



CITY OF SANTA ROSA

IMPROVEMENT PLANS FOR

FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION PROJECT

2060 W College Ave, Santa Rosa, CA 95401

GENERAL NOTES:

1. ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA STANDARD PLANS, THE CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS FOR THIS PROJECT AND THE STATE STANDARD SPECIFICATIONS AND STANDARD PLANS. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING ALL STANDARDS PERTAINING TO THIS PROJECT.
2. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARK OUTS OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH SECTION 5-1.36E OF THE SPECIAL PROVISIONS.
3. THE LOCATIONS OF UNDERGROUND UTILITIES AND OTHER OBSTACLES SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL POT HOLE AND DETERMINE THE EXACT LOCATION OF ALL POTENTIAL CONFLICTS IN ACCORDANCE WITH U.S.A. LAWS AND THESE SPECIAL PROVISIONS AND THE STANDARD SPECIFICATIONS. IF ANY UNMARKED UTILITIES ARE ENCOUNTERED, OR IF UNABLE TO LOCATE A MARKED UTILITY AFTER POT HOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THAT UTILITY AND THE ENGINEER.
4. ALL SEWER MANHOLES, MAINLINE CLEANOUTS AND WATER VALVES THAT ARE ON ACTIVE SYSTEMS SHALL BE ACCESSIBLE TO CITY PERSONNEL AT ALL TIMES AND SHALL BE BROUGHT TO GRADE WITHIN 48 HOURS OF PAVING.
5. THE CONTRACTOR SHALL PROTECT AND PRESERVE CITY MONUMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER 10 WORKING DAYS IN ADVANCE FOR REFERENCING OF EXISTING MONUMENTS TO BE DISTURBED. THE CONTRACTOR SHALL RECONSTRUCT DISTURBED MONUMENTS IN ACCORDANCE WITH CITY STANDARD 280.
6. OVERHEAD UTILITY SERVICE DROPS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF LIMITED CLEARANCES UNDER OVERHEAD UTILITY LINES AND LOW HANGING TREE BRANCHES. THE CONTRACTOR'S TRUCKS AND EXCAVATION EQUIPMENT SHALL BE SIZED SO THAT OVERHEAD WIRES AND TREE BRANCHES ARE NOT DAMAGED.
7. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AS GENERATED AND AT NO TIME SHALL THE CONTRACTOR PLACE EXCAVATED MATERIAL AT THE WORK SITE.
8. THE CONTRACTOR SHALL ONLY REMOVE EXISTING TREES OR SHRUBS AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
9. FOR CLARITY OF EXISTING SUBSURFACE CONDITIONS, NOT ALL CROSSWALKS, STOP BARS, OR EXISTING PAVEMENT MARKINGS ARE SHOWN ON THE PLANS. TRAFFIC STRIPES, RAISED PAVEMENT MARKERS AND PAVEMENT MARKINGS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED PER CITY OF SANTA ROSA TRAFFIC STANDARDS PART III, TRAFFIC MARKINGS. PATCHING OF DAMAGED MARKINGS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER. ALL DAMAGED RAISED PAVEMENT (NON-REFLECTIVE) MARKERS MUST BE CERAMIC.
10. CONTRACTOR SHALL CAREFULLY PRESERVE ALL BENCH MARKS, GRADE STAKES, AND ALL OTHER SURVEY MARKERS. IN THE CASE OF WILLFUL OR CARELESS DESTRUCTION, CONTRACTOR SHALL BEAR THE COST OF REPLACING THE MARKERS. CONTRACTOR SHALL CONTACT THE ENGINEER DIRECTLY FOR COORDINATION OF SURVEY STAKING. WRITTEN STAKING REQUESTS MUST BE SUBMITTED AT LEAST TWO WORKING DAYS IN ADVANCE OF THE DATE AND TIME STAKES ARE NEEDED.

PROJECT DIRECTORY

LANDSCAPE ARCHITECT

GATES + ASSOCIATES
1655 N. MAIN STREET, STE 365,
WALNUT CREEK, CA 94596
PH: (925) 736-8176
CONTACT: DYLAN BUTERBAUGH

CIVIL ENGINEER

BKF ENGINEERS
200 4TH STREET, SUITE 300
SANTA ROSA, CA 95401
PH: (707) 583-8536
CONTACT: BECKY DOWER

AQUATICS DESIGNER

ARCHPAC AQUATICS
1341 DISTRIBUTION WAY, SUITE 11
VISTA, CA 92081
PH: (760) 734-1600
CONTACT: KEN MOELLER

ARCHITECT

COAR DESIGN GROUP
200 E ST
SANTA ROSA, CA 95404
PH: (619) 698-9177
CONTACT: MATT KINGDON

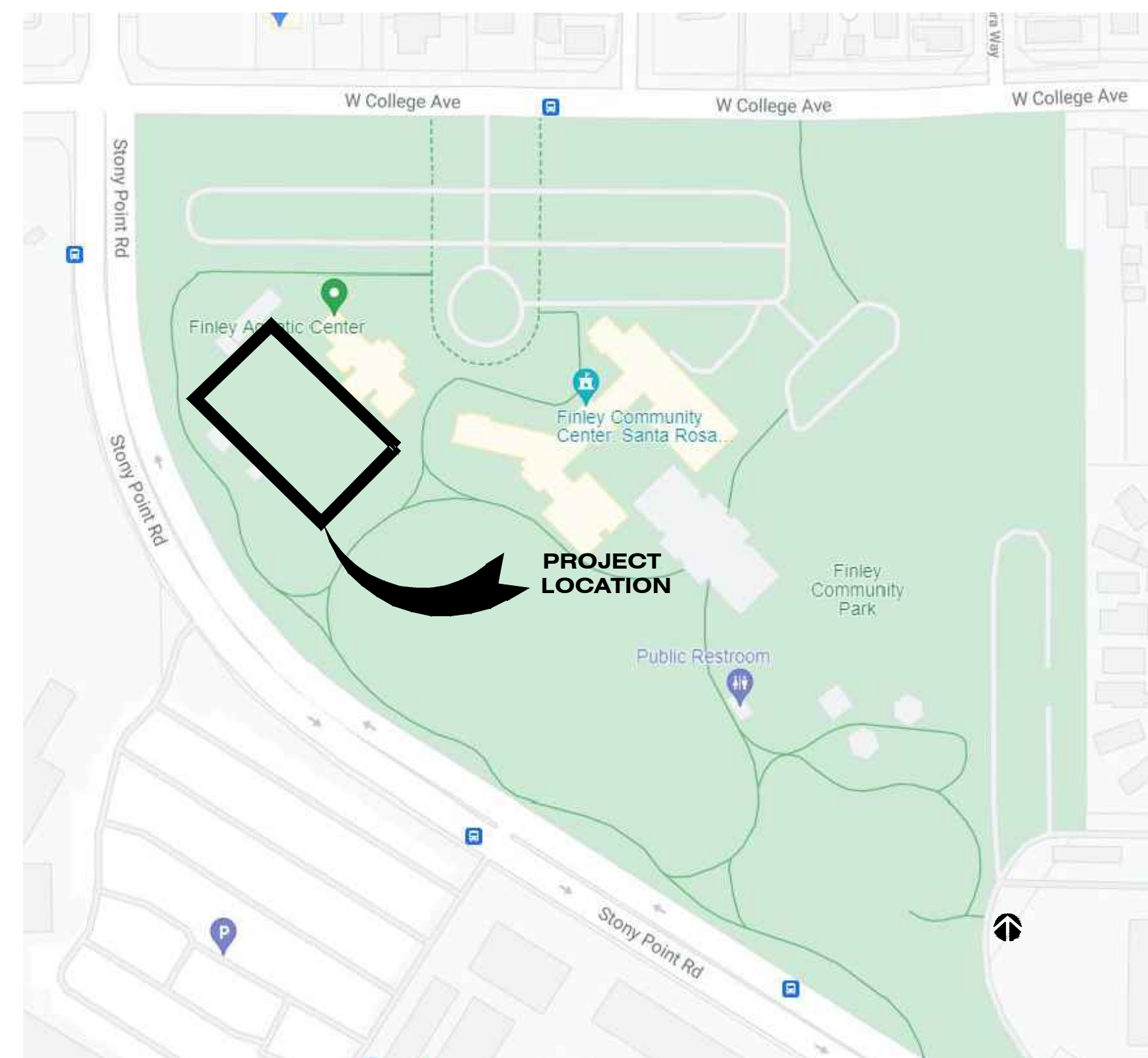
MEP ENGINEER

INTERFACE ENGINEERING
135 MAIN STREET, SUITE 400
SAN FRANCISCO, CA 94105
PH: (415) 489-7285
CONTACT: MIKE ESTRADA

STRUCTURAL ENGINEER

ZFA STRUCTURAL ENGINEERS
1212 FOURTH STREET, SUITE Z
SANTA ROSA, CA 95404
PH: (707) 526-0992
CONTACT: LUKE WILSON

CONTRACT No. C02336



LOCATION MAP NOT TO SCALE

BEFORE EXCAVATING
CALL U.S.A.
UNDERGROUND SERVICE ALERT
800-642-2444
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

ALL WORK TO BE COMPLETED BY A C-53 CONTRACTOR.

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Design/Const	Survey	IPW Field Svc's	Utilities Op's	Traffic	Parks	Storm Water	Dept.	Signature	Date
								<i>Lisa M. White</i>	

SCALE:	DATE:	CHK BY:	MO
DWN BY: DSS	06/09/2023	MO	

APPROVED:	Deputy Director - Engineering	Date
<i>[Signature]</i>		Jun 22, 2023

CONTRACT NO.	1 OF	68
C02336		

FILE NO. 2022-014

100% SUBMITTAL JUNE 09, 2023

FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION PROJECT G0.1 - COVER SHEET



City of
Santa Rosa



GATES ASSOCIATES
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LAND PLANNING - URBAN DESIGN
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TEL: 707.578.8175 WWW.GATESA.COM

NO.	DATE	REVISION	BY

DWN BY:	DSS
CHK BY:	MO
DATE:	06/09/2023
SCALE:	

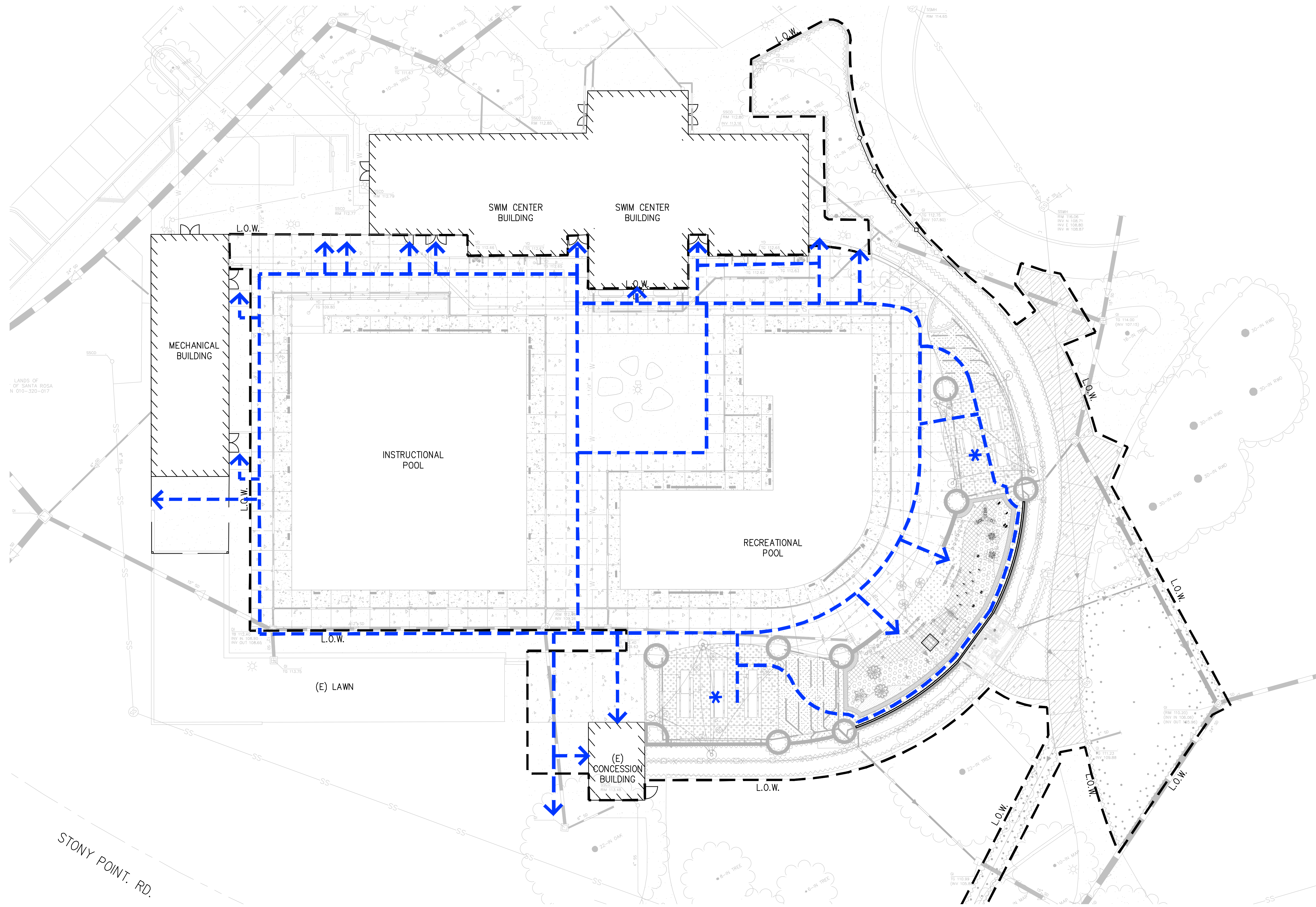
**FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT**

G0.2 - OVERALL ACCESSIBILITY PLAN

CONTRACT NO.
C02336

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ACCESSIBILITY NOTES

ALL IMPROVEMENTS SHALL MEET THE 2016 CALIFORNIA BUILDING CODE & 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN FOR THE PURPOSE OF PROVIDING BARRIER FREE ACCESS WITHIN THE RECREATION AREA

- MAXIMUM SLOPE OF RAMPS: 8.33%
- MINIMUM CLEAR WIDTH OF ACCESSIBLE ROUTES: 48"
- MAXIMUM LONGITUDINAL SLOPE OF WALKWAYS: 5%
- MAXIMUM CROSS SLOPE: 2%

LEGEND

- ACCESSIBLE PATH OF TRAVEL
- WHEELCHAIR ACCESSIBLE PICNIC AREA

STONY POINT RD.



City of Santa Rosa



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TEL: 707.538.1176 WWW.GATESA.COM

NO.	DATE	REVISION	BY

DWN BY: DSS	CHK BY: MO	DATE: 06/09/2023	SCALE:
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**FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT**

G0.3 PHASING & STAGING PLAN

CONTRACT NO.
C02336

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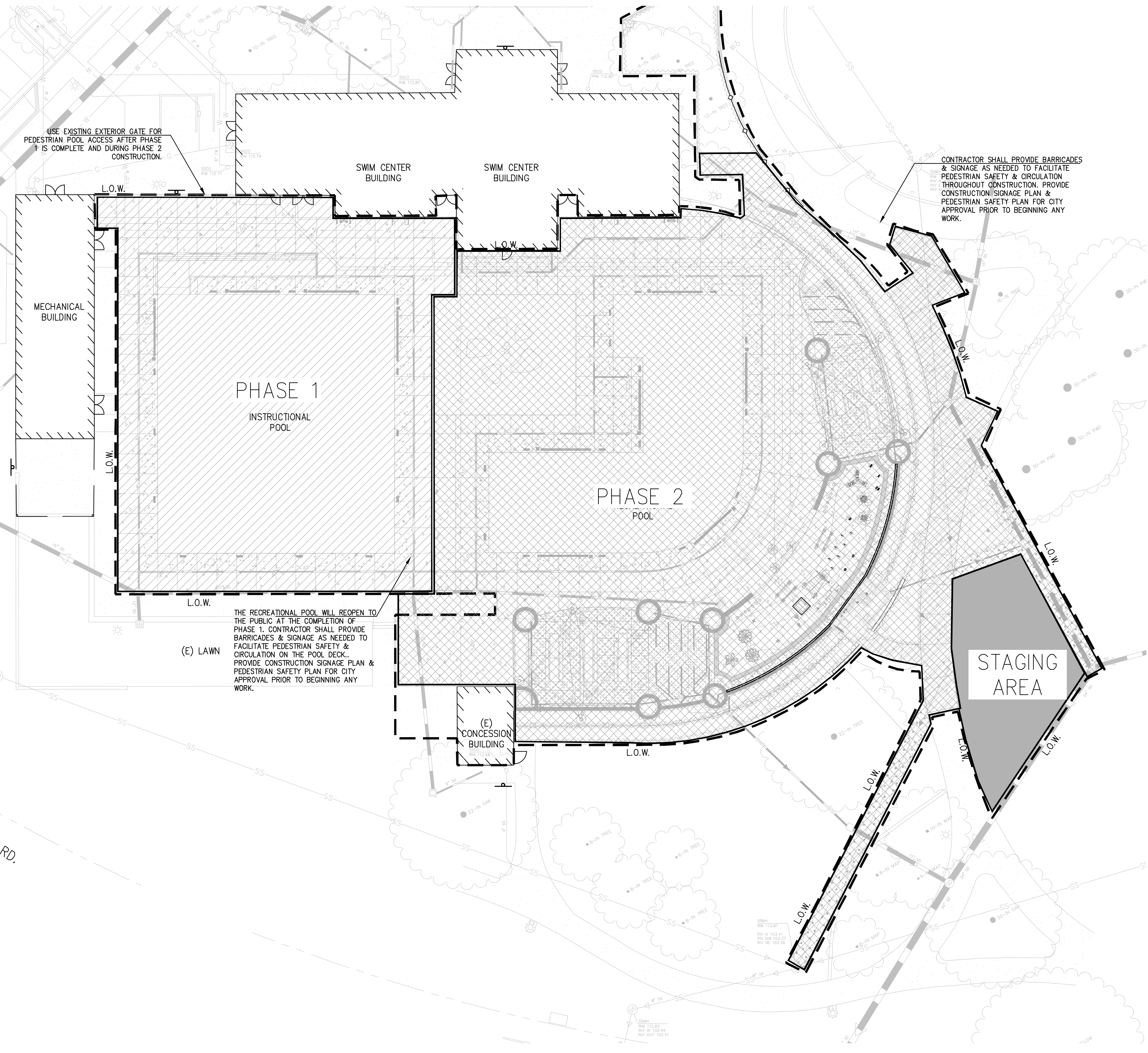
FILE NO. 2022-014

LEGEND

- PROJECT INFORMATION SIGNS, 4'X4' MIN MOUNTED ON 4X4 POSTS, MESSAGE TBD.
- PHASE 1
- PHASE 2
- CONSTRUCTION STAGING

CONSTRUCTION STAGING NOTES

- THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ENGINEER.
- ALL APPLICABLE REQUIREMENTS OF THE CALIFORNIA CONSTRUCTION AND GENERAL INDUSTRY SAFETY ACT, THE OCCUPATIONAL SAFETY AND HEALTH ACT AND THE CONSTRUCTION SAFETY ACT SHALL BE MET.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.
- THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR FAILURE TO DO SO.
- THE CONTRACTOR MUST PROVIDE FOR SAFE ACCESSIBLE INGRESS AND EGRESS FOR ADJACENT PROPERTY OWNERS AND EVA THROUGHOUT THE PERIOD OF CONSTRUCTION. TEMPORARY THROUGH ACCESS FOR THE GENERAL PUBLIC DUE TO CONSTRUCTION STAGING OR LIMITATIONS MUST BE FULLY REVIEWED AND APPROVED BY THE OWNER PRIOR TO IMPLEMENTATION. ALL ACCESS MUST BE SAFE, SECURED, FLAGGED, SIGNED, AND ACCESSIBLE PER THE APPROVED SITE ACCESS PLAN SUBMITTED BY THE CONTRACTOR AND REQUIRED BY THE OWNER.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMERGENCY VEHICLE ACCESS, PUBLIC SAFETY AND SAFETY OF EXISTING STRUCTURES. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, FENCING, BARRICADES, TRAFFIC CONTROLS, FLAGGERS, SHORINGS, BRACING AND GUYS OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY IN ACCORDANCE WITH ALL NATIONAL, STATE SPECS AND LOCAL SAFETY ORDINANCES.
- THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE.
- SURFACE MOUNTED, GALVANIZED, TEMPORARY METAL CHAIN LINK CONSTRUCTION FENCING SHALL BE MIN. 6' HIGH, 11 1/2" TO 9" GAUGE, 2 1/2" TO 2" MESH SIZE, AND SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT, AND BE REMOVED IMMEDIATELY AFTER PROJECT ACCEPTANCE. TEMPORARY CONSTRUCTION SIGNAGE SHALL CONFORM TO CITY OF UNION CITY REQUIREMENTS, SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT, AND BE REMOVED IMMEDIATELY AFTER PROJECT ACCEPTANCE.
- CONTRACTOR SHALL PROVIDE PARKING LOT ACCESS AND PEDESTRIAN ACCESS FOR ADJACENT BUSINESSES & RESIDENTS FOR THE DURATION OF THE PROJECT. CONTRACTOR TO SUBMIT THE FOLLOWING PLANS TO CITY INSPECTOR FOR APPROVAL PRIOR TO BEGINNING ANY WORK. WORK SHALL NOT START WITHOUT CITY APPROVED PLANS:
 - CONSTRUCTION FENCING PLAN
 - CONSTRUCTION SIGNAGE PLAN
 - VEHICLE TRAFFIC CONTROL PLAN
 - PEDESTRIAN SAFETY PLAN
 - FIRE ACCESS PLAN
- ALL STAGING AREAS SHALL COMPLY WITH SECTION 7-1.04 "PUBLIC SAFETY" AS WELL AS SECTION 13-4.03C STOCKPILE MANAGEMENT.
- THE RIGHT OF WAY SHALL BE USED ONLY FOR PURPOSES THAT ARE NECESSARY TO PERFORM THE REQUIRED WORK. THE CONTRACTOR SHALL NOT OCCUPY THE RIGHT OF WAY OR ALLOW OTHERS TO OCCUPY THE RIGHT OF WAY FOR PURPOSES WHICH ARE NOT NECESSARY TO PERFORM THE REQUIRED WORK.
- THERE ARE NO CITY-OWNED PARCELS ADJACENT TO THE RIGHT OF WAY FOR THE EXCLUSIVE USE OF THE CONTRACTOR WITHIN THE CONTRACT LIMITS.
- RESIDENCE TRAILERS SHALL NOT BE ALLOWED WITHIN THE CITY RIGHT OF WAY.
- THE CONTRACTOR SHALL SECURE AT HIS/HER OWN EXPENSE ANY AREA REQUIRED FOR PLANT SITES, STORAGE OF EQUIPMENT OR MATERIALS, OR FOR OTHER PURPOSES IF SUFFICIENT AREA IS NOT AVAILABLE TO HIM WITHIN THE CONTRACT LIMITS, OR AT THE SITES DESIGNATED ON THE PLANS OUTSIDE THE CONTRACT LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS AND SHALL DEMONSTRATE TO THE ENGINEER THAT SUCH PERMITS HAVE BEEN OBTAINED BEFORE COMMENCING USE.
- IN ADDITION, THE CONTRACTOR SHALL PROVIDE THE CITY ENGINEER WITH A COPY OF ALL PRIVATE PROPERTY USE AGREEMENT LETTERS. THESE LETTERS SHALL CLEARLY STATE THE SPECIFIC USE OF SAID PROPERTIES, LENGTH OF USE AND FORM OF REMUNERATION (IF ANY). THESE LETTERS ARE TO BE DATED AND SIGNED BY THE PROPERTY OWNERS AND THE AUTHORIZED CONTRACTOR REPRESENTATIVE.
- THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT, MATERIALS, AND RUBBISH FROM THE WORK AREAS AND OTHER PROPERTY WHICH HE/SHE OCCUPIES AND SHALL LEAVE THE AREAS IN A PRESENTABLE CONDITION IN ACCORDANCE WITH THE PROVISIONS IN SECTION 4-1.13, "CLEANUP," OF THE STANDARD SPECIFICATIONS.
- REFER TO SPECIAL CONDITIONS WITHIN PROJECT SPECS FOR ADDITIONAL STAGING REQUIREMENTS.



USE EXISTING EXTERIOR GATE FOR PEDESTRIAN POOL ACCESS AFTER PHASE 1 IS COMPLETE AND DURING PHASE 2 CONSTRUCTION.

CONTRACTOR SHALL PROVIDE BARRICADES & SIGNAGE AS NEEDED TO FACILITATE PEDESTRIAN SAFETY & CIRCULATION THROUGHOUT CONSTRUCTION. PROVIDE CONSTRUCTION SIGNAGE PLAN & PEDESTRIAN SAFETY PLAN FOR CITY APPROVAL PRIOR TO BEGINNING ANY WORK.

PHASE 1
INSTRUCTIONAL POOL

PHASE 2
POOL

STAGING AREA

THE RECREATIONAL POOL WILL REOPEN TO THE PUBLIC AT THE COMPLETION OF PHASE 1. CONTRACTOR SHALL PROVIDE BARRICADES & SIGNAGE AS NEEDED TO FACILITATE PEDESTRIAN SAFETY & CIRCULATION ON THE POOL DECK. PROVIDE CONSTRUCTION SIGNAGE PLAN & PEDESTRIAN SAFETY PLAN FOR CITY APPROVAL PRIOR TO BEGINNING ANY WORK.

(E) CONCESSION BUILDING

(E) LAWN

GENERAL NOTES

ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE CURRENT CITY OF SANTA ROSA DESIGN AND CONSTRUCTION STANDARDS AND CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.

CONTRACTOR SHALL OBTAIN AND PAY FOR ALL CONSTRUCTION PERMITS REQUIRED BY THE CITY OF SANTA ROSA (SUCH AS ENCROACHMENT, GRADING, BUILDING, DEMOLITION ETC.) PRIOR TO COMMENCEMENT OF WORK.

THE CONTRACTOR SHALL OBTAIN A DE-WATERING PERMIT FROM THE NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD FOR DE-WATERING OPERATIONS THAT ARE USED TO MANAGE THE REMOVAL OF GROUND WATER FROM EXCAVATIONS AND THEIR DISCHARGE TO THE WATERS OF THE STATE OR THE STORM DRAIN SYSTEM. APPROVAL MUST BE OBTAINED FROM THE CITY OF SANTA ROSA ENVIRONMENTAL COMPLIANCE DIVISION PRIOR TO DISCHARGING GROUNDWATER TO THE SEWER.

TEMPORARY STOCKPILES SHALL NOT BE LOCATED WITHIN CREEK SETBACK AREAS, PROTECTED VEGETATION/TREE AREAS OR WITHIN 10 FEET OF AN ADJACENT RESIDENTIAL PROPERTY LINE. STOCKPILES TALLER THAN 2.5 FEET SHALL NOT BE WITHIN 50 FEET OF AN ADJACENT RESIDENTIAL PROPERTY LINE.

TEMPORARY STOCKPILES MUST BE REMOVED BY COMPLETION OF GRADING ACTIVITIES UNLESS A SEPARATE TEMPORARY USE PERMIT AND GRADING PERMIT IS OBTAINED FOR THE STOCKPILE.

CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH.

CONTRACTOR SHALL HIRE THE SERVICES OF A PROFESSIONAL LAND SURVEYOR FOR CONSTRUCTION STAKING IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

IF CONTAMINATED MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, WORK MUST STOP UNTIL A WORK PLAN HAS BEEN APPROVED IN WRITING BY THE CITY FIRE DEPARTMENT AND THE NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD (NCRWQCB). HAZARDOUS MATERIAL SHALL BE REMOVED AND DISPOSED OF ACCORDING TO THE REQUIREMENTS OF THE CITY'S FIRE DEPARTMENT. THE APPLICANT IS REQUIRED TO DEMONSTRATE COMPLIANCE WITH STATE AND LOCAL CODES FOR REMOVAL OF ASBESTOS CONTAINING MATERIALS DURING DEMOLITION OF THE STRUCTURES ON THE PROJECT SITE.

ALL TRENCH SPOILS SHALL BE REMOVED AS THEY ARE GENERATED OR DISPOSED OF ON SITE AS REQUIRED BY THE GRADING PERMIT. EXCESS/UNSUITABLE MATERIAL DISPOSED OF OFFSITE AT AN APPROVED LOCATION BY ENGINEERING DEVELOPMENT SERVICES. CONTAIN AND SECURELY PROTECT STOCKPILED TRENCH BACKFILL AND WASTE MATERIAL FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED. DO NOT BLOCK STORM WATER FLOWS.

ALL UNDERGROUND IMPROVEMENTS INCLUDING SEWER LINES, WATER LINES, STORM DRAINS, PUBLIC UTILITY FACILITIES, AND SERVICES SHALL BE INSTALLED, TESTED, AND ACCEPTED BY THE UTILITIES AND PUBLIC WORKS DEPARTMENTS PRIOR TO FINAL SURFACING.

THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL, THE OWNER AND THEIR CONSULTANTS, AND THE CITY OF SANTA ROSA, AND EACH OF THEIR OFFICERS, EMPLOYEES, AND AGENTS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

THE LOCATIONS OF UNDERGROUND OBSTRUCTIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND SHOULD NOT BE TAKEN AS FINAL OR ALL INCLUSIVE. THE CONTRACTOR IS CAUTIONED THAT THE DRAWINGS MAY NOT INCLUDE ALL EXISTING UTILITIES INCLUDING SEWERS AND STORM DRAINS.

THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES INCLUDING SEWERS AND STORM DRAINS PRIOR TO ANY TRENCHING TO ALLOW THE ENGINEER TO VERIFY THE GRADE AND ALIGNMENT OF THE UTILITIES, AND TO VERIFY DESIGN ASSUMPTIONS AND EXACT FIELD LOCATION. EXISTING UTILITIES MAY REQUIRE RELOCATION AND/OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT REVISION DUE TO FIELD CONDITIONS.

UNDERGROUND FACILITIES NOT SHOWN ON THESE DRAWINGS SUCH AS PG&E, TELEPHONE, TV, IRRIGATION, ETC. SHALL BE COORDINATED AND CONSTRUCTED PRIOR TO PLACEMENT OF BASE ROCK AND PAVING.

