH SCHEDULE.
- NEW EXHAUST GRILL. SEE HVAC PLANS.
- INSTALL NEW R-30 BATT INSULATION ABOVE CEILING.
- NEW WALL TILE FINISH OVER 5/8" CEMENT BACKER BOARD. SEE INTERIOR FINISH SCHEDULE.
- NEW 5/8" GYPSUM GREEN BOARD FINISH. PAINT PER INTERIOR FINISH SCHEDULE.
- NEW HM DOOR AND FRAME. SEE FLOOR PLAN.
- NEW 2'x3' VINYL WINDOW WITH 1" CLEAR INSULATED, TINTED, OBSCURED GLASS. JELD WEN MODEL NUMBER V-4500. SEE FLOOR PLAN.
- NEW TILE COVED BASE. SEE INTERIOR FINISH SCHEDULE.
- NEW VITREOUS CHINA WALL HUNG LAVATORY. SEE PLUMBING PLANS.
- NEW 48" GRAB BAR. SEE TOILET ACCESSORIES SCHEDULE.
- NEW TOILET SEAT COVER DISPENSER. SEE TOILET ACCESSORIES SCHEDULE.
- NEW VITREOUS CHINA ADA TOILET FIXTURE. SEE PLUMBING PLANS.
- NEW TOILET TISSUE DISPENSER. SEE TOILET ACCESSORIES SCHEDULE.
- NEW VITREOUS CHINA ADA URINAL. SEE PLUMBING PLANS.
- NEW SOP DISPENSER. SEE TOILET ACCESSORIES SCHEDULE.
- NEW PAPER TOWEL DISPENSER. SEE TOILET ACCESSORIES SCHEDULE.
- NEW 36" GRAB BAR. SEE TOILET ACCESSORIES SCHEDULE.
- RELOCATED WINDOW. SEE FLOOR PLANS.
- BABY CHANGING STATION. SEE TOILET ACCESSORIES SCHEDULE.
- NEW ACCENT WALL TILE. SEE FINISH SCHEDULE.

## TOILET ACCESSORIES SCHEDULE

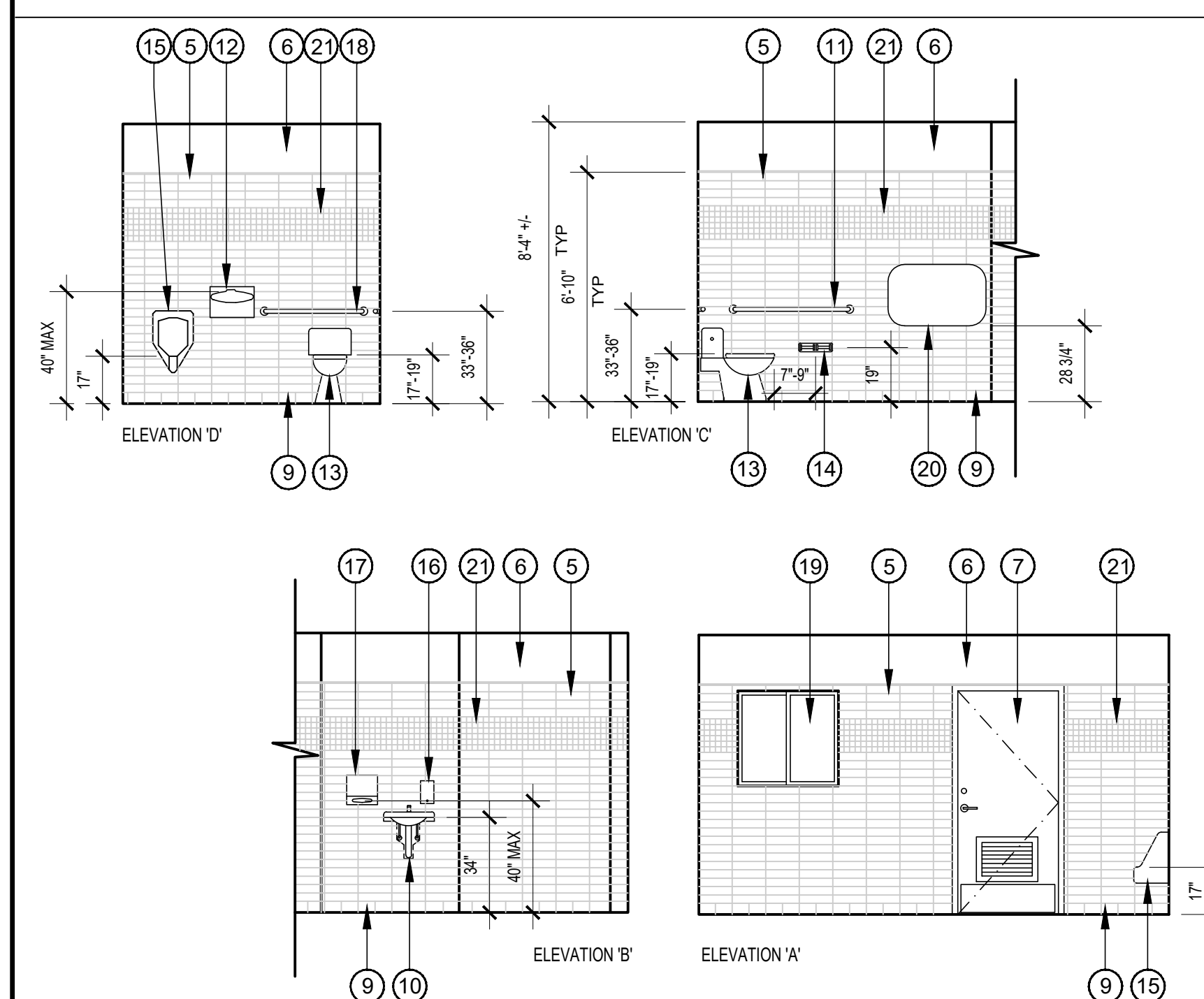
- (PROVIDE ADEQUATE STRUCTURAL BACKING FOR ALL TOILET ACCESSORIES PRIOR TO APPLYING FINISHES)
- | MODEL NUMBER | DESCRIPTION  |
|--------------|--|
| 2495         | BRADLEY SURFACE MOUNTED PAPER TOWEL DISPENSER.                                   |
| 6562         | BRADLEY SURFACE MOUNTED SOAP DISPENSER. SATIN 304 S.S.                           |
| 812          | BRADLEY 36" 1 1/2" DIA. GRAB BAR. SATIN 304 S.S.                                 |
| 812          | BRADLEY 48" 1 1/2" DIA. GRAB BAR. SATIN 304 S.S.                                 |
| 523-52       | BRADLEY SURFACE MOUNTED DOUBLE ROLL TOILET TISSUE DISPENSER. CHROME PLATED STEEL |
| 583          | BRADLEY SURFACE MOUNTED SEAT COVER DISPENSER. SATIN 304 S.S.                     |
| 2EZ          | TRUEBRO LAV GUARD PIPE COVER.  |
| KB200SS      | KOALA KARE BABY CHANGING STATION.  |



INTERIOR FINISH PLAN

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

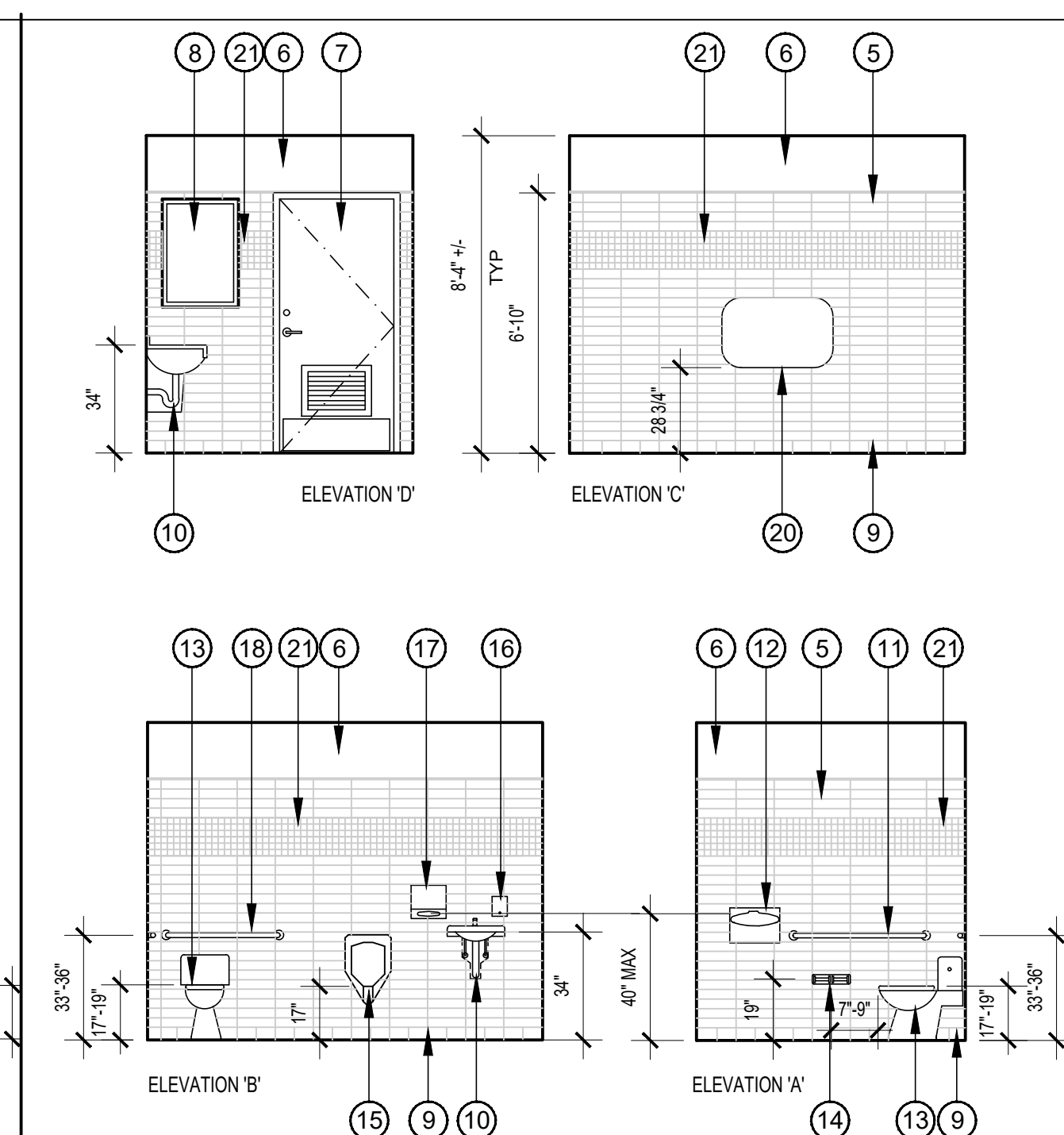
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INTERIOR ELEVATIONS UNISEX 101

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

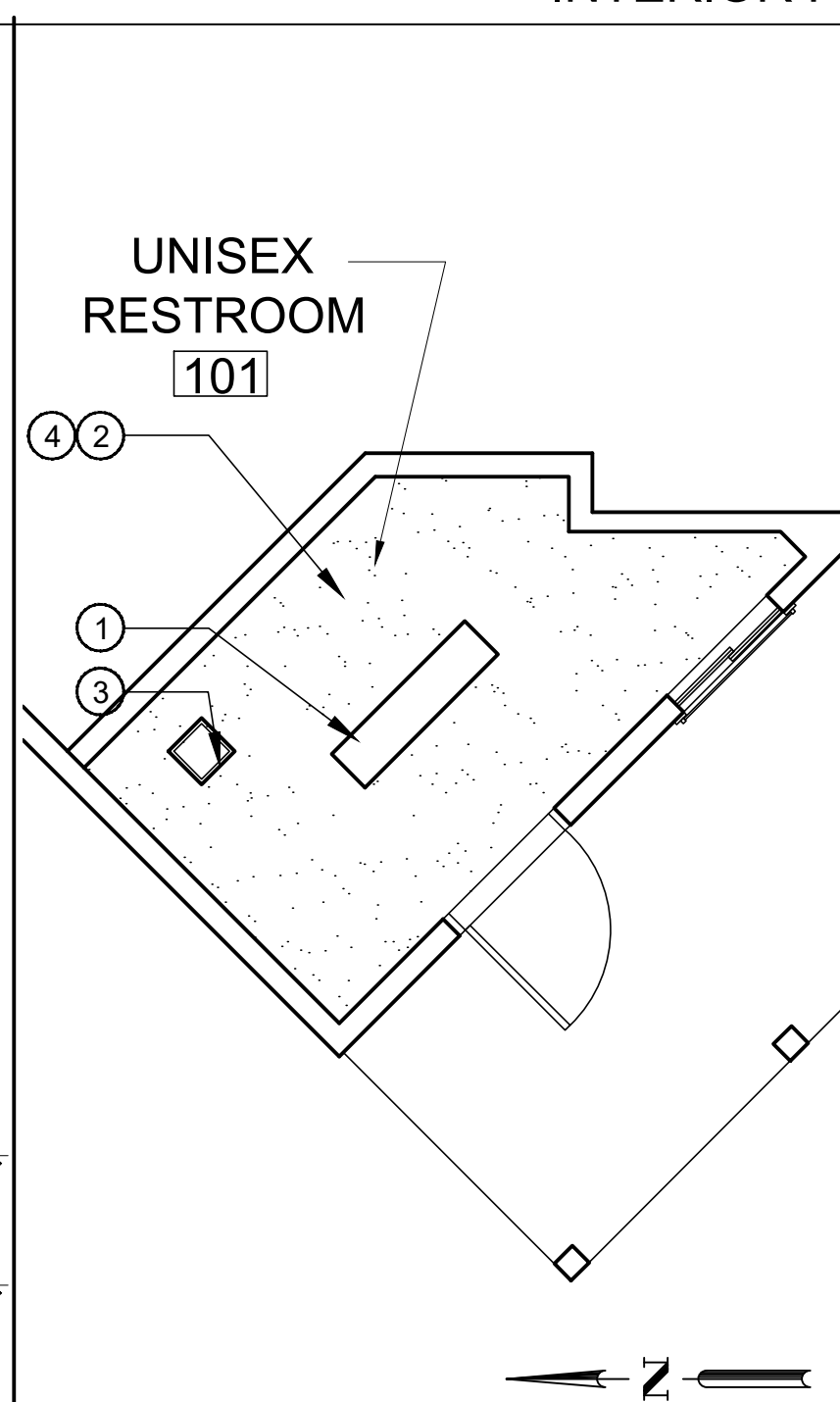
3



INTERIOR ELEVATIONS UNISEX 102

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

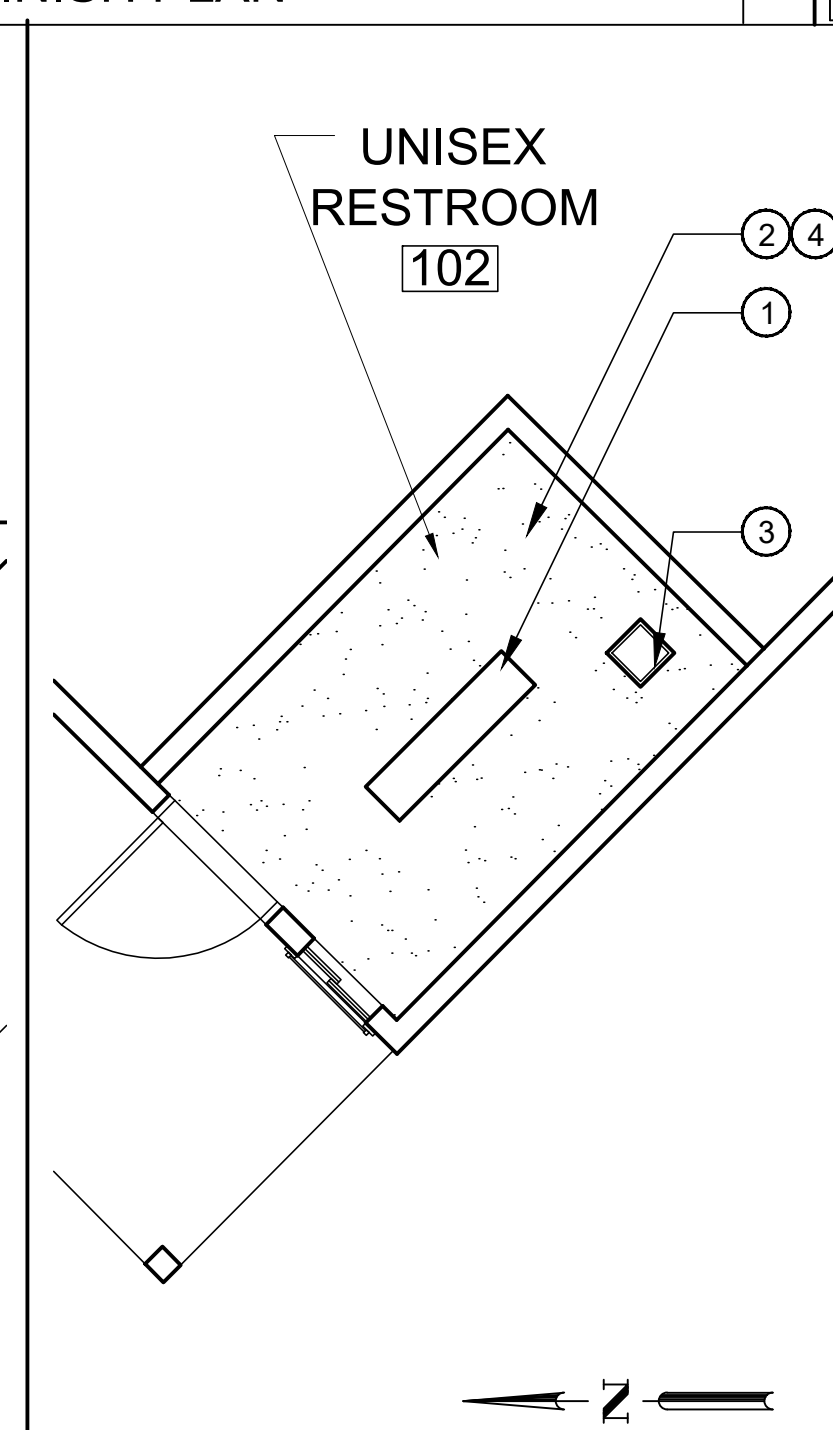
2



REFLECTED CEILING PLANS

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

1



PROJECT NO. C2002

100% CD's 3-01-2021

Underground Service Alert

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TWO WORKING DAYS BEFORE YOU DIG

## REVISIONS

REV.	DATE	BY	DESCRIPTION	APP'VD

## REFERENCES


PREPARED UNDER THE SUPERVISION OF:

TERRY EVANS

R.A. NO.: C33095

EXP. DATE: 11-30-2021

APPROVED BY:

CHRIS TANIO, PRINCIPAL C.E. DATE

R.C.E. No: C82756 Exp. Date: 09/30/22

DRAWN BY:  
DESIGNED BY:  
CHECKED BY:CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS

SHEET TITLE

INTERIOR ELEVATIONS / RCP / INTERIOR FINISH SCHEDULE

LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

SHEET NO.

A3.0

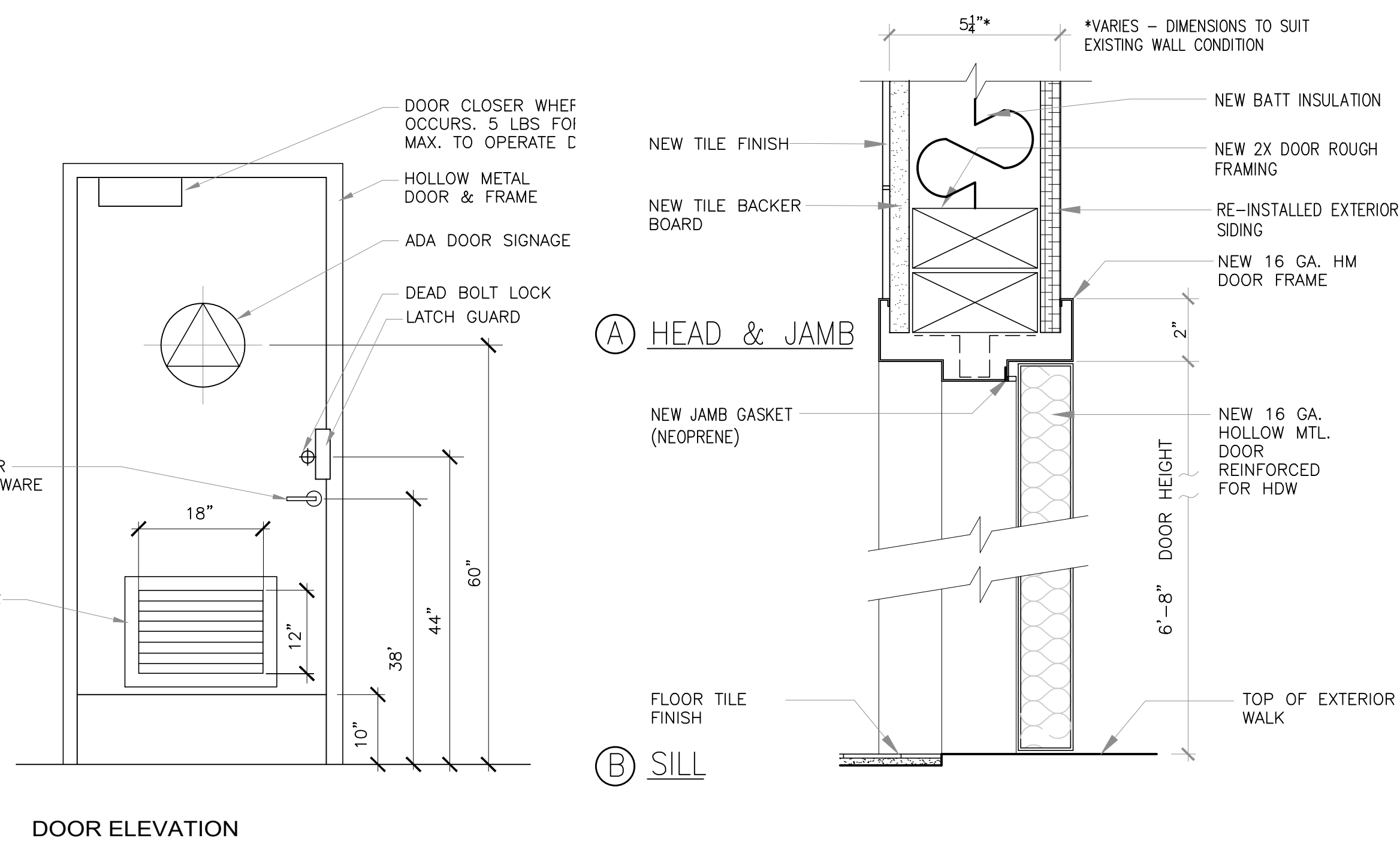
12 OF 26







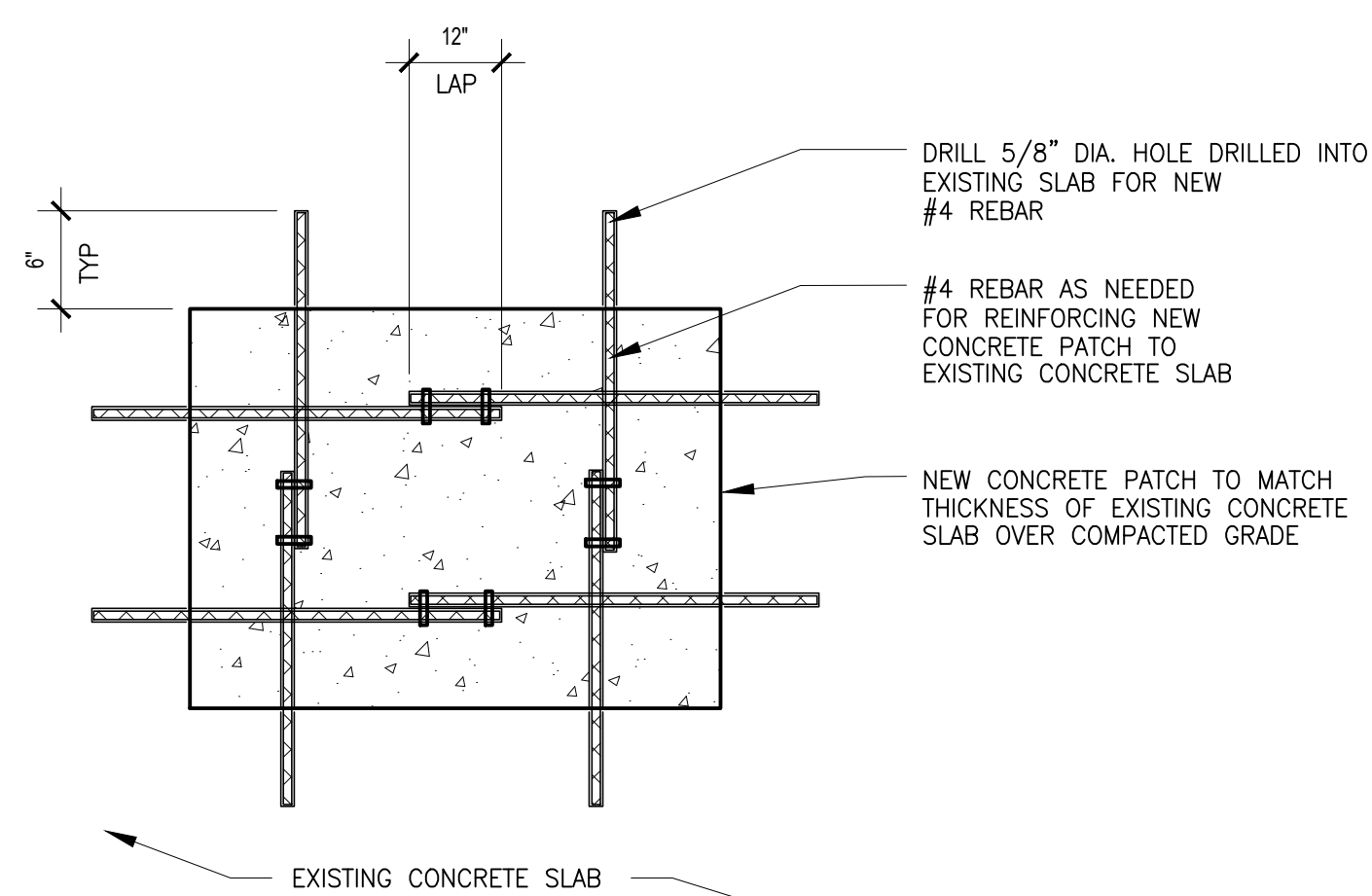




HOLLOW METAL DOOR &amp; FRAME

SCALE: N.T.S.

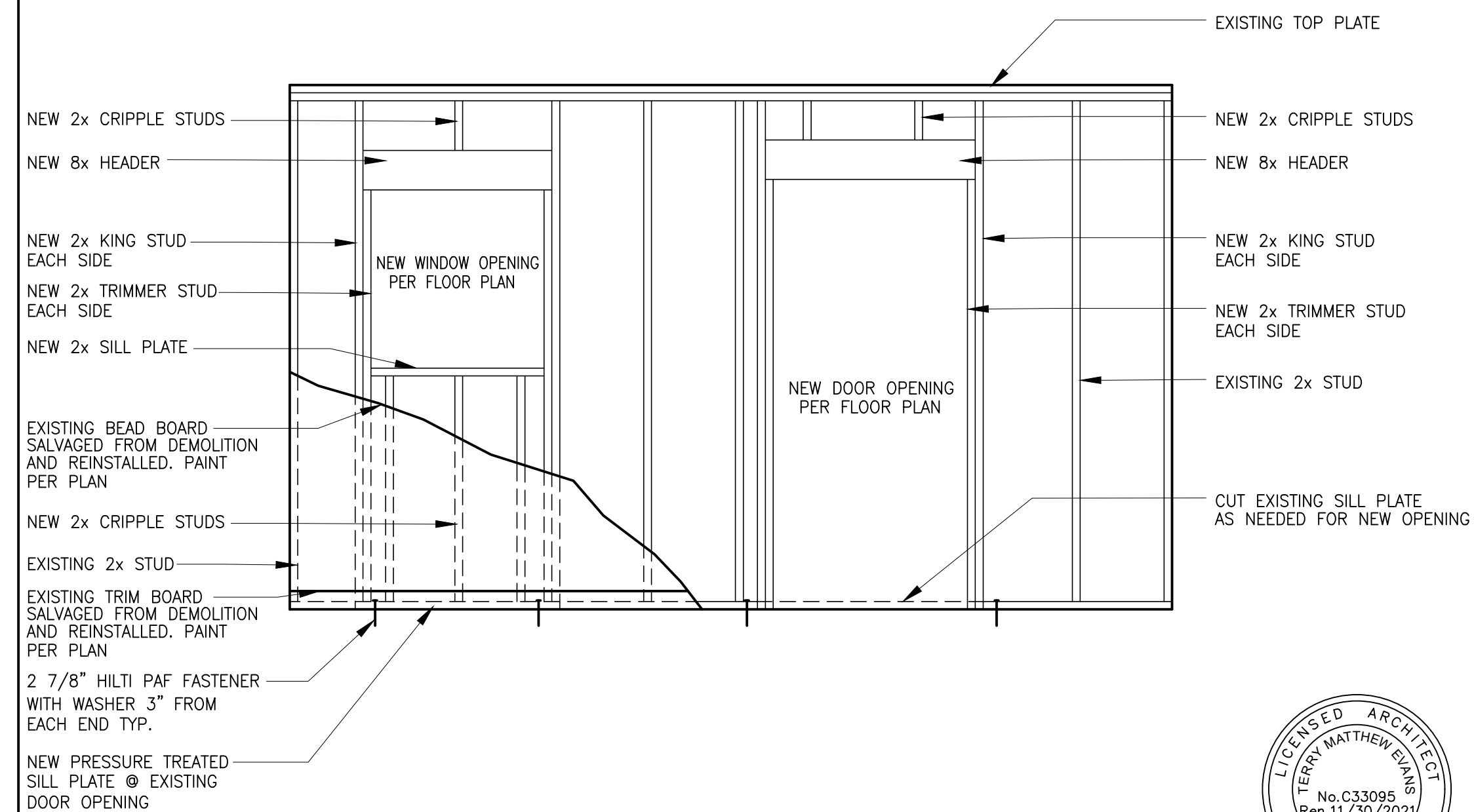
3



CONCRETE FLOOR PATCH

SCALE: 1"=1'-0"

2



TYPICAL ROUGH OPENING DETAIL

SCALE: 1/2"=1'-0"

1

PROJECT NO. C2002

100% CD'S 3-01-2021

Underground Service Alert

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APPROVED BY:

CHRIS TANIO, PRINCIPAL C.E. DATE  
R.C.E. No: C82756 Exp. Date: 09/30/22CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKSSHEET TITLE  
DETAILSLAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

SHEET NO.

A4.1

14 OF 26

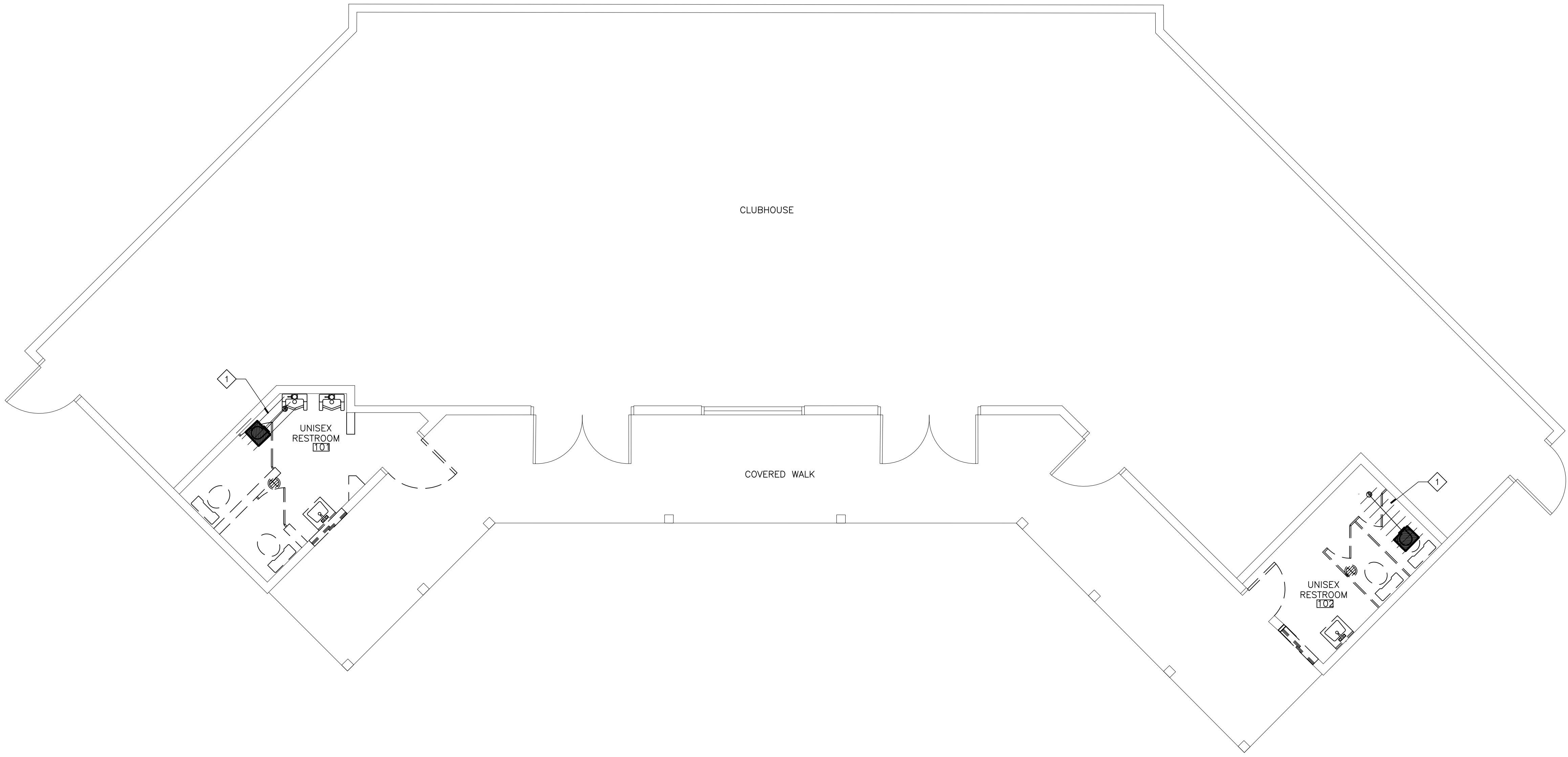






DEMOLITION NOTES

1 EXISTING EXHAUST FAN, DUCTWORK, SUPPORTS AND ALL RELATED APPURTENANCES TO BE REMOVED. REMOVE DUCT THRU ROOF AND MAKE ROOM FOR INSTALL OF NEW EXHAUST FAN AND DUCT THRU ROOF



MECHANICAL DEMOLITION FLOOR PLAN SCALE: 1/4" = 1'-0" 1



412 E. Vanderbilt Way  
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Fax: 909.890.3770  
Email: cadd@designwesteng.com

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REV.	DATE	BY	DESCRIPTION	APP'D
1	3-23-21	JS/VF	REVISIONS	

REFERENCES		


PREPARED UNDER THE SUPERVISION OF:		
TERRY EVANS		
R.A. NO.: C33095	EXP. DATE: 11-30-2021	
APPROVED BY:		
CHRIS TANIO, PRINCIPAL C.E. DATE: 09/30/22		
R.C.E. No: C82756	Exp. Date: 09/30/22	



SHEET TITLE	
MECHANICAL DEMOLITION FLOOR PLAN	
LAKE PARK IMPROVEMENTS 1035 11th Street Huntington Beach, Ca 92648	

SHEET NO.
MI.1
16 OF 26

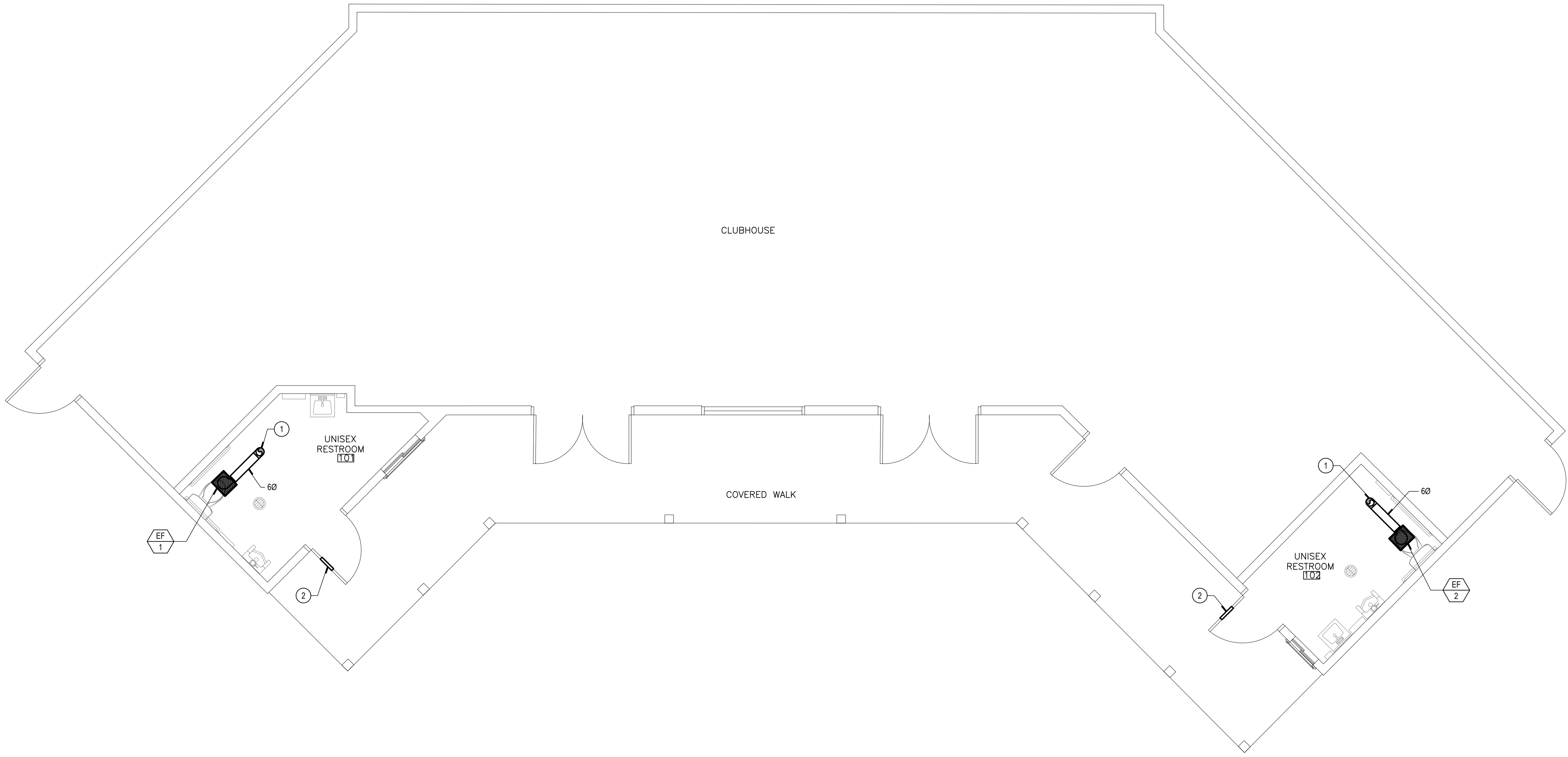


GENERAL NOTES

1. ALL DUCTWORK SHALL BE HARD DUCT. FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5' IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIDGED ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE (SEC 603.4.1 CMC)
2. ALL VENTING SHALL HAVE A MIN. OF 10' CLEARANCE FROM ANY FORCED AIR INLET W/ A MIN. OF 3' CLEARANCE ABOVE & A MIN OF 4' CLEARANCE FROM ANY PROPERTY LINE EXCEPT A PUBLIC WAY. 502 CMC)
3. CONTRACTOR SHALL PATCH ALL ROOF PENETRATIONS AS NEED TO MAINTAIN EXISTING ROOFING WARRANTY.