CONSTRUCTION HOURS SHALL BE LIMITED FROM 7 AM TO 7 PM MONDAY THROUGH SATURDAY, EXCLUDING HOLIDAYS. THIS RESTRICTION INCLUDES THE START UP OF ANY MOTORIZED EQUIPMENT. ALL CONTRACTORS' EQUIPMENT SHALL BE PROPERLY MUFFLED AND SHALL BE SHUT DOWN WHEN NOT IN USE. (HOURS ARE SUBJECT TO THE CONDITIONS OF APPROVAL)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE OR DETERIORATION OCCURRING TO EXISTING PUBLIC IMPROVEMENTS AS A DIRECT RESULT OF CONSTRUCTION ACTIVITY (GRADING, ROAD CONSTRUCTION, UTILITY INSTALLATION, ETC.). REPAIR MAY REQUIRE PATCHING, SEALING OR OVERLAYING AFFECTED AREAS AS APPROPRIATE TO RETURN THE ROADS TO AT LEAST AS GOOD A CONDITION AS THEY WERE PRIOR TO CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACT IN A TIMELY MANNER, THE CITY MAY, AT ITS DISCRETION PERFORM THE CORRECTION AND CHARGE THE CONTRACTOR FOR ALL COSTS AND OVERHEAD INCURRED.

RECORD DRAWINGS SHALL BE PROVIDED TO THE CITY UPON COMPLETION OF PROJECT AND PRIOR TO FINAL ACCEPTANCE.

RECORD DRAWINGS SHALL INCLUDE SUB-DRAINS AND CLEAN-OUTS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER DURING CONSTRUCTION.

THE CONTRACTOR SHALL KEEP THE WORK SITE, STAGING AREAS AND OTHER AREAS USED BY IT IN A NEAT AND CLEAN CONDITION, AND FREE FROM ANY ACCUMULATION OF TRASH. THE CONTRACTOR SHALL DISPOSE OF ALL TRASH, RUBBISH AND WASTE MATERIALS OF ANY KIND GENERATED BY THE CONTRACTOR, SUBCONTRACTOR OR ANY COMPANY HIRED BY THE CONTRACTOR ON A DAILY BASIS. THE CONTRACTOR SHALL ALSO KEEP HAUL ROADS FREE FROM DIRT, RUBBISH, AND UNNECESSARY OBSTRUCTIONS RESULTING FROM SITE OPERATION. DISPOSAL OF ALL TRASH, RUBBISH AND DEBRIS MATERIALS SHALL BE IN A COVERED WASTE RECEPTACLE OR HAULED OFF SITE, IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES GOVERNING LOCATIONS AND METHODS OF DISPOSAL, AND IN CONFORMANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. WASTE RECEPTACLES SHALL BE COVERED AT THE END OF EVERY DAY AND DURING RAIN EVENTS.

ENSURE THE CONTAINMENT OF SANITATION FACILITIES (E.G., PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM, ROADS OR RECEIVING WATERS. SANITATION FACILITIES MUST BE MAINTAINED PERIODICALLY BY A LICENSED SERVICE COMPANY TO KEEP THEM IN GOOD WORKING ORDER AND PREVENT OVERFLOWS. PORTABLE TOILETS ARE REQUIRED TO HAVE SECONDARY CONTAINMENT.

EQUIPMENT AND MATERIALS NECESSARY FOR CONTROL OF SPILLS SHALL BE AVAILABLE ON SITE AT ALL TIMES. SPILLS AND LEAKS SHALL BE STOPPED AND THE MATERIAL CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY. USE PROPER BEST MANAGEMENT PRACTICES (BMPs) TO PREVENT OIL, GREASE, OR FUEL FROM LEAKING ON THE GROUND, INTO THE STORM DRAINS OR SURFACE WATERS.

CONTAIN CONCRETE WASHOUT AREAS AND SIMILAR AREAS THAT MAY CONTAIN POLLUTANTS TO PREVENT DISCHARGE INTO THE UNDERLYING SOIL OR ONTO THE SURROUNDING AREAS.

ESTABLISH AND MAINTAIN EFFECTIVE SITE PERIMETER CONTROLS AND STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES AND TRACKED MATERIALS FROM LEAVING THE SITE. AT A MINIMUM DAILY AND PRIOR TO ANY RAIN EVENT, THE CONTRACTOR SHALL REMOVE ANY SEDIMENT OR OTHER CONSTRUCTION ACTIVITY RELATED MATERIALS THAT ARE DEPOSITED ON THE ROADS (BY VACUUMING OR SWEEPING).

PLACE EQUIPMENT OR VEHICLES, WHICH ARE BEING FUELED, MAINTAINED AND STORED, IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPs.

ADA COMPLIANCE: CONSTRUCTION CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT (ADA) WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY. IF CONSTRUCTION CONTRACTOR'S WORK IN THE PUBLIC RIGHT-OF-WAY WILL AFFECT PEDESTRIAN ACCESS, THE CONSTRUCTION CONTRACTOR IS REQUIRED TO PROVIDE A PROPERLY SIGNED ACCESSIBLE ROUTE OF TRAVEL. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

IN THE EVENT THAT ANY REMAINS OF PREHISTORIC OR HISTORIC HUMAN ACTIVITIES ARE ENCOUNTERED DURING PROJECT-RELATED ACTIVITIES, WORK IN THE IMMEDIATE VICINITY OF THE FINDS SHALL HALT AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT SUPERINTENDENT AND THE CITY OF SANTA ROSA INSPECTOR. WORK SHALL NOT RESUME UNTIL A QUALIFIED ARCHAEOLOGIST OR HISTORIC ARCHAEOLOGIST, AS APPROPRIATE, APPROVED BY THE CITY OF SANTA ROSA, HAS EVALUATED THE SITUATION AND MADE RECOMMENDATIONS FOR TREATMENT OF THE RESOURCE, AND WHOSE RECOMMENDATIONS ARE CARRIED OUT. IF HUMAN BURIAL REMAINS ARE ENCOUNTERED, THE CONTRACTOR MUST ALSO CONTACT THE COUNTY CORONER.

GRADING NOTES

NO GRADING, CLEARING OR GRUBBING SHALL BE PERFORMED PRIOR TO ISSUANCE OF A GRADING PERMIT BY THE CITY OF SANTA ROSA.

DUST CONTROL SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION.

SITE GRADING SHALL BE DONE UNDER OBSERVATION OF THE PROJECT GEOTECHNICAL ENGINEER AND SHALL BE IN COMPLIANCE WITH CHAPTER 18 APPENDIX J, MOST RECENT EDITION OF THE CALIFORNIA BUILDING CODE AND THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT, TITLED GEOTECHNICAL EXPLORATION PREPARED BY ENGeo INCORPORATED AND DATED JUNE 1, 2021.

SOILS TO BE USED FOR SITE GRADING SHALL BE TESTED BY THE CONTRACTOR TO ILLUSTRATE ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS PRIOR TO SITE GRADING ACTIVITIES.

OVER EXCAVATION OF UNSUITABLE SOILS AND REPLACEMENT WITH SUITABLE SOILS SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

EXCESS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE TO AN AREA APPROVED BY THE CITY BUILDING DIVISION. APPROVALS MUST BE IN WRITING PRIOR TO REMOVAL OF MATERIAL.

DRAINAGE FROM UPSTREAM PROPERTIES SHALL NOT BE BLOCKED BY GRADING OR CONSTRUCTION OF IMPROVEMENTS.

THE CONTRACTOR SHALL PROTECT EXISTING DRAINAGE FACILITIES FROM SEDIMENTATION DURING ALL PHASES OF CONSTRUCTION.

HAZARDOUS MATERIAL SHALL BE REMOVED AND DISPOSED OF ACCORDING TO THE REQUIREMENTS OF THE CITY'S FIRE DEPARTMENT. THE APPLICANT IS REQUIRED TO DEMONSTRATE COMPLIANCE WITH STATE AND LOCAL CODES FOR REMOVAL OF ASBESTOS CONTAINING MATERIALS DURING DEMOLITION OF ANY STRUCTURES ON THE PROJECT SITE.

PRIOR TO ANY GRADING OPERATION, THE CONTRACTOR SHALL INSTALL PROTECTIVE FENCING AROUND THE DRIP LINE OF TREES TO BE SAVED IN COMPLIANCE WITH THE CITY TREE ORDINANCE. THE CUTTING, FILLING, PAVING OR TRENCHING WITHIN ROOT ZONES OF TREES TO BE SAVED MUST BE REVIEWED AND APPROVED BY A CITY APPROVED ARBORIST AND PERFORMED UNDER THEIR ON SITE SUPERVISION.

UTILITY GENERAL NOTES

THE USE OF CONTROLLED DENSITY BACKFILL (CDF) WITHIN ANY PUBLIC SEWER OR WATER TRENCH IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF UTILITIES.

THERE SHALL BE NO UNMETERED CONNECTIONS TO THE CITY OF SANTA ROSA WATER SYSTEM INCLUDING CONNECTIONS BYPASSING THE METER FOR TESTING ONSITE PLUMBING OR FOR OBTAINING CONSTRUCTION WATER. SUCH CONNECTIONS SHALL BE SEVERED BY THE UTILITY DEPARTMENT AND WILL RESULT IN PENALTIES, INCLUDING PAYMENT OF FINES AND ESTIMATED WATER USAGE FEES.

CONTRACTOR SHALL CONTACT CITY OF SANTA ROSA PUBLIC WORKS DEPARTMENT FOR FINAL INSPECTION OF ALL SEWER MAINS AND LATERALS, ALL SEWER MAINS AND LATERALS MUST BE CLEANED & MANDRELED PRIOR TO CITY ACCEPTANCE.

UTILITY TRENCH BACKFILL SHALL BE TESTED BY THE CONTRACTOR TO ILLUSTRATE ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS PRIOR TO USE. UTILITY TRENCH BACKFILLING SHALL BE OBSERVED BY THE PROJECT GEOTECHNICAL ENGINEER TO CONFIRM THAT IT IS PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS.

ALL PIPE LENGTHS SHOWN ARE MEASURED HORIZONTALLY FROM CENTER OF STRUCTURES.

STRIPING AND SIGNING NOTES

UNLESS OTHERWISE SHOWN ON PLAN, THE CONTRACTOR SHALL RESTORE EXISTING STRIPING, SIGNAGE, CURB PAINT, ETC. THAT IS DAMAGED OR REMOVED (AND DOES NOT CONFLICT WITH THE PROPOSED STRIPING & SIGNAGE IMPROVEMENTS) AS A DIRECT RESULT OF CONSTRUCTION ACTIVITY TO AT LEAST AS GOOD A CONDITION AS THEY WERE PRIOR TO CONSTRUCTION.

STRIPING AND SIGNING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF SANTA ROSA TRAFFIC STANDARDS. MATERIALS SHALL BE FURNISHED BY THE CONTRACTOR.

PROPOSED STRIPING AND MARKING SHALL BE INSTALLED THE SAME DAY AS THE REMOVAL OF THE EXISTING STRIPING AND MARKINGS. IF NOT, CONTRACTOR SHALL PROVIDE TEMPORARY PAVEMENT MARKERS UNTIL PROPOSED STRIPING AND MARKING ARE INSTALLED.

ALL STRIPING, PAVEMENT MARKING AND SIGNING SHALL CONFORM TO THE LATEST EDITION OF THE CALTRANS STANDARD PLANS, CALIFORNIA MUTCD AND CITY OF SANTA ROSA STREET TRAFFIC STANDARDS.

THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER A MINIMUM OF 48-HOURS PRIOR TO THE DAY OF LAYOUT OF THE PROPOSED SIGNING AND STRIPING. CONTACT TRAFFIC ENGINEERING AT 707-543-3814.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT AND CAT TRACKING OF ALL PROPOSED STRIPING AND MARKING. CAT TRACKING SHALL BE DONE A MINIMUM OF 48-HOURS PRIOR TO PROPOSED STRIPING AND MARKING TO ALLOW THE CITY TIME FOR REVIEW AND APPROVAL.

EXISTING STRIPING AND MARKING TO BE REMOVED SHALL BE REMOVED BY GRINDING BY THE CONTRACTOR.

PAVEMENT LEGENDS, CROSSWALKS AND STOP BARS SHALL BE INSTALLED BY USING THERMOPLASTIC IN ACCORDANCE WITH CALIFORNIA MUTCD AND CALTRANS STANDARD SUPPLEMENTAL SPECIFICATIONS. BIKE LANE LINES SHALL BE INSTALLED USING 6-INCH TAPE OR PAINT.

SIGNING AND STRIPING ARE TO BE WORKED ON CONCURRENTLY.

MAPPING NOTES

PRESERVE AND PERPETUATE EXISTING SURVEY MONUMENTATION WHICH WILL BE DISTURBED OR REMOVED TO FACILITATE THE PROPOSED IMPROVEMENTS. IF WORK WILL BE CONDUCTED IN AN AREA WHICH RESULTS IN THE DISTURBANCE OF MONUMENTATION, RETAIN THE SERVICES OF A LICENSED LAND SURVEYOR TO LOCATE SAID MONUMENTATION PRIOR TO DISTURBANCE. ADDITIONALLY, RETAIN THE SERVICES OF A LICENSED LAND SURVEYOR TO RE-ESTABLISH MONUMENTATION WHICH HAS BEEN DISTURBED AS A RESULT OF PROJECT CONSTRUCTION AND TO FILE THE APPROPRIATE DOCUMENTATION, PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771, WITH THE SONOMA COUNTY RECORDER ONCE CONSTRUCTION IS COMPLETE.

THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND AREA BASED ON OBSERVED TOPOGRAPHIC SURFACE FEATURES AND AVAILABLE INFORMATION. THE PROFESSIONAL PREPARING THIS MAP ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION.

TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED FROM A FIELD SURVEYS CONDUCTED BY BKF ENGINEERS ON MARCH 24TH AND NOVEMBER 12TH, 2021.

TREE DIAMETERS ARE MEASURED AT BREAST HEIGHT (±48-INCHES). DRIPLINE DIAMETERS AND TREE SPECIES ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY A CERTIFIED ARBORIST.

MISCELLANEOUS BOUNDARY INFORMATION SHOWN HEREON WAS OBTAINED FROM RECORD DATA PER RECORD OF SURVEY, FILED IN BOOK 466 AT PAGE 1, S.C.R.

BASES OF BEARINGS: CENTERLINE OF STONY POINT ROAD AS SHOWN ON THE RECORD OF SURVEY, FILED IN BOOK 466 AT PAGE 1, S.C.R.

BENCHMARK: CITY OF SANTA ROSA BENCHMARK D141: STONY POINT ROAD, 195-FT SOUTH OF WEST COLLEGE AVENUE; CITY DISK IN A WELL MONUMENT, CENTERLINE OF STONY POINT ROAD, AT NORTH END OF A CURBE 11/90. ELEVATION: 110.182

MATERIALS TABLE with columns: SURFACE TYPE, LOCATION, THICKNESS, CL2 BASE ROCK, SAND, NOTE

- 1. PROVIDE NUMBER 3 BARS AT 18-INCHES ON CENTER EACH WAY, WITHIN THE MIDDLE THIRD OF THE SLAB.
2. CONCRETE EXPANSION JOINTS SHALL BE FILLED WITH ELASTOMERIC SEALANT.
3. REFER TO THE LANDSCAPE DRAWINGS FOR JOINT DETAILS AND CONCRETE FINISH.
4. REFER TO THE DETAILS ON SHEETS C8.0 AND C8.1.

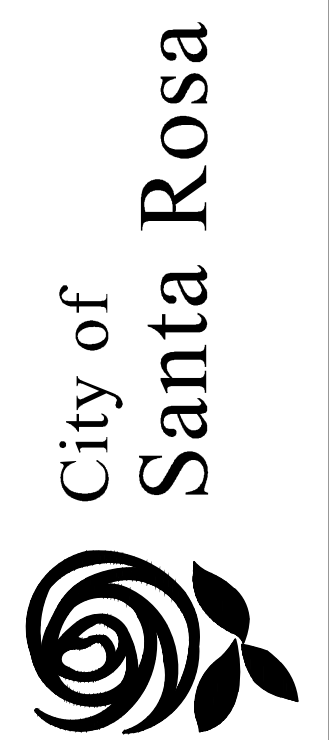
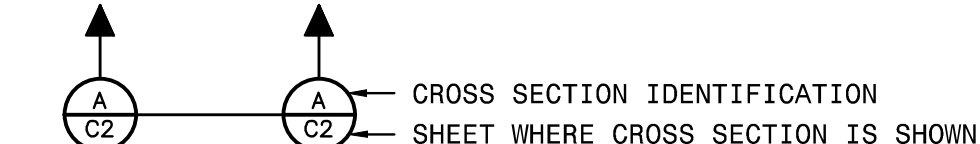
NOTES
THE CONTRACTOR IS REQUIRED TO REVIEW THE SOILS REPORT PREPARED FOR THIS PROJECT TO CONFIRM THESE CONDITIONS AND TO REVIEW SAID REPORT FOR SITE PREPARATION AND GRADING RECOMMENDATIONS.

ABBREVIATIONS

- ± MORE OR LESS (CONFORM TO EG)
AC ASPHALT CONCRETE
ADA AMERICANS WITH DISABILITIES ACT
APN ASSESSOR'S PARCEL NUMBER
BFP BACKFLOW PREVENTER
BLDG BUILDING
BLRD BOLLARD
BM BENCHMARK
CB CATCH BASIN
CL2 CLASS II
CO CLEAN OUT
CONC CONCRETE
CY CUBIC YARD
DI DROP INLET
E ELECTRIC
EG EXISTING GROUND
ELEV ELEVATION
EX EXISTING
FF FINISHED FLOOR
FG FINISHED GRADE
FT FOOT
G GAS
GB GRADE BREAK
GI GRATE INLET
GM GAS METER
HURL HANDRAIL
INV BOTTOM INSIDE OF PIPE
L LENGTH
MAX MAXIMUM
MH MANHOLE
MIN MINIMUM
MON MONUMENT
NO NUMBER
PERF PERFORATED
R RADIUS
RTWL RETAINING WALL
RWD REDWOOD
S= SLOPE
SD STORM DRAIN
SDCO STORM DRAIN CLEANOUT
SDMH STORM DRAIN MANHOLE
SS SANITARY SEWER
SSCO SANITARY SEWER CLEAN OUT
SSMH SANITARY SEWER MANHOLE
TB TOP OF BOX
TC TOP FACE OF CURB
TD TRENCH DRAIN
TG TOP OF GRATE
TW TOP OF WALL
TYP TYPICAL
UB UTILITY BOX
W WATER
WL WHITE LINE
WM WATER METER
YD YARD DRAIN

SYMBOLS & LEGEND

Diagrammatic symbols for EXISTING and PROPOSED features including benchmarks, valves, fire hydrants, catch basins, trees, property lines, various sewer and storm drain types, fences, utility lines, and invert/cleanout symbols.

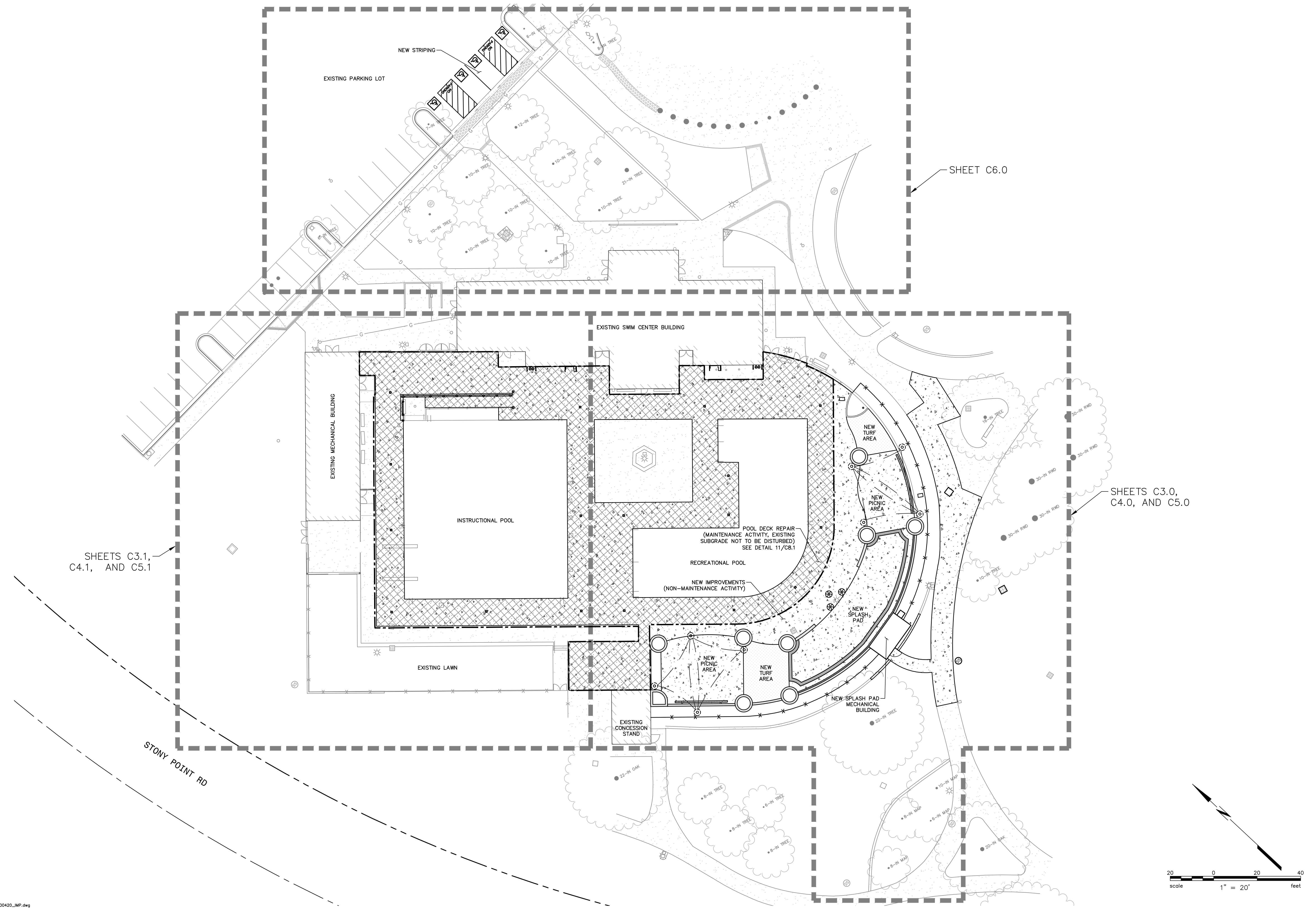


Revision table with columns: NO., DATE, REVISION, BY

DWN BY: BL
CHK BY: BD
DATE: 6/9/2023
SCALE: AS SHOWN

FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT
GENERAL NOTES, ABBREVIATIONS, AND LEGEND
C1.0

Plot Jun 02, 2023, at 2:05pm
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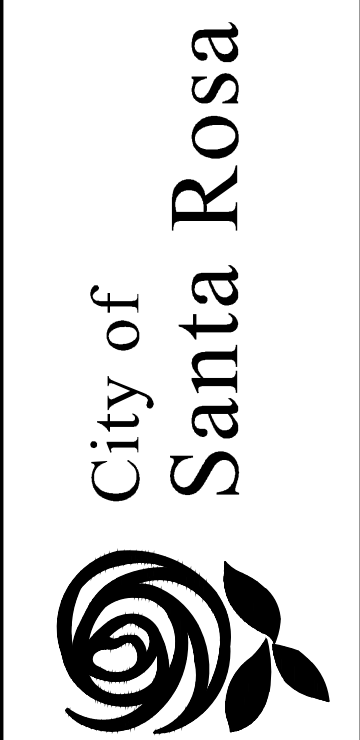
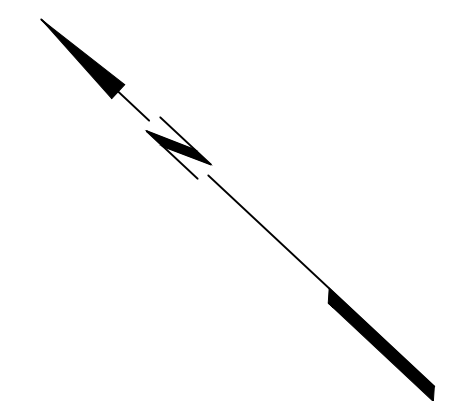
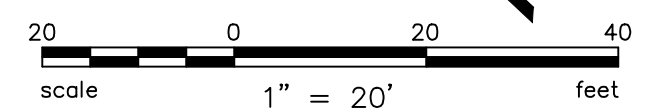


SHEETS C3.1,
C4.1, AND C5.1

SHEET C6.0

SHEETS C3.0,
C4.0, AND C5.0

STONY POINT RD



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DATE: 6/9/2023
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**FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT**

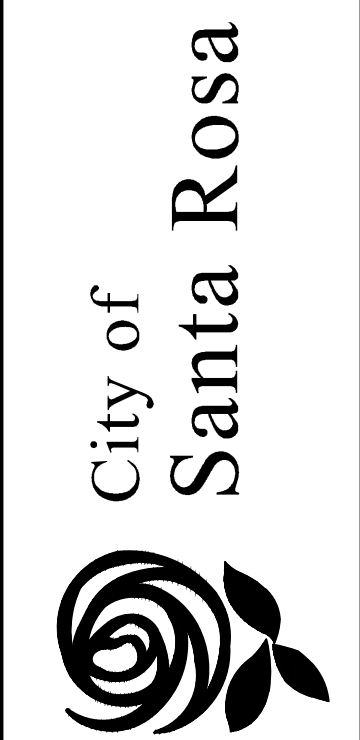
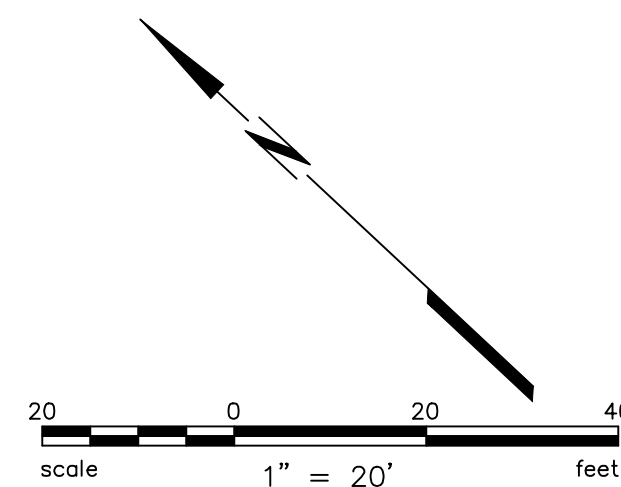
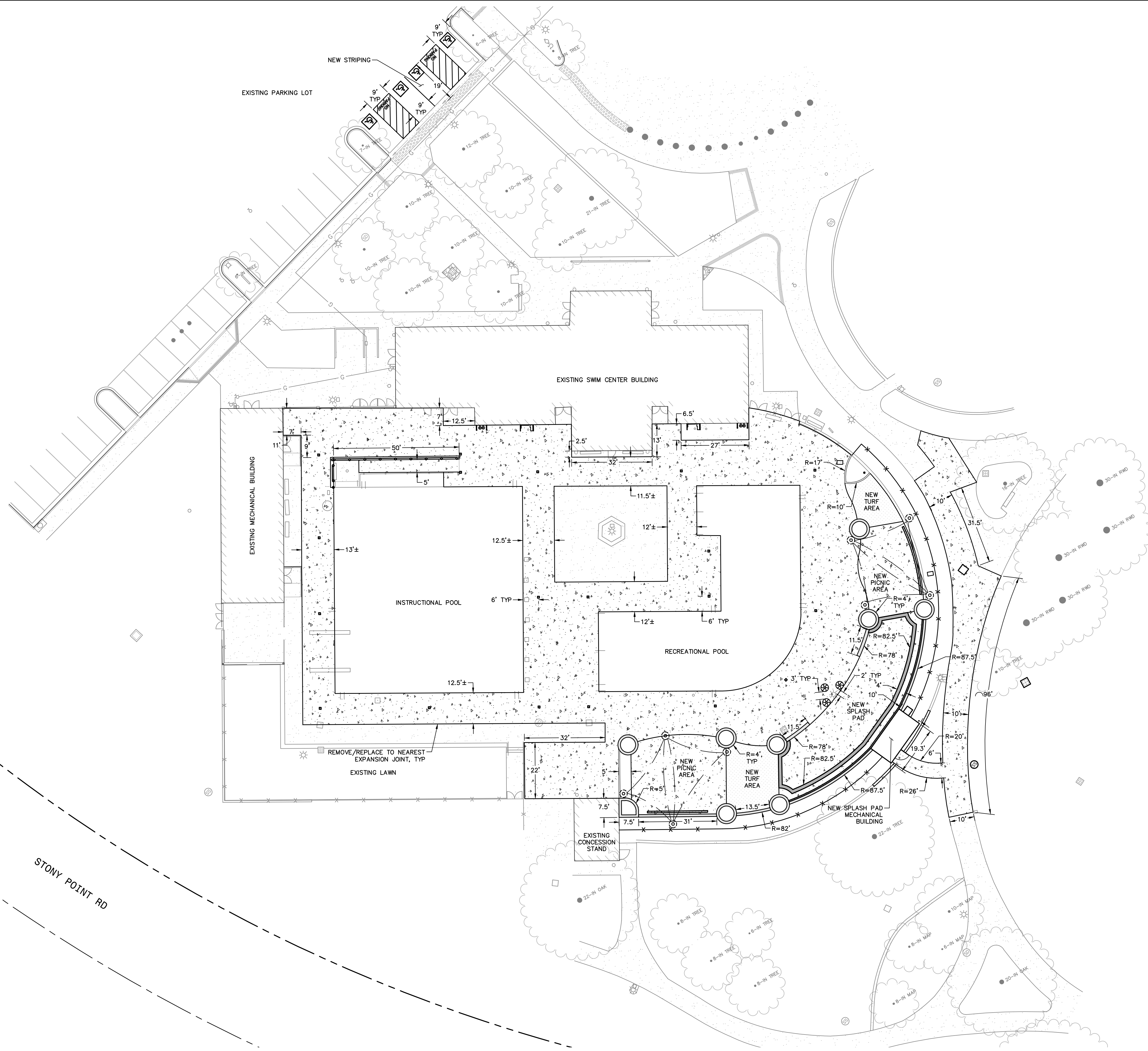
**C2.0
KEY MAP**