CONSTRUCTION NOTES

1. ROUTE 6"Ø EXHAUST DUCT UP THRU ROOF TO APPROVED ROOF CAP WITH WEATHER HOOD AND 1/4" MESH SCREEN
2. PROVIDE 12"x12" LOUVER IN DOOR WITH 1/4" MESH SCREEN ON THE INSIDE OF THE LOUVER. MOUNT BOTTOM OF LOUVER 18" ABOVE FINISHED FLOOR



MECHANICAL REMODEL FLOOR PLAN

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

1



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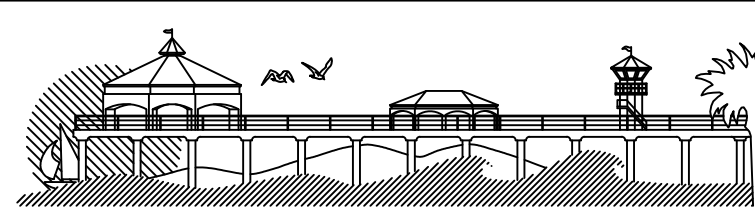
PREPARED UNDER THE SUPERVISION OF:

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R.A. NO.: C33095 EXP. DATE: 11-30-2021

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CHRIS TANIO, PRINCIPAL C.E. DATE  
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DEPARTMENT OF PUBLIC WORKS

SHEET TITLE

MECHANICAL REMODEL FLOOR PLAN

LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

SHEET NO.

MI.2

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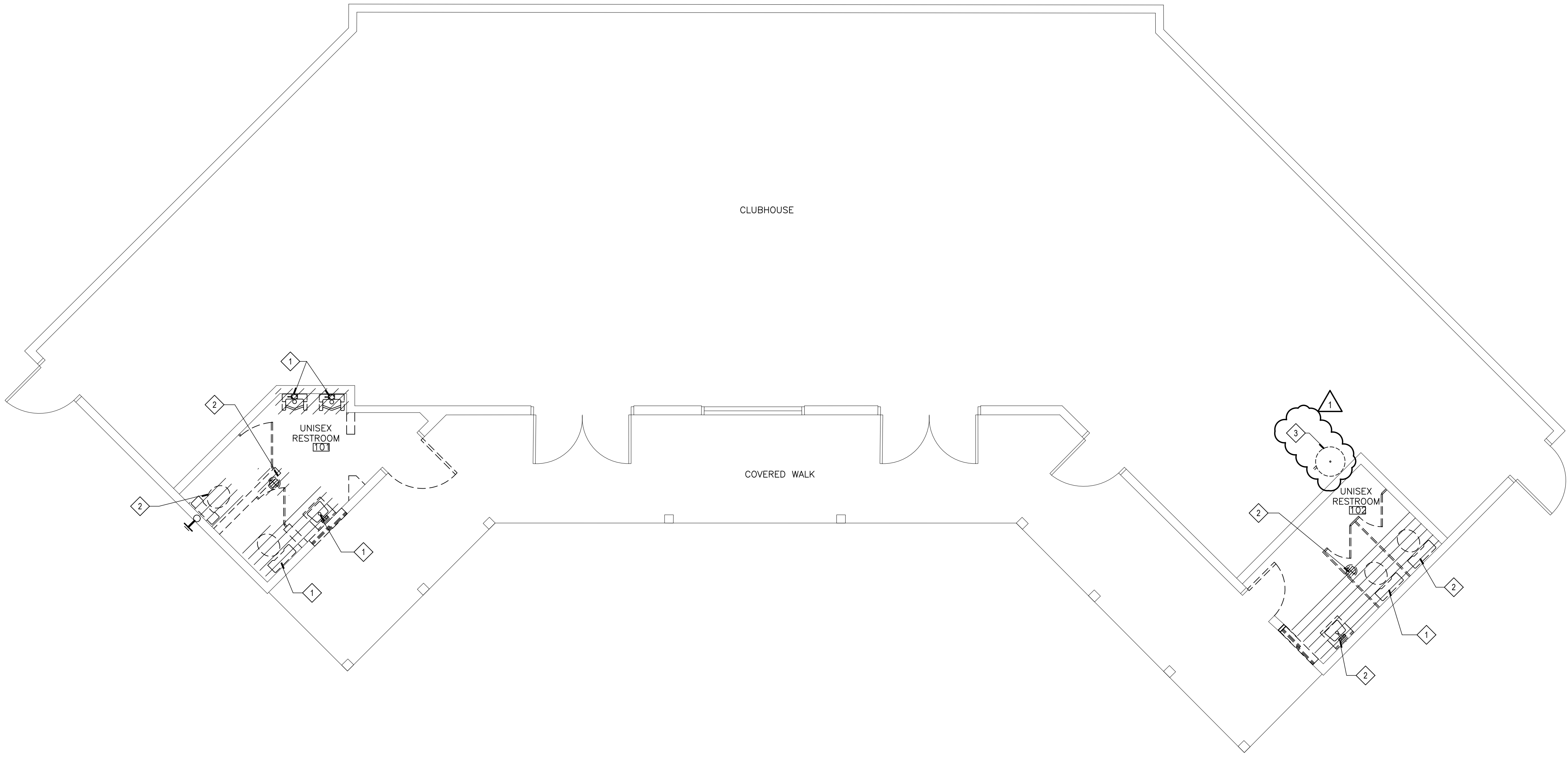


R:\PROJECT\20\20-126 LAKE PARK PLAZA CLUBHOUSE ADA IMPROVEMENTS\20-126 P FRONT - 2021-03-24 - VERONICA FLORES



DEMOLITION NOTES

- 1 EXISTING FIXTURE TO BE REMOVED. REMOVE ALL RELATED PIPING BACK AND CAP IN CEILING AND BELOW SLAB
- 2 EXISTING FIXTURE TO BE REMOVED AND REPLACED WITH NEW FIXTURE. EXISTING PIPING TO REMAIN & REWORKED FOR CONNECTION TO NEW FIXTURE
- 3 EXISTING WATER HEATER TO REMAIN



PLUMBING DEMOLITION FLOOR PLAN

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

1



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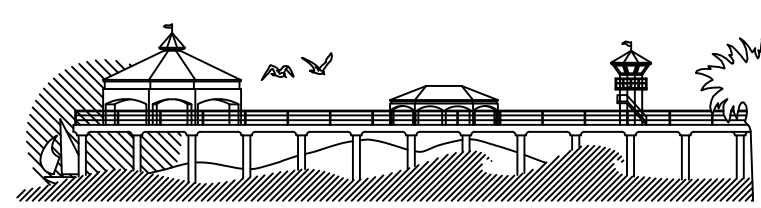
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TERRY EVANS

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APPROVED BY:

CHRIS TANIO, PRINCIPAL C.E. DATE:  
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**CITY OF HUNTINGTON BEACH**  
DEPARTMENT OF PUBLIC WORKS

PLUMBING DEMOLITION FLOOR PLAN

LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

SHEET NO.

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19 OF 26



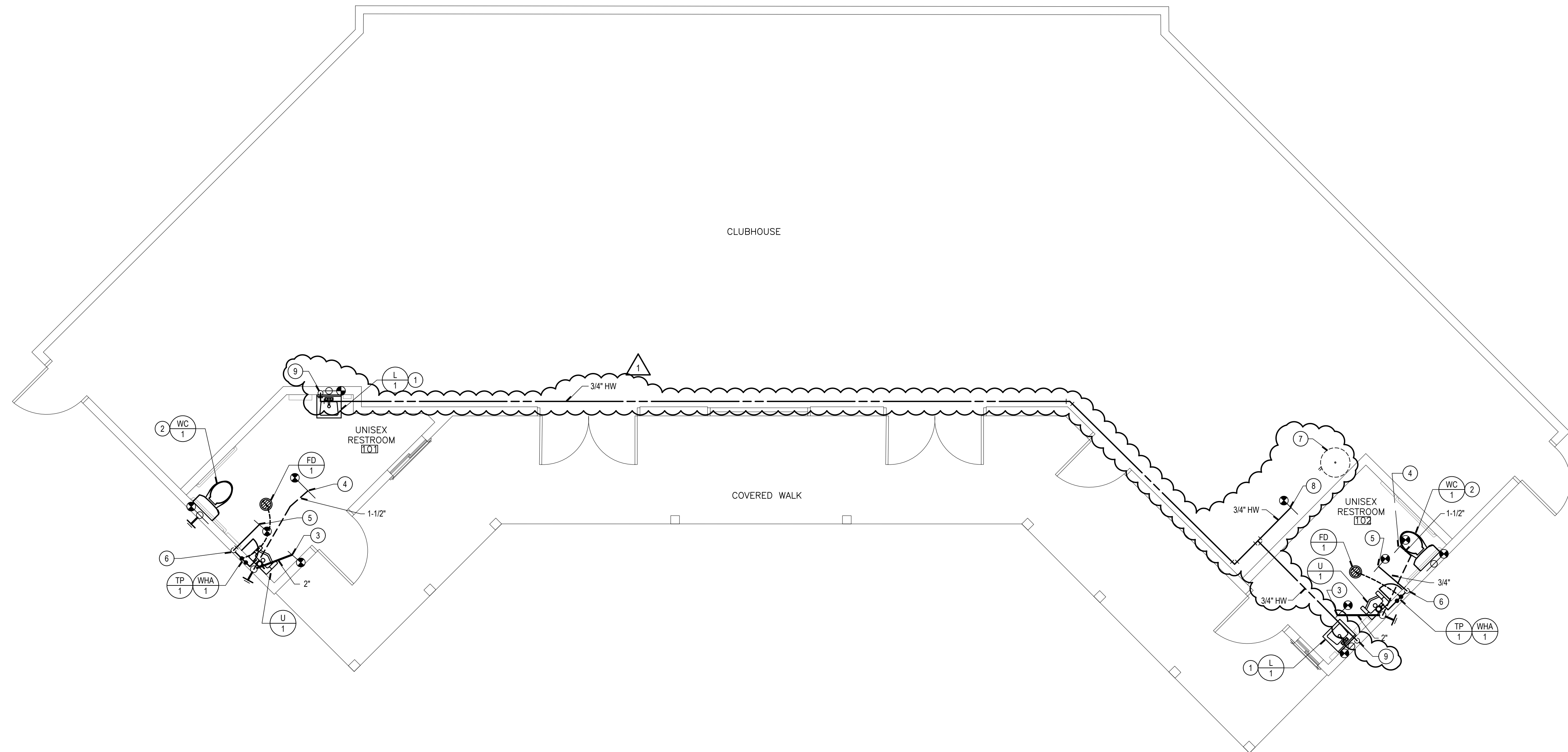
## GENERAL NOTES

1. ALL VENTING SHALL HAVE A MIN. OF 10' CLEARANCE FROM ANY FORCED AIR INLET W/ A MIN. OF 3' CLEARANCE ABOVE & A MIN OF 4' CLEARANCE FROM ANY PROPERTY LINE EXCEPT A PUBLIC WAY. PER SEC. 906
2. CONTRACTOR SHALL TRACE EXISTING WASTE LINES PRIOR TO CONSTRUCTION TO VERIFY EXACT LOCATION AND DEPTH OF EXISTING WASTE LINES TO VERIFY THAT CONNECTION TO WASTE LINES CAN BE MADE. CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR AND ARCHITECT IMMEDIATELY IF THERE ARE ANY PROBLEM WITH EXISTING SEWER LINE, AS IT RELATES TO ITS CONDITION OR INVERT ELEVATIONS
3. ALL WASTE LINES INSIDE THE BUILDING SHALL BE SLOPED AT 2% SLOPE.
4. CONTRACTOR SHALL PATCH ALL ROOF PENETRATIONS AS NEED TO MAINTAIN EXISTING ROOFING WARRANTY.
5. NO HOT WATER IS TO BE PROVIDED TO THE LAVATORIES

## CONSTRUCTION NOTES

1. CONNECT NEW 2" WASTE LINE INTO EXISTING WASTE LINE. REWORK EXISTING PIPING AS NEEDED FOR NEW CONNECTION AND PROVIDE ADDITIONAL PIPING AS REQUIRED. CONNECT NEW 1-1/2" VENT LINE INTO EXISTING VENT. PROVIDE NEW 1/2" CW LINE INTO EXISTING CW LINE. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING LINE
2. CONNECT NEW 4" WASTE LINE INTO EXISTING WASTE LINE. CUT SLAB AND REWORK EXISTING PIPING AS NEEDED FOR NEW CONNECTION AND PROVIDE ADDITIONAL PIPING AS REQUIRED. CONNECT NEW 2" VENT LINE INTO EXISTING VENT. PROVIDE NEW 3/4" CW LINE INTO EXISTING CW LINE. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING LINE
3. CONNECT NEW 2" WASTE LINE INTO EXISTING WASTE LINE. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING LINE
4. CONNECT NEW 1-1/2" VENT LINE INTO EXISTING VENT LINE. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING LINE
5. CONNECT NEW 3/4" CW LINE INTO EXISTING CW LINE. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING LINE
6. ROUTE 3/4" CW DN IN WALL AND ROUTE TO FIXTURE
7. EXISTING WATER HEATER
8. CONNECT NEW 3/4" HW LINE INTO EXISTING HW LINE. FIELD VERIFY FOR EXACT SIZE AND LOCATION OF EXISTING LINE
9. 3/4" HW DN IN WALL TO FIXTURE

1



## PLUMBING REMODEL FLOOR PLAN

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

1



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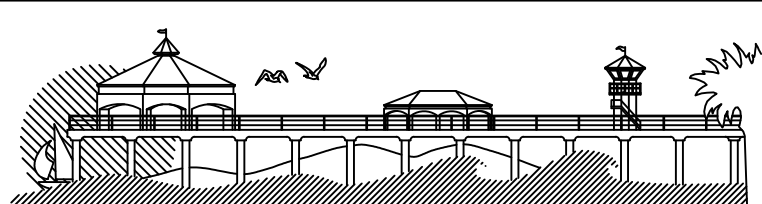
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DEPARTMENT OF PUBLIC WORKS

SHEET TITLE

PLUMBING REMODEL FLOOR PLAN

LAKE PARK IMPROVEMENTS  
1035 11th Street  
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SHEET NO.

PI.2

20 OF 26

26/178



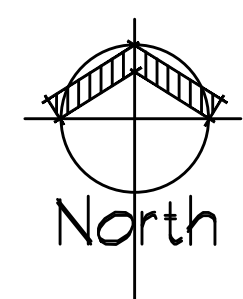
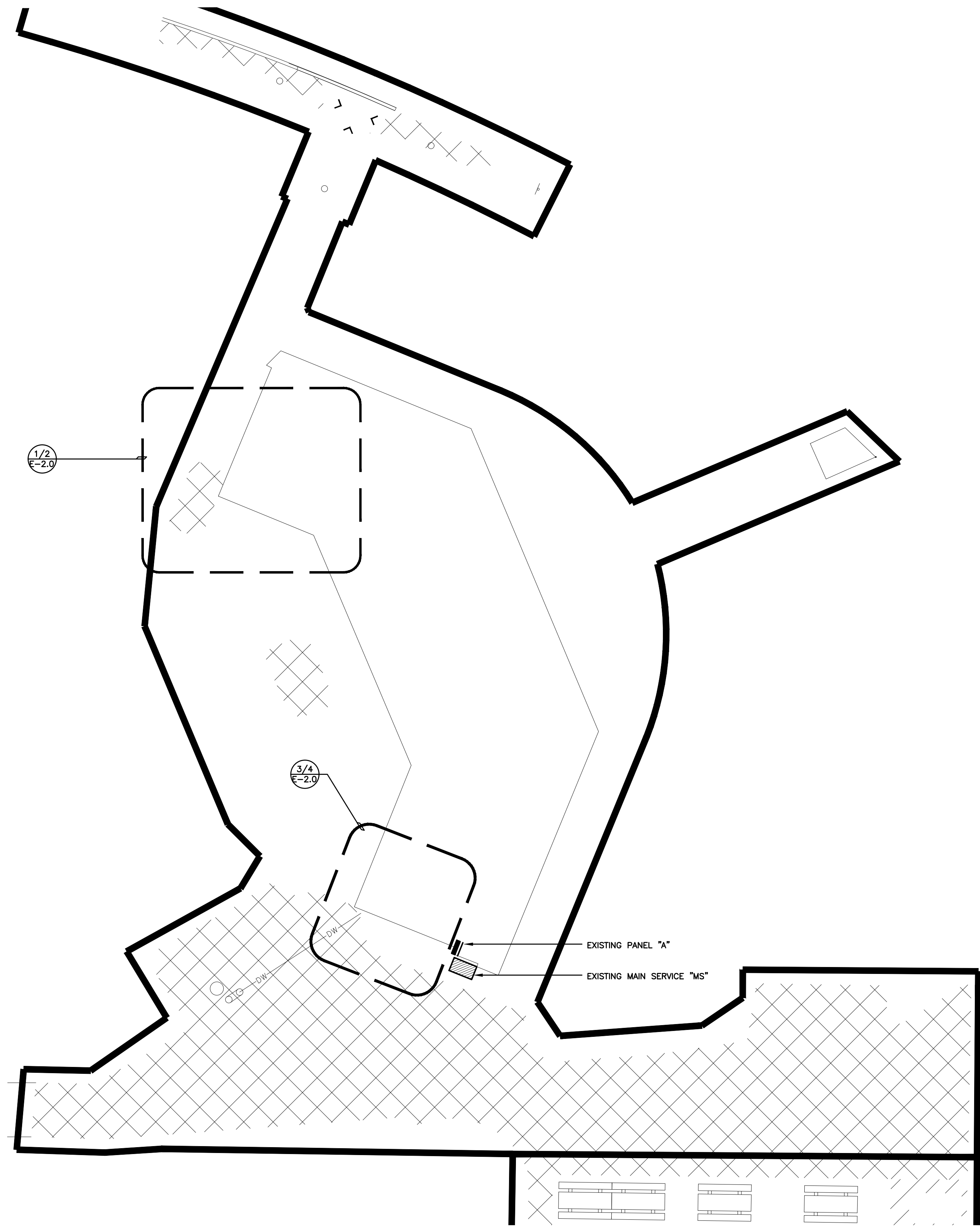
RL PROJECT/2020/01-126 LAKE PARK PLAZA CLUBHOUSE ADA IMPROVEMENTS/01-126 P FRONT - 2021-03-24 - VERONICA FLORES

				<div><div><div><div><div><div></div><div>WATER HAMMER ARRESTOR</div></div><div><div></div><div>BALL VALVE</div></div><div><div></div><div>STAINLESS STEEL ACCESS PANEL</div></div></div></div><div><div>PIPE SIZING AND SELECTION TABLE</div><table><tr><th>PIPE SIZE</th><th>FIXTURE UNITS</th><th>CROSS REF. PDI</th></tr><tr><td>1/2"</td><td>1-11</td><td>A</td></tr><tr><td>3/4"</td><td>12-32</td><td>B</td></tr><tr><td>1"</td><td>33-60</td><td>C</td></tr><tr><td>1 1/4"</td><td>61-113</td><td>D</td></tr><tr><td>1 1/2"</td><td>114-154</td><td>E</td></tr><tr><td>2"</td><td>155-330</td><td>F</td></tr></table></div><div><div>NOTE: ACCESS PANEL SHALL NOT BE INSTALLED BEHIND GRAB BARS.</div></div></div></div> <div><div>REFER TO PLANS FOR SIZE &amp; LOCATION</div></div>		PIPE SIZE	FIXTURE UNITS	CROSS REF. PDI	1/2"	1-11	A	3/4"	12-32	B	1"	33-60	C	1 1/4"	61-113	D	1 1/2"	114-154	E	2"	155-330	F	3	<div><div><div><div><div><div></div><div>FOR CONNECTION TO STRUCTURE - REFER TO 2006 SMACNA GUIDELINES</div></div><div><div></div><div>STIFFENER SHALL BE SPOT WELDED</div></div><div><div></div><div>TRANSVERSE ANGLE BRACE, ALTERNATE SIDES EVERY BRACE.</div></div></div></div><div><div>THREAD HANGER ROD, FOR SIZE AND SPACING SEE 2.</div></div><div><div></div><div>ADD VERTICAL ANGLE STIFFENER IF LENGTH IS GREATER THAN MAX. LENGTH SHOWN ON PIPE SUPPORT SCHEDULE</div></div><div><div></div><div>NUT &amp; WASHER TOP &amp; BOTTOM</div></div><div><div></div><div>"B-LINE" - B3690 ADJUSTABLE "J" HANGER.</div></div><div><div></div><div>PIPING, SEE PLANS FOR SIZE AND LOCATION.</div></div><div><div></div><div>INSULATION WHERE APPLIES - SEE SPECIFICATIONS</div></div><div><div></div><div>"B-LINE" B3162 PIPE SADDLE</div></div></div><div><div>1. REFER TO PIPE SUPPORT SCHEDULE FOR ADDITIONAL INFORMATION.</div></div></div>		1																																																													
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				<div><div><div><div><div><div></div><div>1/2" CW (TYP)</div></div><div><div></div><div>BALL VALVE</div></div><div><div></div><div>TP 1</div></div><div><div></div><div>DISTRIBUTION UNIT WHERE REQUIRED</div></div></div></div><div><div>REFER TO PLANS FOR SIZE AND LOCATION</div></div><div><div>1/2" CW SUPPLY</div><div><div></div><div>FS 1</div></div><div><div></div><div>OR</div></div><div><div></div><div>FD 1</div></div><div><div></div><div>TRAP PRIMER TP 1</div></div><div><div></div><div>ACCESS PANEL</div></div><div><div></div><div>1/2" CW</div></div><div><div></div><div>3"</div></div><div><div></div><div>TO FLOOR SINK OR FLOOR DRAIN TRAP</div></div></div></div></div> <div><div>FLOOR DRAIN TRAP PRIMER DISTRIBUTION CHART</div><table><tr><th>NO. OF DRAINS</th><th>DISTRIBUTION UNIT MODEL</th><th>MAX. WATER DEL. ON 15 SEC. PRESS. DROP.</th><th>USE STAND PIPE STYLE</th><th>DISTRIBUTION UNIT IS</th></tr><tr><td>1</td><td>N/A</td><td>2 OZ.</td><td>STRAIGHT</td><td>NOT REQUIRED</td></tr></table></div> <div><div>NOTE: ACCESS PANEL SHALL NOT BE INSTALLED BEHIND GRAB BARS.</div></div>		NO. OF DRAINS	DISTRIBUTION UNIT MODEL	MAX. WATER DEL. ON 15 SEC. PRESS. DROP.	USE STAND PIPE STYLE	DISTRIBUTION UNIT IS	1	N/A	2 OZ.	STRAIGHT	NOT REQUIRED	5	<div><div><div><div><div><div></div><div>PROFESSIONAL ENGINEER</div><div>DESIGNER</div><div>STATE OF CALIFORNIA</div></div><div><div>412 E. Vanderbilt Way San Bernardino, CA 92408 Phone: 909.890.3700 Fax: 909.890.3770 Email: cadd@designwesteng.com</div></div></div></div><div><div>DESIGN WEST ENGINEERING</div><div>MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS</div></div></div></div>		PROJECT NO. C2002	100% CD'S	3-01-2021	C.C. No. 1629																																																																					
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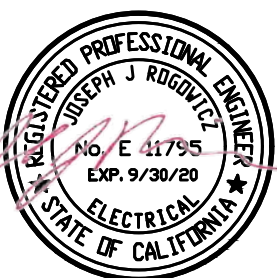
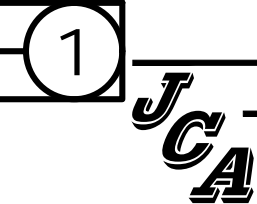
GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS, SERVICE REQUIREMENTS AND EXACT LOCATIONS OF SERVICE FACILITIES BEFORE SUBMITTING BID. SUBMITTAL OF BID INDICATES CONTRACTOR ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
2. CONSTRUCTION TERMINOLOGY, AND THE STANDARDS OF INSTALLATION REQUIRED BY THESE CONTRACTOR DOCUMENTS ARE BASED ON PUBLISHED STANDARDS OF N.E.C.A. (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION), NATIONAL ELECTRICAL SAFETY CODE, AMERICAN NATIONAL STANDARDS INSTITUTE DOCUMENTS, NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION, UNDERWRITERS LABORATORIES, AND THE CALIFORNIA ELECTRICAL CODE. SUBMITTAL OF BID INDICATES THE CONTRACTOR IS FAMILIAR OF THESE STANDARDS AND THE REQUIREMENTS NECESSARY TO PERFORM ALL THE WORK AS SET FORTH IN THESE CONTRACT DOCUMENTS AND ACCEPTS THE CONDITIONS.
3. SHOP DRAWINGS SHALL BE SUBMITTED WITHIN THIRTY DAYS AFTER AWARD OF THE CONTRACT. THE CONTRACTOR SHALL SUBMIT EIGHT COPIES OF A COMPLETE LIST OF MATERIALS AND EQUIPMENT INCLUDING MANUFACTURER AND MODEL NUMBER PROPOSED FOR THE JOB. SHOP DRAWINGS SHALL INCLUDE JOB DESCRIPTION, ARCHITECT AND ENGINEER IDENTIFICATION, AND ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS, MANUFACTURER'S BROCHURES, AND SUPPORT DATA.
4. SUBMIT SHOP DRAWINGS FOR ALL MAJOR PIECES OF ELECTRICAL EQUIPMENT, WHICH INCLUDES, BUT NOT LIMITED TO: LIGHTING FIXTURES, , AND ELECTRICAL PRODUCTS
5. THESE PLANS ARE DIAGRAMMATIC ONLY. FOLLOW AS CLOSELY AS POSSIBLE. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS, STRUCTURAL DETAILS, EXACT EQUIPMENT AND OUTLET LOCATIONS.
6. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER TRADES.
7. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL DEVICES OR EQUIPMENT,
8. CONTRACTOR SHALL PROVIDE ALL J-BOXES, PULL BOXES, ELLS, OFFSETS ETC., FOR A COMPLETE, CODE APPROVED, INSTALLATION OF ALL CONDUIT. FOOTAGE SHOWN ON ELECTRICAL SINGLE LINES AND RISER DIAGRAMS ARE FOR CALCULATION PURPOSES ONLY, AND ARE NOT FOR BIDDING PURPOSES OR MATERIAL TAKEOFF. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND TO COORDINATE WITH MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR DUCTS, LINES, AND EQUIPMENT.
9. ALL MATERIALS SHALL BE NEW, AND OF THE SAME MANUFACTURER FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY THE UNDERWRITER'S LABORATORIES FOR THE USE AND ENVIRONMENT, AND SHALL BEAR THE INSPECTION LABEL WHERE SUBJECT TO APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY, AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY A.N.S.I., U.L., N.E.M.A., AND N.B.F.U. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
10. CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES, O.S.H.A., THE PRESENTLY ADOPTED NATIONAL ELECTRICAL CODE, AND PRESENTLY ADOPTED CALIFORNIA ELECTRICAL CODE (C.E.C.)
11. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTIONS TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGH-IN IN ALL CONDUIT TO THIS EQUIPMENT.
12. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENING IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAW CUTTING, PATCHING, AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR, OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE U.L. APPROVED.
13. ALL CONDUIT SHALL BE INSTALLED CONCEALED WHERE PHYSICALLY POSSIBLE.
14. CONCEALED CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (E.M.T.) WITH COMPRESSION TYPE COUPLERS. SECURED WITH ONE-HOLE PIPE STRAPS
15. CONDUIT SHOWN AS EXPOSED OR APPROVED FOR EXTERIOR EXPOSED INSTALLATION SHALL BE INTERMEDIATE METALLIC CONDUIT (I.M.C.) SECURED WITH TWO-HOLE MALLEABLE PIPE STRAPS AND SCREWS. ALL BOXES AND FITTINGS SHALL BE SUPPORTED AND SECURED IN COMPLIANCE WITH C.E.C. ARTICLE 370.
16. PENETRATIONS TO FIRE-RATED MATERIALS SHALL BE RESTORED TO EQUAL RATING AS REQUIRED BY THE STATE FIRE MARSHAL AND ALL OTHER GOVERNING BODIES.
17. ALL CONDUCTORS OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN COMPLIANCE WITH O.S.H.A.
18. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE C.E.C., ARTICLE #250.
19. CONDUCTORS SHALL BE CODE GRADE, 600 VOLT CLASS, COPPER, MARKED 24" ALONG IT'S LENGTH SHOWING MANUFACTURER'S NAME, MAXIMUM ALLOWABLE VOLTAGE AND SIZE. CONDUCTORS SHALL BE TYPE "THWN" (WET) OR "THHN" (DRY). DELIVER CONDUCTORS TO THE JOB SITE IN UNBROKEN PACKAGES.
20. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONTROL WIRES, AND OUTLETS FOR COMPLETE CONNECTION TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR CONTROL SCHEMATICS.
21. ARCHITECTURAL REFLECTED CEILING PLANS INDICATING THE LOCATION OF LIGHTING FIXTURES SHALL TAKE PRECEDENCE OVER THE LOCATIONS OF SAME AS SHOWN ON THE ELECTRICAL DRAWINGS. INSTALL THE LIGHTING FIXTURES IN ANY GIVEN AREA TO AGREE WITH THE REFLECTED CEILING PLANS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
22. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILING WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS. THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.
24. PROVIDE THE OWNER WITH ONE (1) SET OF COMPLETE, UP TO DATE, "AS-BUILT" REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE PROJECT, SHOWING ACTUAL DEPTHS OF UNDERGROUND CONDUIT RUNS AT ALL LOCATIONS. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO THE OWNER AT PROJECT COMPLETION.
25. THE COMPLETE PROJECT SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR, AFTER DATE OF ACCEPTANCE, BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED IN A TIMELY MANNER, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
26. WHERE A CONFLICT OCCURS BETWEEN THESE NOTES, THE ELECTRICAL DRAWINGS OR THE ELECTRICAL BOOK SPECIFICATIONS ISSUED AS A PART OF THESE DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL.



ELECTRICAL SITE PLAN

SCALE  
1"=10'-0"



PROJECT NO. C2002

100% CD's 3-01-2021

Underground Service Alert



Call: TOLL FREE  
1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

REVISIONS

REV.	DATE	BY	DESCRIPTION	APP\VD

REFERENCES


DRAWN BY:		
DESIGNED BY:		
CHECKED BY:		

PREPARED UNDER THE SUPERVISION OF:

TERRY EVANS

R.A. NO.: C33095 EXP. DATE: 11-30-2021

APPROVED BY:

CHRIS TANIO, PRINCIPAL C.E. DATE  
R.C.E. No: C82758 Exp. Date: 09/30/22



CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS

SHEET TITLE  
ELECTRICAL SITE PLAN AND GENERAL NOTES

LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

SHEET NO.

E-1.0

22 OF 26

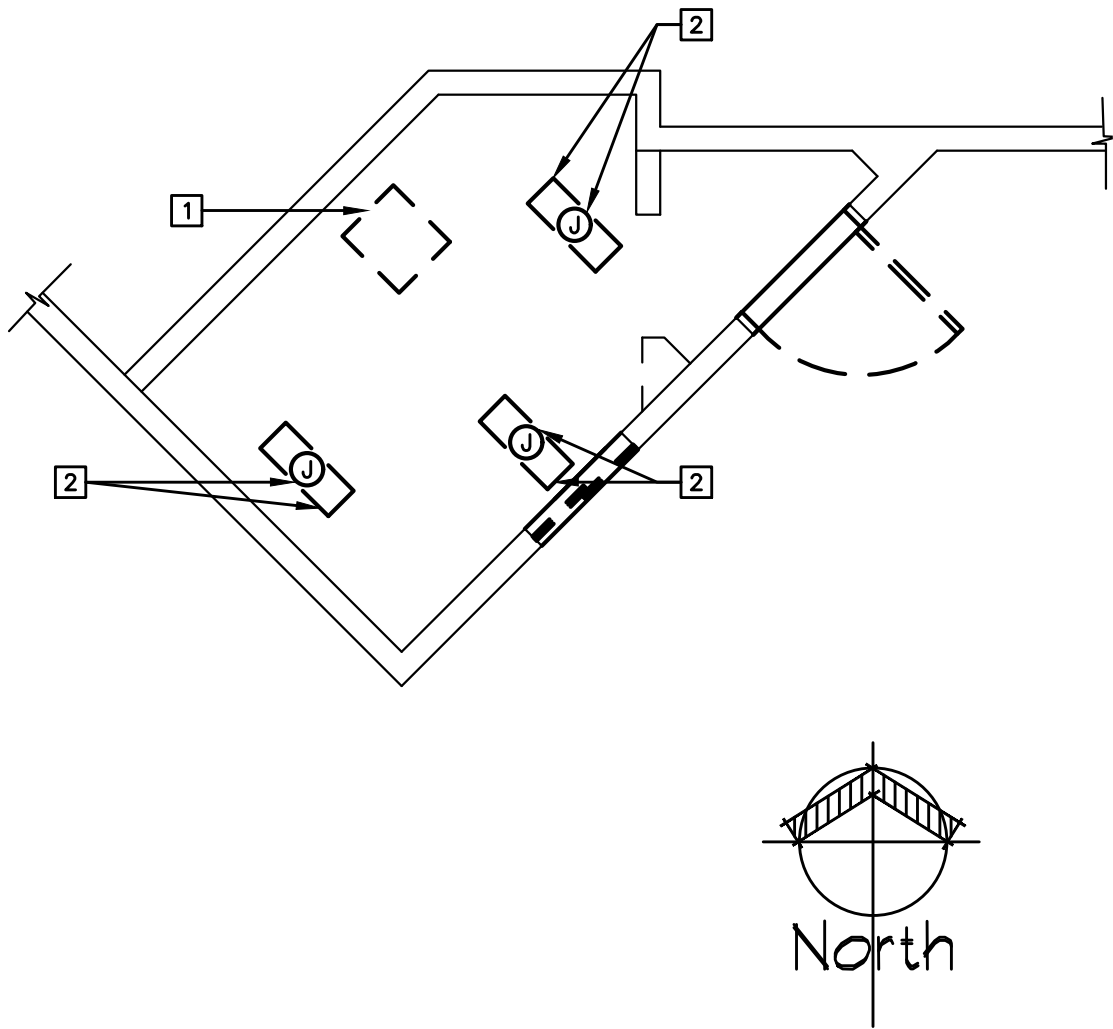
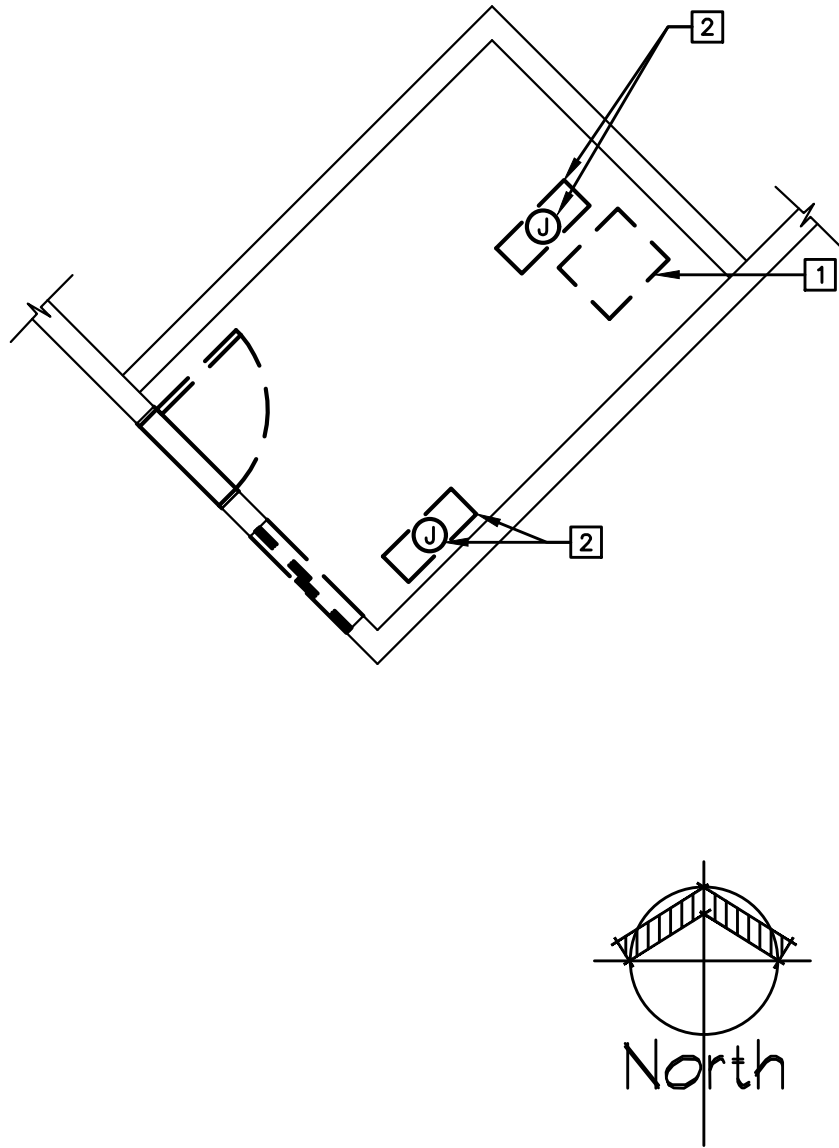
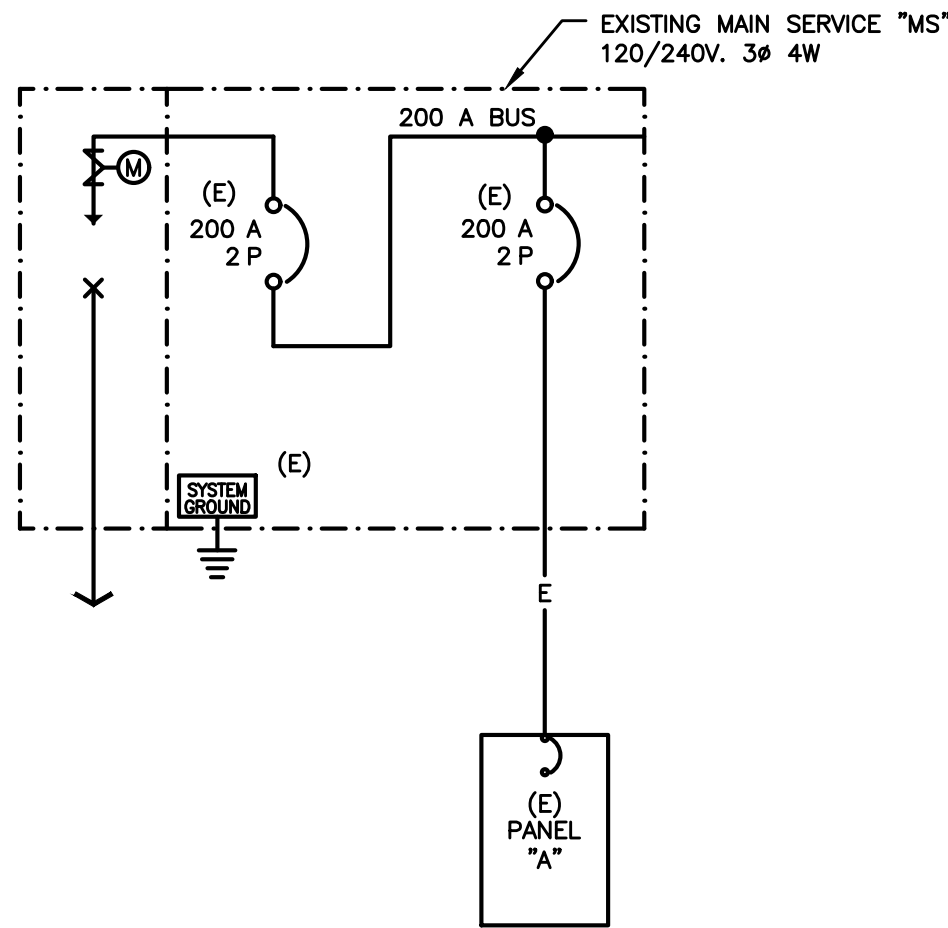