CONTRACT NO.
C02336

5 OF 68

FILE NO. 2022-014

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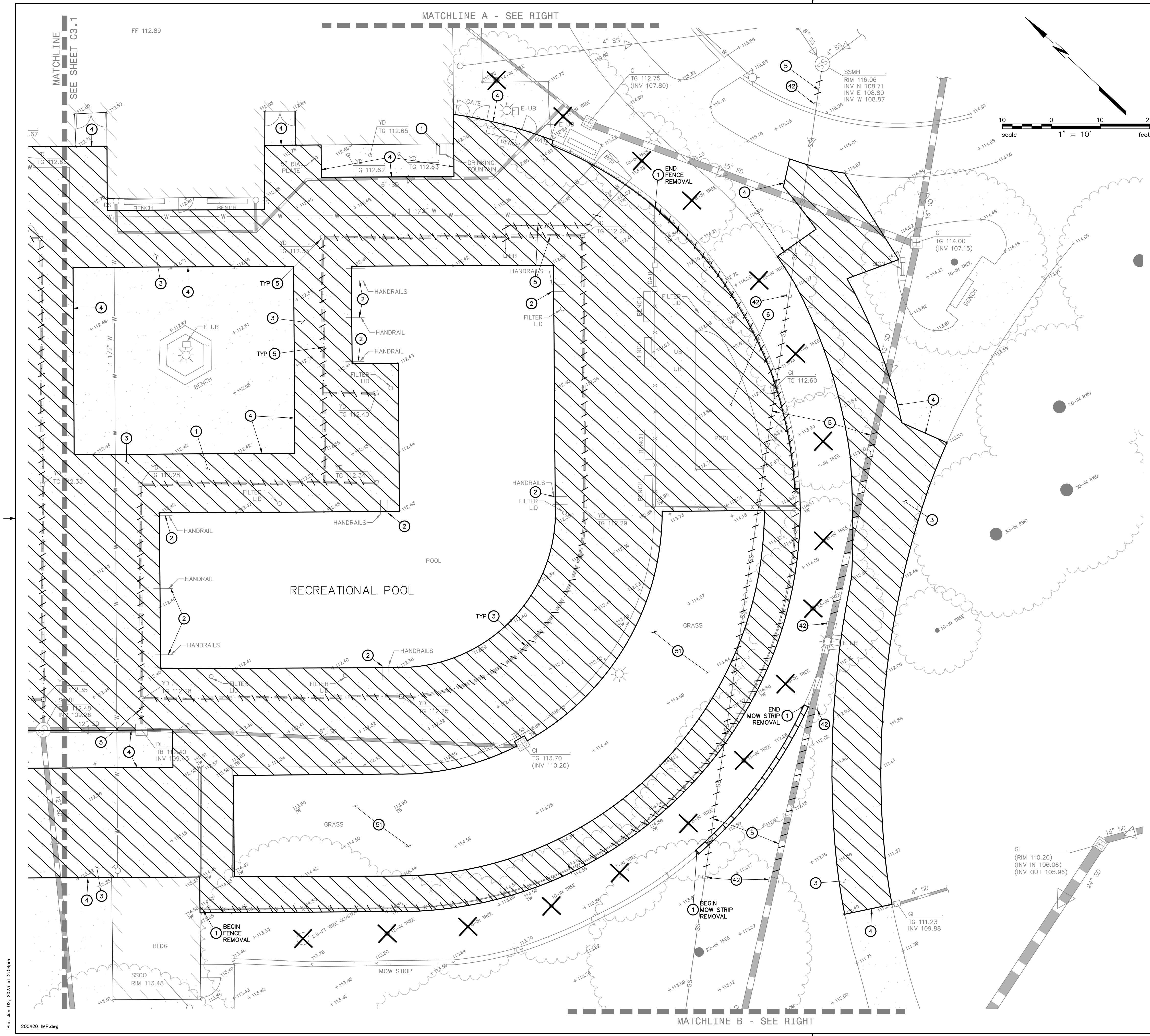
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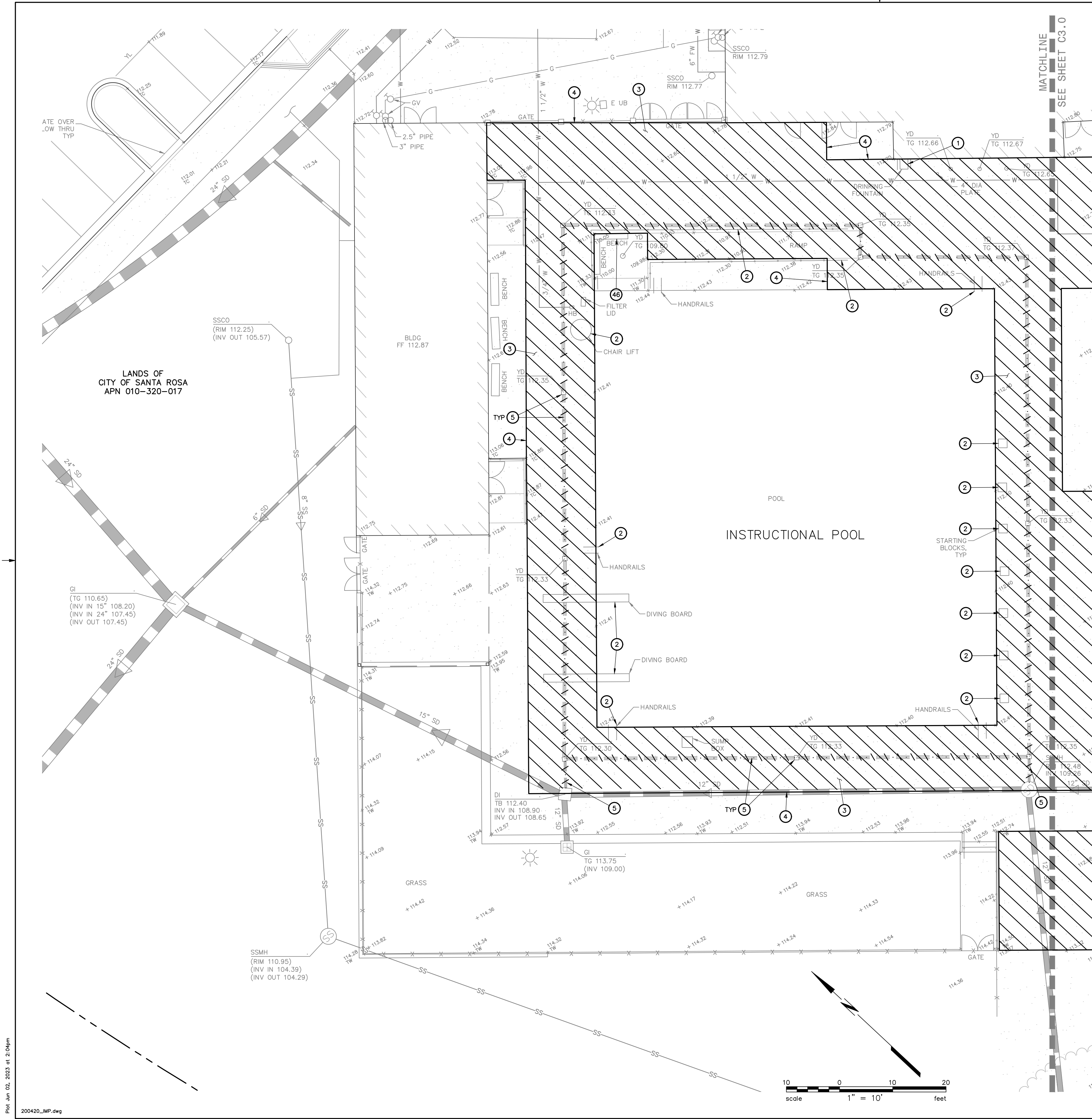
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**FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT**
**C2.1
HORIZONTAL CONTROL PLAN**

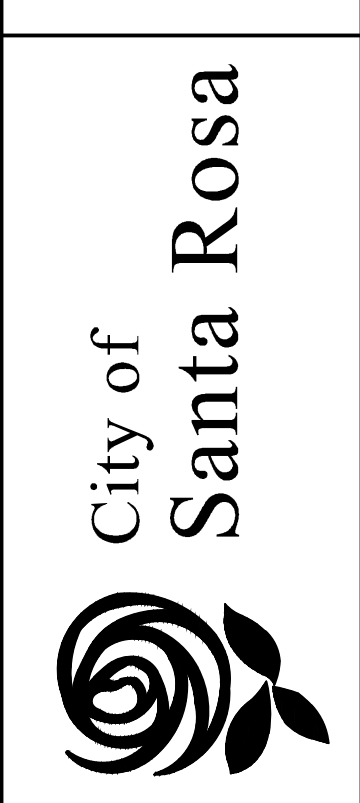
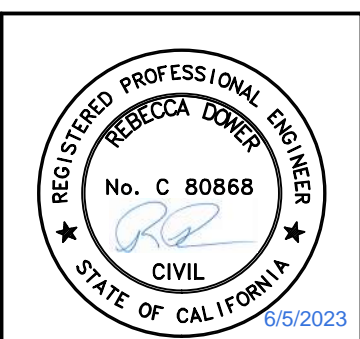
CONTRACT NO.
C02336
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FILE NO. 2022-014





- KEYNOTES:**
- ① REMOVE EXISTING FEATURE TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF UNUSED MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.
 - ② REMOVE EXISTING FEATURE WITHOUT DAMAGING AND PRESERVE FOR FUTURE RE-INSTALLATION.
 - ③ REMOVE EXISTING SURFACING MATERIAL TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF UNUSED MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS. REFER TO DETAILS 1 AND 2 ON SHEET C8.0.
 - ④ SAW CUT AND CLEANLY REMOVE EXISTING MATERIAL, OR REMOVE EXISTING MATERIAL TO THE NEAREST CONTROL JOINT WHERE APPLICABLE, TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF EXISTING MATERIALS IN ACCORDANCE WITH LOCAL REGULATIONS.
 - ⑤ REMOVE EXISTING UTILITY TO FACILITATE THE PROPOSED IMPROVEMENTS AND DISPOSE OF UNUSED MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.
 - ⑥ REMOVE EXISTING POOL INCLUDING SURFACING, SKIMMERS, FILTERS, DRAINS, RETURNS, AND ALL OTHER RELATED FEATURES AND DISPOSE OF UNUSED MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS. BACKFILL VOID WITH COMPACTED ENGINEERED FILL TO LINES AND GRADES NEEDED TO FACILITATE PROPOSED IMPROVEMENTS.
 - ④⑥ REMOVE EXISTING BENCH AND GROUT HOLES WITH CONCRETE.

ANY CONCRETE DEMOLITION AND REPLACEMENT WORK IMMEDIATELY ADJACENT TO THE POOLS WILL REQUIRE THAT THE POOLS BE DRAINED. CONTRACTOR SHALL COORDINATE POOL DRAINING WITH CITY STAFF TO ACCOMMODATE FOR DRAINAGE SYSTEM OPERATIONS DURING POOL DRAINING, INCLUDING OPERATION OF THE MONITORING WELL.



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**FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT**

**C3.1
DEMOLITION PLAN**

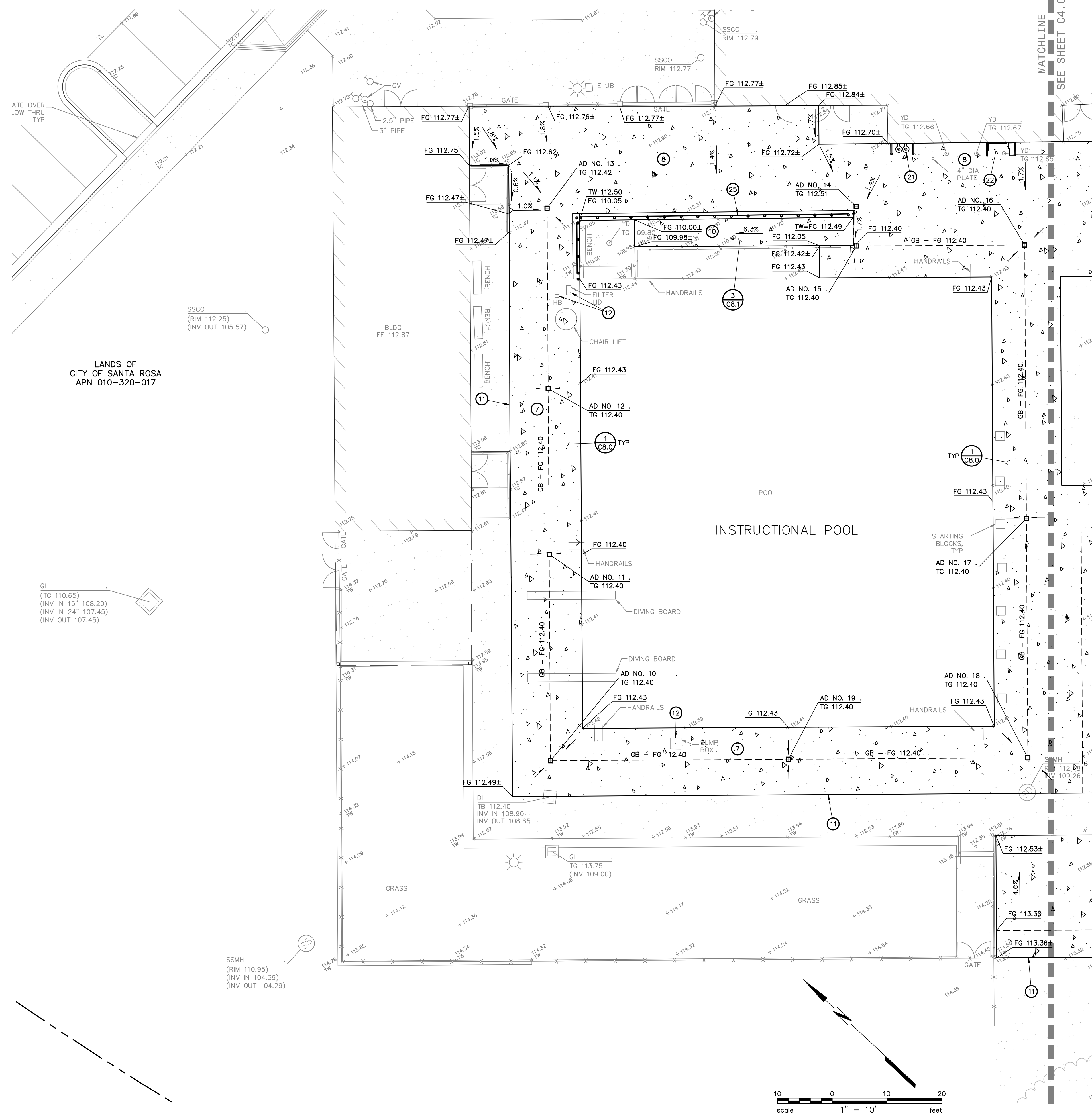
CONTRACT NO.
C02336

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FILE NO. 2022-014

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LANDS OF
CITY OF SANTA ROSA
APN 010-320-017

SSCO
(RIM 112.25)
(INV OUT 105.57)

GI
(TG 110.65)
(INV IN 15" 108.20)
(INV IN 24" 107.45)
(INV OUT 107.45)

SSMH
(RIM 110.95)
(INV IN 104.39)
(INV OUT 104.29)

10 0 10 20
scale 1" = 10' feet

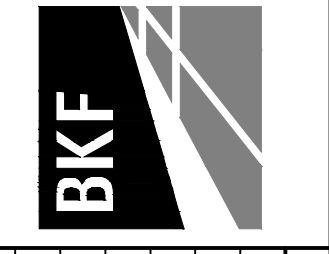
- KEYNOTES:**
- ⑦ PEDESTRIAN WALKWAY HAVING A CROSS SLOPE WHICH DOES NOT EXCEED 2-PERCENT IN ACCORDANCE WITH SECTION 11B-403.3 OF THE 2019 CALIFORNIA BUILDING CODE.
 - ⑧ SLOPE SURFACE AT A GRADIENT NOT EXCEEDING 2% TO PROVIDE AN ACCESSIBLE PATH OF TRAVEL IN ACCORDANCE WITH SECTION 11B-403.3 OF THE 2019 CALIFORNIA BUILDING CODE (CBC) WHILE PROVIDING DRAINAGE AWAY FROM THE BUILDING IN ACCORDANCE WITH SECTION 1804.3 OF THE CBC.
 - ⑩ PEDESTRIAN RAMP IN ACCORDANCE WITH SECTION 11B-405 OF THE 2019 CALIFORNIA BUILDING CODE. REFER TO THE LANDSCAPE DRAWINGS FOR HANDRAIL AND ADDITIONAL INFORMATION.
 - ⑪ CONFORM TO EXISTING SURFACE ELEVATION IN A MANNER WHICH GENERATES A UNIFORM TRANSITION BETWEEN SURFACES AND WHICH DOES NOT IMPEDE DRAINAGE.
 - ⑫ ADJUST EXISTING UTILITY TO FINISHED GROUND SURFACE ELEVATION. SALVAGE POOL UTILITY EQUIPMENT LOCATED WITHIN THE POOL DECK, INCLUDING POOL SKIMMERS, AND ADJUST TO FINISHED GROUND SURFACE ELEVATION.
 - ⑳ CONCRETE SPHERE BOLLARD - REFER TO THE LANDSCAPE DRAWINGS.
 - ㉑ DRINKING FOUNTAIN - REFER TO THE ARCHITECTURAL DRAWINGS.
 - ㉒ ACCESSIBLE SHOWER - REFER TO THE ARCHITECTURAL DRAWINGS.
 - ㉓ REINSTALL EXISTING HANDRAIL.



City of
Santa Rosa



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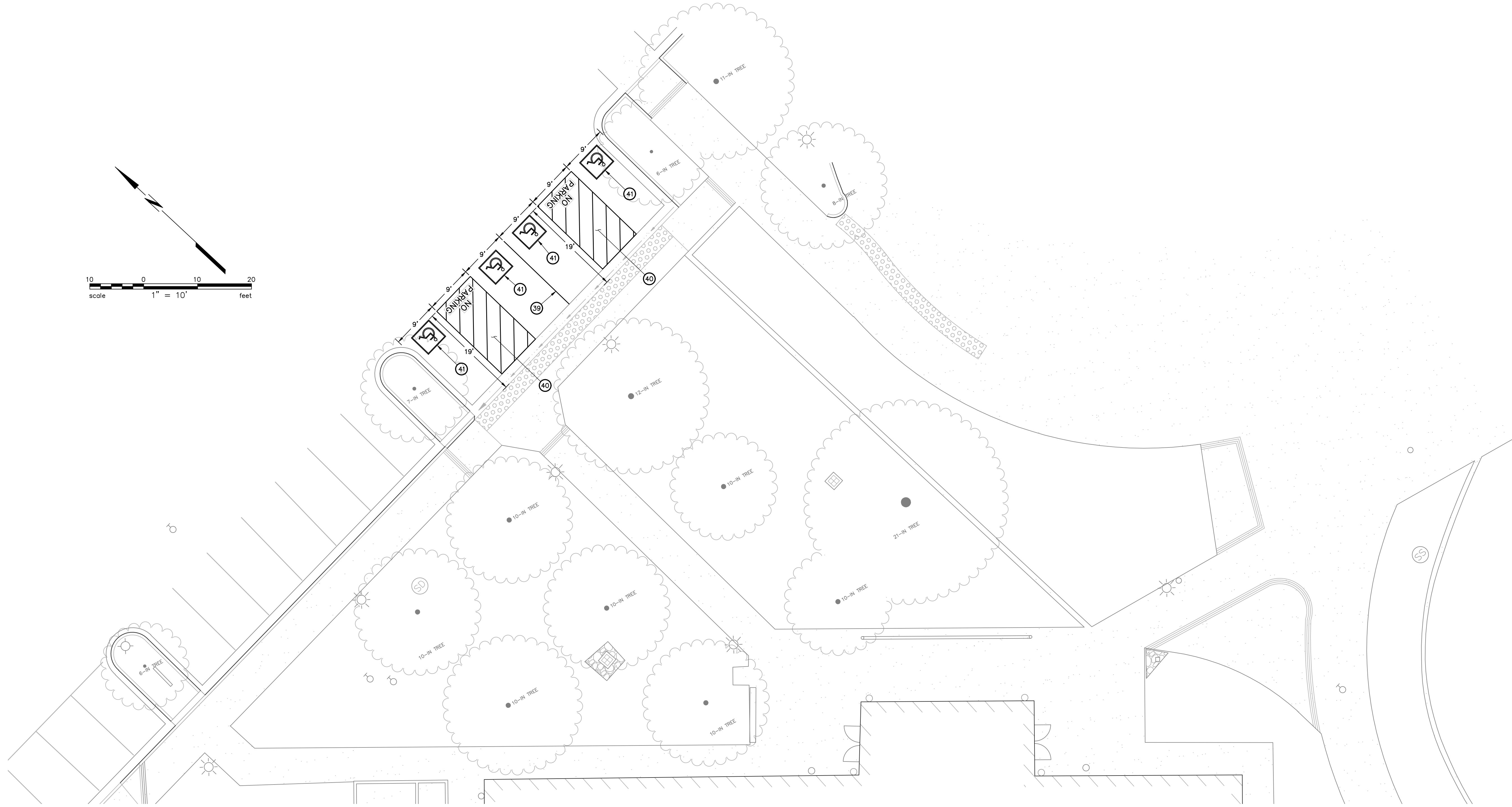
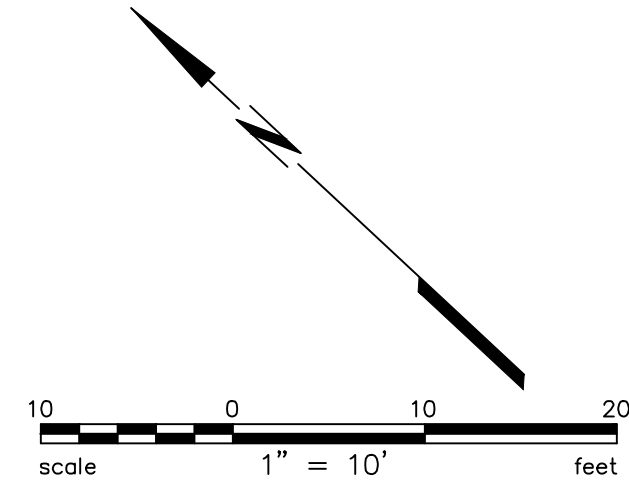
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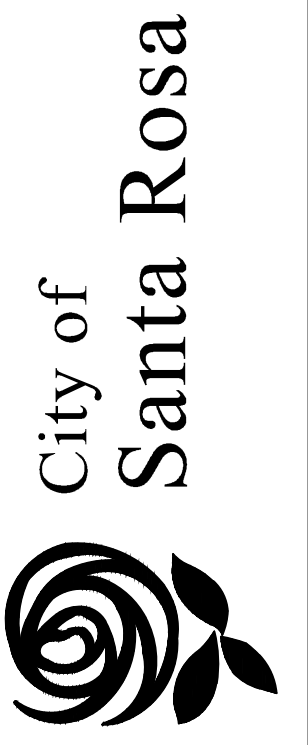
FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT
C4.1
GRADING PLAN

CONTRACT NO.
C02336
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FILE NO. 2022-014

- KEYNOTES:**
- ③9 THERMOPLASTIC 4-INCH WIDE SOLID BLUE STRIPE.
 - ④0 THERMOPLASTIC 4-INCH WIDE SOLID STRIPES AT 36-INCHES ON CENTER IN ACCORDANCE WITH SECTION 11B-502.3 OF THE 2019 CALIFORNIA BUILDING CODE.
 - ④1 THERMOPLASTIC INTERNATIONAL SYMBOL OF ACCESSIBILITY IN ACCORDANCE WITH SECTION 11B-703.7.2.1 OF THE 2019 CALIFORNIA BUILDING CODE.



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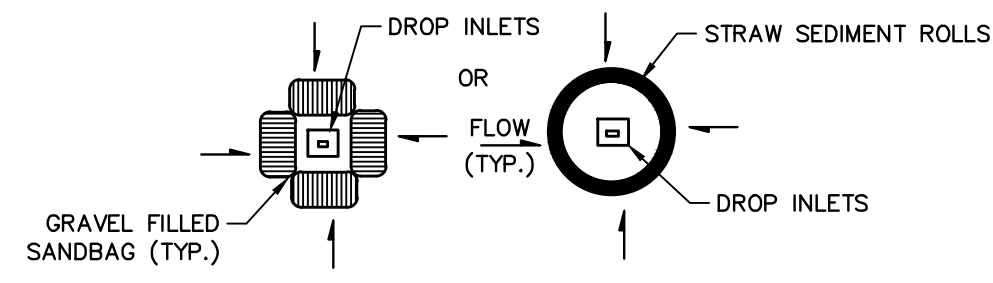
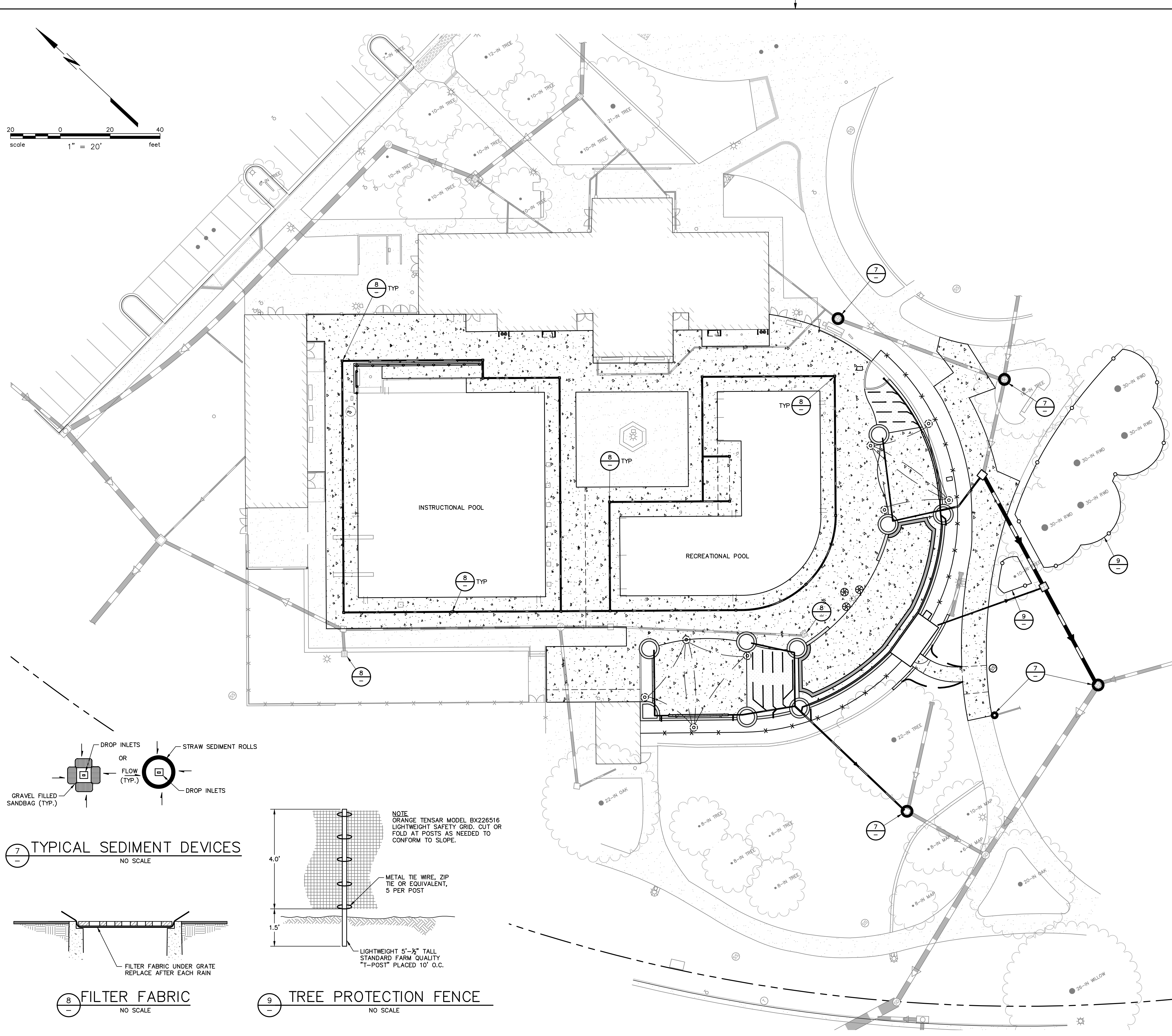
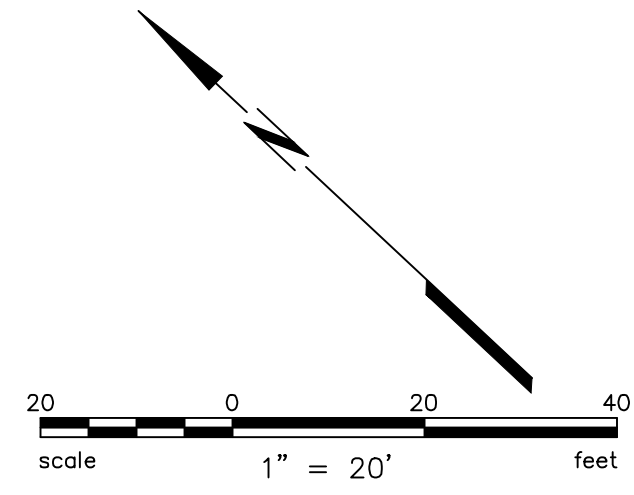


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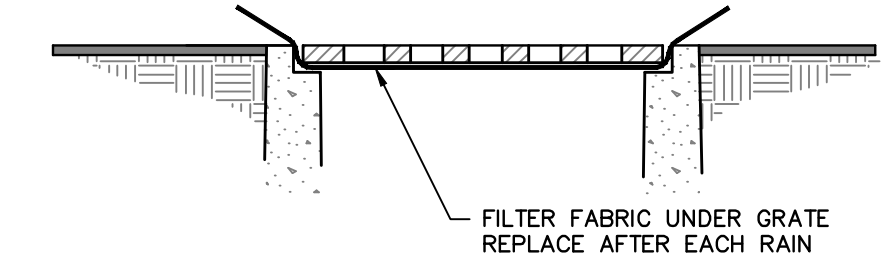
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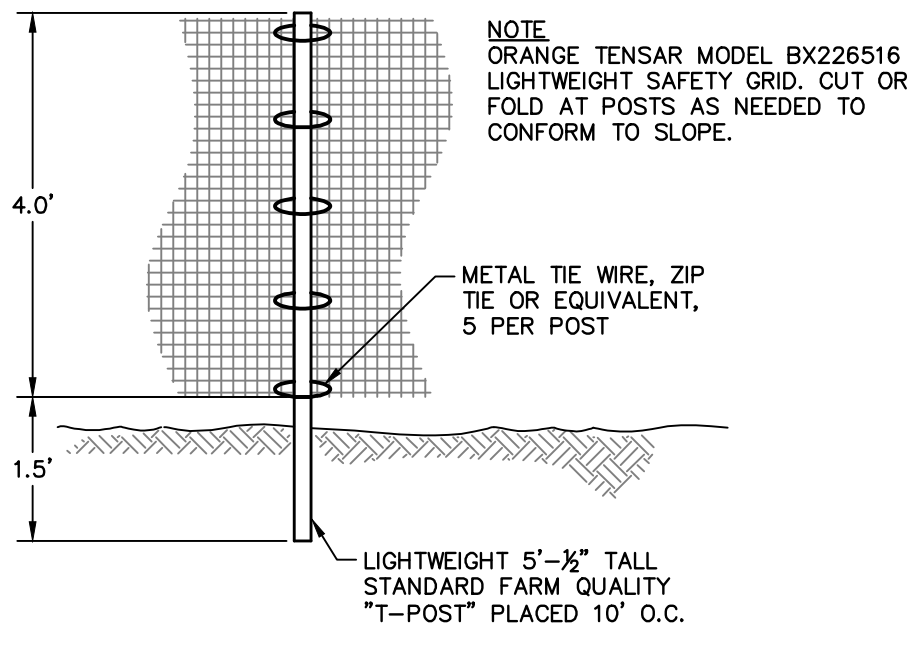
FINLEY AQUATIC CENTER
 SPRAY GROUND AND RENOVATION
 PROJECT
C6.0
STRIPING PLAN



7 TYPICAL SEDIMENT DEVICES
NO SCALE



8 FILTER FABRIC
NO SCALE



9 TREE PROTECTION FENCE
NO SCALE

EROSION & SEDIMENT CONTROL NOTES

EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE GENERAL IN NATURE AND MAY NOT BE APPLICABLE DURING CERTAIN PHASES OF CONSTRUCTION. THE STABILIZED CONSTRUCTION ENTRANCE/EXIT SHOWN ON THESE DRAWINGS REFLECTS A CONDITION PRIOR TO ROADS BEING CONSTRUCTED WHEREAS FILTERS AT STORM WATER INLETS REFLECTS A CONDITION AFTER THE STORM DRAIN SYSTEM HAS BEEN INSTALLED.