ELECTRICAL SYMBOLS LIST

- SURFACE MOUNTED L.E.D. LIGHT FIXTURE – REFER TO FIXTURE SCHEDULE.
- ① JUNCTION BOX, ACCESSIBLE AND MOUNTED FOR THE APPLICATION DENOTED ON PLANS.
- ② JUNCTION BOX, WALL MOUNTED. FIELD VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- SURFACE MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.
- ▨ DISTRIBUTION SWITCHBOARD REFER TO SINGLE LINE DIAGRAM.
- Ⓢ FUSED DISCONNECT SWITCH – HP RATED WITH FUSES PER EQUIPMENT MANUFACTURER AND WEATHERPROOF AS REQUIRED.
- NON-FUSED DISCONNECT SWITCH-HP RATED AND WEATHERPROOF AS REQUIRED.
- ⏏ GROUND CONNECTION, SIZE AS INDICATED OR AS REQUIRED.
- ◇ CEILING MOUNTED LIGHTING MOTION SENSOR
- ⚡ SINGLE POLE WALL SWITCH, +48" A.F.F. TO TOP, SUBSCRIPTS AT SYMBOL INDICATE THE FOLLOWING.  
M – MOTOR STARTING SWITCH
- A-1,3,5 HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBER INDICATES CIRCUITS.
- CONDUIT RUN CONCEALED, IN WALLS, FLOOR, OR ABOVE CEILING.
- 3/4"C. 2 #12 & 1 #12 E/G.
- 3/4"C. 3 #12 & 1 #12 E/G.
- 1A 100/2 LIGHT FIXTURE CALL OUT, "1A" INDICATES FIXTURE TYPE (REFER TO FIXTURE SCHEDULE), "100" INDICATES TOTAL FIXTURE WATTAGE. NUMBER ADJACENT INDICATES QUANTITIES. (NUMBER IS SHOWN FOR BRANCH CIRCUIT PURPOSE ONLY, NOT FOR MATERIAL TAKE-OFF).
- AH 2 MECHANICAL EQUIPMENT CALLOUT, "AH" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND FULL RATING.
- 3 E-1 DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.
- PROVIDE FURNISH, INSTALLED AND CONNECTED, COMPLETE.
- C CONDUIT
- E/G EQUIPMENT GROUND (GREEN)
- U.O.N. UNLESS OTHERWISE NOTED
- ② PLAN NOTE REFERENCE.
- ④ REVISION REFERENCE.
- MH MOUNTING HEIGHT

DEMOLITION NOTES:

- 1 EXISTING EXHAUST FAN TO BE REMOVED AND REPLACED.
- 2 REMOVE EXISTING FLUSH MOUNTED LIGHT FIXTURE AND PROVIDE NEW JUNCTION BOX IN ATTIC MAINTAIN CIRCUIT



SINGLE LINE DIAGRAM

SCALE  
N.T.S.

5

DEMOLITION FLOOR PLAN

SCALE  
3/16"=1'-0"

3

DEMOLITION FLOOR PLAN

SCALE  
3/16"=1'-0"

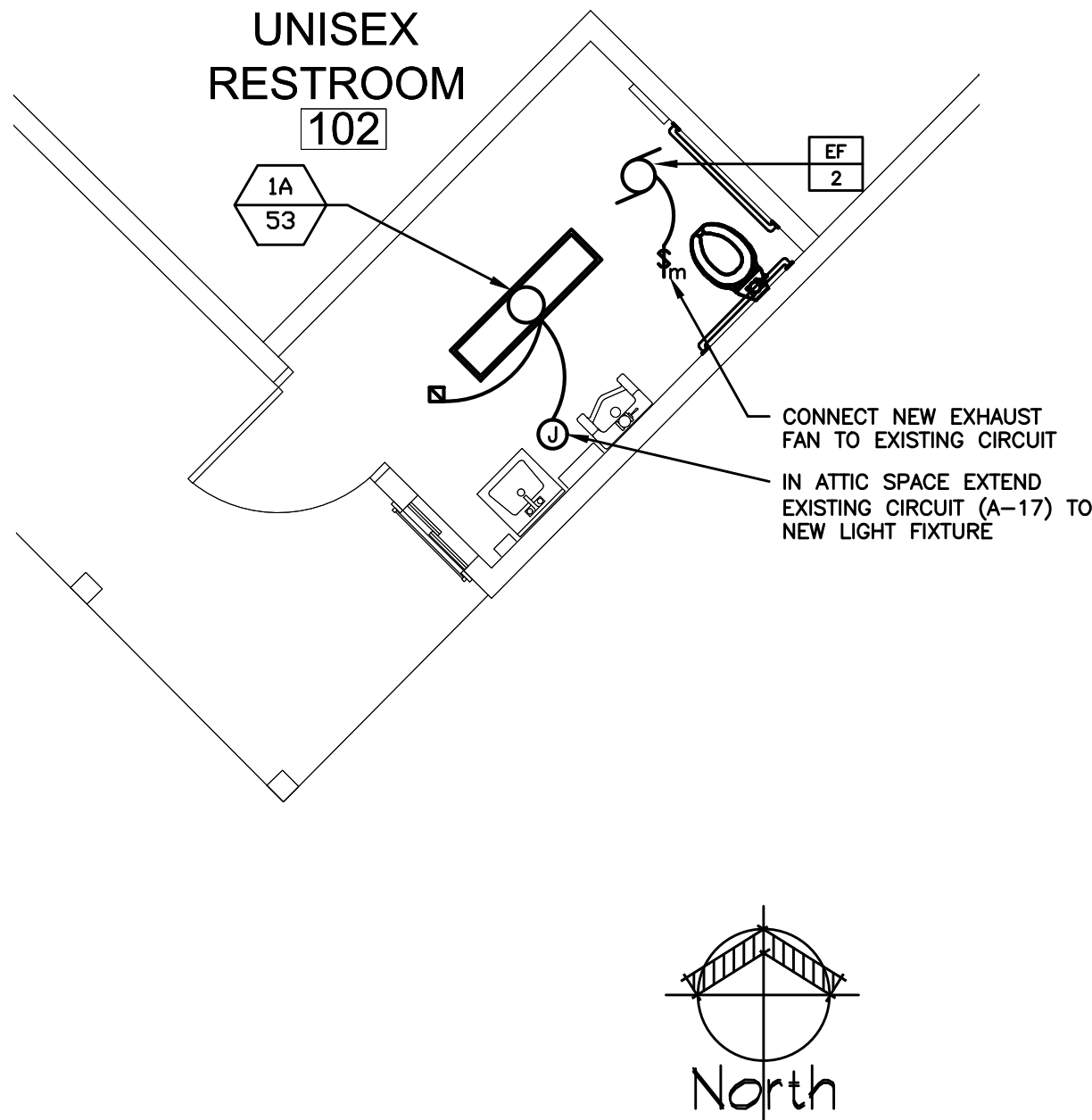
1

LIGHTING FIXTURE SCHEDULE

REFER TO DIVISION 1, GENERAL REQUIREMENTS, REGARDING PRODUCT OPTIONS AND SUBSTITUTION. WHERE THREE OR MORE MANUFACTURERS ARE LISTED IN THE FOLLOWING LIGHTING FIXTURE SCHEDULE, SUBSTITUTION WILL NOT BE CONSIDERED. WHERE PRODUCTS ARE LISTED BY NAMING ONE OR MORE MANUFACTURERS, WITHOUT "OR EQUAL" PROVISION FOR SUBSTITUTION, CONTRACTOR SHALL INCLUDE ONLY SPECIFIED PRODUCTS IN BID. REQUEST FOR SUBSTITUTION WITHIN 35 DAYS FROM THE DATE OF THE NOTICE TO PROCEED WILL ONLY BE CONSIDERED IN ACCORDANCE WITH DIVISION 1 OF THESE CONTRACT DOCUMENTS.

DESCRIPTION	LAMPS		VOLTS	MOUNTING
	WATTS	TYPE		
1A 53 1'x4' HIGH ABUSE SURFACE L.E.D. LIGHT FIXTURE POLYCARBONATE LENS VISCOR: VRSE-3556-48-LED-8-35K-048L-UNV	53	L.E.D. 35K	120	SURFACE TO CEILING

UNISEX RESTROOM 102

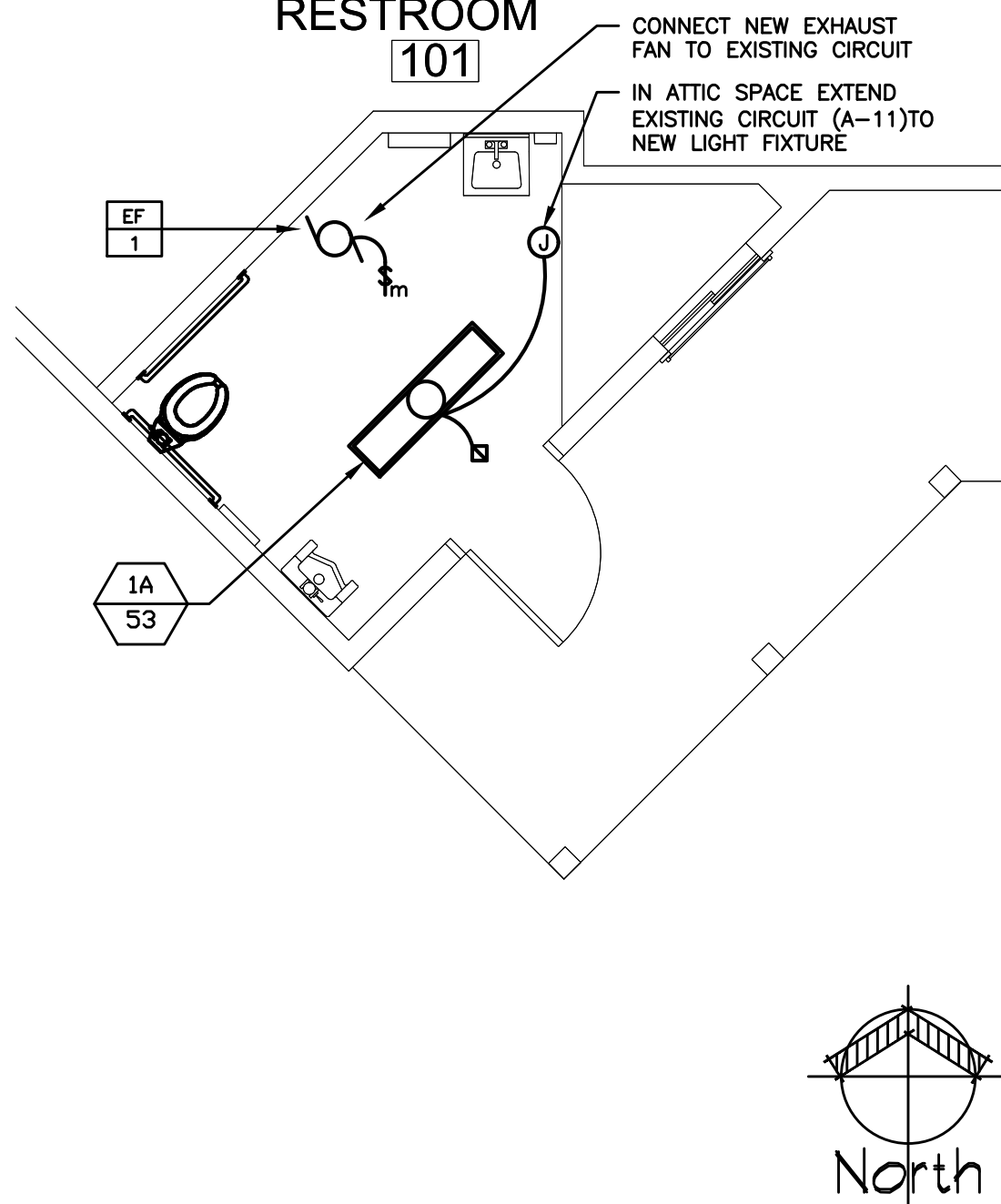


SCALE  
3/16"=1'-0"

3

ELECTRICAL FLOOR PLAN

UNISEX RESTROOM 101



SCALE  
3/16"=1'-0"

2

ELECTRICAL FLOOR PLAN

Underground Service Alert



Call: TOLL FREE  
1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

REVISIONS

REV.	DATE	BY	DESCRIPTION	APP'VD

REFERENCES


DRAWN BY:  
DESIGNED BY:  
CHECKED BY:

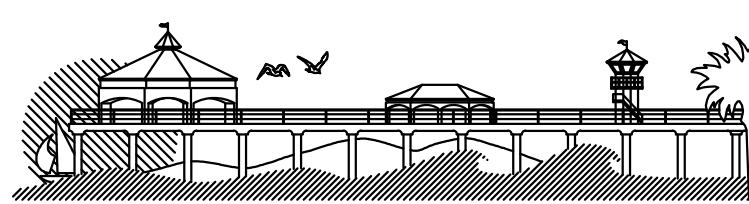
PREPARED UNDER THE SUPERVISION OF:

TERRY EVANS

R.A. NO.: C33095 EXP. DATE: 11-30-2021

APPROVED BY:

CHRIS TANIO, PRINCIPAL C.E. DATE  
R.C.E. No: C82758 Exp. Date: 09/30/22



CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS

PROJECT NO. C2002

100% CD's 3-01-2021

SHEET TITLE

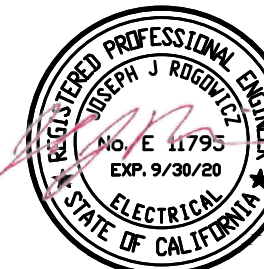
DEMOLITION PLANS, FLOOR PLANS AND SINGLE LINE DIAGRAM

LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

SHEET NO.

E-2.0

23 OF 26



JCA

Engineering Inc.  
Electrical Engineering & Consulting  
8048 Palm Ave  
Highland, Ca  
92346  
909 864-0223  
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james.corns@jcaeng.com

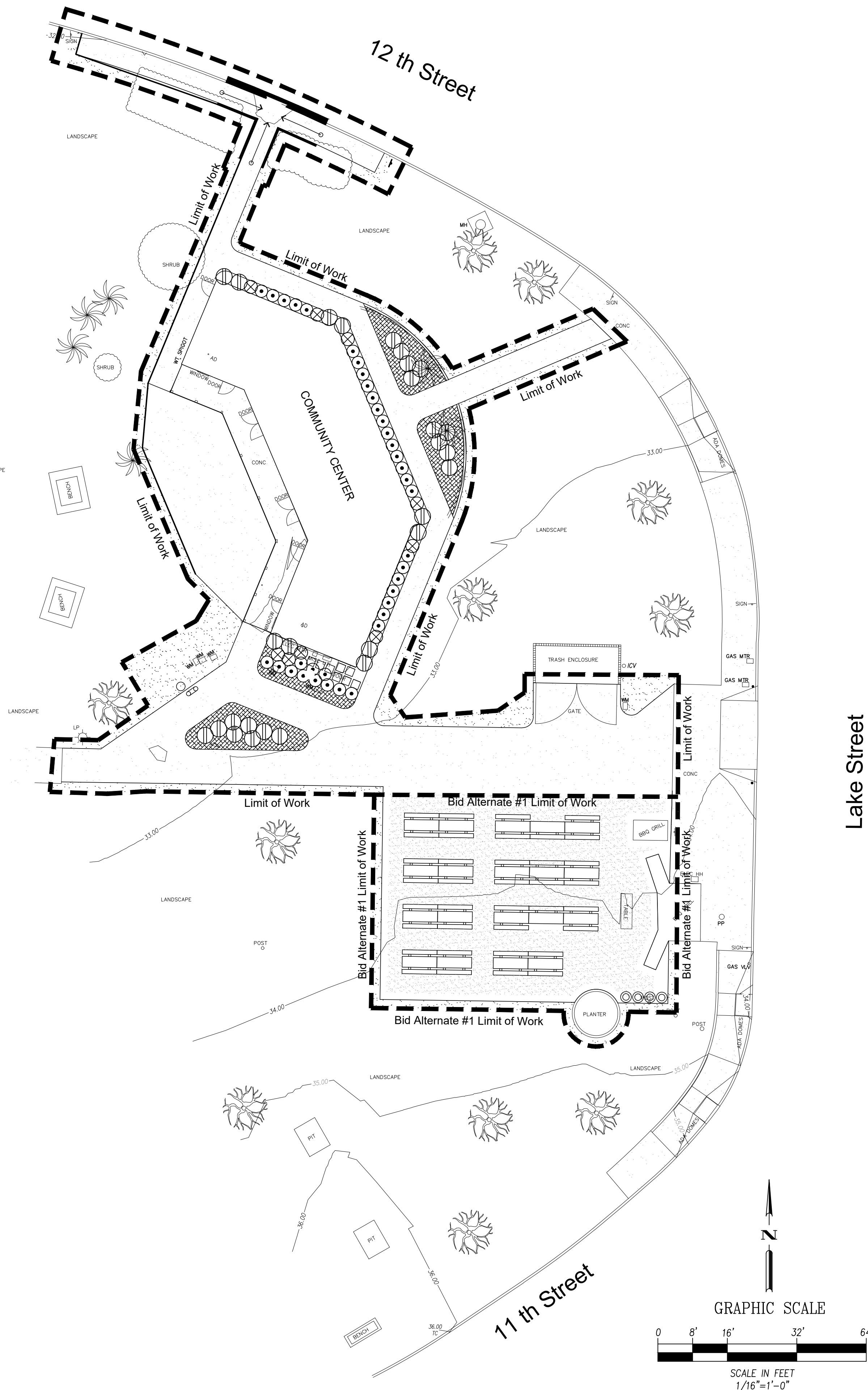


## PLANTING NOTES:

- At the conclusion of rough grading, an agronomic soils report shall be prepared by the owner and furnished to the contractor, and all recommendations from such report shall be incorporated by the contractor into installation of all planting areas.
- all tree and shrub material specified must meet standard industry specifications for the container size indicated. If the contractor cannot locate material of acceptable size at the time of installation, contact Landscape Architect for species substitution; downsizing or substitution of plant material without prior approval of landscape architect will not be allowed.
- Conceal all irrigation valves in shrub areas.
- Trees shall not be planted closer than four (4) feet from any walkway or public sidewalk except where tree wells or parkways are provided in the sidewalk area. All tree planted within five (5) feet of walks or public utilities shall receive deep root barriers.
- Free locations shown on plan may require adjustment in the field; whenever feasible, trees should be planted a minimum of ten (10) feet from all underground utilities, streetlights, hydrants, and out of drainage flow lines; should this not be possible, contact the landscape architect for decision on placement.
- Groundcover type shown shall be planted in all shrub areas as specified on plans. Groundcover shall be planted as specified in legend uniform triangular spacing, and shall be continuous under all tree and shrub masses as shown on plan.
- For planting legend see this sheet, and details see sheet L1.0, see specification book for planting specifications.
- all irrigation to be automatic and to include a rain sensor. location currently shown for reference only. refer to I-1 for location.

## SITE OBSERVATION:

- The following site meetings and walk-throughs are required:  
Pre-construction conference to review plans prior to beginning construction.  
To be present:  
Job Superintendent  
Landscape architect  
Landscape Contractor  
City's Authorized Representative
- Materials and/or samples shall be submitted by the contractor, for approval, prior to start of construction.
- Tagging of tree material - the Landscape Architect will tag all tree material.
- Irrigation review - prior to trenches being closed. ("record set" irrigation plans are required prior to final acceptance.
- Tree and plant material placement - all plant material is to be placed in their containers per plan by the installing contractor. The Landscape Architect will then "fine tune" the placement of the plant material. Plant material not up to industry standards will be rejected by the Landscape Architect.
- Completion of project prior to occupancy. This should be the start of the ninety (90) day maintenance period. This walk will be with the following people:  
Job Superintendent  
Landscape architect  
Landscape Contractor  
City's Authorized Representative
- Two (2) weeks prior to the end of the maintenance period, a walk with the following people will be scheduled so that the project can be turned over to the owner's representative:  
Job Superintendent  
Landscape architect  
Landscape Contractor  
City's Authorized Representative
- At this walk, the installing contractor should be prepared to turn over "record sets" with the following information:
  - Location of meters including meter registration number, meter address and area covered.
  - Irrigation mainlines and valve locations.
  - Controller charts, reduced, laminated and placed in controller cabinet.
  - Any change in plant material placement.
- At the end of the maintenance period, landscape coordinator, super-intendent and maintenance contractor will walk the site and, if acceptable, the area construction manager will issue a letter releasing the installing contractor of his maintenance period.



## PLANTING LEGEND:

## SHRUBS

BOTANICAL/COMMON NAME	SIZE	SPACING	WUCOLS IV	DETAIL	QUANTITY
⊖ Strelitzia Reginae Bird of Paradise	5 gal.	4'	MED .4	3,4,&5	28 ea.
⊗ Dieties Bicolor Fortnight Lily	5 gal.	3'	MED .4	3,4,&5	9 ea.
● Rhaphiolepis Indica India Hawthorn "Ballerina"	5 gal.	3'	LOW .2	3,4,&5	36 ea.

## GROUND COVER

BOTANICAL/COMMON NAME	SIZE	SPACING	WUCOLS IV	DETAIL	QUANTITY
⊞ Rosmarinus 'Huntington Carpet' Trailing Rosemary	1 GAL	4'	LOW .2	3,4,&5	37 ea. (590 s.f.)
⊞ Sod - To be selected by City					1,575 s.f. Bid Alt.#1 - 290 s.f.

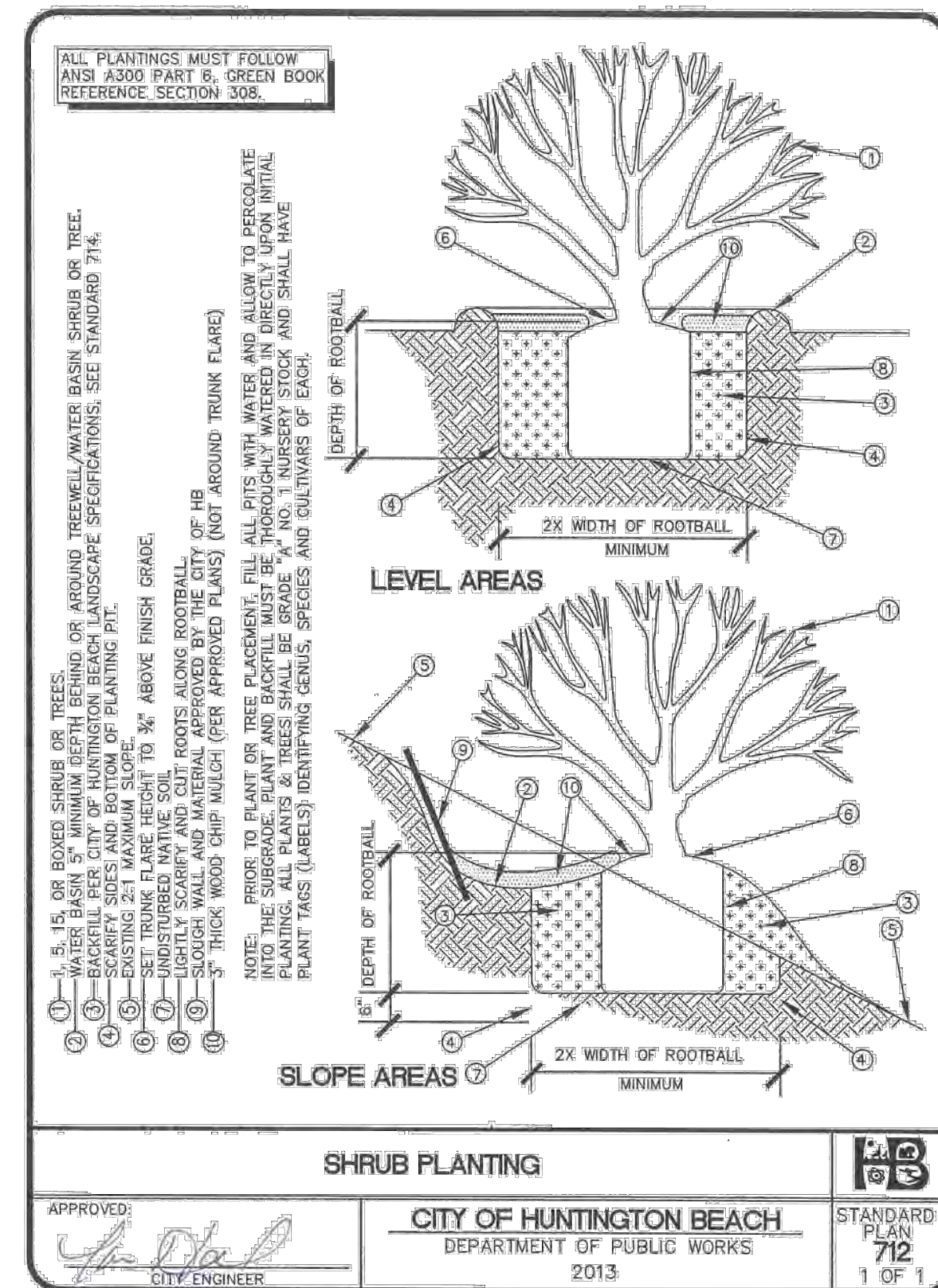
Install 2" layer of mulch in all planting areas - new and existing 1,150 s.f.

Limit of Work  
NOTE: Contractor is responsible for all quantities.

## LANDSCAPE IMAGES:



## PLANTING LEGEND AND IMAGES



## PLANTING SPECIFICATIONS

- PRIOR TO EXCAVATING OR BORING, NOTIFY DIG ALERT TO FIELD MARK EXISTING UTILITIES. PROTECT IN PLACE. IF FIELD CONFLICT EXISTS, NOTIFY THE PUBLIC WORKS INSPECTOR. PROCEED WITH WORK ONLY AFTER NEW DIRECTIONS HAVE BEEN GIVEN BY THE PUBLIC WORKS INSPECTOR.
- EXCAVATE PLANT HOLE TO SIZE AND DEPTH SHOWN.
- EXCAVATE AND CONSTRUCT DRAINAGE SUMP PER "TREE/PALM SUMP" STANDARD PLAN NO. 715.
- CONNECT EACH 2" LONG X 2" WIDE PIECE OF "DEEP ROOT" ROOT BARRIER PANELING TO ANOTHER 2" LONG X 2" WIDE PIECE WITH THE MANUFACTURERS JOINER STRIP TO FORM ONE CONTINUOUS JOINT LENGTH. SEND TO A LENGTH OF ROOT BARRIER TOGETHER INTO CONFIGURATION AS SHOWN AROUND ROOTBALL AND CONNECT ENDS USING ANOTHER JOINER STRIP. DEEP ROOT BARRIER SHALL BE FLUSH WITH THE EDGE OF CONCRETE PAVING. DO NOT USE ROOT BARRIER WITH PALMS UNLESS DIRECTED BY THE PUBLIC WORKS INSPECTOR.
- INSTALL 6" PERFORATED ADS PLASTIC SDR 35 DRAIN PIPE IN ALTERNATE CORNERS VERTICALLY AND FILL WITH 3/4" CRUSHED DRAIN ROCK. PERFORATIONS SHALL BE A MINIMUM OF 1/2" IN DIAMETER IN THREE LOCATIONS AROUND THE CIRCUMFERENCE.
- FOR TREES: BACKFILL PLANT HOLE APPROXIMATELY 6" TO 12" DEEP WITH PREPARED BACKFILL AS SPECIFIED IN THE CITY OF HUNTINGTON BEACH LANDSCAPE SPECIFICATIONS. FILL THE REMAINDER OF THE HOLE WITH WATER TO SETTLE FOR PALMS: BACKFILL WITH PURE CLEAN COARSE SAND. COMPACT SAND WITH A "BUSHWACKER" AND WATER TO CREATE A SOLID BASE FOR THE PALM.
- AFTER BACKFILL HAS SUFFICIENTLY SETTLED AND DRIED AS DIRECTED BY THE PUBLIC WORKS INSPECTOR, INSTALL THE TREE ROOTBALL WITH THE TOP LEVEL AND 1" ABOVE THE BOTTOM OF THE ADJACENT SIDEWALK. FOR PALMS: BACKFILL WITH CLEAN, COARSE SAND AND COMPACT WITH "BUSHWACKER" AND WATER TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR.
- BACKFILL THE REMAINING TREE WELL VOIDS WITH SPECIFIED BACKFILL AND WATER TO SETTLE.
- STAKE TREE PER STANDARD PLAN NO. 714. ALL PALMS IN MEDIAN ISLANDS AND PLANTS WITH 10' OF BROWN TRUNK OR GREATER TO BE STAKE ANCHORED WITH PALM GUAD POSTS PER STANDARD PLAN NO. 713. PALMS WITH LESS THAN 10' OF BROWN TRUNK AND NOT IN MEDIAN ISLANDS SHALL BE STAKED WITH A 10' LONG, 2" DIAMETER COPPER NAPHANATE TREATED LOGS POLE PINE STAKE, DRIVEN A MINIMUM OF 3" INTO THE GROUND AND 12" BELOW THE BOTTOM OF THE PLANT HOLE. Tie to PALM WITH 100# STRAIGHT RUBBER TIE TIES (24" TO 36" LONG) SIZE AS REQUIRED TO ENHANCE STAKE AND PALM LOGS. ATTACH TO STAKE WITH A 100# NAIL AND DEND NAIL ON BACK OF STAKE. INSTALL STRING TRIMMER PROTECTION SUCH AS ARBOREUM OR APPROVED EQUAL.

## ARTERIAL PALM/TREEWELL PLANTING SPECIFICATIONS



## SPECIFICATION STD. PLN. 715

4

## PLANTING SPECIFICATIONS CONTINUED

- AFTER BACKFILL HAS SUFFICIENTLY SETTLED AND DRIED, BRING BACKFILL TO GRADE SHOWN.
- PRIOR TO DELIVERY, ALL TREES, INCLUDING PALMS, PLANTS, SHRUBS, ETC. SHALL BE APPROVED BY THE CITY.

NOTE: WHEN PLANTING TREES ON STATE HIGHWAYS REFER TO STATE DIVISION OF HIGHWAYS LANDSCAPING SPECIFICATIONS AS WELL AS CITY SPECIFICATIONS.

- ONE HUNDRED (100) FEET BACK OF BEGINNING CURB RETURNS ON ARTERIAL HIGHWAYS AT APPROACHES TO OTHER ARTERIAL HIGHWAYS.
- TWENTY FIVE (25) FEET BACK OF BEGINNING CURB RETURNS AT INTERSECTIONS.
- FIFTEEN (15) FEET FROM LIGHT STANDARDS.
- EIGHT (8) FEET FROM FIRE HYDRANTS.
- EIGHT (8) FEET FROM SERVICE WALKS OR DRIVEWAYS.
- SIX (6) FEET FROM WATER METERS. (IN THE INTEREST OF PUBLIC SAFETY OR WHICH SPACING OR VARIATION IN THE LOCATION OF METERS AS DESCRIBED HEREIN, THE APPROPRIATE SPACING PROCEEDURE SHALL BE CHECKED AND MAY BE MODIFIED BY THE PARK, TREE AND LANDSCAPE SUPERVISOR OR DESIGNER.

## ARTERIAL PALM/TREEWELL PLANTING SPECIFICATIONS



## SPECIFICATION STD. PLN. 715

5

## SHRUB PLANTING STD. PLN. 712

3

## LANDSCAPE PLAN

SCALE: 1" = 16'-0"

1

PROJECT NO. C2002

100% CD'S 3-01-2021

## Underground Service Alert



Call: TOLL FREE  
1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

## REVISIONS

REV.	DATE	BY	DESCRIPTION	APP'VD

## REFERENCES

DRAWN BY:  
DESIGNED BY:  
CHECKED BY:

PREPARED UNDER THE SUPERVISION OF:  
TERRY EVANS

R.A. NO.: C33095 EXP. DATE: 11-30-2021

APPROVED BY:

CHRIS TANIO, PRINCIPAL C.E. DATE  
R.C.E. No: C82756 Exp. Date: 09/30/22



CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS

SHEET TITLE  
LANDSCAPE PLAN AND DETAILS

LAKE PARK IMPROVEMENTS  
1035 11th Street  
Huntington Beach, Ca 92648

## SHEET NO.

L1.0

24 OF 26





## IRRIGATION NOTES:

- It shall be the responsibility of the contractor to procure an original set of these printed irrigation plans for bidding and construction. Copies of these plans are not allowed for bidding and construction as they may not show irrigation symbols, line weights, or line types clearly.
- All local municipal and state laws, rules and regulations governing or relating to any portion of this work are hereby incorporated into and made a part of these specifications and their provisions shall be carried out by the contractor.
- The contractor shall verify site conditions, property lines, limits of work, dimensions and the locations of all existing utilities, structures and services before commencing work. The locations of utilities, structures and services shown in these plans are approximate only. Any discrepancies between these plans and actual field conditions shall be reported to the City's representative. Contractor shall thoroughly familiarize himself with all site conditions prior to bidding and commencing work.
- The contractor shall obtain the pertinent engineering or architectural plans before beginning work.
- The contractor shall obtain all necessary permits required to perform the work indicated herein before beginning work.
- This design is diagrammatic. All equipment shown in paved areas is for design clarity only and is to be installed within planting areas.
- The contractor shall not willfully install any equipment as shown on the plans when it is obvious in the field that unknown conditions exist that were not evident at the time these plans were prepared. Any such conditions shall be brought to the attention of the City's representative prior to any work or the irrigation contractor shall assume all responsibility for any field changes deemed necessary by the City's representative.
- Install all equipment as shown in the details and specifications. Contractor shall be responsible to comply with local City, County and State requirements for both equipment and installation.
- All pipe under paved areas to be installed in sleeving twice the diameter of the pipe carried. See legend for type. All wire under paved areas to be installed in a sch. 40 sleeve the size required to easily pull wire through. All sleeves to be installed with a minimum depth as shown on the sleeving details. Sleeves to extend at least 12" past the edge of the paving.
- All quick couplers to be installed in shrub or ground cover areas where possible. All quick couplers to be installed as shown on the installation details. Install all quick couplers within 18" of hardscape.
- All heads are to be installed with the nozzle, screen and arcs shown on the plans. All heads are to be adjusted to prevent overspray onto buildings, walls, fences and hardscape. This includes, but not limited to, adjustment of diffuser pin or adjustment screw, replacement of pressure compensating screens, replacement of nozzles with more appropriate radius units and the replacement of nozzles with adjustable arc units.
- Contractor shall adjust all heads as required to accommodate any vertical obstructions that may occur, including but not limited to light poles, fire hydrants, etc. Contractor shall add sprinkler heads as required to achieve 100% coverage in all areas that require adjusting. Additional heads shall be installed at no additional costs to the contract. Verify all head layout with City's authorized representative prior to commencing work.
- Lateral lines may be shown within paving for clarity only, actual location to be within planter. Confirm all layout in field with City's authorized representative prior to commencing work.

## ADD ALTERNATE #2

- Contractor shall install a new 5 HP Barrett buster pump with enclosure located at the existing water meter point of connection and backflow preventer see sheet IR-1.1 detail 1&2 for model number specifications. Final location shall be approved by the City's Representative.
- Contractor shall remove existing 24 station CALSENSE 2000 controller and enclosure and install a new 24 station CALSENSE CS 3000 controller and enclosure. see detail 4 sheet IR-1.1
- Contractor shall remove existing flow sensor and install a new CALSENSE FMI insert flow meter. see detail 5 sheet IR1.1
- Contractor shall install a strongbox SBBC-30SS smooth touch low profile enclosure over existing backflow preventer. see detail 3 sheet IR1.1
- Contractor shall run (1) 1-1/4" electrical conduit from the irrigation controller to the new pump system with 14 gage wire. Install per City code min. 24" deep. (approximately 1,000 l.f.)
- Contractor shall run (2) 1" electrical conduit from the irrigation controller to the flow meter and master valve with 4 gage wire in each conduit. Install per City code min. 24" deep. (approximately 1,000 l.f.)

Lake Street

GRAPHIC SCALE

0 8' 16' 32' 64'

SCALE IN FEET  
1/16"=1'-0"

1

PROJECT NO. C2002

100% CD'S

3-01-2021

SHEET NO.