THE CONTRACTOR SHALL INTEGRATE APPROPRIATE MEASURES DURING EACH CONSTRUCTION PHASE TO ENSURE THAT SEDIMENT AND OTHER POLLUTANTS DO NOT ENTER THE STORM DRAIN SYSTEM.

THE CONTRACTOR SHALL USE WATER OR DUST PALLIATIVE TO MINIMIZE WIND EROSION. THE CONTRACTOR SHALL DESIGNATE AN AREA ON SITE TO STOCKPILE MATERIAL. THE STOCKPILED MATERIAL SHALL BE COVERED AT ALL TIMES TO PREVENT EROSION FROM WIND, RAIN AND STORM WATER RUNOFF.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE USED TO ENSURE THAT WATER ENTERING THE STORM DRAIN SYSTEM BELOW THE CONSTRUCTION SITE IS OF EQUIVALENT QUALITY AND CHARACTER AS THE WATER ABOVE THE SITE.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED IN FRONT OF INCOMPLETE STORM DRAIN SYSTEMS TO PREVENT DEBRIS AND SEDIMENT-LADEN WATER FROM ENTERING INTO THE PUBLIC STORM DRAIN SYSTEM. BEST MANAGEMENT PRACTICES SHALL BE USED WHEN DESIGNING AND INSTALLING SUCH DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTANT MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES TO THE SATISFACTION OF THE OWNER AND THE CITY OF SANTA ROSA. EROSION AND SEDIMENT CONTROL MEASURES AND THEIR INSTALLATION SHALL BE ACCOMPLISHED USING BEST MANAGEMENT PRACTICES.

IF THE STORM DRAIN SYSTEM IS NOT INSTALLED PRIOR TO A PRECIPITATION EVENT, ADDITIONAL MEASURES SHALL BE TAKEN SUCH AS TEMPORARY SETTLING BASINS WHICH MEET THE SATISFACTION OF THE OWNER AND THE CITY OF SANTA ROSA. SILT AND/OR CATCH BASINS MUST BE CLEANED OUT ON A REGULAR BASIS AFTER STORMS TO MAINTAIN DESIGN CAPACITY.

STORM WATER RUNOFF FROM THE CONSTRUCTION SITE SHALL BE DIRECTED TOWARD AN INLET WITH A SEDIMENT OR FILTRATION INTERCEPTOR PRIOR TO ENTERING THE STORM DRAIN SYSTEM.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING WATER THAT HAS BECOME POLLUTED DUE TO NOT TAKING NECESSARY EROSION AND SEDIMENT CONTROL ACTIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF MUD AND DEBRIS CARRIED ONTO SURROUNDING STREETS AND ROADS AS A RESULT OF CONSTRUCTION ACTIVITY ON THE SITE TO THE SATISFACTION OF THE CITY OF SANTA ROSA.

DENUDED OR DISTURBED SOILS SHALL BE PROTECTED USING BEST MANAGEMENT PRACTICES.

PRIOR TO AND DURING A PRECIPITATION EVENT, PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED BY THE CONTRACTOR SO THAT A MINIMUM OF SEDIMENT-LADEN RUNOFF LEAVES THE SITE.

THE CONTRACTOR IS TO INFORM ALL CONSTRUCTION SITE WORKERS ABOUT THE MAJOR PROVISIONS OF THE EROSION AND SEDIMENT CONTROL PLAN AND SEEK THEIR COOPERATION IN AVOIDING THE DISTURBANCE OF THESE CONTROL MEASURES.

BEST MANAGEMENT PRACTICES SHALL BE VISUALLY MONITORED ON A DAILY BASIS AND RECORDED IN AN INSPECTION CHECKLIST ON A WEEKLY BASIS. RAIN EVENT VISUAL MONITORING SHALL BE PERFORMED WITHIN 48 HOURS PRIOR TO AN ANTICIPATED RAIN EVENT, DAILY DURING A RAIN EVENT AND WITHIN 48 HOURS FOLLOWING A RAIN EVENT. REMOVE SEDIMENTS WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE BARRIER AND REPLACE FILTER DEVICES AS NECESSARY TO ENSURE PROPER FUNCTION.

UNSTABILIZED AREAS SHALL BE REPAIRED AS SOON AS POSSIBLE AFTER BEING DAMAGED.

GRADED OR DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE.

ENTRANCE TO THE PROJECT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED ROCK THAT DRAINS INTO A SEDIMENT TRAP.

SEDIMENT SPILLED, DROPPED, OR TRACKED INTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY USING BEST MANAGEMENT PRACTICES.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR PURPOSE SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WHEN THEY ARE NO LONGER FUNCTIONING IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

THE CONTRACTOR SHALL DISPOSE OF UNUSED CONSTRUCTION MATERIALS AND WASTE PRIOR TO THE COMPLETION OF CONSTRUCTION.

AFTER CONSTRUCTION IS COMPLETE, STORM DRAIN SYSTEMS ASSOCIATED WITH THIS PROJECT SHALL BE INSPECTED AND CLEARED OF ACCUMULATED SEDIMENTS AND DEBRIS.

GRADED AREAS TO BE SEEDED FOR EROSION CONTROL SHALL USE GRASS SEED AT THE RATE OF 75-100 POUNDS PER ACRE. SEEDED AREAS SHALL BE IRRIGATED TO ENSURE COVER IS ROOTED.



City of
Santa Rosa



200 4th STREET
SUITE 300
SANTA ROSA, CA 95401
(707) 583-8500
www.bkf.com



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FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT
C7.0
EROSION AND SEDIMENT CONTROL PLAN

CONTRACT NO. C02336
14 OF 68
FILE NO. 2022-014



200 4th STREET
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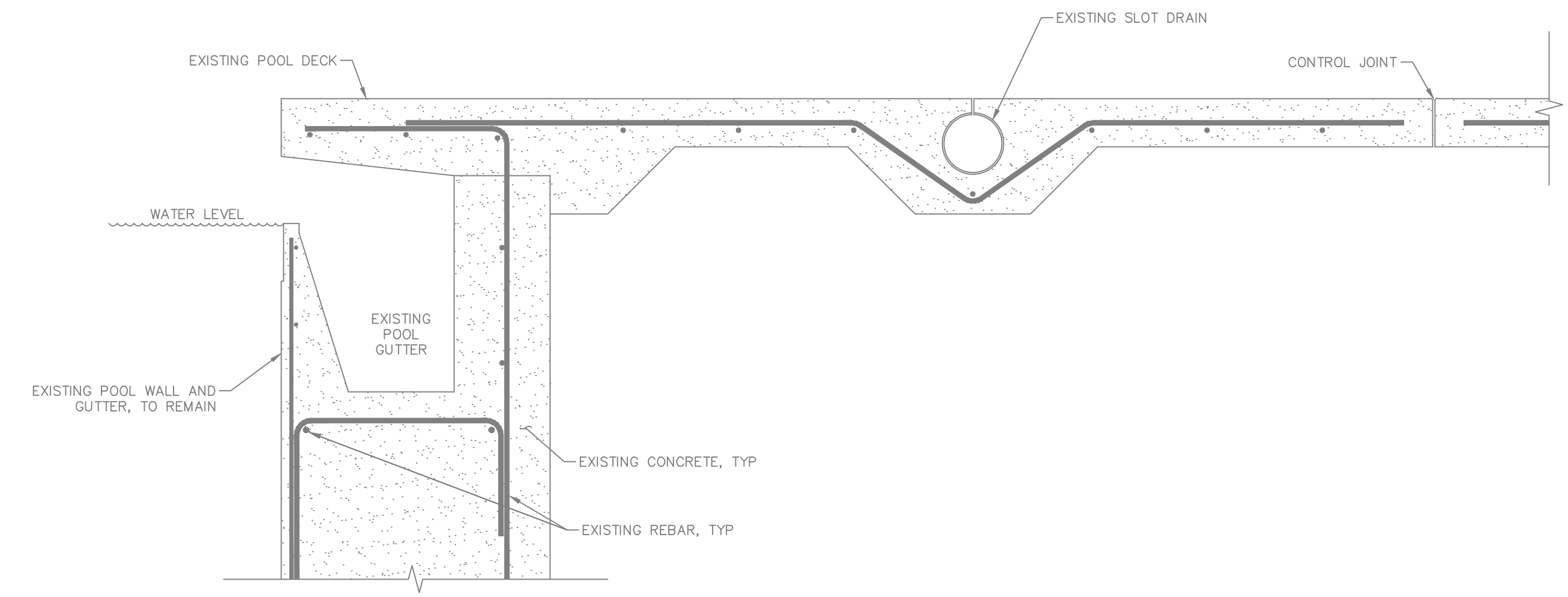
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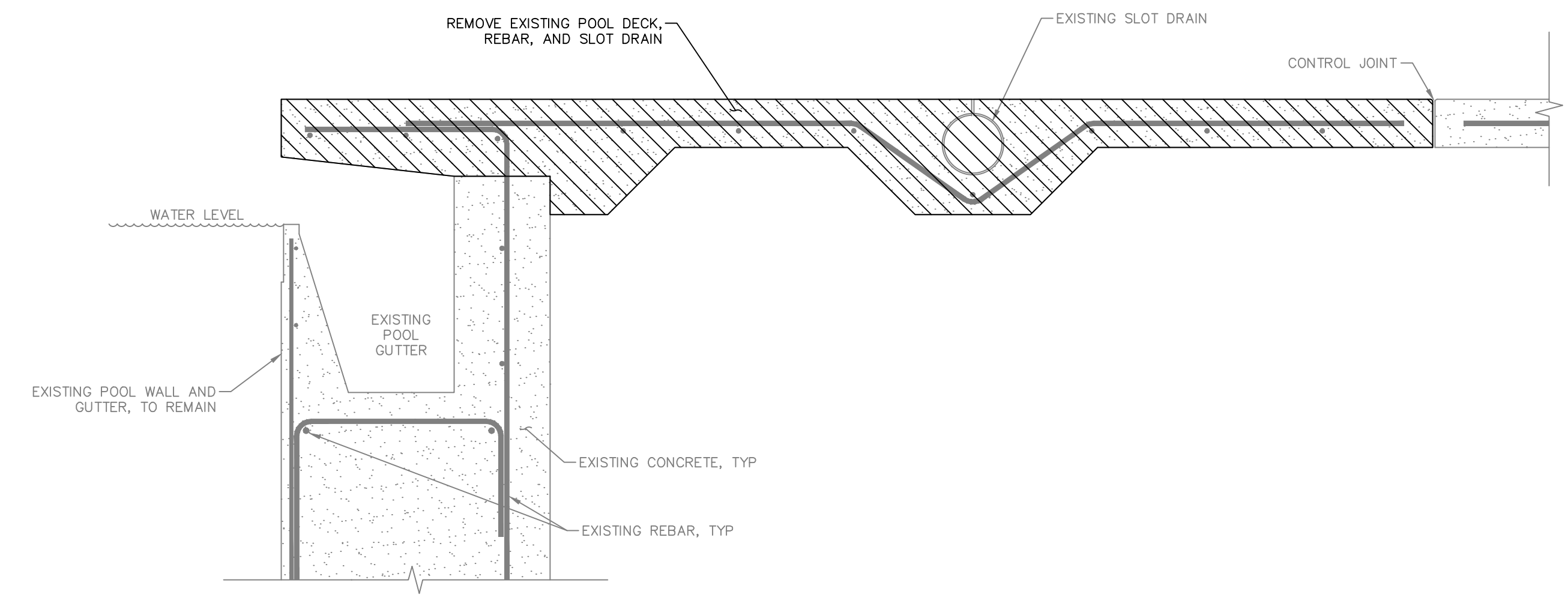
**FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT**

**C8.0
CONSTRUCTION DETAILS**

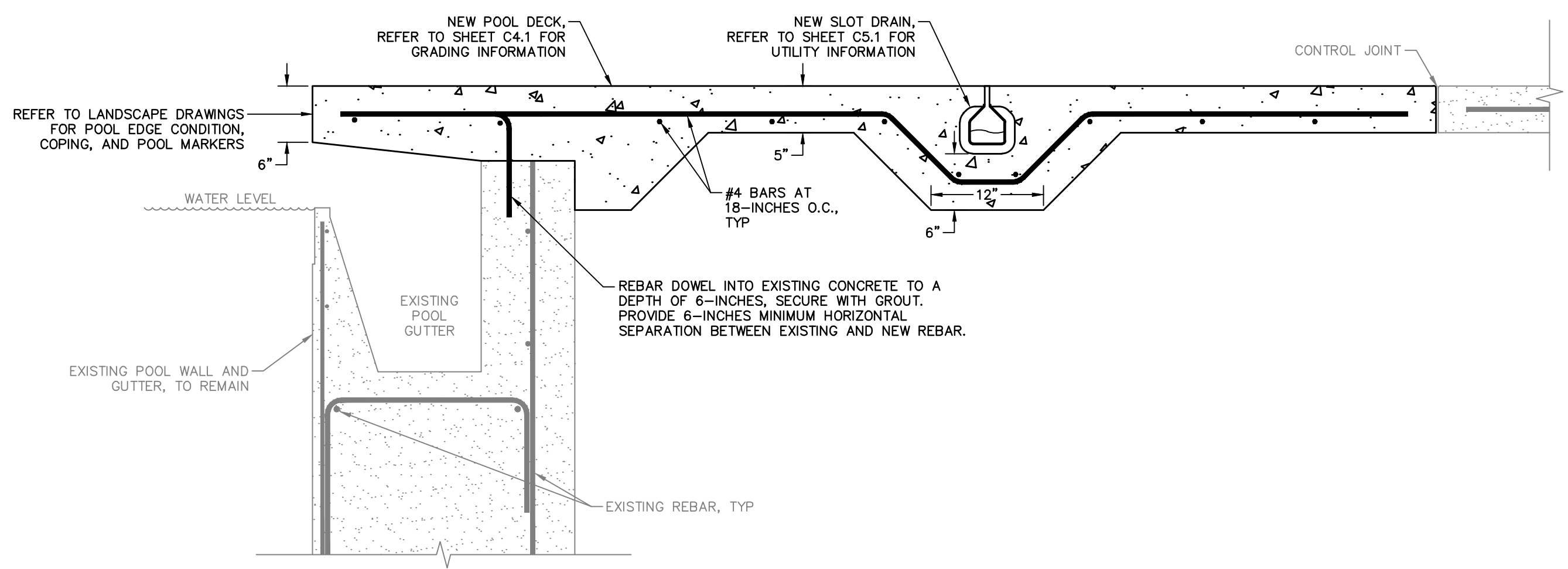
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15 OF 68
FILE NO. 2022-014



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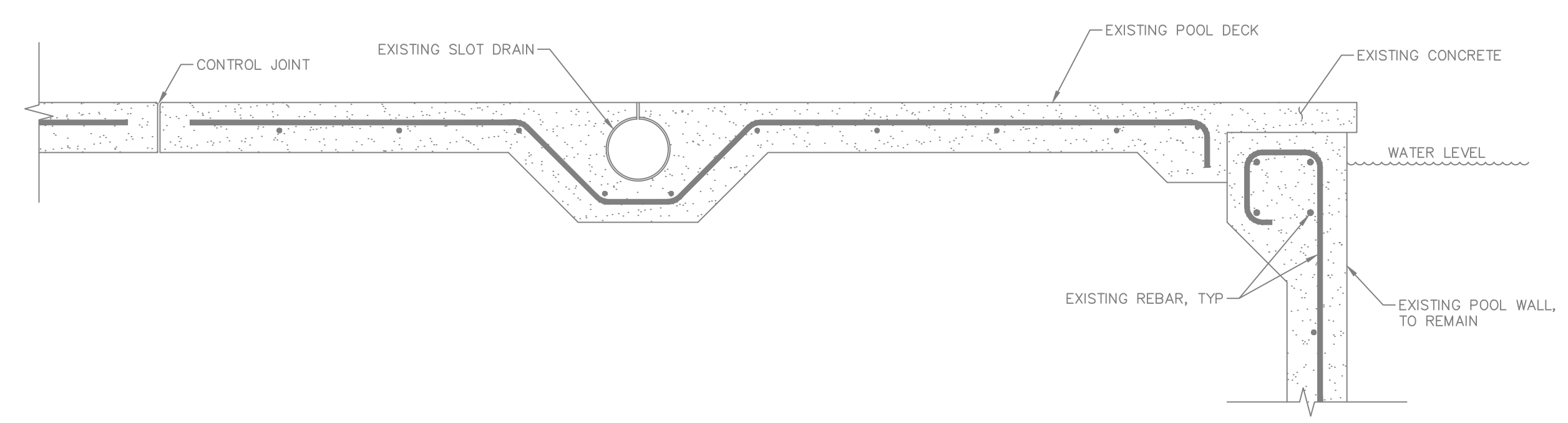
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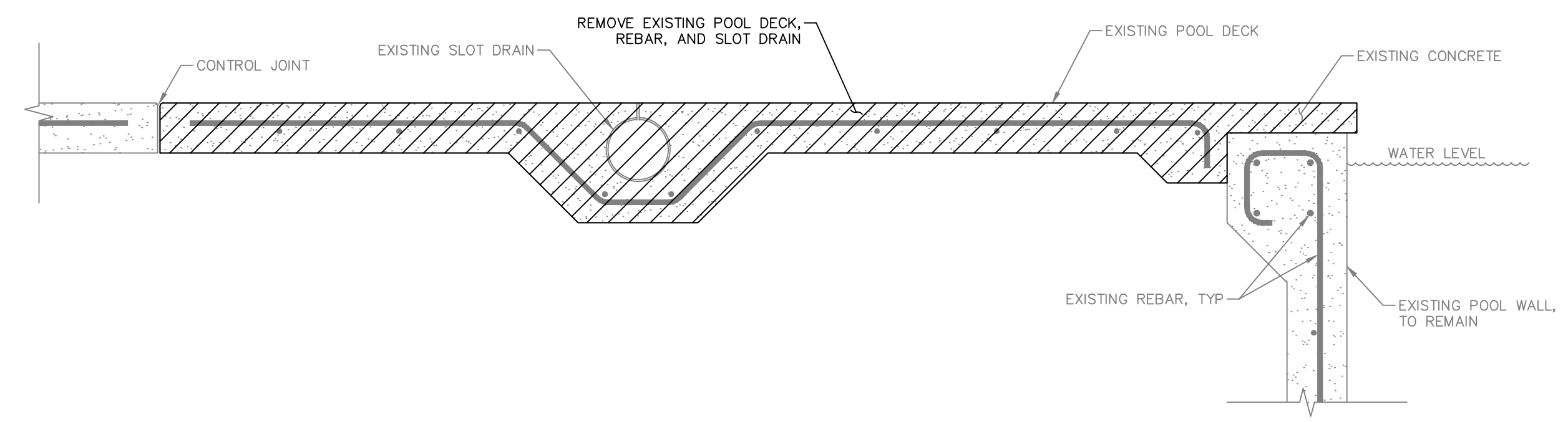
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NOTE: EXISTING POOL AND POOL DECK SECTIONS SHOWN, INCLUDING REINFORCING AND SLOT DRAINS, ARE BASED ON RECORD DRAWINGS. ACTUAL SECTION MAY DIFFER.

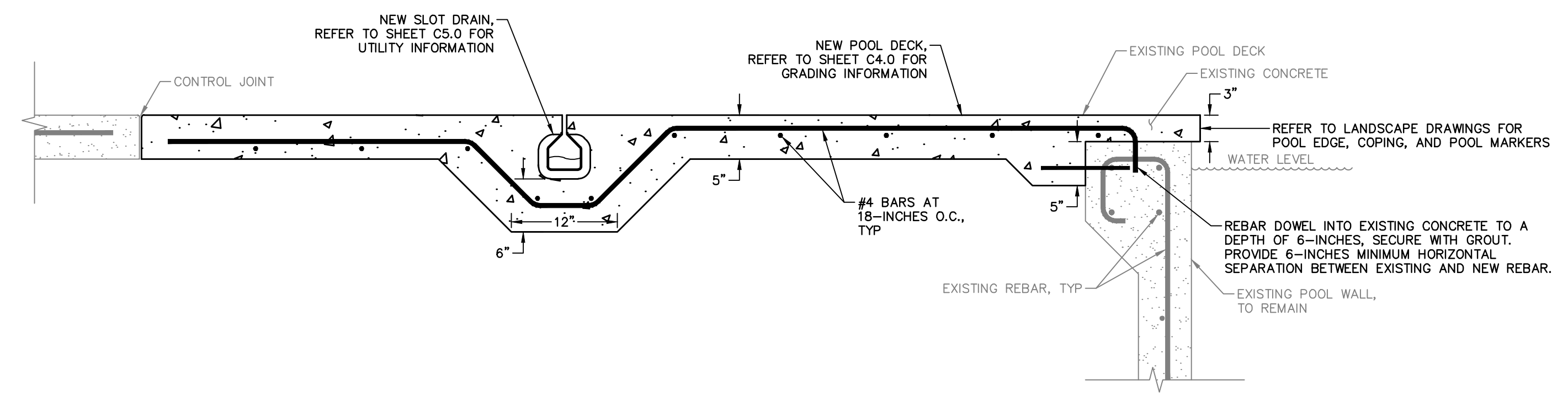
1 TRAINING POOL – POOL DECK REPLACEMENT
NO SCALE



EXISTING



DEMOLITION



PROPOSED

NOTE: EXISTING POOL AND POOL DECK SECTIONS SHOWN, INCLUDING REINFORCING AND SLOT DRAINS, ARE BASED ON RECORD DRAWINGS. ACTUAL SECTION MAY DIFFER.

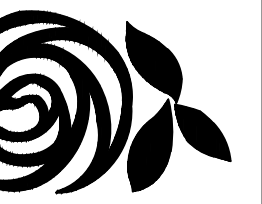
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NO SCALE

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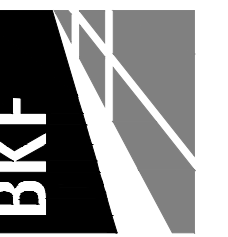
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City of
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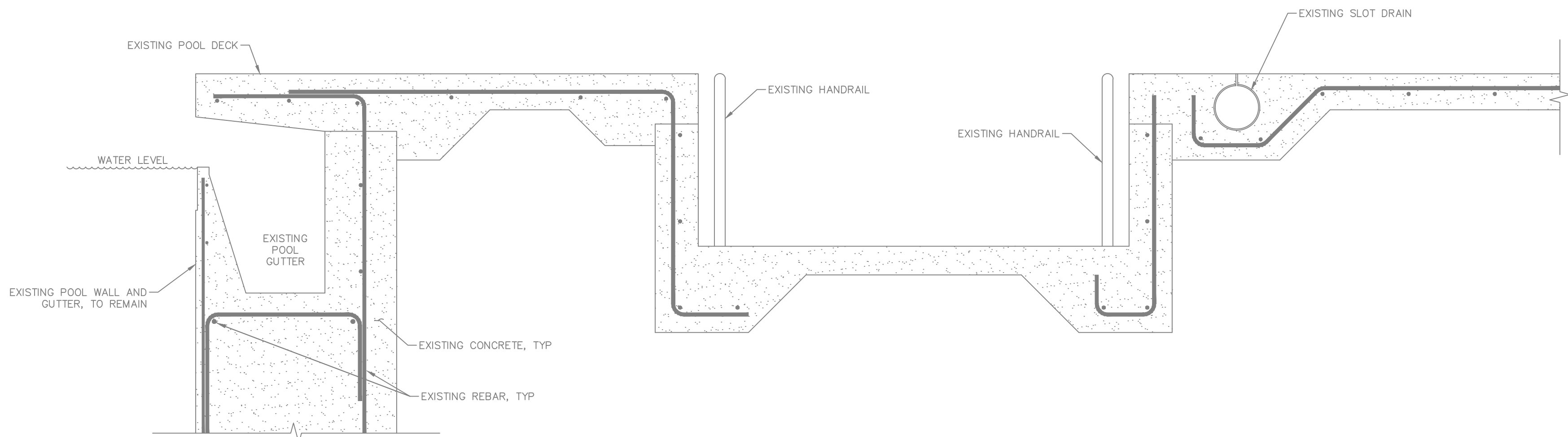
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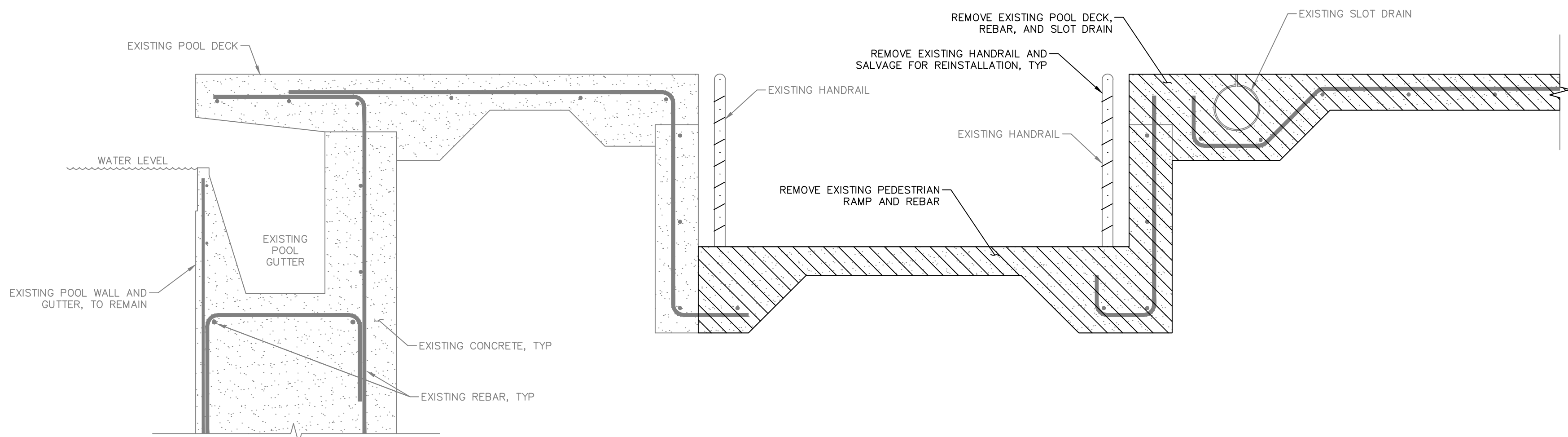
**FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT**

**C8.1
CONSTRUCTION DETAILS**

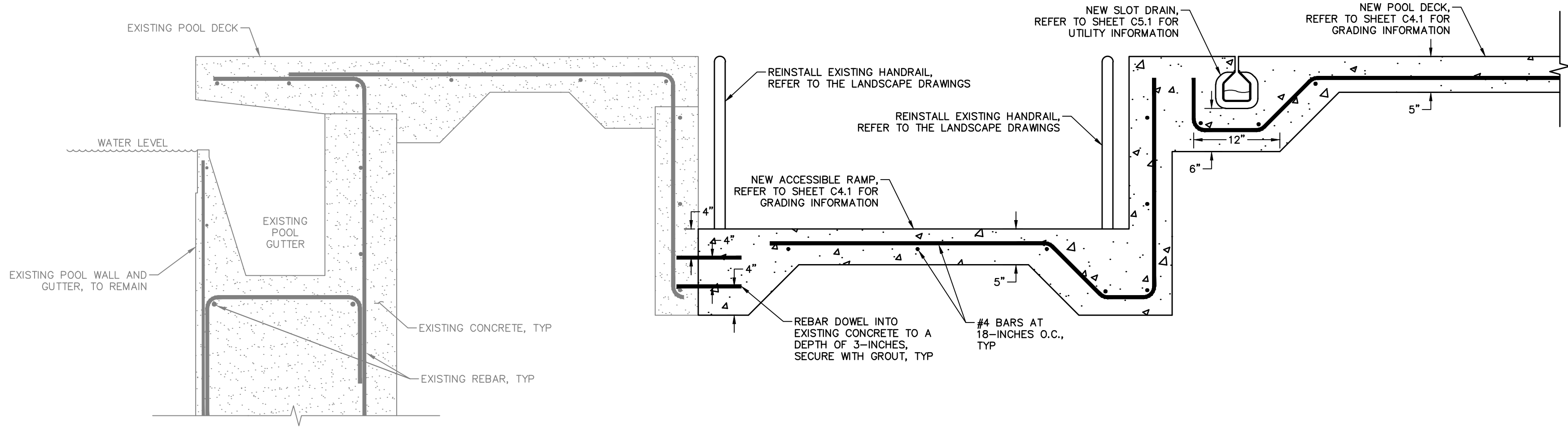
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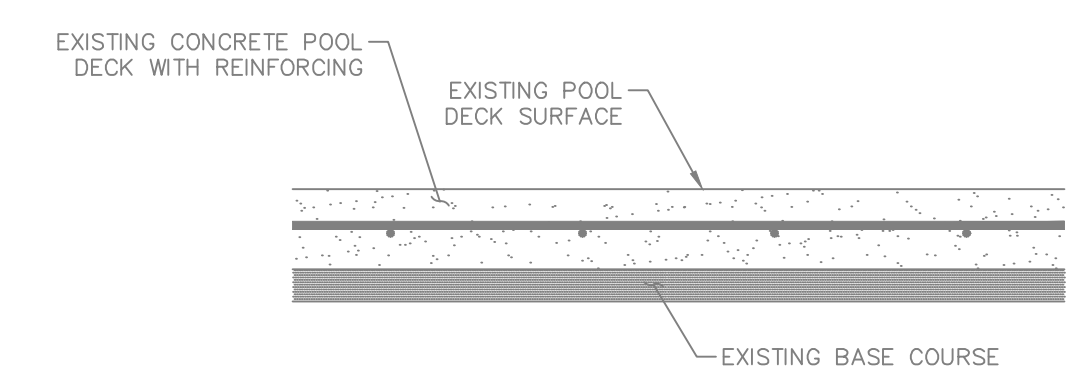
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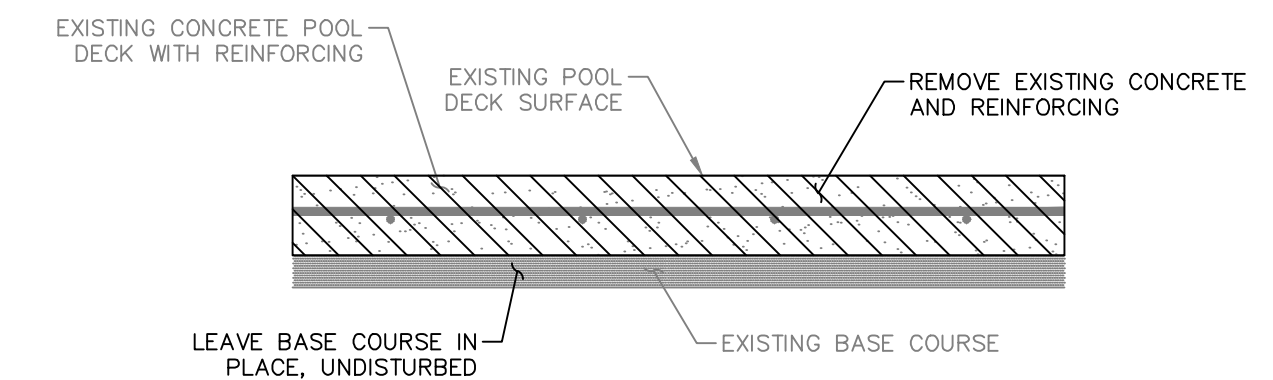
NOTE: EXISTING POOL AND POOL DECK SECTIONS SHOWN, INCLUDING REINFORCING AND SLOT DRAINS, ARE BASED ON RECORD DRAWINGS. ACTUAL SECTION MAY DIFFER.