IR1.0

25 OF 26

## IRRIGATION LEGEND

## IRRIGATION SPRAY HEADS

MANUF.	MODEL NUMBER	ARC	PSI	GPM	RAD.
TORO	570S-12P-SI-COM-10-Q-PC	90	30	0.40	10'
TORO	570S-12P-SI-COM-10-T-PC	120	30	0.52	10'
TORO	570S-12P-SI-COM-10-H-PC	180	30	0.71	10'
TORO	570S-12P-SI-COM-10-VAN-PC	72	30	0.72	10'

## IRRIGATION UTILITIES

M	WATER METER	EXISTING - VERIFY LOCATION IN FIELD
BACKFLOW	EXISTING VERIFY SIZE AND LOCATION IN FILED	
RAINBIRD	R44 1" (RIGID INSTALL) QUICK COUPLER VALVE WITH LOCKING RUBBER CAP.	
GRISWOLD	2000 SERIES - INDUSTRIAL ELECTRIC REMOTE CONTROL VALVE WITH ACCU-SENSE ADJUSTABLE PRESSURE REGULATING DIAL - SIZE AS SHOWN ON PLAN.	

## IRRIGATION CONTROLLER

CONTROLLER	EXISTING - SEE PLAN FOR LOCATION - PROTECT IN PLACE
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## IRRIGATION PIPING

AS APPROVED	NON-PRESSURE LATERAL SCH. 40 FOR SIZES 3/4" - 2" W/ PVC SCH. 40 FITTINGS - BURY MIN. 12" BELOW GRADE (SIZE AS NOTED ON PLAN). - COLOR PURPLE.
AS APPROVED	3" PRESSURE MAINLINE SCH. 40 PVC, IN PLANTER AREA FOR SIZES 3/4" - 1 1/2". FOR 2" & LARGER USE CLASS 315 PVC- BURY MIN. 18" BELOW GRADE (SIZE AS NOTED ON PLAN). - COLOR PURPLE.
AS APPROVED	PVC PIPE SCH. 40 SLEEVING, TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED - EXTEND 12" BEYOND EDGE OF PAVING & PLACE BELOW ALL PAVING, HARDSCAPE, ETC., AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. - COLOR PURPLE.

## IRRIGATION MISCELLANEOUS EQUIPMENT

NO SYMBOL	AS APPROVED	IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED)
NO SYMBOL	SPEARS	DS-400 PRE-FILLED WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS
NO SYMBOL	3M	DBY DIRECT BURIAL WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS

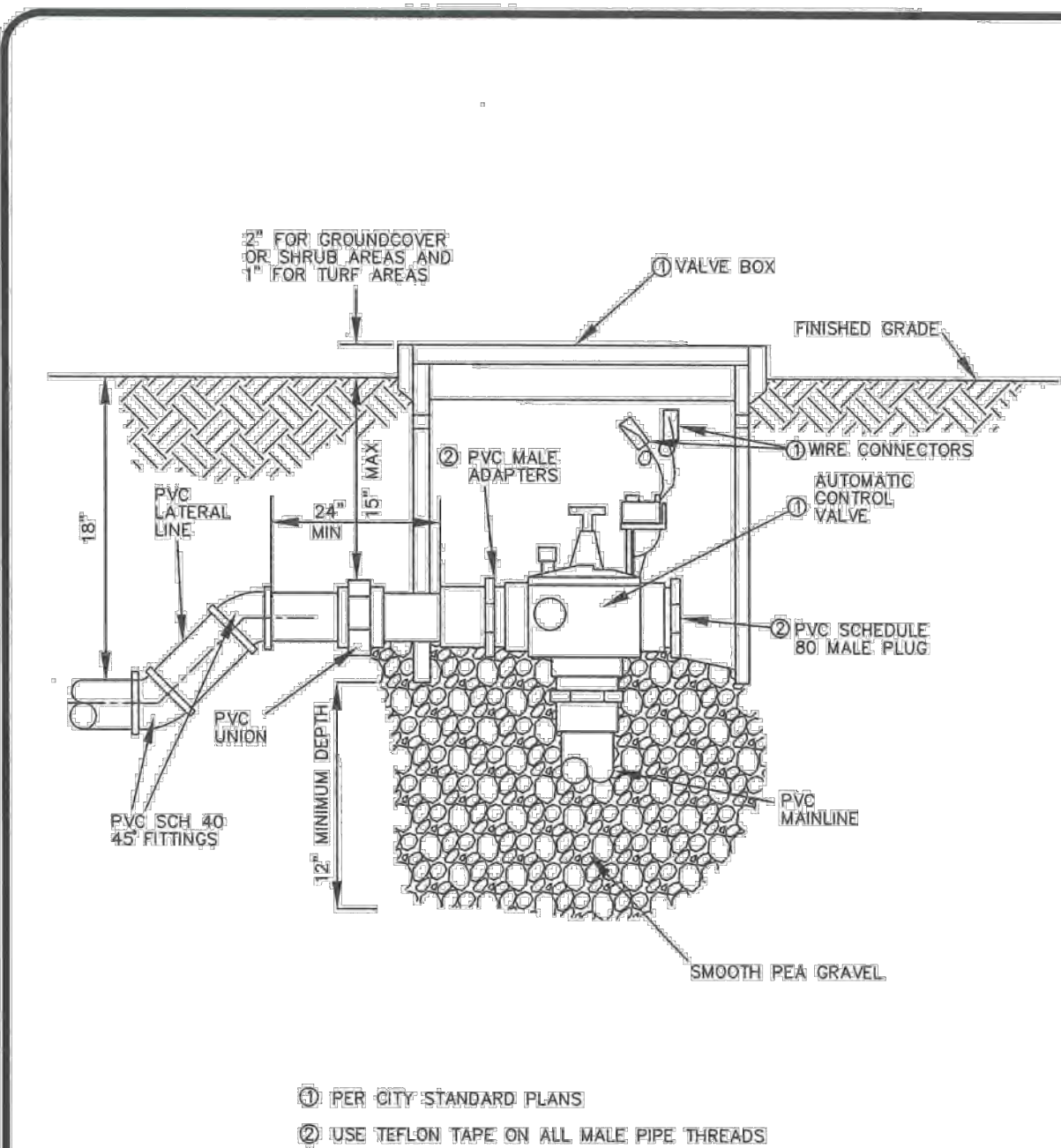
IRRIGATION CONTRACTOR TO ADJUST ALL EXISTING IRRIGATION HEADS DISTURBED FROM CONSTRUCTION AND ENSURE HEAD TO HEAD COVERAGE. THIS TASK SHALL BE COORDINATED WITH CITY'S MAINTENANCE STAFF REPRESENTATIVE.

IRRIGATION CONTRACTOR TO ADJUST ALL EXISTING IRRIGATION HEADS DISTURBED FROM CONSTRUCTION AND ENSURE HEAD TO HEAD COVERAGE. THIS TASK SHALL BE COORDINATED WITH CITY'S MAINTENANCE STAFF REPRESENTATIVE.

IRRIGATION CONTRACTOR TO VERIFY STATION AVAILABILITY. NEW CONTROLLER AND/OR ADDITIONAL EXPANSION MODULES MAY BE REQUIRED.

IRRIGATION CONTRACTOR TO ADJUST ALL EXISTING IRRIGATION HEADS DISTURBED FROM CONSTRUCTION AND ENSURE HEAD TO HEAD COVERAGE. THIS TASK SHALL BE COORDINATED WITH CITY'S MAINTENANCE STAFF REPRESENTATIVE.

## VALVE KEY:



## REMOTE CONTROL VALVE

APPROVED: CITY ENGINEER

CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS  
2013

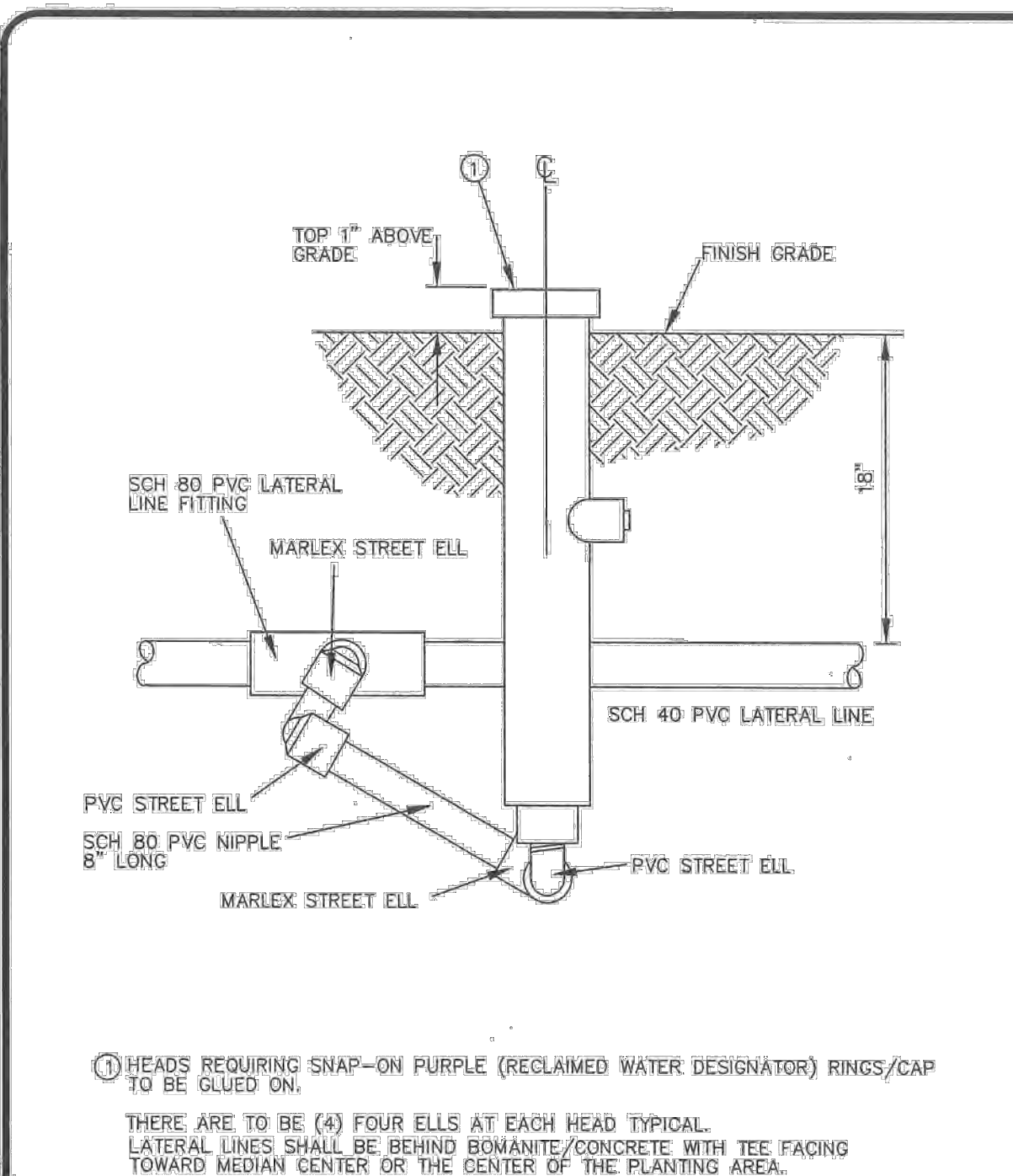
STANDARD PLAN  
704  
1 OF 2

## R.C.V. STD. PLN. 704

4

## IRRIGATION LEGEND

2



## SPRINKLER HEAD TYPE A

APPROVED: CITY ENGINEER

CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS  
2013

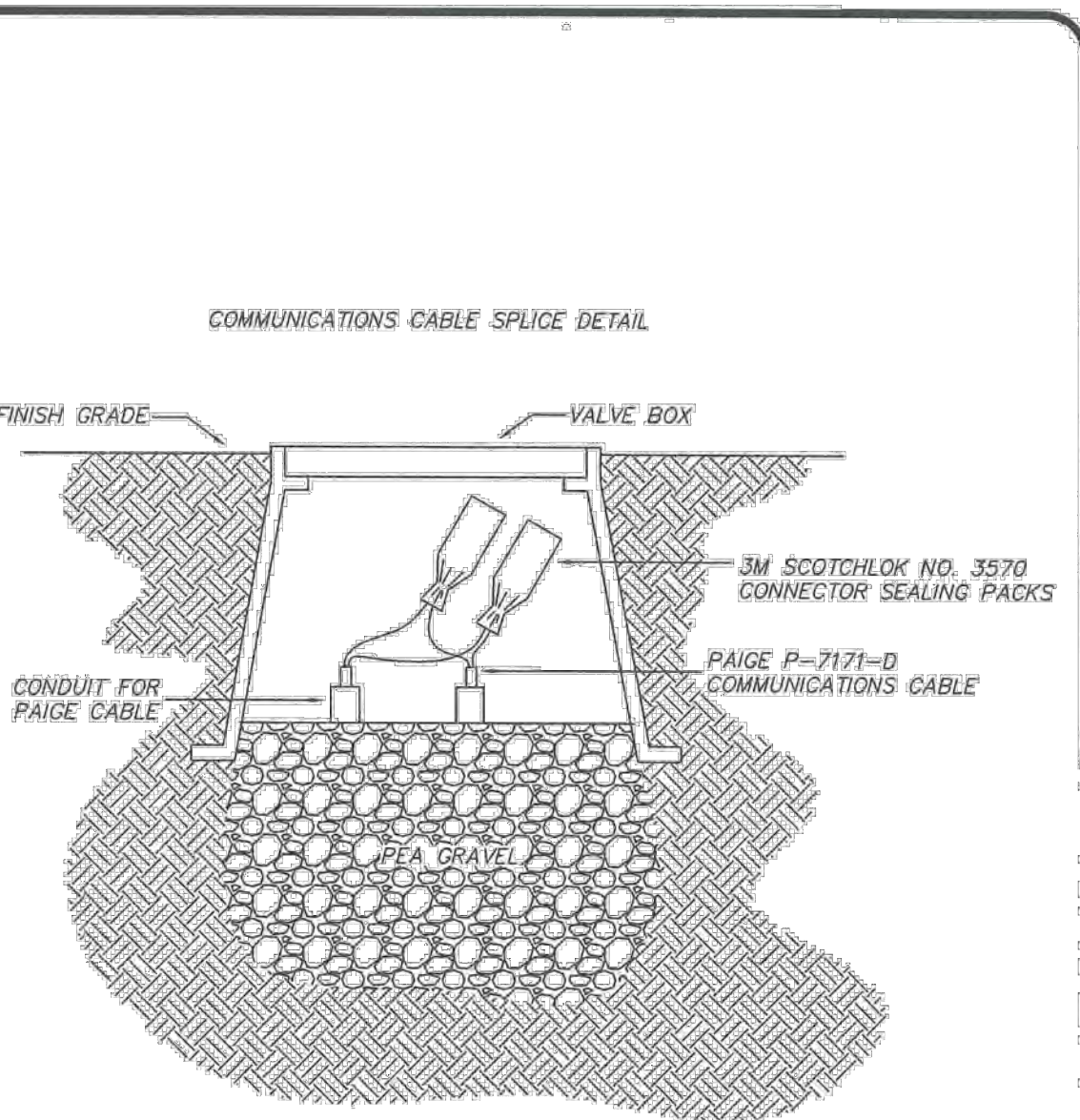
STANDARD PLAN  
705  
1 OF 2

## S.H. TYPE A STD. PLN. 705

5

## WIRE SPLICE STD. PLN. 729

3



## IRRIGATION CONTROL WIRE SPLICE

APPROVED: CITY ENGINEER

CITY OF HUNTINGTON BEACH  
DEPARTMENT OF PUBLIC WORKS  
2013

STANDARD PLAN  
729  
1 OF 1

Underground Service Alert



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25 OF 26



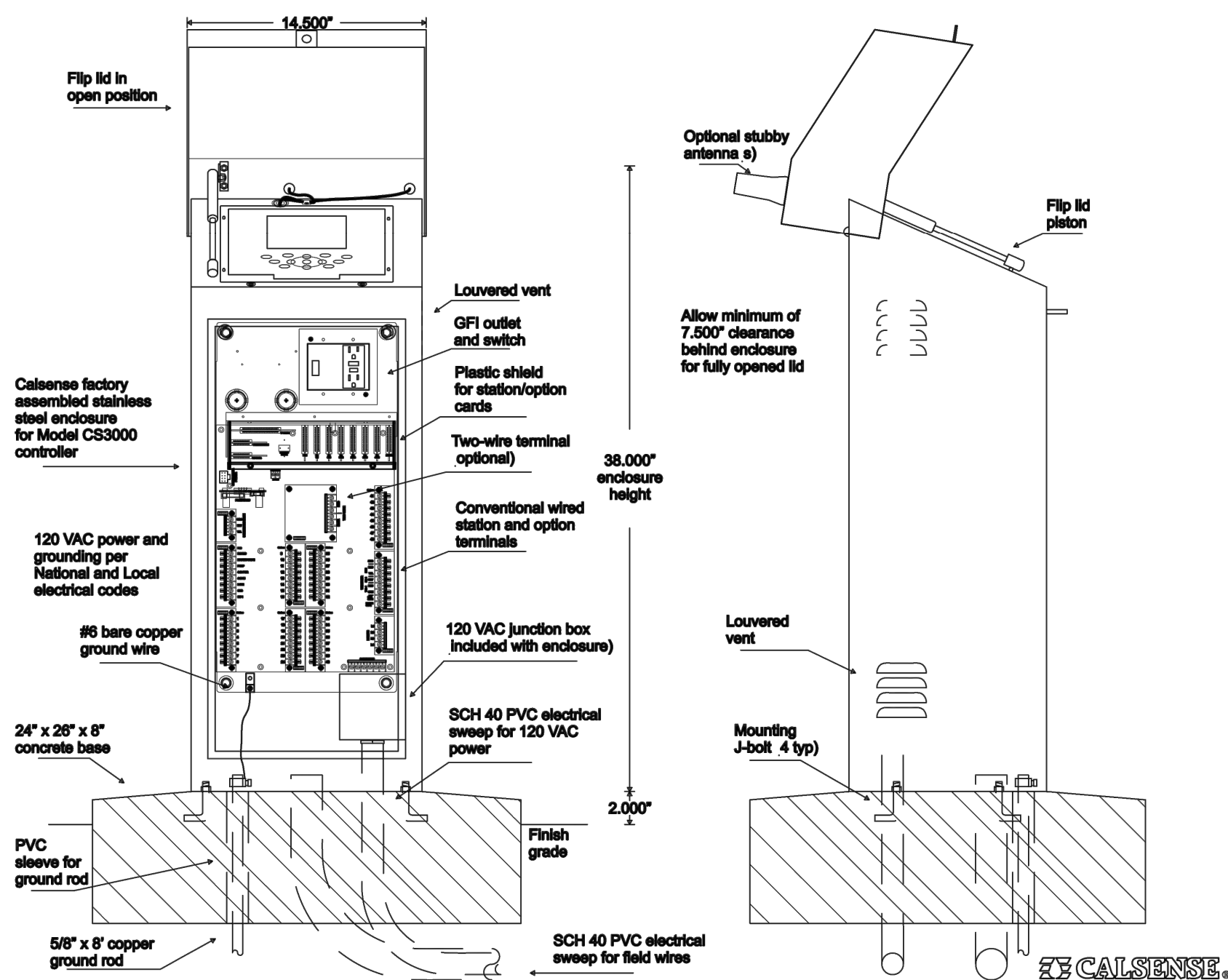
BARRETT ENGINEERED PUMPS  
SPECIALISTS IN PUMPS AND PUMPING SYSTEMSPROJECT: LAKE PARK – Huntington Beach  
SYSTEM DESIGN PARAMETERS