3 PEDESTRIAN RAMP REPLACEMENT
NO SCALE

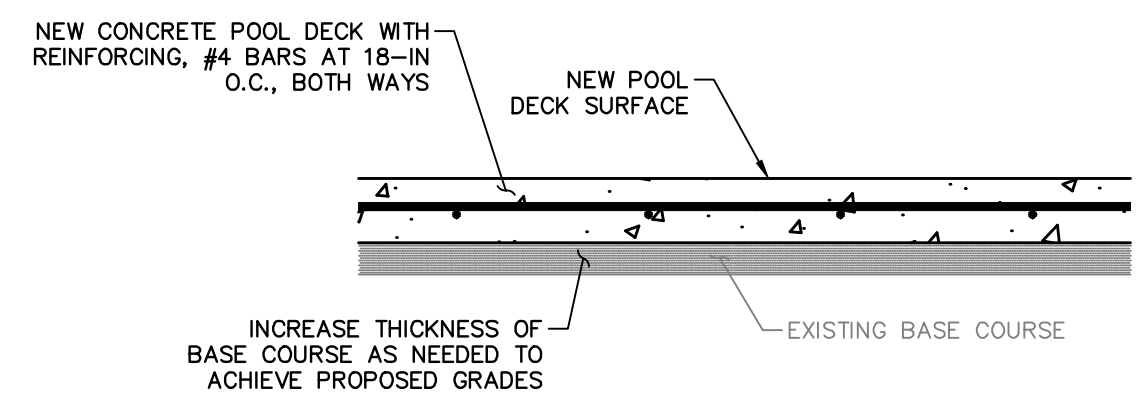


NOTE: EXISTING POOL DECK SECTIONS SHOWN, INCLUDING REINFORCING AND MATERIAL THICKNESSES, ARE BASED ON RECORD DRAWINGS. ACTUAL SECTION MAY DIFFER.

EXISTING POOL DECK SLAB



POOL DECK SLAB REMOVAL



NEW POOL DECK SLAB

11 CONCRETE ROUTINE MAINTENANCE WORK
NO SCALE

PLANTING NOTES

GENERAL

- ALL WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN, MEETING THE QUALIFICATIONS OUTLINED SPECIFICATION SECTION 32.90.00.
- ALL QUANTITIES AND PLANT COUNTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND DELETIONS IN THE PLANTING SCHEME AS THEY FEEL NECESSARY WHILE WORK IS IN PROGRESS, UPON APPROVAL BY THE OWNER. SUCH CHANGES ARE TO BE ACCOMPANIED BY EQUITABLE ADJUSTMENTS IN THE CONTRACT PRICE, WHEN NECESSARY.
- PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY BE SUBJECT TO CHANGE IN THE FIELD BY THE LANDSCAPE ARCHITECT. PLANT LOCATIONS ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES, BUT SHALL NOT BLOCK WINDOWS, BLOCK SIGNS NOR IMPEDE ACCESS.
- THE DESIGN INTENT OF THE PLANTING PLAN IS TO ESTABLISH AN ATTRACTIVE MATURE LANDSCAPE APPEARANCE. FUTURE PLANT GROWTH WILL NECESSITATE TRIMMING, SHAPING, AND IN SOME CASE REMOVAL OF TREES AND SHRUBS AS AN ON-GOING MAINTENANCE PROCEDURE.
- ALL PLANTING AREA MUST BE IRRIGATED WITH AUTOMATIC IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL BE FULLY AUTOMATED AND OPERATIONAL WITH FULL COVERAGE PRIOR TO PLANTING.
- CONTRACTOR TO REVIEW ALL EXISTING, PROPOSED, & AS BUILT UTILITY PLANS PRIOR TO CONSTRUCTION. CONTRACTOR TO TAKE PRECAUTIONS IN EXCAVATION OF ALL TREE PLANTING PITS. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS FOUND DURING CONSTRUCTION.
- CONTRACTOR MUST REVIEW ALL PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION AND MAINTAIN THE FOLLOWING CLEARANCES FOR ALL TREE PLANTINGS. CONTRACTOR TO TAKE PRECAUTION IN ALL EXCAVATION ACTIVITY. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION.
 - FIRE HYDRANTS AND PIVS: 3' MINIMUM
 - LIGHT POLES: 10' MINIMUM
 - UTILITIES AND UTILITY BOXES: 3' MINIMUM
 - BUILDING ROOF EDGE: 5' MINIMUM
- CONTRACTOR TO PROVIDE AND ARRANGE FOR PLANT MATERIAL THRU CONTRACT GROW, PLANT BROKERS, OR DIRECT PURCHASE AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PROJECTS PLANTING PLAN. CONTRACTOR MUST SUBMIT WITHIN 30 DAYS AFTER AWARD OF A BID A DETAILED NURSERY LIST OF SECURED PLANT MATERIAL, CONTRACT GROW PLANT MATERIAL, AND ANY SUBSTITUTION REQUESTS. CONTRACTOR SHALL ARRANGE AND SECURE ALL PLANT MATERIAL WITHIN 30 DAYS OF BID. UPON DELIVERY, PLANT MATERIAL THAT DOES NOT MEET NURSERY STANDARDS, IS ROOTBOUND, OF POOR QUALITY & HEALTH, SUBSTANDARD SIZE, AND / OR IS NOT APPROVED BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. MATERIAL WHICH IS NOT SECURED AND IS UNAVAILABLE IN THE SIZE SPECIFIED SHALL BE UP-SIZED, IF AVAILABLE. ALL REPLACEMENT MATERIAL, SUBSTITUTIONS OR UP-SIZED PLANT MATERIAL MUST BE PROVIDED AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PLANTING PLAN AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
- PROCUREMENT OF PLANT MATERIAL SHALL NOT BE LIMITED TO NORTHERN CALIFORNIA. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRUCKING, INSPECTIONS, AND INCIDENTALS FOR PROVIDING PLANT MATERIAL FROM SOURCES OUT OF STATE AS REQUIRED BY THE PROJECT PLANTING PLAN.

EXISTING PLANT MATERIAL

- ALL EXISTING PLANT MATERIAL, TREES, OR LAWN TO REMAIN MUST BE PROTECTED AND MAINTAINED IN PLACE BY THE CONTRACTOR.
- ANY DAMAGED MATERIAL MUST BE FULLY REPLACED TO MATCH EXISTING BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
- CONTRACTOR MUST MAINTAIN ANY EXISTING IRRIGATION SYSTEMS OR PROVIDE TEMPORARY IRRIGATION SYSTEMS AS REQUIRED TO ALL EXISTING PLANTING AREAS TO REMAIN.

SOILS

- THE CONTRACTOR MAY PROTECT AND STOCKPILE EXISTING SITE SOILS WHICH MAY BE REUSED FOR PLANTING PURPOSES. EXISTING SOILS SHALL BE TESTED PRIOR TO STOCKPILE FOR SOILS SUITABILITY PER THE REQUIREMENTS BELOW.
- ALL ORGANIC COMPOST SHALL HAVE AN AGRICULTURAL SUITABILITIES TEST FOR COMPATIBILITY TO EXISTING SITE SOILS. TEST RESULTS SHALL BE DATED WITHIN THE LAST 3 MONTHS OF THE SUBMITTAL.
- ALL EXISTING SITE SOILS SHALL HAVE AN AGRICULTURAL SUITABILITIES TEST BY AN APPROVED SOILS TESTING LAB (WAYPOINT ANALYTICAL OR APPROVED EQUAL) AND ANALYSIS FOR RECOMMENDATIONS ON ORGANIC COMPOST, AMENDMENTS, GRO-POWER FERTILIZER AND ANY INCIDENTALS. RECOMMENDATIONS CONTAINED IN THE SOILS ANALYSIS RESULTS ARE TO BE IMPLEMENTED BEFORE PLANTING OCCURS. CONTRACTOR SHALL PROVIDE UP TO 4 COMBINED TESTS AT LOCATIONS SELECTED BY THE LANDSCAPE ARCHITECT. SOIL SAMPLES TO BE TAKEN AND COMBINED FROM A DEPTH OF 6" AND 24". PROVIDE ADDITIONAL TESTING (ONE 6" AND ONE 24" DEPTH TEST PER 25,000 SF FOR AREAS WHICH WERE LIME TREATED). THE ORGANIC COMPOST TEST RESULTS LISTED ABOVE SHALL BE SUBMITTED TO THE SOILS LAB FOR ACCURATE RECOMMENDATIONS OF THE SOIL AMENDMENT REQUIREMENTS. TEST RESULTS SHALL BE TAKEN AFTER ALL GRADING OPERATIONS ARE COMPLETE.
- ALL LIME TREATED SOILS IN AREAS TO RECEIVE PLANTING SHALL BE FULLY REMOVED AND REPLACED WITH CLEAN APPROVED IMPORT TOP SOIL AT NO COST TO THE OWNER. AN ADDITIONAL 8 SOILS TESTS MAY BE REQUESTED BY THE LANDSCAPE ARCHITECT. ALL TESTING SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL SOILS IMPORTED ONTO THE SITE FOR ANY PURPOSE SUCH AS GRADING, NON EXPANSIVE FILL, FILL, OR FOR ANY GENERAL PURPOSE MUST BE TESTED FOR PLANT SUITABILITY PRIOR TO PLACEMENT. ALL IMPORT SOILS SHALL BE NON-DETRIMENTAL TO PLANT MATERIAL AND SOILS ANALYSIS SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. PROVIDE 1 TEST PER 500 CY OF MATERIAL.
- ALL IMPORT SOILS SHALL BE FREE OF DELETERIOUS MATERIALS, AGGREGATES, AND ROCK. IMPORT SOIL SHALL BE LOAM/CLAY LOAM WITH A PH BETWEEN 6 AND 7.5. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
- FOR BID PURPOSES AMEND ALL PLANTING SOIL WITH 6 YARDS OMRI COMPOST, 50LBS GYPSUM, 20LBS SOIL SULFUR AND 160LBS OF GRO-POWER PLUS 5-3-1 W/ M PER 1000SF. CONTRACTOR TO SUBMIT ALL DELIVERY TICKETS FOR COMPOST AND FERTILIZERS FOR VERIFICATION. SOIL IS TO BE AMENDED, AT THE RATE INDICATED BY THE SOIL ANALYSIS, TO BRING THE SOIL ORGANIC MATTER CONTENT TO A MINIMUM OF 3.5% BY DRY WEIGHT, AND A MINIMUM OF 2" OF QUALITY RECYCLED COMPOST, ON ALL PLANTING AREAS.

- ALL PLANTERS IN AREAS WHICH HAVE BEEN COMPACTED, SUCH AS CONSTRUCTION STAGING AREAS AND IN PARKING LOTS, SHALL BE CROSS RIPPED TO THE FOLLOWING DEPTHS: PLANTERS LESS THAN THREE (3) FEET WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES BELOW SUBGRADE. PLANTERS THREE TO TEN (3-10) FEET WIDE MUST HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 18" BELOW SUBGRADE. PLANTERS MORE THAN 10' WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 12" BELOW SUBGRADE. AREAS SHALL BE PROTECTED AFTER DECOMPACTION.
- CONTRACTOR SHALL PERFORM A PERCOLATION TEST AT THE BEGINNING OF CONSTRUCTION AT 1 LOCATION PER ACRE (MAX OF 4) TO DETERMINE THE DRAINAGE CAPACITY OF THE EXISTING SITE SOIL FOR TREE HEALTH. NOTIFY THE LANDSCAPE ARCHITECT IF DRAINAGE IS LESS THAN 2" PER HOUR.

TREES

- ALL TREES SHALL BE STANDARDS UNLESS SPECIFICALLY NOTED.
- ALL TREES ARE TO BE STAKED AS SHOWN ON THE TREE STAKING/GUYING DIAGRAMS. BRANCHING HEIGHT OF TREES SHALL BE A 6"-0" MINIMUM ABOVE FINISH GRADE. ALL TREES IN A FORMAL GROUP PLANTING MUST BE MATCHING IN SIZE AND SHAPE. ALL STREET TREES TO BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE OWNER. LANDSCAPE ARCHITECT SHALL BE CONSULTED REGARDING ORIENTATION OF TREES PRIOR TO PLANTING AND/OR BACKFILLING.
- PLANT TREES 3'-0" MINIMUM FROM FACE OF CURB AT PARKING, AND FROM EDGES OF PAVING. ALL TREES WITHIN 5' OF PAVING AREAS AND BUILDINGS MUST HAVE ROOT BARRIERS INSTALLED. SEE ROOT BARRIER DETAIL. DEEP ROOT BARRIER MODEL NO. UB.24.2. (415) 344-1464. INSTALL PER MANUFACTURER'S SPECIFICATIONS. WHERE WATER BARRIERS AND ROOT BARRIERS ARE REQUIRED, USE CENTURY PRODUCTS DUAL PURPOSE WATER/ ROOT BARRIER CR-PE24-20, (714)632-7083, S.C.D. FOR LOCATIONS OF WATER BARRIER.
- PROVIDE 4" BERM AROUND TREE FOR WATER BASIN. SEE TREE STAKING DETAIL. BERM TO BE REMOVED IN LAWN AREA AFTER INITIAL MAINTENANCE PERIOD. MULCH TREE WELL WITH 3" LAYER OF RECYCLED CHIPPED MULCH. KEEP MULCH AWAY FROM TREE TRUNK. HOLD LAWN AND HYDROSEED 2' CLEAR FROM TRUNKS, TYP.
- TREES MUST HAVE AN UNCUT LEADER THAT HAS A UNIFORM TAPER FROM BASE TO TIP. TREES MUST MEET AT LEAST NORMAL CALIPER AND HEIGHT FOR CONTAINER SIZE. OVERGROWN OR ROOT BOUND TREES ARE NOT ACCEPTABLE.
- FOR ALL TREES IN STORMWATER INFILTRATION ZONES HOLD FG OF ROOTBALL 4" ABOVE FG OF FLOWLINE. ADJUST ADJACENT GRADE OF SOIL TO BLEND UNIFORMLY AROUND ROOTBALL AND ALLOW UNIMPEDED FLOW OF WATER.

PLANTING LEGEND

	TREE NAME QUANTITY	SEE PLANT LIST FOR ADD'L INFO.
	SHRUB NAME QUANTITY	SEE PLANT LIST FOR ADD'L INFO.

PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING
	PCK	PISTACIA CHINENSIS 'KEITH DAVEY'	KEITH DAVEY CHINESE PISTACHE	24" BOX	L (WUCOLS IV)	AS SHOWN		PJ	PHORMIUM X 'SEA JADE'	SEA JADE NEW ZEALAND FLAX	5 GAL	L (WUCOLS IV)	
	SRR	SYAGRUS ROMANZOFFIANA	QUEEN PALM	14" BTH	L (WUCOLS IV)	AS SHOWN		PW	PITTSOPORUM TOBIRA 'WHEELER'S DWARF'	WHEELER'S DWARF PITTSOPORUM	5 GAL	L (WUCOLS IV)	
	ULF	ULMUS X 'FRONTIER'	FRONTIER ELM	24" BOX	L (WUCOLS IV)	AS SHOWN		SN	STRELITZIA NICOLAI	GIANT BIRD OF PARADISE	5 GAL	M (WUCOLS IV)	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	GROUND COVER	CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING
	AB	ANIGOZANTHOS X 'BIG RED'	BIG RED KANGAROO PAW	5 GAL	L (WUCOLS IV)			LW	90% TURF PERENNIAL RYE & 10% BARON KENTUCKY BLUEGRASS	LAWN		H (WUCOLS IV)	
	AO	ARBUTUS UNEDO 'OKTOBERFEST'	OKTOBERFEST STRAWBERRY TREE	5 GAL	L (WUCOLS IV)								
	CT	CHONDROPETALUM TECTORUM	CAPE RUSH	5 GAL	L (WUCOLS IV)								
	EC	EUPHORBIA CHARACIAS WULFENII	EVERGREEN SPURGE	5 GAL	L (WUCOLS IV)								
	HP	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL	L (WUCOLS IV)								
	KA	KNIPHOFIA X 'ALCAZAR'	ALCAZAR RED HOT POKER	5 GAL	L (WUCOLS IV)								
	LL	LOMANDRA LONGIFOLIA 'BREEZE' TM	BREEZE MAT RUSH	5 GAL	L (WUCOLS IV)								
	LM	LOMANDRA X 'LIME TUFF'	LIME TUFF DWARF MAT RUSH	5 GAL	L (WUCOLS IV)								
	PY	PHORMIUM TENAX 'YELLOW WAVE'	NEW ZEALAND FLAX	5 GAL	L (WUCOLS IV)								
	PS	PHORMIUM X 'SUNDOWNER'	SUNDOWNER NEW ZEALAND FLAX	5 GAL	L (WUCOLS IV)								

PLANTING NOTES (CONT)

SHRUBS AND GROUNDCOVERS

- GROUNDCOVER MUST BE PLANTED AS SHOWN ON THE PLAN, INCLUDING UNDER SHRUBS AND IN TREE WATERING BASINS.
- SHRUBS AND PERENNIALS MUST HAVE ADEQUATE SETBACK FROM THE ADJACENT SIDEWALK AND EDGES OF PARKING LOT CURBS. NOTIFY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF PLANT MATERIAL MAY PROTRUDE INTO THE PATH OF TRAVEL.

ACCESSORIES

- ALL PLANTING NOT BOUNDED BY CONCRETE OR A HARDSCAPE EDGE SHALL BE COMPLETELY SURROUNDED BY HEADERS. ALL ASPHALT AND DECOMPOSED GRANITE AREAS TO BE COMPLETELY SURROUNDED BY HEADERS OR ADJACENT CONCRETE WORK.
- ALL PLANTING AREAS MUST BE TOP-DRESSED WITH 3" LAYER OF RECYCLED CHIPPED MULCH. COLOR: BROWN. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
- ALL MULCH WITHIN STORMWATER PLANTING AREAS MUST BE 3" OF WASHED PEA GRAVEL. SUBMIT SAMPLE FOR REVIEW AND APPROVAL.
- ALL STORMWATER CURB CUTS MUST BE REINFORCED WITH A MINIMUM 12" WIDE x18" LONG x 6" DEEP BAND OF COBBLE. COBBLE SHALL BE 40% 4"-6" AND 60% 2"-3" NOIYO COBBLE. PROVIDE 24" WIDE BY 6" DEPTH OF COBBLE AROUND ALL CATCH BASINS LOCATED IN DRAINAGE AREAS. SUBMIT SAMPLE FOR REVIEW AND APPROVAL.
- ALL RAINWATER LEADERS DISCHARGING INTO LANDSCAPE AREAS MUST HAVE SPLASH BLOCKS. MODEL: CDI 16X24". COLOR: TO MATCH PAVING. (800) 279-2278.
- ALL SLOPES GREATER THAN 2.5:1 MUST BE COVERED WITH EROSION CONTROL NETTING PER THE MANUFACTURER'S SPECIFICATIONS. OVERLAP ALL EDGES A MINIMUM OF 12" AND SECURE AS REQUIRED WITH METAL STAPLES. EROSION CONTROL NETTING TO BE WESTERN EXCELSIOR, EXCEL CS-3 OR APPROVED EQUAL. AVAILABLE FROM REED & GRAHAM 888-381-0800.
- SEE SPECIFICATIONS FOR ALL FERTILIZER REQUIREMENTS

SUBMITTALS

- CONTRACTOR MUST SUBMIT ALL TESTS, PRODUCTS, ACCESSORIES, INCIDENTALS, CUT SHEETS OF ALL ITEMS SPECIFIED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- ALL PLANT MATERIAL MUST BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY. CONTRACTOR SHALL SUBMIT PHOTOS OF ALL SHRUBS, GROUND COVERS, VINES, AND TREES FOR PRELIMINARY REVIEW AND APPROVAL.
- ALL SUBMITTALS AND PLANT MATERIAL NOT REVIEWED AND APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT MAY BE SUBJECT TO FULL REMOVAL AND REPLACEMENT WITH APPROVED SOILS, FERTILIZERS, AND PLANT MATERIAL AT NO ADDITIONAL COST TO THE CONTRACT OR OWNER.
- SUBMITTALS AND SITE MOCKUPS OF ALL WORK SHALL BE REQUIRED PRIOR TO FINAL PLACEMENT INCLUDING BUT NOT LIMITED TO ALL WALLS, PAVEMENTS, COLORS, FINISHES, METAL WORK, FENCING, AND PAINTING FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT. SEE SPECIFICATIONS.

MUNICIPAL REQUIREMENTS

- ALL PLANT MATERIAL TO BE INSPECTED & APPROVED BY CITY REPRESENTATIVE AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CONTACT THE PROJECT LANDSCAPE ARCHITECT FOR FINAL INSPECTION OF LANDSCAPE AND IRRIGATION. PRIOR TO RELEASE OF BUILDING FOR OCCUPANCY, THE PROJECT LANDSCAPE ARCHITECT WILL SUBMIT A LETTER TO THE CITY CERTIFYING THE PLANTING AND IRRIGATION HAS BEEN INSTALLED IN CONFORMANCE WITH THE APPROVED PLANTING AND IRRIGATION PLANS, SUBJECT TO THE REVIEW AND APPROVAL OF THE CITY LANDSCAPE ARCHITECT. SECURITIES IN LIEU OF INSTALLATION WILL NOT BE ACCEPTED.

TREE PROTECTION NOTES:

- PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITY IN THE AREA, INCLUDING GRADING, TEMPORARY PROTECTIVE FENCING SHALL BE INSTALLED AT EACH SITE TREE. FENCING SHALL BE LOCATED AT OR BEYOND THE CANOPY DRIP LINE SO THAT 100% OF THE DRIP LINE WILL BE PROTECTED BY FENCING. TO REDUCE SOIL COMPACTION FROM EQUIPMENT.
- THE CONTRACTOR IS REQUIRED TO WATER, FERTILIZE AND ATTEND TO OTHER MAINTENANCE NEEDS OF EXISTING TREES AS NEEDED PER ARBORIST'S RECOMMENDATIONS TO MAINTAIN HEALTHY GROWTH THROUGHOUT THE CONSTRUCTION PERIOD. SIX FEET DIAMETER, MINIMUM, BY SIX INCH TALL EARTH BERMS SHALL BE CONSTRUCTED AT THE BASE OF EACH TREE TO FUNCTION AS TEMPORARY WATERING BASINS DURING THE CONSTRUCTION PERIOD. TREES SHALL BE WATERED ACCORDING TO WEATHER AND TREE REQUIREMENTS. APPROVED MULCH OF 1-2 INCH SIZED WOOD CHIPS SHALL BE PLACED AT A DEPTH OF 4 INCHES WHERE NO EXCAVATION IS TO OCCUR IN THE VICINITY OF THE TREES TO BE PROTECTED.
- THE TREE PROTECTION FENCE SHALL BE 6' HIGH SNOW FENCE WITH IMMOVABLE POSTS. THE FENCING SHALL FORM A CONTINUOUS BARRIER WITHOUT ENTRY POINTS AROUND EACH TREE. ANY ENCRoACHMENT INTO THE DRIP LINE FOR FENCING OR CONSTRUCTION PURPOSES SHALL NOT BE PERMITTED.
- LOW HANGING LIMBS OF SAVED TREES SHALL BE PRUNED PRIOR TO GRADING, OR ANY EQUIPMENT MOBILIZATION ON SITE. THE PURPOSE OF THIS REQUIREMENT IS TO AVOID TEARING LIMBS BY HEAVY EQUIPMENT. ALL LIMBS TO BE PRUNED SHALL BE SUPERVISED BY THE ARBORIST OF RECORD FOR THE JO.
- THIS FENCING SHALL SERVE AS A BARRIER TO PREVENT DRIP LINE ENCRoACHMENT OF ANY TYPE OF CONSTRUCTION ACTIVITIES AND EQUIPMENT. NO OILS, GAS, CHEMICALS, LIQUID WASTE, SOLID WASTE CONSTRUCTION MACHINERY OR CONSTRUCTION MATERIALS SHALL BE STORED OR ALLOWED TO STAND FOR ANY PERIOD OF TIME WITHIN THE DRIP LINE OF THE TREE. FURTHER, NO ONE SHALL ENTER THE FENCE PERIMETER FOR ANY REASON EXCEPT FOR THE PURPOSE OF MONITORING THE HEALTH OF THE TREE. ACCIDENTAL DAMAGE TO BARK, ROOT CROWN, OR LIMBS MAY INCREASE POTENTIAL FOR FUTURE DECLINE.
- CONTRACTORS AND SUBCONTRACTORS SHALL DIRECT ALL EQUIPMENT AND PERSONNEL TO REMAIN OUTSIDE THE FENCED AREA AND AT ALL TIMES UNTIL PROJECT IS COMPLETE, AND SHALL INSTRUCT EMPLOYEES AS TO THE PURPOSE AND IMPORTANCE OF FENCING.
- A 'TREE PROTECTION ZONE' SIGN SHALL BE POSTED AT EACH TREE INDICATING THE PURPOSE OF THE FENCING.
- THE ARBORIST OF RECORD FOR THE JOB OR THE CITY ARBORIST SHALL BE RESPONSIBLE FOR INSPECTION AND APPROVAL OF THE FENCING PRIOR TO ANY GRADING OPERATIONS.
- FENCING MUST REMAIN IN PLACE AND SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETED. THIS SHALL INCLUDE GRADING AND COMPACTION ACTIVITIES, INSTALLATION OF UNDERGROUND, ALL CONSTRUCTION ACTIVITIES AND ANY OTHER CONSTRUCTION OR ACTIVITY WHICH IS SCHEDULED PRIOR OR LANDSCAPE INSTALLATION.
- ROOTS OF SINGLE STANDING TREES OFTEN EXTEND UP TO THREE TIMES THE DISTANCE OF THE ACTUAL DRIP LINE AND FUNCTION PRIMARILY IN THEY UPTAKE OF NUTRIENTS AND WATER. THE DRIP LINE IS ARBITRARILY ESTABLISHED AS THE MINIMUM ROOT AREA GENERALLY REQUIRED TO PRESERVE TREE HEALTH. AS MUCH AREA AROUND THE CIRCUMFERENCE OF THE TREE SHOULD HAVE MINIMUM INTRUSION TO FURTHER INSURE TREE SURVIVAL AND HEALTH.
- UNAUTHORIZED TREE REMOVAL IS SUBJECT TO IN-KIND REPLACEMENT EQUAL TO THE VALUE OF THE MATURE RESOURCE LOST, AS DETERMINED BY THE CITY.
- NO MECHANICAL TRENCHING SHALL OCCUR WITHIN THE TREE PROTECTION ZONE. ANY EXCAVATION IF REQUIRED SHALL BE BY HAND, AIR SPADE OR BY VACUUM. CUTTING OF ANY ROOTS OVER 3" DIA SHALL BE REVIEWED BY AN ARBORIST.
- SEE TREE PRESERVATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL CONTRACT WITH AN ARBORIST AS REQUIRED TO ENSURE PROPER TREE HEALTH IF A PROJECT ARBORIST OR CITY ARBORIST HAS NOT BEEN CONTRACTED.



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DWN BY: DSS	CHK BY: MO	DATE: 06/09/2023	SCALE:	BY
				REVISION
				DATE
				NO.
FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION PROJECT				
L0.2 - PLANTING NOTES, LIST & LEGEND				
CONTRACT NO. C02336				
18 OF 68				
FILE NO. 2022-014				

TREE DISPOSITION TABLE			
TREE #	COMMON NAME	TRUNK CALIPER Ø	DESIGNATION
1	Chinese Pistache	6" Ø	Preserve
2	Chinese Pistache	7" Ø	Preserve
3	Pear	6" Ø	Preserve
4	Pear	11" Ø	Preserve
5	Pear	5" Ø	Preserve
6	London Plane	10" Ø	Preserve
7	London Plane	10" Ø	Preserve
8	London Plane	12" Ø	Preserve
9	London Plane	10" Ø	Preserve
10	London Plane	10" Ø	Preserve
11	Oak	10" Ø	Preserve
12	London Plane	10" Ø	Preserve
13	Oak	10" Ø	Preserve
14	Oak	21" Ø	Preserve
15	Pear	6" Ø	Demo
16	Pear	11" Ø	Demo
17	Maple	12" Ø	Demo
18	Pear	14" Ø	Demo
19	Pear	10" Ø	Demo
20	Pear	10" Ø	Demo
21	Pear	8" Ø	Demo
22	Pear	10" Ø	Demo
23	Pear	7" Ø	Demo
24	Pear	7" Ø	Demo
25	Pear	8" Ø	Demo
26	Pear	13" Ø	Demo
27	Pear	8" Ø	Demo
28	Pear	11" Ø	Demo
29	Pear	8" Ø	Demo
30	Pear	7" Ø	Demo
31	Pear	10" Ø	Demo
32	Pear	8" Ø	Demo
33	Pear	12" Ø	Demo
34	Pear (Multi)	30" Ø	Demo
35	Redwood	16" Ø	Preserve
36	Redwood	30" Ø	Preserve
37	Redwood	30" Ø	Preserve
38	Redwood	30" Ø	Preserve
39	Redwood	30" Ø	Preserve
40	Redwood	30" Ø	Preserve
41	Redwood	10" Ø	Preserve
42	Oak	22" Ø	Preserve
43	Maple	8" Ø	Preserve
44	Maple	6" Ø	Preserve
45	Maple	10" Ø	Preserve
46	Oak	20" Ø	Preserve
47	Maple	8" Ø	Preserve
48	Maple	8" Ø	Preserve
49	Maple	6" Ø	Preserve
50	Maple	8" Ø	Preserve
51	Maple	8" Ø	Preserve
52	Oak	22" Ø	Preserve

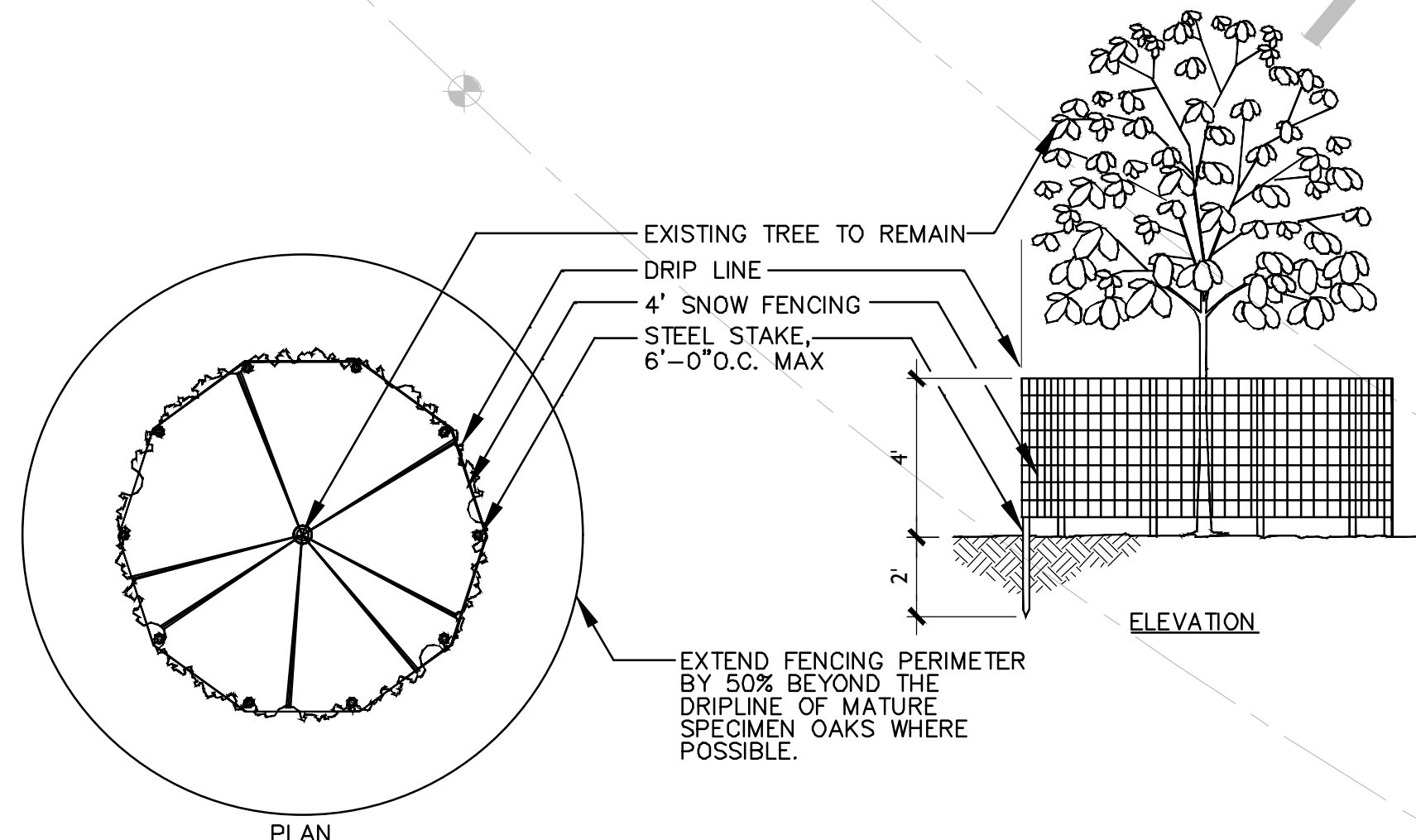
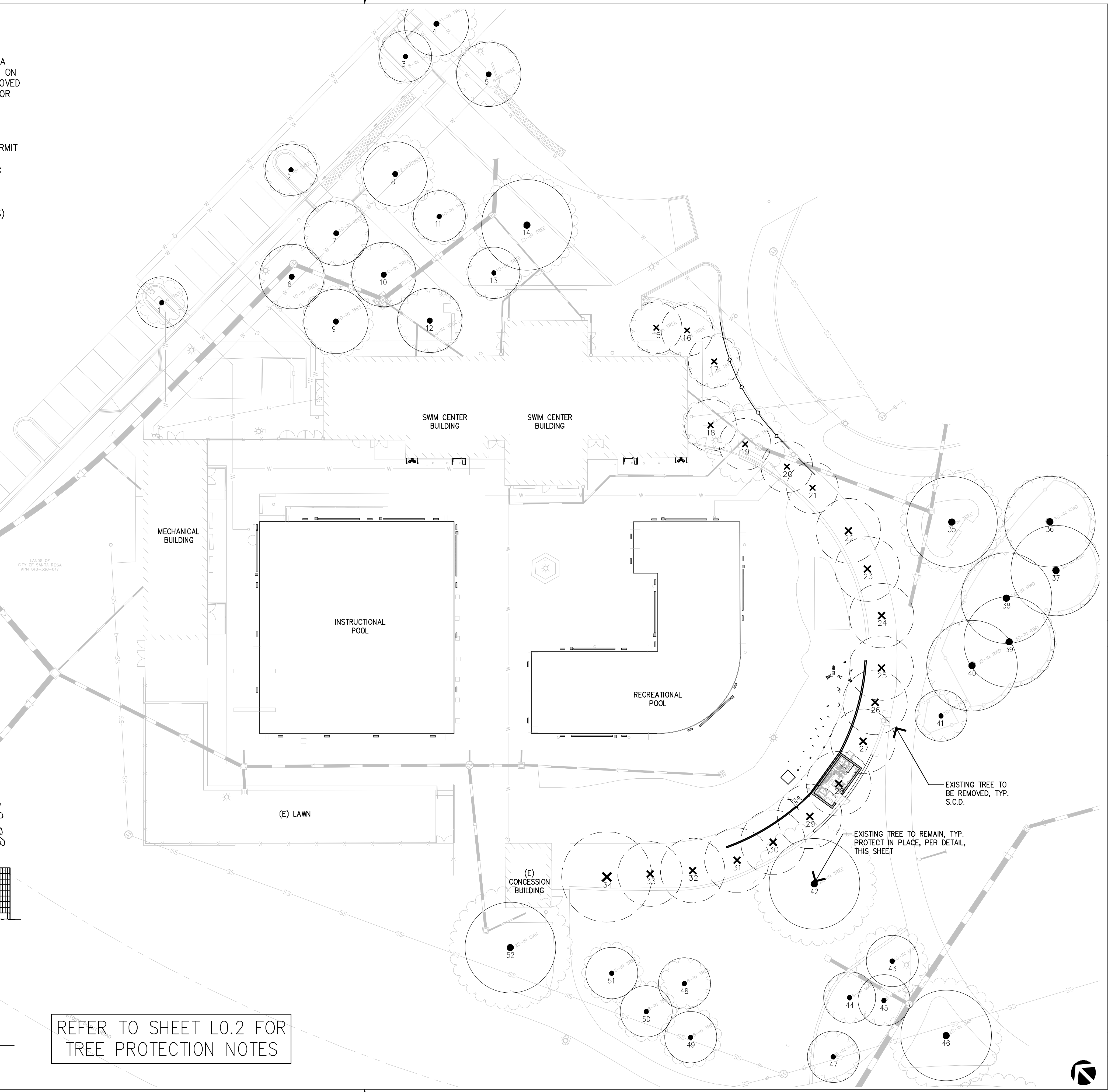
PROTECTED TREE:

A PROTECTED TREE IS ANY TREE, INCLUDING A HERITAGE TREE, INDICATED TO BE PRESERVED ON AN APPROVED DEVELOPMENT PLAN, AN APPROVED TENTATIVE MAP OR TENTATIVE PARCEL MAP, OR OTHER APPROVED DEVELOPMENT.

EXEMPT TREES:

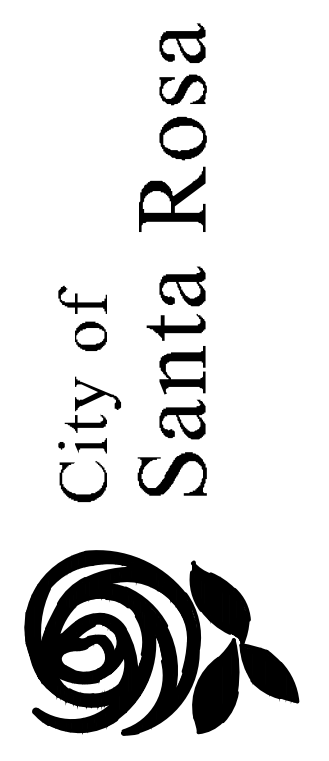
THE FOLLOWING TREES ARE EXEMPT FROM PERMIT REQUIREMENTS IN ALL ZONING DISTRICTS, WHETHER THE PARCEL IS DEVELOPED OR NOT:

- ACACIAS
- AILANTHUS
- FRUIT AND NUT TREES (EXCEPT WALNUTS)
- FRUITLESS MULBERRY
- HAWTHORN
- LIGUSTRUMS
- MONTEREY CYPRESS
- MONTEREY PINE
- POPLARS
- PYRACANTHA
- SILVER MAPLE



1 EXISTING TREE PROTECTIVE FENCING
SCALE: 1/4" = 1'-0"

REFER TO SHEET L0.2 FOR TREE PROTECTION NOTES



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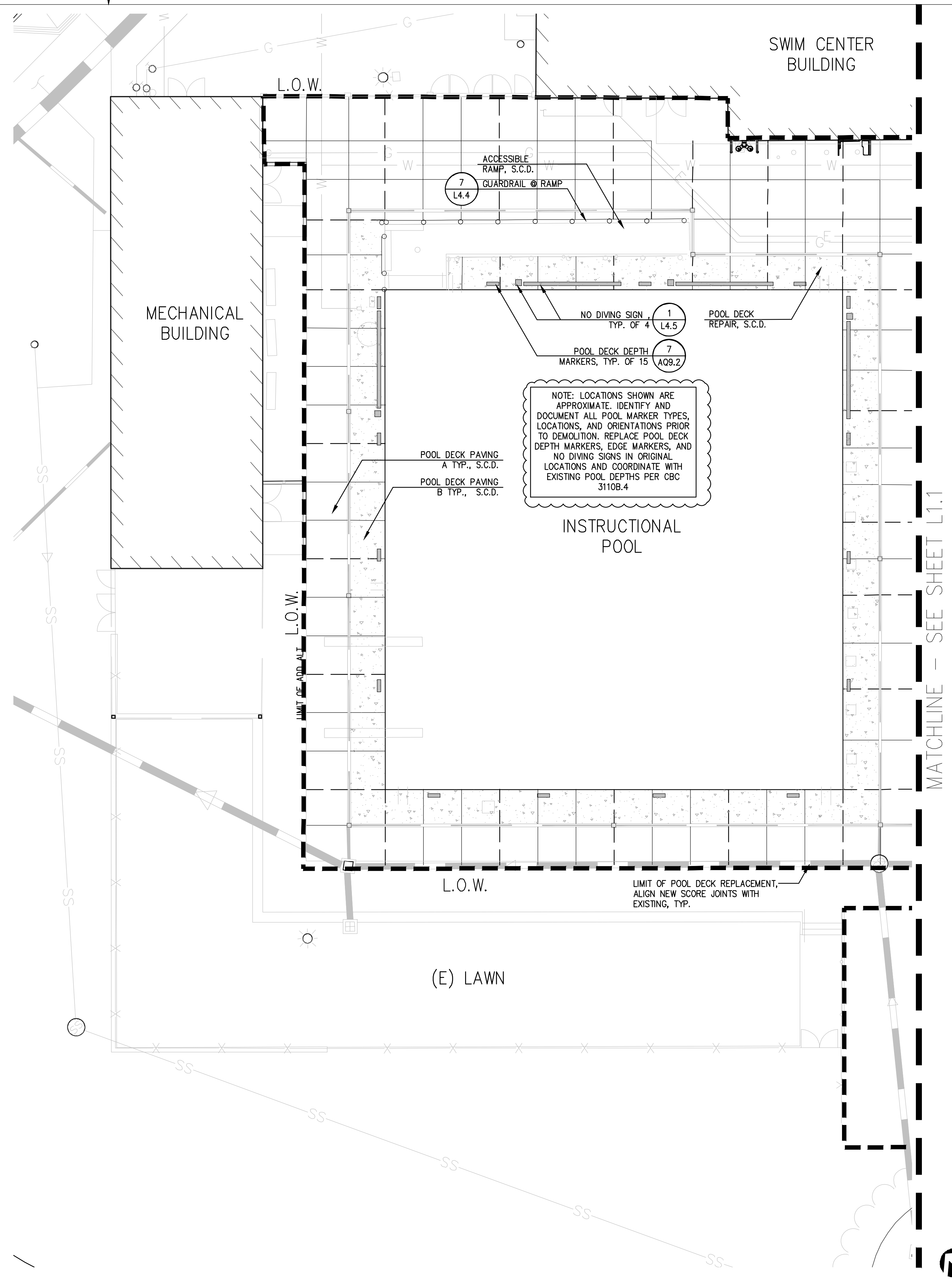
NO.	DATE	REVISION	BY

FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT

L1.0 - TREE DISPOSITION PLAN

DWN BY: DSS
CHK BY: MO
DATE: 06/09/2023
SCALE: 1" = 20'-0"

CONTRACT NO. C02336
19 OF 68
FILE NO. 2022-014



City of
Santa Rosa



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SPRAY GROUND AND RENOVATION
PROJECT

L1.2 - LAYOUT PLAN

CONTRACT NO.
C02336

21 OF 68

FILE NO. 2022-014

MATCHLINE - SEE SHEET L1.1



WATER USE ESTIMATION

WATER TYPE	RECYCLED											
SITE ETO=	42											

HYDROZONE #	HYDROZONE NAME	PLANT WATER USE TYPE	PLANT FACTOR (PF)	IRRIGATION METHOD	IRRIGATION EFFICIENCY	ETAF (PF/IE)	AREA (SQ. FT) (HA)	ETAF X AREA (HA)	ETWU (GAL/YR)	ACRE FEET/YEAR	HCF/YEAR	PERCENTAGE OF LANDSCAPE
1	Shrub	LOW	0.2	DRIP	0.81	0.25	1,050	259	6,751	0.02	9.03	24%
2	Palm Tree	LOW	0.2	DRIP	0.81	0.25	250	62	1,607	0.00	2.15	6%
3	Shrubs in raised planters	LOW	0.2	DRIP	0.81	0.25	280	64	1,672	0.01	2.23	6%
4	Shrub	LOW	0.2	DRIP	0.81	0.25	1,500	370	9,644	0.03	12.89	35%
5	Tree	LOW	0.2	DRIP	0.81	0.25	50	12	321	0.00	0.43	1%
6	Tree	LOW	0.2	DRIP	0.81	0.25	50	12	321	0.00	0.43	1%
7	Shrub	LOW	0.2	DRIP	0.81	0.25	1,185	293	7,619	0.02	10.19	27%
TOTALS							4,345	1,073	27,937	0.09	37.35	100%

HYDROZONE #	HYDROZONE NAME	ETAF	AREA (SQ. FT)	ETAF X AREA (HA)	ETWU (GAL/YR)	ACRE FEET/YEAR	HCF/YEAR	PERCENTAGE OF LANDSCAPE
1			0					0%
TOTALS			0					0%

MAWA	GALLONS/YR		MAWA FORMULA		ETWU FORMULA	
	ACRE FEET/YR	0.16	MAXIMUM APPLIED WATER ALLOWANCE (MAWA) GALLONS PER YEAR	ESTIMATED TOTAL WATER USE (ETWU) GALLONS PER YEAR		
	HCF/YR	68.07	MAWA = (ETO) x 0.62 [(LA x 0.45) + (0.55 x SLA)]	ETWU = (ETO) x 0.62 (ETAF x LA)		

ETWU	GALLONS/YR		ETAF Calculations	
	ACRE FEET/YR	0.09	ETAF = REFERENCE EVAPOTRANSPIRATION	ETAF = REFERENCE EVAPOTRANSPIRATION
	HCF/YR	37.35	0.45 = ET ADJUSTMENT FACTOR	0.62 = CONVERSION FACTOR (GALLONS/SQ. FT/YR)

SITE IRRIGATION EFFICIENCY	SITE PLANT FACTOR	MAWA COMPLIANT
57.0%	0.14	YES

ETAF Calculations		
TOTAL ETAF x AREA	1,073	
TOTAL AREA	4,345	
AVG. ETAF	24.69%	

BUBBLER IRRIGATION @ LOW WATER-USE PLANT AREAS													
SPRINKLER MANUFACTURER	RAIN BIRD		LOCATION:		SANTA ROSA, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):	1.50		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY	0.81		HEAD GPM:		0.2500								
PLANT FACTOR:	0.30												
YEAR 2 REDUCTION AMOUNT:	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):	1.50	1.80	3.10	4.10	5.50	5.80	6.50	5.90	5.20	3.30	1.80	1.00	42.00
ETO PER WEEK (INCHES):	0.346	0.416	0.716	0.947	1.270	1.339	1.501	1.363	1.201	0.762	0.416	0.231	
APPLIED ETO PER WEEK (INCHES):	0.128	0.154	0.265	0.351	0.470	0.496	0.556	0.505	0.445	0.282	0.154	0.086	
MINUTES OF WATER PER WEEK:	YEAR 1	5	6	11	14	19	20	20	18	11	6	3	
	YEAR 2	5	6	10	13	17	18	20	18	10	6	3	
DAYS PER WEEK:	YEAR 1	1	1	2	2	3	4	4	3	2	1	1	
	YEAR 2	1	1	2	2	3	4	4	3	2	1	1	
MINUTES OF WATER PER DAY:	YEAR 1	5	6	5	7	6	5	6	5	6	6	3	
	YEAR 2	5	6	5	6	6	4	5	5	5	6	3	
CYCLES PER DAY:	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	
	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	
MINUTES PER CYCLE:	YEAR 1	5	6	5	7	6	5	6	5	6	6	3	
	YEAR 2	5	6	5	6	6	4	5	5	5	6	3	

BUBBLER IRRIGATION @ LOW WATER-USE TREES													
SPRINKLER MANUFACTURER	RAIN BIRD		LOCATION:		SANTA ROSA, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):	3.00		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY	0.81		HEAD GPM:		2 X .25								
PLANT FACTOR:	0.30												
YEAR 2 REDUCTION AMOUNT:	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):	1.50	1.80	3.10	4.10	5.50	5.80	6.50	5.90	5.20	3.30	1.80	1.00	42.00
ETO PER WEEK (INCHES):	0.346	0.416	0.716	0.947	1.270	1.339	1.501	1.363	1.201	0.762	0.416	0.231	
APPLIED ETO PER WEEK (INCHES):	0.128	0.154	0.265	0.351	0.470	0.496	0.556	0.505	0.445	0.282	0.154	0.086	
MINUTES OF WATER PER WEEK:	YEAR 1	3	3	5	7	9	10	11	10	9	6	3	
	YEAR 2	2	3	5	6	8	9	10	9	8	5	3	
DAYS PER WEEK:	YEAR 1	1	1	1	1	1	2	2	2	1	1	1	
	YEAR 2	1	1	1	1	1	2	2	2	1	1	1	
MINUTES OF WATER PER DAY:	YEAR 1	3	3	5	7	9	5	6	5	9	6	3	
	YEAR 2	2	3	5	6	8	4	5	5	8	5	3	
CYCLES PER DAY:	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	
	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	
MINUTES PER CYCLE:	YEAR 1	3	3	5	7	9	5	6	5	9	6	3	
	YEAR 2	2	3	5	6	8	4	5	5	8	5	3	

NOTES:
 THE CHARTS ARE INTENDED TO BE USED AS A GUIDELINE ONLY AND INDICATE APPROXIMATE RUN TIMES (IN MINUTES) FOR EACH ZONE BASED ON ESTIMATED WEEKLY WATER REQUIREMENTS FOR ESTABLISHED PLANT MATERIAL. THE FIGURES SHOWN IN THIS SCHEDULE ARE APPROXIMATE AND HAVE BEEN DEVELOPED FROM LOCAL CURRENT AVERAGES FOR EVAPOTRANSPIRATION, AND REFLECT MAXIMUM IRRIGATION REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT TYPE AND SPACING. ACTUAL RUN TIMES MAY BE DIFFERENT DEPENDING ON A VARIETY OF FACTORS INCLUDING TOPOGRAPHY, SOIL STRUCTURE, SUN AND WIND EXPOSURE, WEATHER, ACTUAL PLANT WATER REQUIREMENTS, ETC.

IRRIGATION LEGEND - RECYCLED WATER

SYMBOL	MODEL NUMBER	DESCRIPTION	PSI	GPH
●	DB-04-PC-CV	TORO PRESSURE COMPENSATING DRIP BUBBLER, ONE PER SHRUB	30	4
■▲	DB-09-PC-CV	TORO PRESSURE COMPENSATING DRIP BUBBLER, ON FLEX RISER. INSTALL 2 BUBBLERS PER TREE, 4 BUBBLERS AT PALM TREES.	30	9
⊙	DZK-700/LT-1000-T	TORO DRIP VALVE KIT-INCLUDES REMOTE CONTROL VALVE, WYE FILTER WITH 150 MESH SCREEN AND PRESET PRESSURE REGULATOR/ NS SCHEDULE 80 PVC BALL VALVE		
⊗	T-113-K	NIBCO GATE VALVE (LINE SIZE) IN ROUND BOX		
⊗	LFB6000	WATTS LEAD FREE BALL VALVE (LINE SIZE) ISOLATION VALVE INTO VALVE MANIFOLD		
◆	33-DNP/33-DK/SH-10	RAIN BIRD QUICK COUPLER VALVE WITH 3/4" VALVE KEY AND HOSE SWIVEL FOR RECYCLED WATER. 2 PIECE		
—	CL-100	INSTALL CLIMATE LOGIC CL-100 WIRELESS WEATHER SENSOR SYSTEM TO EXISTING CONTROLLER(S) UTILIZED FOR NEW IRRIGATION VALVES.		
⊙	TO BE FIELD VERIFIED	EXISTING IRRIGATION CONTROLLERS TO REMAIN IN SERVICE		
⊙	TO BE FIELD VERIFIED	EXISTING IRRIGATION CONTROL VALVES TO REMAIN IN SERVICE		
⊙	SEE DETAILS	RECYCLED WATER NOTIFICATION SIGN INSTALLED PER DISTRICT STANDARDS		
⊙	1" 15'	STATION NUMBER TO BE FIELD VERIFIED		
⊙		GALLONS PER MINUTE		
⊙		VALVE SIZE		
⊙		EXISTING PVC MAINLINE AND WIRES TO REMAIN IN SERVICE AND TO BE PROTECTED IN PLACE DURING CONSTRUCTION.		
⊙		MAINLINE: 1120-SCHEDULE 40 PURPLE PVC WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. PIPE FOR RECLAIMED WATER BY "PW PURPLE PLUS" OR EQUAL WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 24" COVER IN PLANTING AREAS.		
⊙		LATERAL LINE: 1120-SCHEDULE 40 PVC PLASTIC PIPE BY "PW PURPLE PIPE" OR EQUAL WITH SCHEDULE 40 PVC PLASTIC FITTINGS. 18" COVER IN PLANTED AREAS.		
⊙		SLEEVE: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD PLASTIC FITTINGS. 24" COVER BELOW BOTTOM OF STREET PAVEMENT SECTION. SLEEVE LOCATIONS TO BE COORDINATED WITH CIVIL PLANS.		

LATERAL LINE SIZING CHART

SPRINKLER TYPE	GPM	PIPE SIZE	NO. OF BUBBLERS*
SHRUB BUBBLERS 0.67 GPM	1-9	3/4"	1-33
	9.15-14	1"	34-66
	15.15-24	1 1/4"	67-133
	24.15-30	1 1/2"	134-166
TREE BUBBLERS 0.15 GPM	1-9	3/4"	1-10
	9.5-15	1"	11-20
	15.5-24	1 1/4"	21-40

* QUANTITY INDICATES NO. OF BUBBLERS, NOT NO. OF TREES. THERE ARE TWO BUBBLERS PER TREE AND ONE BUBBLER PER SHRUB.



City of Santa Rosa



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NO.	DATE	REVISION	BY

DWN BY: DSS	CHK BY: MO	DATE: 06/09/2023	SCALE:
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FINLEY AQUATIC CENTER
 SPRAY GROUND AND RENOVATION PROJECT
 L3.2 - IRRIGATION NOTES & LEGEND

IRRIGATION NOTES - RECYCLED WATER

- NO WORK SHALL START UNTIL THE CONTRACTOR HAS COMPLETE FAMILIARIZATION WITH THE DISTRICT STANDARDS AND ISSUANCE OF THE REQUIRED PERMITS.
- NOTIFY THE DISTRICT'S AUTHORIZED REPRESENTATIVE NO LESS THAN 2 WORKING DAYS PRIOR TO THE START OF WORK FOR INSPECTION SCHEDULE COORDINATION.
- THE IRRIGATION SYSTEM DESIGN FOR THIS SITE IS BASED ON A STATIC PRESSURE AT THE RECYCLED WATER METER OF 70 PSI. THE CONTRACTOR SHALL VERIFY THE AVAILABLE PRESSURE AT THE POINT OF CONNECTION PRIOR TO THE START OF CONSTRUCTION. ANY DEVIATION FROM THE DESIGN PRESSURE SHOWN ABOVE SHALL BE REPORTED TO THE IRRIGATION SYSTEM DESIGNER OR PROPERTY OWNER IMMEDIATELY.
- ALL PIPING AND IRRIGATION SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED SO THAT SPRAY OR RUNOFF SHALL NOT ENTER A DWELLING, FOOD HANDLING FACILITY, OR EATING AREA AND SHALL NOT CONTACT ANY DRINKING WATER FOUNTAIN. IRRIGATION WITH RECYCLED WATER SHALL BE ACCOMPLISHED AT A TIME AND MANNER THAT MINIMIZES THE POSSIBILITY OF PUBLIC CONTACT. THE CONTRACTOR SHALL CONDUCT PRESSURE AND COVERAGE TESTS WHEN WIND CONDITIONS ARE SUCH THAT WATER WILL NOT BE WINDBLOWN. RECYCLED WATER OVERSPRAY ON TO AREAS NOT CONTROLLED BY THE OWNER IS PROHIBITED.
- THE CONTRACTOR SHALL PROPERLY SUPERVISE AND INFORM ALL INDIVIDUALS INVOLVED IN THE INSTALLATION OF THE RECYCLED WATER IRRIGATION SYSTEM THAT RECYCLED WATER IS UNFIT FOR CONSUMPTION OR FOR HYGIENIC USE. A FIRST AID KIT SHALL BE AVAILABLE AT ALL TIMES DURING INSTALLATION AND OPERATION OF IRRIGATION SYSTEM.
- ALL RECYCLED WATER PIPING SHALL USE PURPLE COLORED AND STENCILED PIPE, PURPLE RECYCLED WATER WARNING TAPE CONTINUOUSLY APPLIED TO THE PIPE, OR MARKED PLASTIC ENCASUREMENT. ALL MARKING SHALL INCLUDE THE FOLLOWING OR SIMILAR WORDS: "CAUTION: RECYCLED WATER – DO NOT DRINK".
- WARNING TAPE OR PIPE ENCASUREMENT INSTALLED SHALL BE AS MANUFACTURED BY T. CHRISTY ENTERPRISES, RENCOR OR EQUAL.
- INSTALL VALVES, METERS AND APPURTENANCES IN PURPLE COLORED VALVE BOXES WITH PURPLE LIDS. THE VALVE BOX LID SHALL HAVE THE FOLLOWING WARNINGS MOLDED OR HOT-STAMPED UPON IT: "RECYCLED WATER", OR USE WARNING LABEL BY T. CHRISTY ENTERPRISES 3800 OR EQUAL.
- ALL SPRINKLERS USED IN CUSTOMER RECYCLED WATER FACILITIES SHALL HAVE AN EXPOSED SURFACE COLORED PURPLE TO ASSOCIATE THEM WITH RECYCLED WATER USE. THE EXPOSED SURFACE MAY BE COLORED PURPLE THROUGH THE USE OF: (1) DYED PLASTIC OR RUBBER, OR (2) WEATHERPROOF PAINT.
- INSTALL WARNING TAGS AS MANUFACTURED BY T. CHRISTY ENTERPRISES 3150 OR EQUIVALENT TO ALL SUCH CONTROL VALVES, GATE VALVES, QUICK COUPLER VALVES, CONTROLLERS, METERS, ETC. TAGS SHALL BE WEATHERPROOF PLASTIC, 3-INCH BY 4-INCH, PURPLE IN COLOR WITH THE WORDS "WARNING: RECYCLED WATER – DO NOT DRINK" IMPRINTED ON ONE SIDE AND "AVISO: AQUA IMPURA – NO TOMAR" ON THE OTHER SIDE, OR SIMILAR AS APPROVED BY THE DISTRICT ENGINEER. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR.
- PRIOR TO INSTALLATION, LOCATE DOMESTIC WATER MAINS AND/OR LATERALS (AS APPROPRIATE). RECYCLED WATER IRRIGATION PIPELINES AND PRIVATE POTABLE WATER PIPELINES SHALL BE INSTALLED IN SEPARATE TRENCHES WITH THE GREATEST POSSIBLE HORIZONTAL SEPARATION FROM PRIVATE POTABLE WATER PIPELINES. WHERE POSSIBLE MINIMUM CLEARANCES OF 10' FOOT HORIZONTAL AND 1' FOOT VERTICAL SHALL BE MAINTAINED BETWEEN POTABLE AND RECYCLED WATER LINES. WHERE RECYCLED WATER IRRIGATION PIPELINES AND PRIVATE POTABLE WATER PIPELINES CROSS, THE POTABLE WATER PIPE SHALL BE INSTALLED A MINIMUM OF TWELVE (12) INCHES ABOVE THE RECYCLED WATER PIPING.
- RECYCLED WATER PIPING SHALL BE INSTALLED AT THE FOLLOWING MINIMUM DEPTHS FROM FINISHED GRADE TO TOP OF PIPE (MINIMUM COVER) SHALL BE AS FOLLOWS: A) CONSTANT PRESSURE LINES 3 INCHES OR LARGER: 24 INCHES B) CONSTANT PRESSURE LINES 2-1/2 INCHES AND SMALLER: 18 INCHES C) INTERMITTENT PRESSURE LINES: 12 INCHES WHERE PIPING IS UNDER PAVED AREAS, THESE DIMENSIONS SHALL BE INCREASED TO INCLUDE THE ROADWAY SECTION AND ADEQUATELY PROTECT THE PIPING FROM DAMAGE FROM TRAFFIC LOADS.
- (USE THIS NOTE ONLY IF POTABLE WATER SERVICE IS AVAILABLE.) NO HOSE BIBS SHALL BE USED FOR RECYCLED WATER SYSTEMS. QUICK-COUPLING VALVES SHALL BE CONSTRUCTED OF BRASS WITH A PURPLE RUBBER OR VINYL COVER, AND SHALL HAVE A 1-INCH INLET WITH ACME THREAD BODY, NELSON MODEL 7645 OR EQUAL, AND KEY, NELSON MODEL 7640 OR EQUAL.
- RECORD DRAWINGS OF CUSTOMER FACILITY IRRIGATION SYSTEMS SHALL BE PROVIDED TO THE DISTRICT.
- THE IRRIGATION CONTROLLER SHALL BE PROGRAMMED TO WATER BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM ONLY. ADDITIONAL RESTRICTED WATERING TIMES MAY BE ESTABLISHED BASED ON SITE CONDITIONS AS APPROVED BY THE DISTRICT REPRESENTATIVE.
- FLUSHING OF RECYCLED WATER THROUGH IRRIGATION SYSTEM PIPING SHALL BE PERFORMED IN A MANNER THAT MINIMIZES DISCHARGE FROM THE SITE OR CREATES PONDING. FLUSHING SHALL NOT BE PERMITTED IN A WAY THAT CREATES PUDDLES THAT ALLOWS THE RECYCLED WATER TO BECOME STAGNANT. FLUSHING INTO THE SANITARY SEWER IS THE MOST ACCEPTABLE WAY TO DISCHARGE RECYCLED WATER. IF THIS IS NOT POSSIBLE, THEN FLUSHING MAY BE DONE BY DIVERTING RECYCLED WATER INTO A STORAGE TANK, TANK TRUCK OR OTHER APPROVED HOLDING FACILITY. HOLDING FACILITIES MUST BE CLEARLY MARKED WITH WARNING SIGNS. RECYCLED WATER SHALL BE TRANSPORTED AND DISCHARGED AT AN APPROVED SITE IN AN APPROVED MANNER.
- WHERE BOTH POTABLE AND RECYCLED WATER CUSTOMER FACILITIES ARE PRESENT AT A SITE, A CROSS-CONNECTION INSPECTION AND TEST SHALL BE PERFORMED ON BOTH THE POTABLE AND RECYCLED WATER SYSTEMS. THE CROSS-CONNECTION TEST WILL BE CONDUCTED BY DISTRICT STAFF IN ACCORDANCE WITH SECTION IV-B3 OF THE DISTRICT STANDARDS. THE CONTRACTOR SHALL REQUEST THE CROSS-CONNECTION TEST BY THE DISTRICT A MINIMUM OF 2 DAYS PRIOR TO THE PERFORMING THE TEST. RECYCLED WATER PIPING SHALL BE TESTED USING POTABLE WATER WITH AN APPROVED BACKFLOW PREVENTION DEVICE. THE BACKFLOW TESTING SHALL BE PERFORMED IN ACCORDANCE WITH DISTRICT SPECIFICATIONS, SECTION II-B3 AND SHALL BE CERTIFIED PRIOR TO ANY CROSS-CONNECTION TESTING.
- THE CONTRACTOR SHALL PERFORM A COVERAGE TEST IN THE PRESENCE OF DISTRICT INSPECTION STAFF TO CONFIRM THAT EXCESSIVE OVERSPRAY DOES NOT OCCUR IN ACCORDANCE WITH SECTION IV-B3-L3. ANY MODIFICATIONS IN EITHER THE SYSTEM EQUIPMENT, OR ADJUSTMENT IDENTIFIED BY THE DISTRICT DURING THE COVERAGE TEST SHALL BE COMPLETED IN ACCORDANCE WITH THE SCHEDULE AND CONDITIONS DETERMINED BY THE DISTRICT AT THE TIME OF THE TEST.
- IN ALL AREAS WHERE THE PUBLIC MAY BE EXPOSED TO RECYCLED WATER, WARNING SIGNS SHALL BE INSTALLED AT JOINTLY APPROVED CITY AND DISTRICT LOCATIONS. SIGNS SHALL BE IN ACCORDANCE WITH DISTRICT STANDARD DETAILS, AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE DISTRICT'S STANDARD DETAILS.