July 30, 2020

IBPCO-5-2.2.5/VFD-F	70-80 GPM	90 PSI	2 1/2 INCH
System Model Number	System Design Flow Rate	System Design Pressure	System Piping Size
50 PSI	230 VAC	1 PHASE 60 Hz	
Minimum Suction Pressure	System Electrical Voltage	System Electrical Phase and Frequency	
1070-7	70-80 GPM	110-130 FEET	
Pump Model Number	Pump Capacity (GPM)	Pump Total Head (Feet)	
5 HP	3500 RPM	27 AMPS @ 230/1 ph	
Pump Horsepower	Pump RPM	System Full Load Amperage	

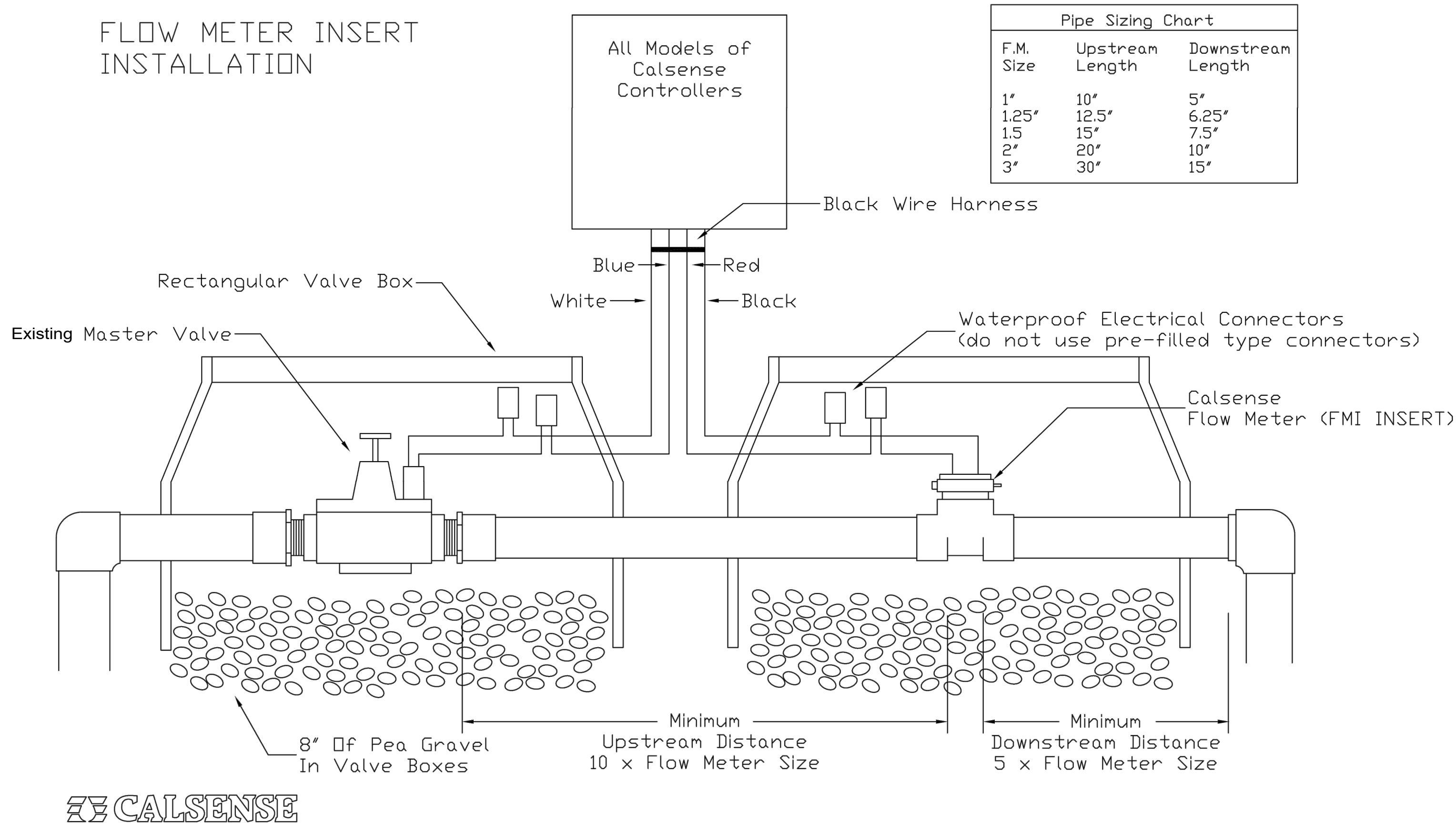
## BOOSTER PUMP ASSEMBLY

- A simplex water pressure booster system as designed and fabricated by Barrett Engineered Pumps (619) 232-7867. The system shall be a completely prefabricated system with pump, piping, electrical and structural elements. The entire booster pump assembly shall be UL Listed and Approved.
- Pump shall be:
  - (PACO Series) Single stage end suction close coupled centrifugal, cast iron bronze fitted construction, equipped with mechanical shaft seal, back pullout design. Impeller shall be threaded directly to the end of the shaft. Pump shaft shall be stainless steel with no sleeve. Pump shall be directly coupled to a C-face electric motor.
- Electric motor shall be of the squirrel cage induction type suitable for full voltage starting. Motor shall be ODP to aid in cooling. Electric motor shall be rated for continuous service. The motor shall have horsepower ratings such that the motor will carry the maximum possible load to be developed under the designed pumping conditions and not overload the motor beyond the nameplate rating of the motor. Motor shall have a 1.15 service factor. The motor shall conform to the latest NEMA Standards for motor design and construction.
- Pump Control Panel shall have a UL Listed Modular NEMA4X plain front non-metallic enclosure with stainless steel lockable latches. This includes power and control re-settable thermal circuit breakers or Time Delay Fuses, heavy duty magnetic starter with adjustable overload protection, Controls Relays, Control on/off Switch, Hand-Off-Auto switch to select mode of operation, heavy duty numbered terminal strips for power and control wiring lead terminations to land all field wiring, Ground Lugs, Motor wiring whip, VFD to remote panel wiring whip, and wiring schematic.
- If 24V control started, a Metal oxide varistor protected pump start relay shall be incorporated in panel to start pump with signal from an irrigation controller.
- All system piping shall be Schedule 10S 304 stainless steel. All major fittings shall be 304 stainless steel with flanges to allow for system disassembly or major component removal. All instrumentation fittings shall be 304SS. System shall incorporate an integral full pipe size bypass line with isolation valve to allow for pump removal and repair without disrupting water supply to system.
- Isolation valves shall be all stainless quarter turn ball valves with hard chrome ball on lines 2" and less. Isolation valves shall be lug style butterfly valves with Buna-N elastomeric seats, ductile iron nickel coated disc, and stainless steel stem with handle and 10 position galvanized memory plate on lines 2 1/2" and greater.
- Gauges shall be 2 1/2" diameter face, glycerin filled with stainless casing and brass internals.
- Flow switch shall be a 316 stainless steel and solid state thermal sensor designed to measure change in flow velocity and in temperature. The flow switch shall include an integrated bar graph with 10 LED lights and shall be capable of providing indication of flow (green), closed (orange), and open (red) conditions.
- Pump system shall be mounted on a structural aluminum skid with mounting flanges on front and back to allow for mounting of skid to concrete pad. Skid equipped with pipe support on suction and discharge piping. All nuts and bolts and washers shall be stainless steel on skid and piping. Skid shall include mounting hardware for integral aluminum enclosure.
- The system enclosure shall be vandal and weather resistant, marine grade aluminum alloy 5052-H32 construction with rectangular punch-outs for viewing and heat dissipation. The enclosure shall be low profile hinged top design with padlock provision. The cover shall be secured to the concrete pad with stainless steel hardware. The enclosure shall measure 30D" x 42W" x 30H" and concrete pad dimensions shall be 42" x 54". The enclosure shall be as manufactured by V.I.T. Products, Inc.
- Pump Assembly shall include the following option(s):
  - (VFD-F) Where specified by the System Design Parameters, a **Fuji Variable Frequency Drive** system to receive feedback signal from system mounted stainless steel pressure transducer, and in conjunction with internal software driven PID control loop maintain customer adjustable constant system discharge pressure by varying the speed of the pump in response to varying system load.
- The services of a factory representative or trained service professional shall be made available on the job site to check installation and perform the startup and instruct the operating personnel. A startup report containing voltage and amperage readings, suction and discharge pressure readings, estimated flow conditions, and general operating characteristics shall be submitted to the Owner.
- One electronic set of operating and maintenance manual shall be provided to the owner after startup and shall include parts manuals for major components, performance curve for pump, general sequence of operation, and electrical schematic for control panel.
- The warranty period shall be a non-prorated period of 36 months from date of purchase.



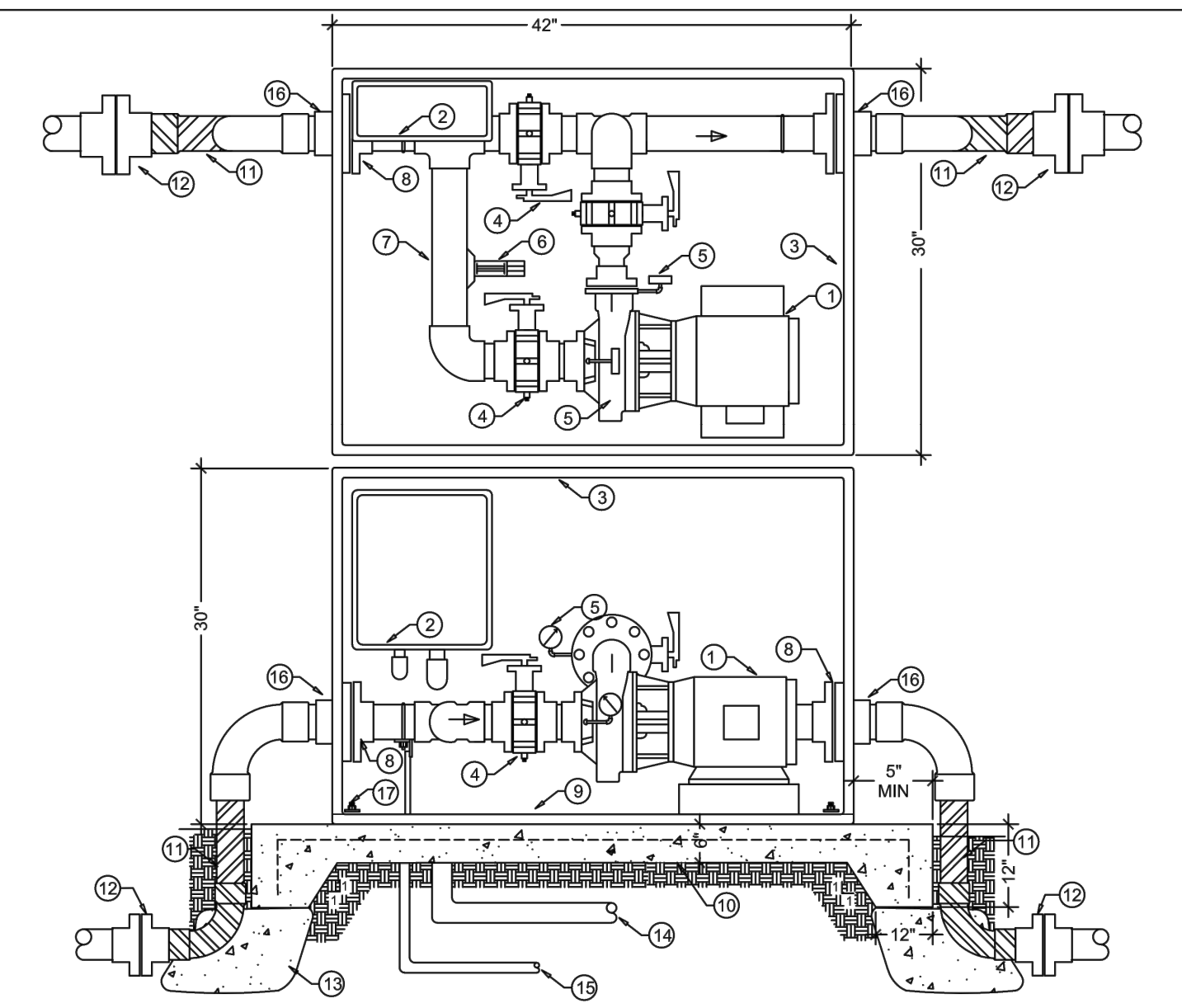
## SMOOTH TOUCH BACKFLOW COVER

4

FLOW METER INSERT  
INSTALLATION

## CALSENSE FLOW METER INSERT INSTALLATION

5



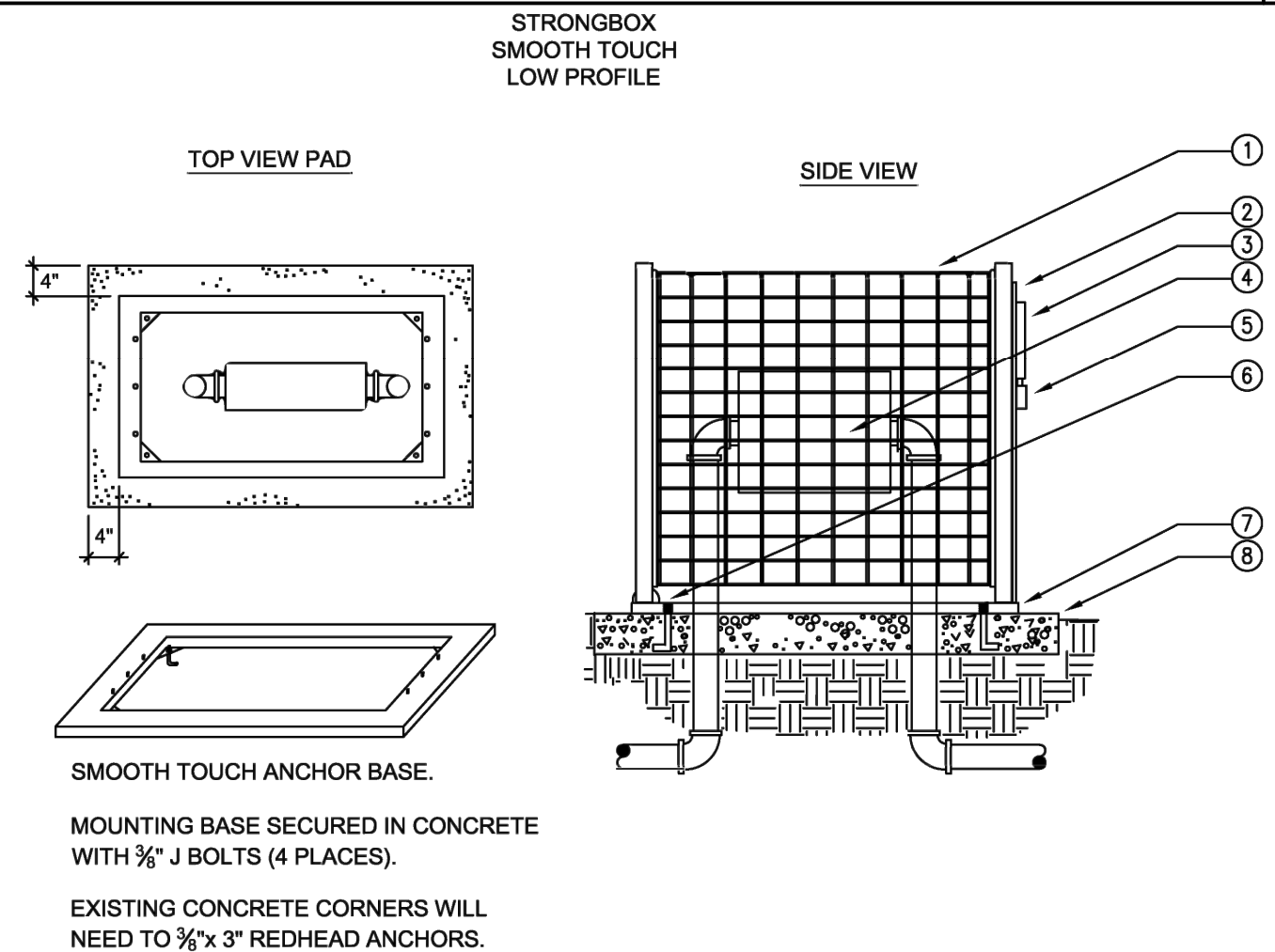
## KEYNOTE LEGEND

- CLOSE-COUPLED END SUCTION CENTRIFUGAL PUMP, CAST IRON BRONZE FITTED, BACK PULLOUT DESIGN, MECHANICAL SEAL, ODP MOTOR.
- NEMA 4 ENCLOSED CONTROL PANEL, WITH CIRCUIT BREAKER, MAGNETIC STARTER, HOA SWITCH, AND COMPONENTS FOR AUTOMATIC BOOSTER PUMP CONTROL.
- MARINE GRADE ALUMINUM ENCLOSURE, TOP HINGED DESIGN WITH VENTING.
- CAST IRON ELASTOMER LINED FULL LUG WAFER STYLE BUTTERFLY VALVE.
- PRESSURE GAUGE, 2 1/2" DIAL, LIQUID FILLED, STAINLESS CASE, 0 - 200 PSI.
- FLOW SWITCH, THERMAL DISPERSION, 150 PSI RATED.
- 2 1/2 INCH TYPE 304 STAINLESS STEEL.
- 150# ANSI RATED STAINLESS OUTPUT FLANGE.
- FABRICATED STRUCTURAL ALUMINUM BASEPLATE.
- 6" THICK CONCRETE PAD SET 2" ABOVE FINISH GRADE. USE #5 BAR 18" OC. BOTH WAYS AT MID-DEPTH. CONCRETE MIX TO BE PER STRUCTURAL REQUIREMENTS.
- DOUBLE WRAP WITH 20 MIL PIPE WRAP TAPE.
- COMPANION FLANGE CONNECTION.
- THRUST BLOCK OR JOINT RESTRAINT (BY OTHERS)
- MAIN POWER CONDUIT.
- IRRIGATION CONTROLLER SIGNAL CONDUIT.
- CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL INLET AND OUTLET PIPING; BRASS OR CAST IRON.
- (4) 1/2" DIA. KB-TZ SS 304, 2" MIN EMBEDMENT. INSTALL PER ICC-ESR 1917 TYP. EACH CORNER.

BARRETT ENGINEERED  
PUMPSSIZE DWG NO. LAKE PARK - HUNTINGTON BEACH REV  
SCALE SHEET IBH-LF-2.dwg

## BARRETT ENGINEERED PUMP

2



## LEGEND

- STRONGBOX SMOOTH TOUCH BACKFLOW CAGE SBBC-30SS.
- ENCLOSURE LOCKING SWING DOOR (DOOR MOUNTED TO ANCHOR BASE)
- PADLOCK PROTECTIVE COVER.
- BACKFLOW PREVENTER.
- PADLOCK.
- ENCLOSURE SWIVEL POINT ATTACHED TO MOUNTING BASE. ENCLOSURE SECURED TO BASE (6 PLACES)
- ANCHOR BASE MOUNT.
- POURED CONCRETE BASE, 6" MINIMUM THICKNESS, EXTEND 4" BEYOND OUTSIDE DIMENSIONS OF ENCLOSURE.

## BACKFLOW COVER

3

## BOOSTER PUMP ASSEMBLY

1

Underground Service Alert

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