SUPPLEMENTAL IRRIGATION NOTES

- THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS WHERE FEASIBLE. WHEN INSTALLED WITHIN PAVING AREAS ALL VALVES, SPLICE BOXES, ETC SHALL BE INSTALLED WITHIN A PRECAST CONCRETE BOX. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.
- THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO HIS WORK.
- UNDERGROUND SERVICE ALERT (USA): FOR EXISTING UTILITY LOCATIONS, CONTRACTOR SHALL NOTIFY USA, 811 OR 800.227.2600 AT LEAST TWO (2) FULL WORKING DAYS PRIOR TO ALL PLANNED WORK OPERATIONS. THE U.S.A. AUTHORIZATION NUMBER SHALL BE KEPT AT THE SITE.
- EXISTING UTILITIES, UNDERGROUND FACILITIES & SITE IMPROVEMENTS: LOCATIONS & ELEVATIONS OF ALL EXISTING UTILITIES (UNDERGROUND & OVERHEAD) & SITE IMPROVEMENTS, IF SHOWN ON THE PLANS, ARE APPROXIMATE ONLY. FIELD VERIFY LOCATION. PROTECT EXISTING UTILITIES & SITE IMPROVEMENTS FROM DAMAGE. CONTRACTOR TO TAKE SPECIAL PRECAUTIONS WHEN WORKING NEAR HIGH RISK UTILITIES.
- CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANY TO OBTAIN INFORMATION REGARDING THE EXACT DEPTH OF BURIAL & HORIZONTAL LOCATION OF UTILITY LINES AS NECESSARY. CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS & ADJUSTMENTS WITH THE APPROPRIATE UTILITY COMPANIES.
- PRIOR TO PERFORMING UNDERGROUND CONSTRUCTION, THE CONTRACTOR SHALL MAKE THE NECESSARY PROBES TO IDENTIFY AREAS OF POSSIBLE CONFLICT WITH PROPOSED CONSTRUCTION AS CONTRACTOR SHALL EXCAVATE TO DETERMINE TYPES, EXTENT, SIZE, AND DEPTHS OF UNDERGROUND UTILITIES. COORDINATE WORK TO AVOID CONFLICTS BETWEEN PROPOSED IMPROVEMENTS & EXISTING UNDERGROUND FACILITIES, SEWER LATERALS, STORM DRAINS & WATER
- FIELD CHANGES: CONTRACTOR SHALL NOTIFY CITY'S REPRESENTATIVE IMMEDIATELY UPON DISCOVERY OF ANY POTENTIAL FIELD CHANGES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY.
- SITE RESTORATION: CONTRACTOR SHALL REPLACE OR RESTORE TO PRECONSTRUCTION CONDITION ALL PAVING, UTILITIES, SERVICES, IRRIGATION, LANDSCAPE MATERIALS, PAVEMENT DELINEATION & OTHER IMPROVEMENTS, THAT ARE NOT TO BE REMOVED BUT ARE DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL NOTE AND INSTALL SLEEVE LOCATIONS AS SHOWN ON IRRIGATION PLANS. IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED BY A LICENSED CONTRACTOR IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES/ORDINANCES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATED TO HIS WORK ON THE PROJECT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH GRADE DIFFERENCES AND WITH ALL LOCATIONS OF STRUCTURES, UTILITIES, AND FENCES. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHERS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND
- IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN ACCURATE AS-BUILT SET OF IRRIGATION DRAWINGS PRIOR TO FINAL ACCEPTANCE OF THE WORK. THE AS-BUILT DRAWINGS SHALL BE DELINEATED ON REPRODUCIBLE MATERIALS TO BE SUPPLIED BY THE LANDSCAPE ARCHITECT.
- INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE 12" APART. SHORT SIDE OF RECTANGULAR BOX SHALL BE PARALLEL TO WALK, CURB, ETC. DO NOT LOCATE BOXES WITHIN BIORETENTION AREAS.
- FOR PLANTS ON A SLOPE, LOCATE SHRUB BUBBLER ON UP-SLOPE OF PLANT.
- THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL BUBBLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT RUNOFF ONTO WALKS OR ROADWAYS AS MUCH AS POSSIBLE. THROTTLE THE FLOW CONTROL OR ADJUST THE PRESURE REGULATION MODULE AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF BUBBLERS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES
- PLASTIC VALVE BOXES ARE TO BE PURPLE IN COLOR WITH BOLT DOWN, NON-HINGED COVER MARKED "IRRIGATION". BOX SHALL HAVE KNOCK OUTS. MANUFACTURER SHALL BE CARSON INDUSTRIES. VALVE BOX LIDS SHALL BE HEAT STAMPED OR ENGRAVED IN 1-1/2" LETTERS THE CONTENTS OF THE BOX. (REMOTE CONTROL VALVE NUMBERS (C-5), QUICK COUPLING VALVE (QC), GATE VALVE (GV), MASTER VALVE (MV), FLOW SENSOR (FS), WIRE SPLICE (WS), ETC.)

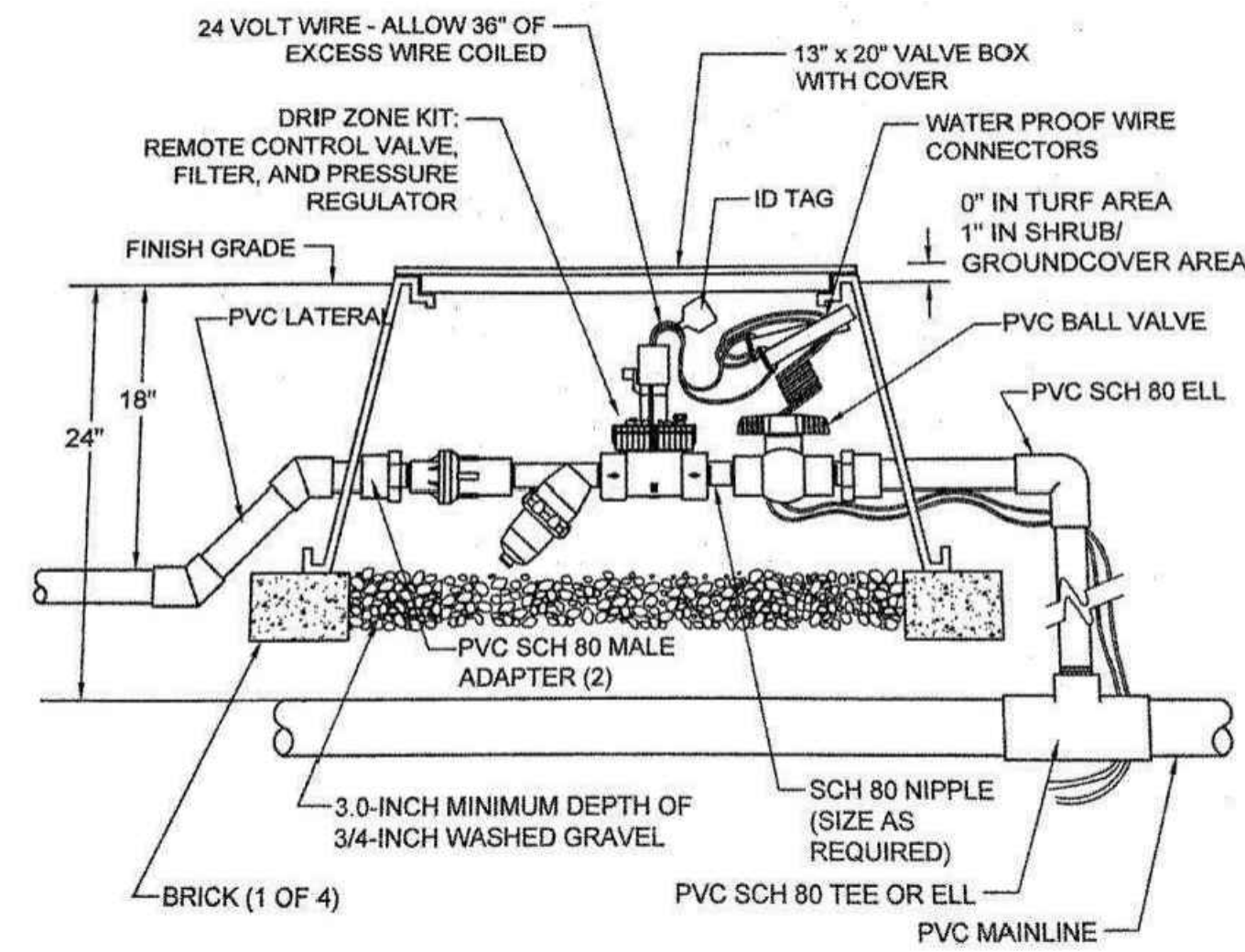
- THE CONTRACTOR SHALL FLUSH, AND ADJUST ALL HEADS AND VALVES FOR OPTIMUM COVERAGE WHERE APPLICABLE.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THEN WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- OPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM.
- CONTROL WIRES SHALL BE UL APPROVED COPPER SINGLE STRAND TYPE UF DIRECT BURIAL 14 GAUGE RED IN COLOR. COMMON WIRES SHALL BE UL APPROVED COPPER SINGLE STRAND TYPE UF DIRECT BURIAL 12 GAUGE WHITE IN COLOR. SPARE CONTROL WIRES SHALL BE UL APPROVED COPPER SINGLE STRAND TYPE UF DIRECT BURIAL 14 GAUGE BLUE IN COLOR.
- REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SEQUENCE AS SHOWN ON PLANS. RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.
- INSTALL KBI BPC SERIES (OR EQUAL) IN-LINE 5# SPRING CHECK VALVES FOR DRIP BUBBLER AND TREE BUBBLER LATERAL LINES AT EVERY 10' ELEVATION CHANGE OR AS NEEDED TO PREVENT LOW HEAD DRAINAGE. KBI KSC SERIES (OR EQUAL) SOLVENT WELD SWING CHECK VALVES CAN BE USED IN LATERAL LINES TO ISOLATE WATER FROM REVERSE FLOW WHERE NEEDED AT SLOPES TO PREVENT LOW HEAD DRAINAGE.
- MAINTAIN 6" MINIMUM CLEARANCE BETWEEN SOLVENT WELD FITTINGS ON IRRIGATION MAINLINE AND LATERAL LINE PIPES. MAINTAIN MINIMUM 10' CLEARANCE BETWEEN POTABLE AND CONSTANT PRESSURE RECYCLED WATER MAINLINES LINES. MAINTAIN MINIMUM 3' CLEARANCE BETWEEN CONSTANT PRESSURE RECYCLED WATER MAINLINE AND PG&E FACILITIES PER PG&E UO STANDARD S5453.
- WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES, AND TREE ROOTS. EXCAVATION IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. ROOTS TWO (2) INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN BURLAP UNTIL BACKFILLED. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN TWENTY-FOUR (24) HOURS; WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.
- INSTALL VALVE BOXES 12" FROM AND PERPENDICULAR TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, ETC. AND EACH BOX SHALL BE 12" APART. SHORT SIDE OF VALVE BOX SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC.
- THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- WHEN VERTICAL OBSTRUCTIONS (STREET LIGHTS, TREES, FIRE HYDRANTS, ETC.) INTERFERE WITH INSTALLATION OF THE BUBBLERS, THE IRRIGATION CONTRACTOR SHALL FIELD ADJUST THE SYSTEM BY ROUTING AROUND THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- THE DESIGN INTENT OF THE IRRIGATION SYSTEM IS TO PROVIDE COMPLETE COVERAGE WITH NO RUN-OFF ONTO WALKWAYS AND PAVEMENT. ADJUST IRRIGATION TO CONTAIN BUBBLERS WITHIN PLANTING AREAS AND PREVENT RUN OFF OUTSIDE OF LANDSCAPE AREAS.
- CONTRACTOR SHALL PROVIDE MONTHLY SCHEDULE FOR ESTABLISHMENT PERIOD & FOLLOWING YEAR. LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE, IRRIGATION AUDIT, IRRIGATION SURVEY, AND IRRIGATION WATER USE ANALYSIS SHALL BE SUBMITTED WITH THE CERTIFICATE OF COMPLETION IN COMPLIANCE WITH STATE OF CALIFORNIA MODEL WATER EFFICIENT. CONTRACTOR SHALL INPUT ALL REQUIRED DATA INTO CONTROLLERS TO ALLOW SELF SCHEDULING INCLUSIVE OF PLANT SPECIES, PLANT WATER REQUIREMENTS, EXPOSURE, SOIL TYPE, SLOPE, IRRIGATION TYPE AND IRRIGATION EFFICIENCY.
- THE APPLICANT SHALL SUBMIT AN IRRIGATION AUDIT REPORT WITH THE CERTIFICATE OF COMPLETION TO THE LOCAL AGENCY THAT MAY INCLUDE, BUT IS NOT LIMITED TO: INSPECTION, SYSTEM TUNE-UP, SYSTEM TEST WITH DISTRIBUTION UNIFORMITY, REPORTING OVERSPRAY OR RUN OFF THAT CAUSES OVERLAND FLOW, AND PREPARATION OF AN IRRIGATION SCHEDULE, INCLUDING CONFIGURING IRRIGATION CONTROLLERS WITH APPLICATION RATE, SOIL TYPES, PLANT FACTORS, SLOPE, EXPOSURE AND OTHER FACTORS NECESSARY FOR ACCURATE PROGRAMING. IRRIGATION AUDIT SHALL BE CONDUCTED BY A THIRD PARTY IRRIGATION AUDITOR. LANDSCAPE AUDITS SHALL NOT BE CONDUCTED BY THE PERSON WHO DESIGNED THE LANDSCAPE OR INSTALLED THE LANDSCAPE.



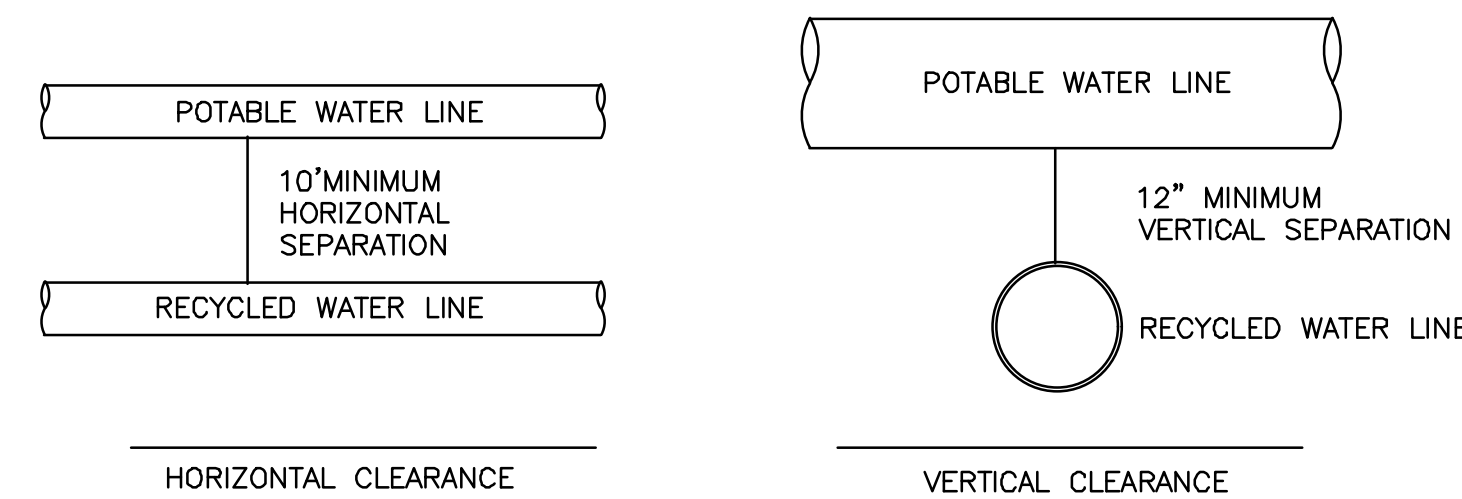
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FINLEY AQUATIC CENTER
 SPRAY GROUND AND RENOVATION
 PROJECT
 L3.3 - IRRIGATION NOTES

CONTRACT NO. C02336
25 OF 68
FILE NO. 2022--014



1 TORO DRIP ZONE KIT
NTS

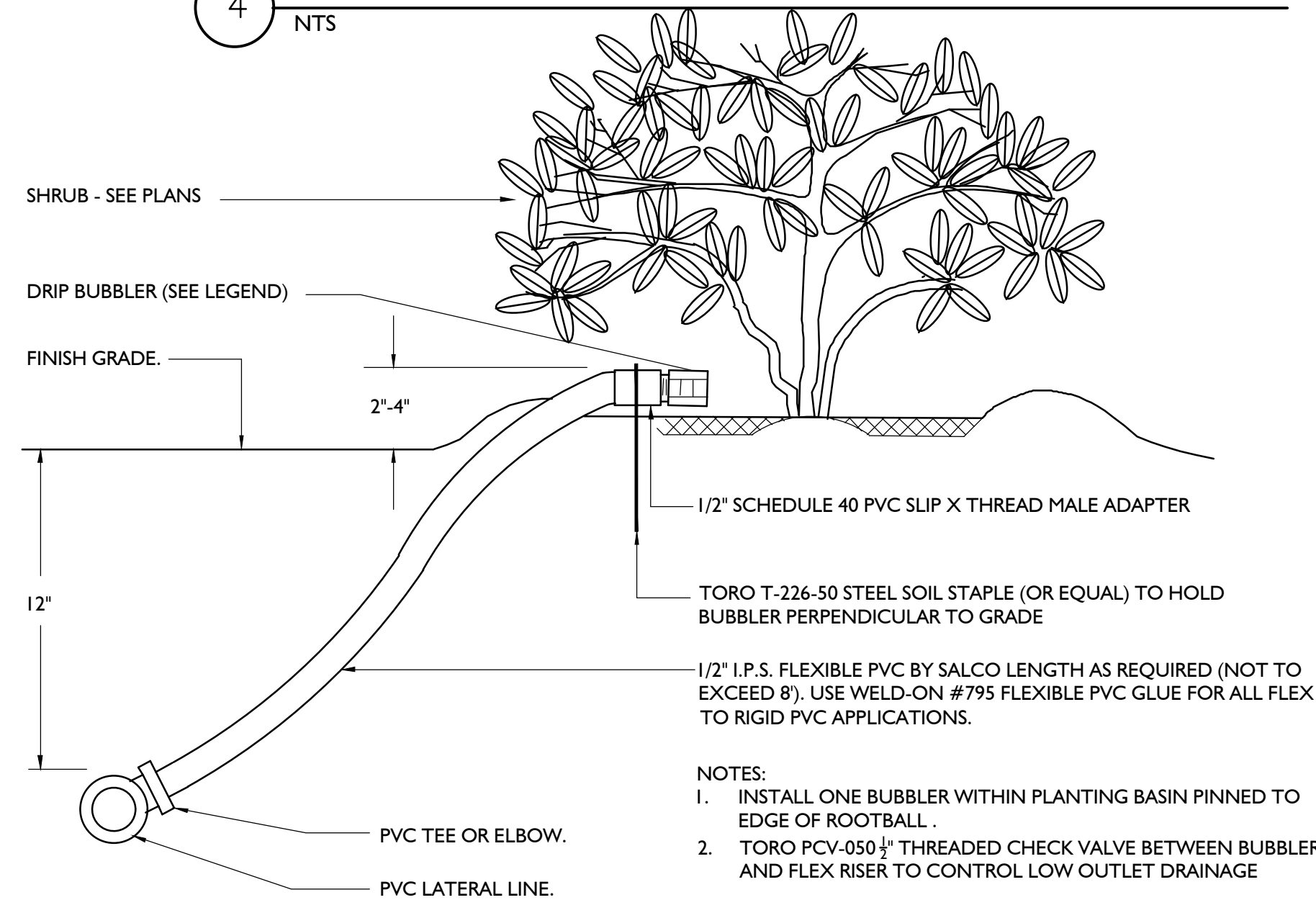


PIPE CLEARANCE GUIDELINES:

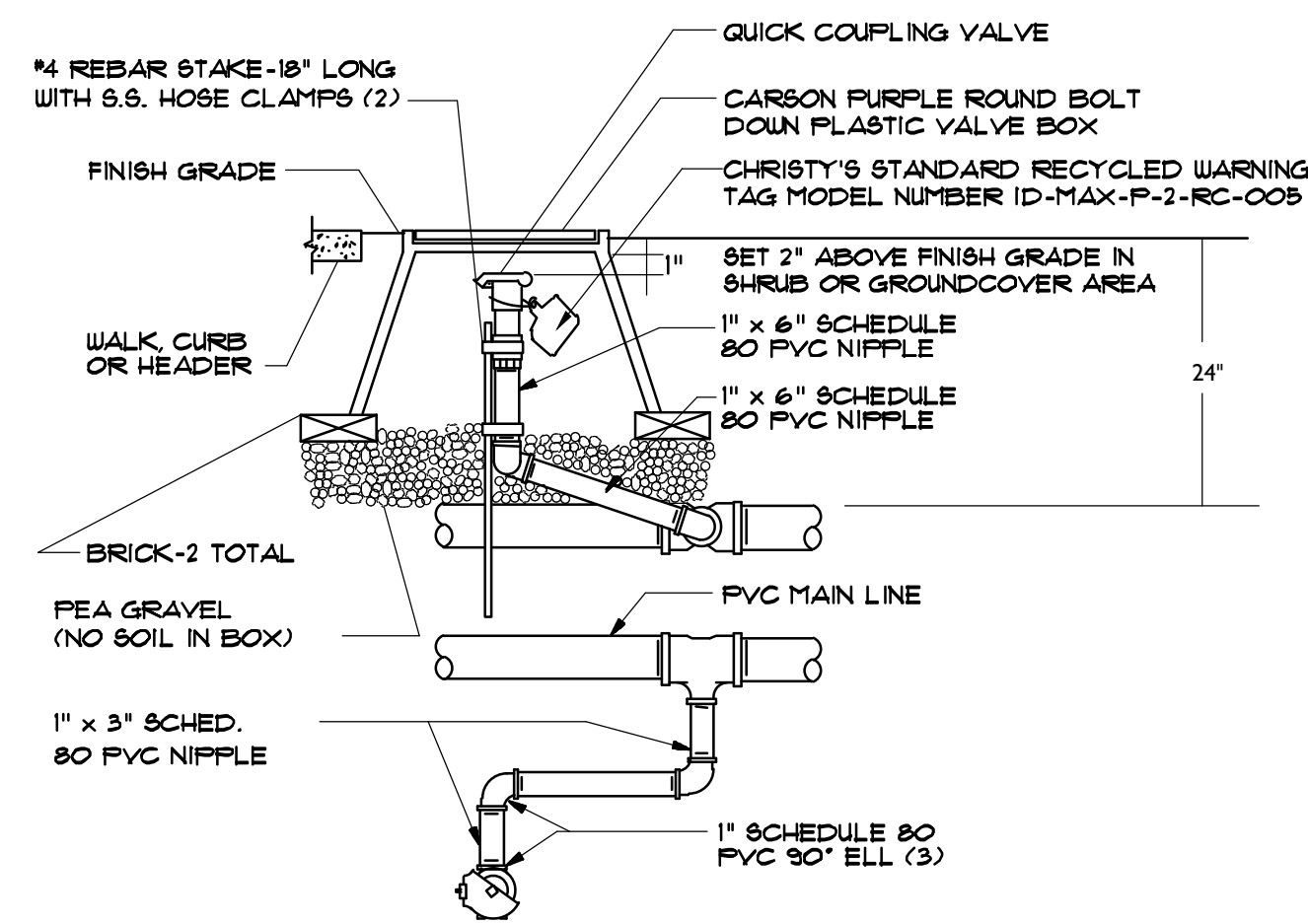
APPLICABLE TO THE CLEARANCE BETWEEN A POTABLE WATER PIPE AND A RECYCLED WATER PIPE OR A SANITARY SEWER PIPE.

- HORIZONTAL CLEARANCE:**
-A MINIMUM HORIZONTAL SEPARATION OF 10' BETWEEN PARALLEL CONSTANT PRESSURE BURIED RECYCLED WATER AND APPURTENANCES AND POTABLE WATER PIPELINES SHALL BE MAINTAINED, UNLESS OTHERWISE SPECIFIED.
- VERTICAL CLEARANCE:**
-WHERE A CONSTANT PRESSURE BURIED RECYCLED (RW) WATER PIPELINE CROSSES A CONSTANT PRESSURE BURIED POTABLE WATER PIPELINE, THE RW LINE SHALL BE LOCATED 12 INCHES BELOW THE POTABLE WATER LINE, UNLESS OTHERWISE SPECIFIED.

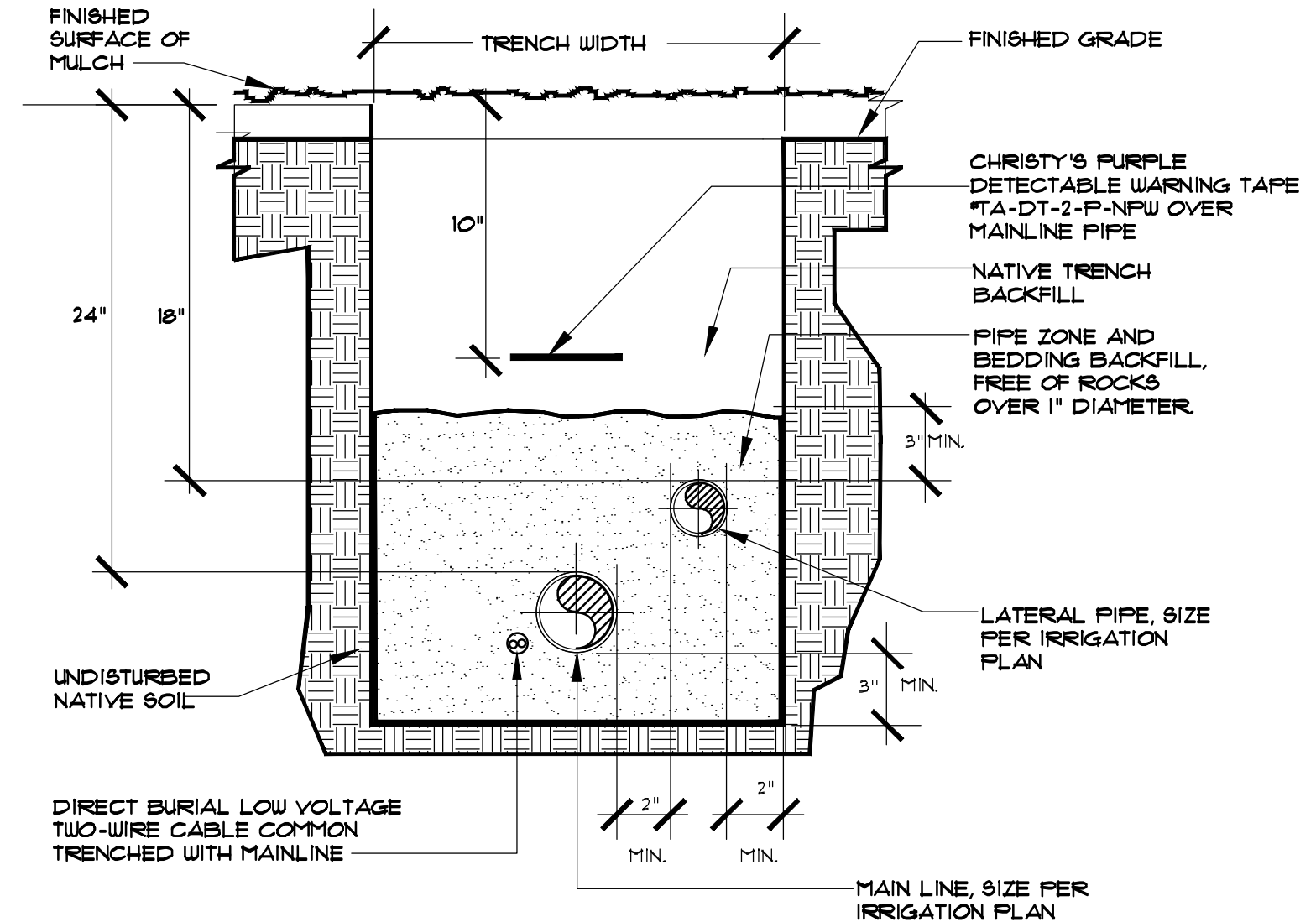
4 PIPE CLEARANCE DETAIL
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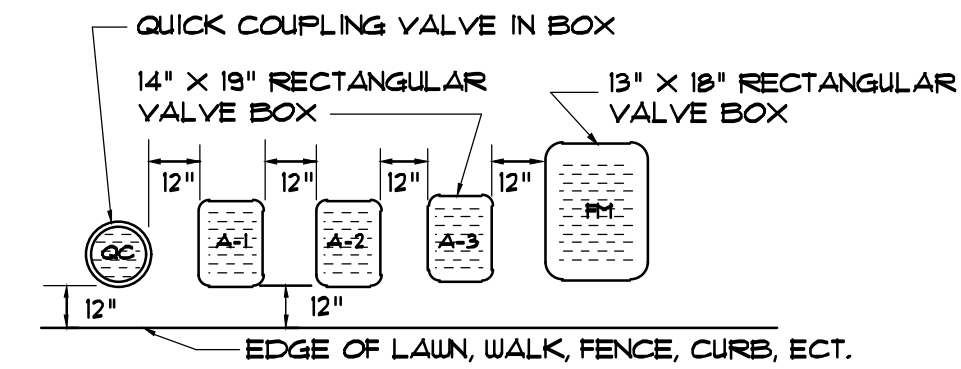
7 DRIP BUBBLER INSTALL FOR SHRUBS
NTS



2 1\"/>

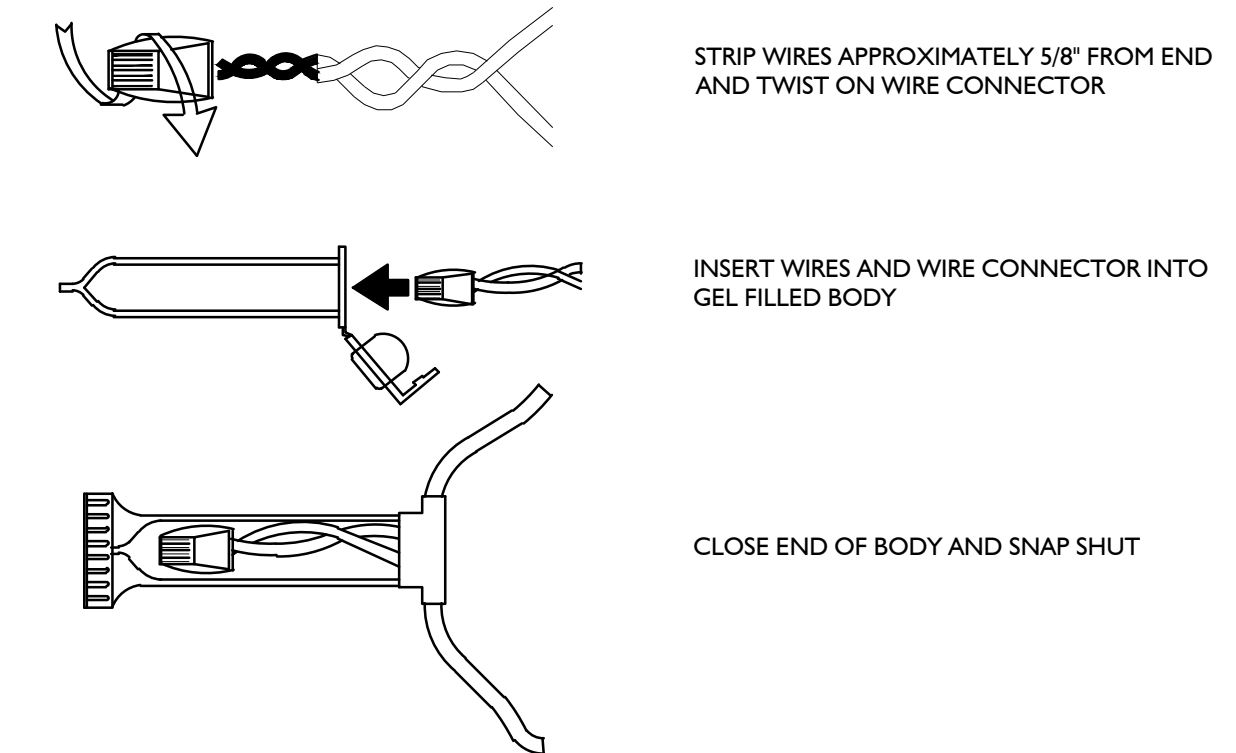


5 TYPICAL COMBINATION TRENCH
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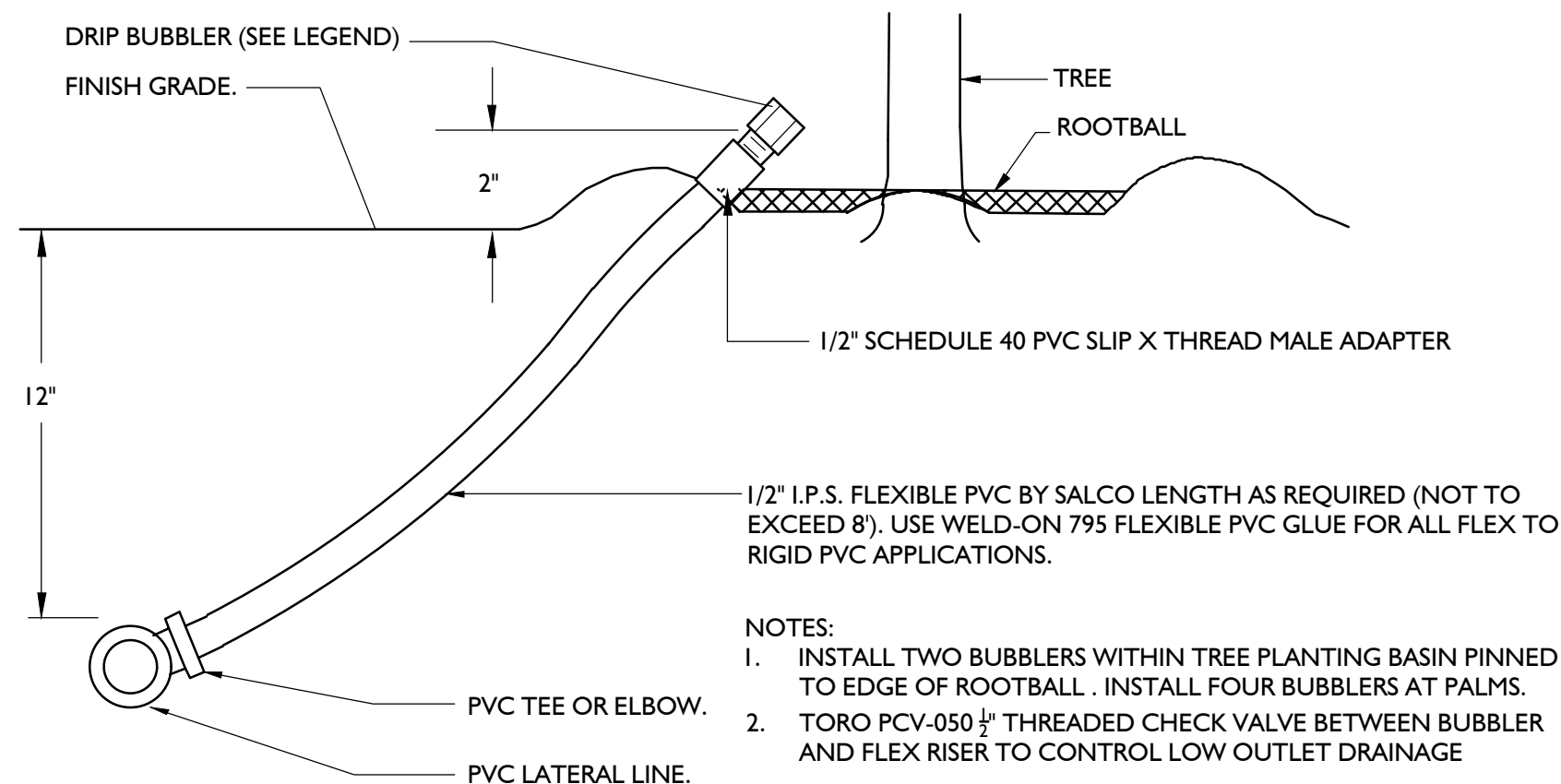


- NOTES:**
- CENTER BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
 - SET BOXES 1\"/>

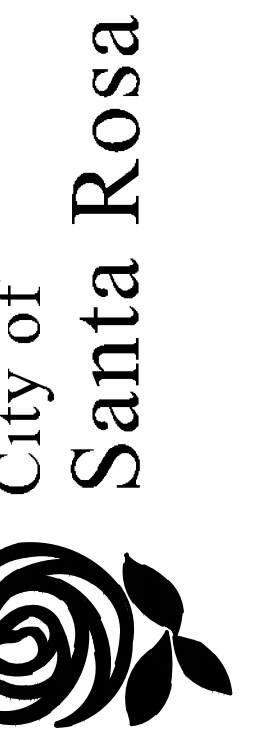
3 VALVE BOX INSTALLATION
NTS



6 DBRY20 WIRE CONNECTION
NTS



8 DRIP BUBBLER INSTALL FOR TREES
NTS



GATES + ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
1600 N. HWY. 101, SUITE 200, SANTA ROSA, CA 95402
T 916.774.5174 WWW.GATESA.COM

NO.	DATE	REVISION	BY

FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT
L3.4 - IRRIGATION DETAILS

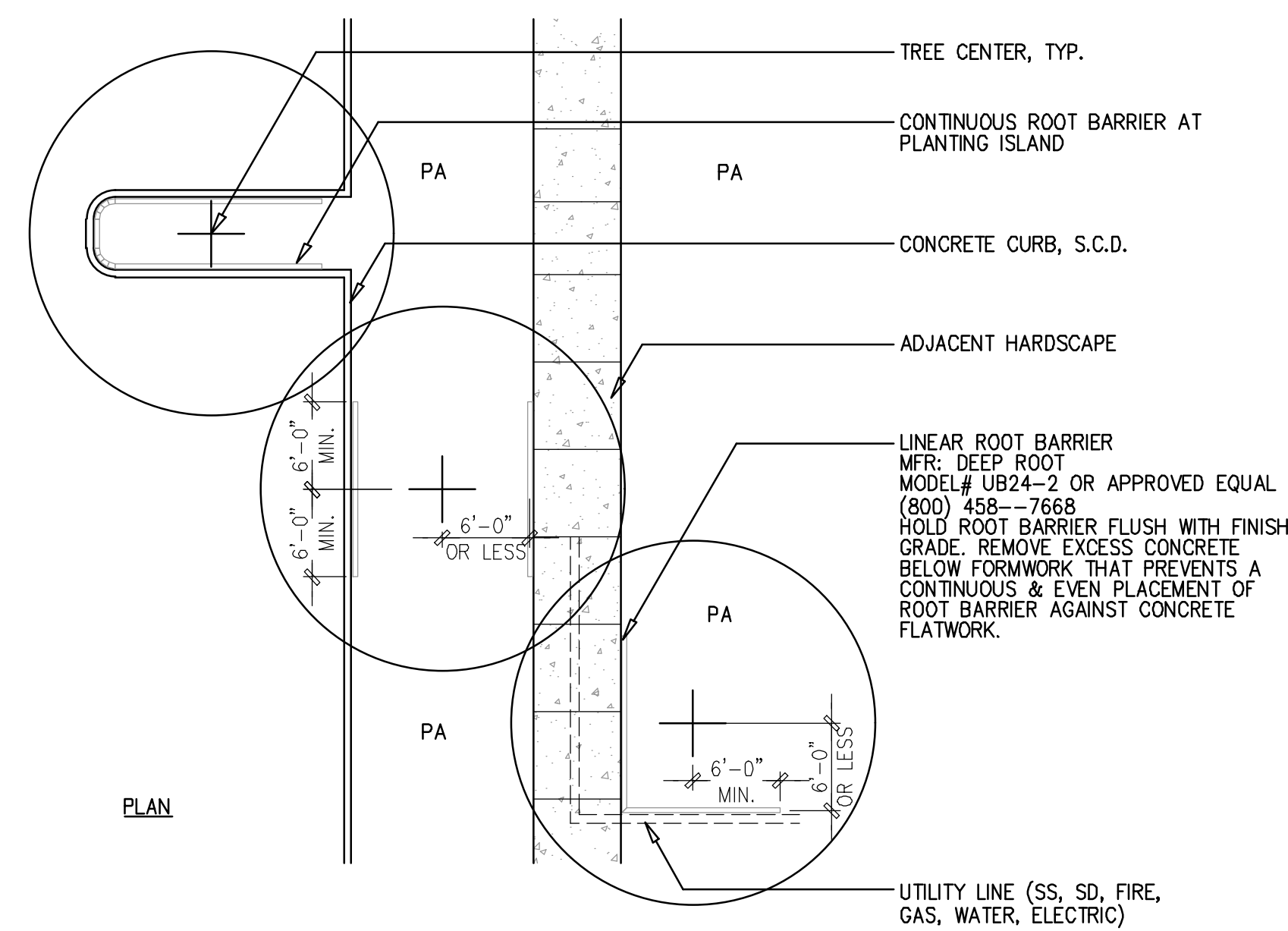
CONTRACT NO. C02336
26 OF 68
FILE NO. 2022-014



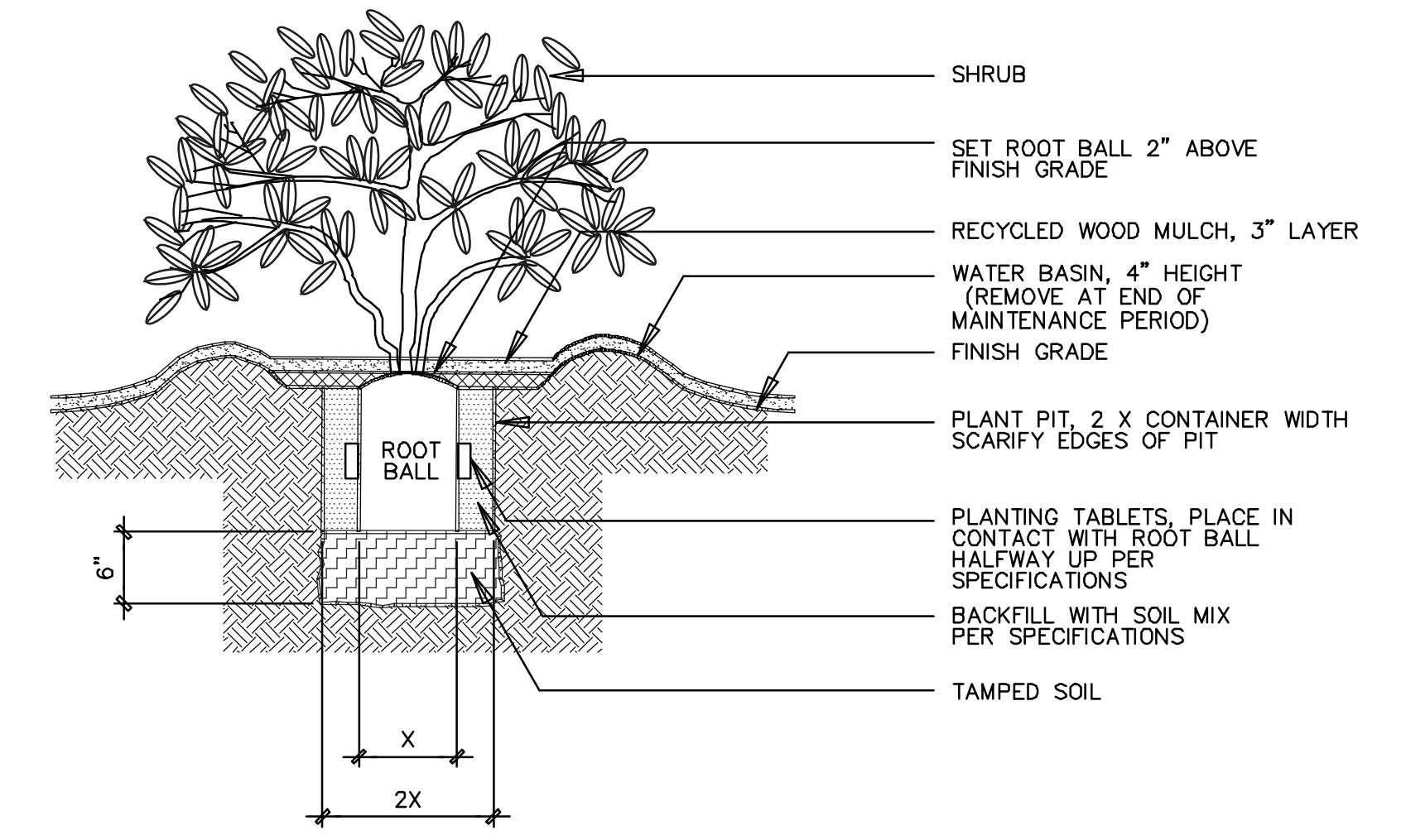
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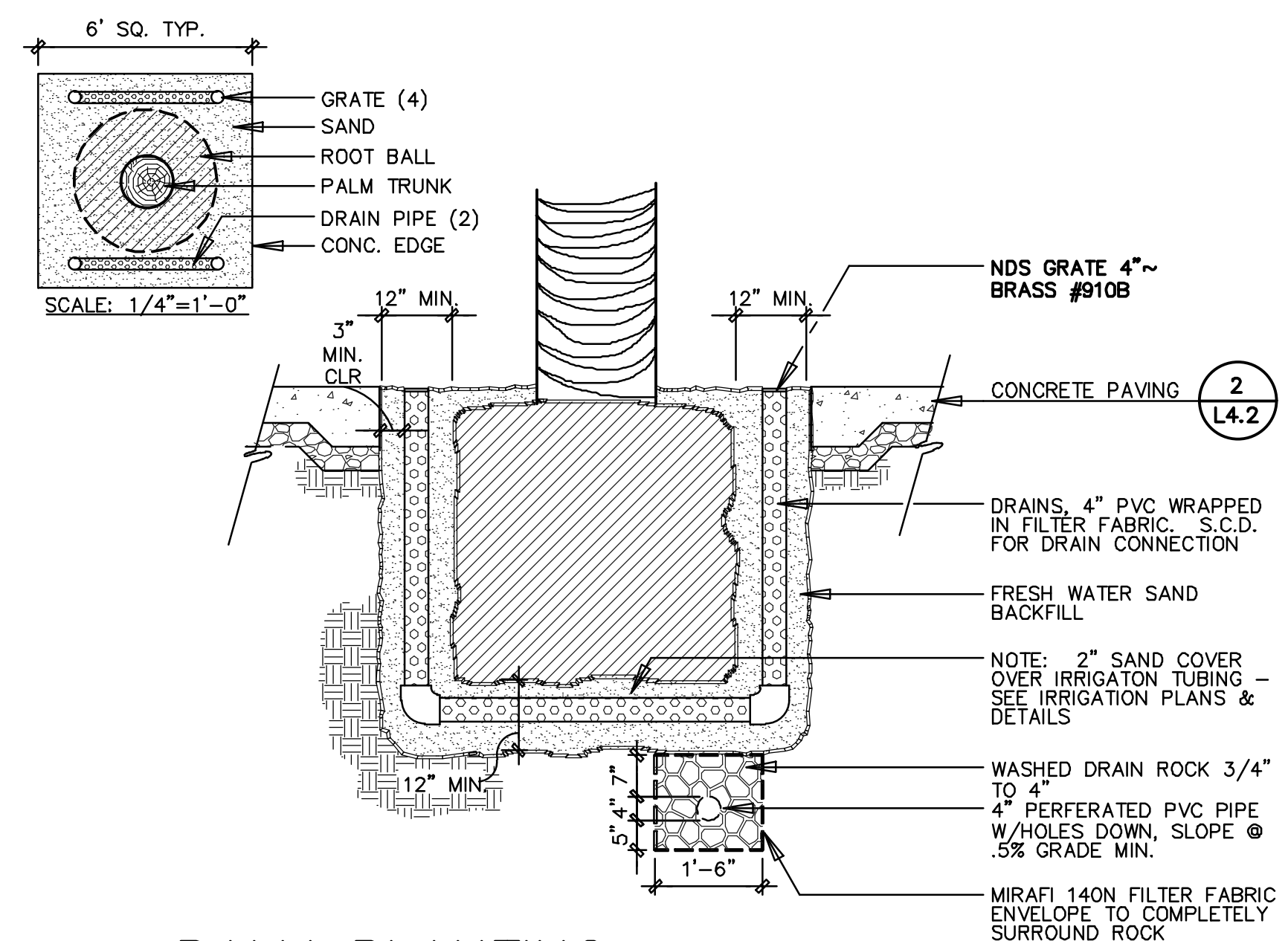
FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION PROJECT	L4.1 - CONSTRUCTION DETAILS



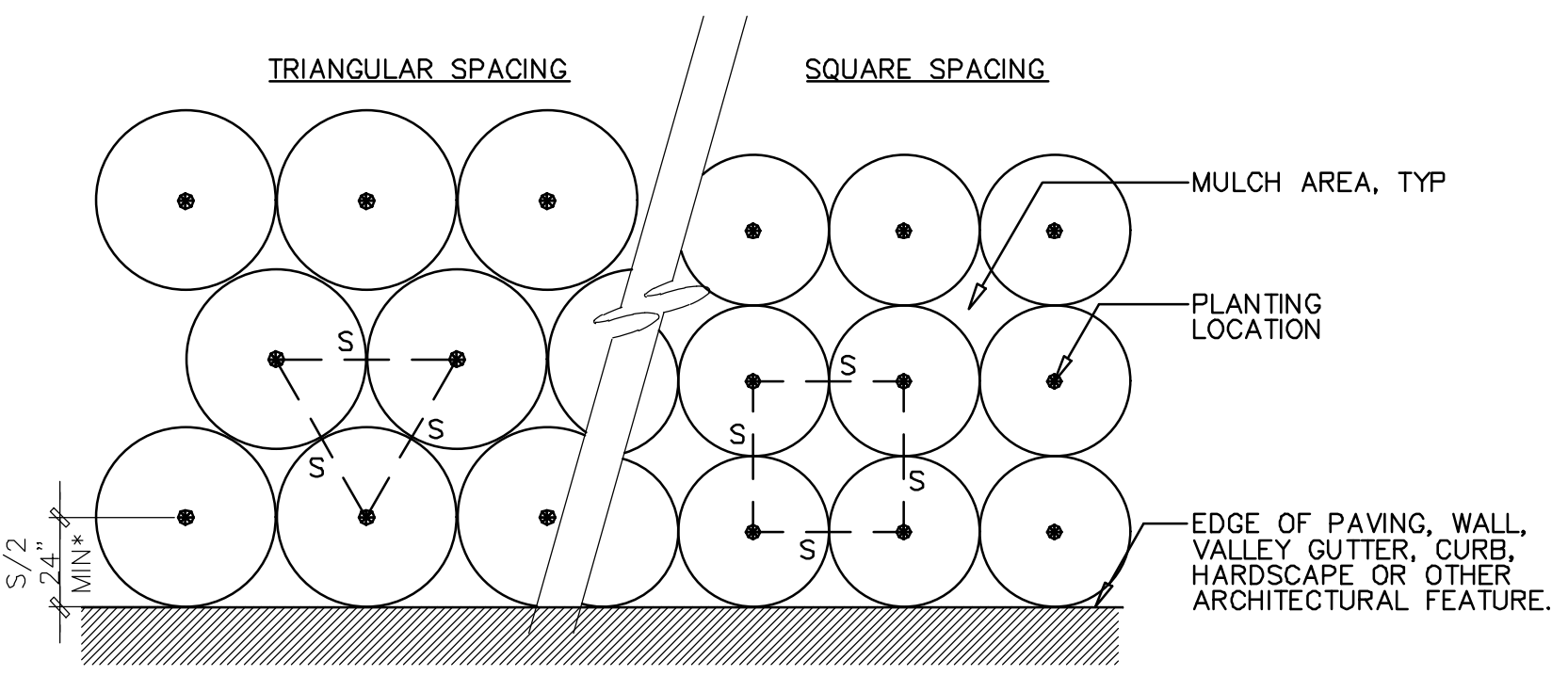
4 LINEAR ROOT BARRIER
SCALE: 1" = 10'-0"



2 SHRUB PLANTING
SCALE: N.T.S.



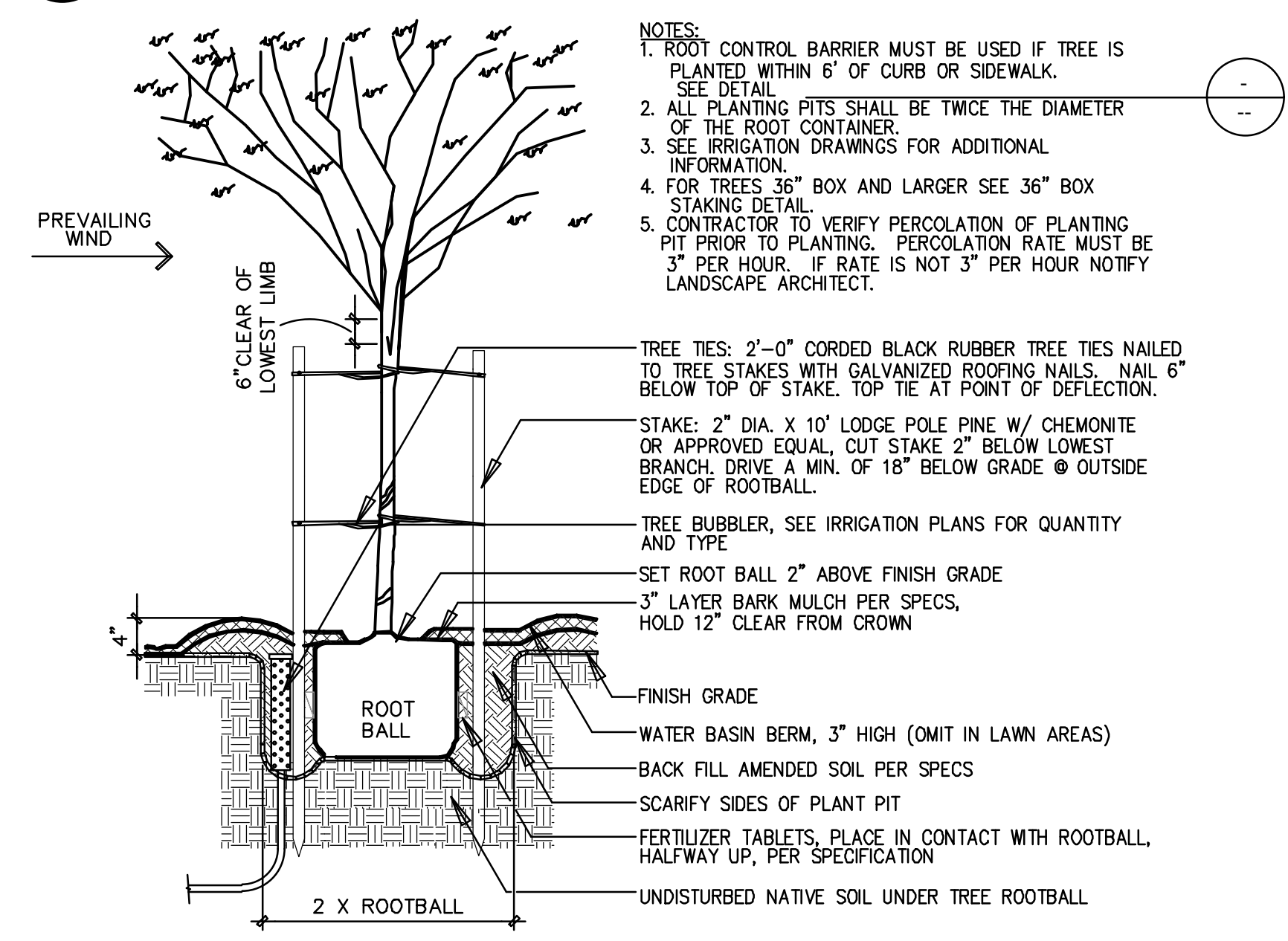
5 PALM PLANTING
SCALE: 1/2" = 1'-0"



NOTES:
A. S = PLANT SPACING DISTANCE ON CENTER, SEE CHART
B. FOR USE AS A GUIDE FOR SHRUBS AND GROUNDCOVER WHEN PLANTS ARE SPACED EQUIDISTANT FROM EACH OTHER.
*AT ALL SHRUB AND GROUNDCOVER LOCATIONS WHERE SPRAY IRRIGATION IS USED, HOLD PLANTING 24" CLEAR OF CURB LINE IN CONJUNCTION WITH IRRIGATION PER AB 1881.

Spacing	# of Plants/S.F.
6" o.c.	4.60
8" o.c.	2.60
12" o.c.	1.15
18" o.c.	.512
24" o.c.	.290
30" o.c.	.185
36" o.c.	.128
42" o.c.	.087
48" o.c.	.063

3 PLANT SPACING
SCALE: 1" = 1'-0"



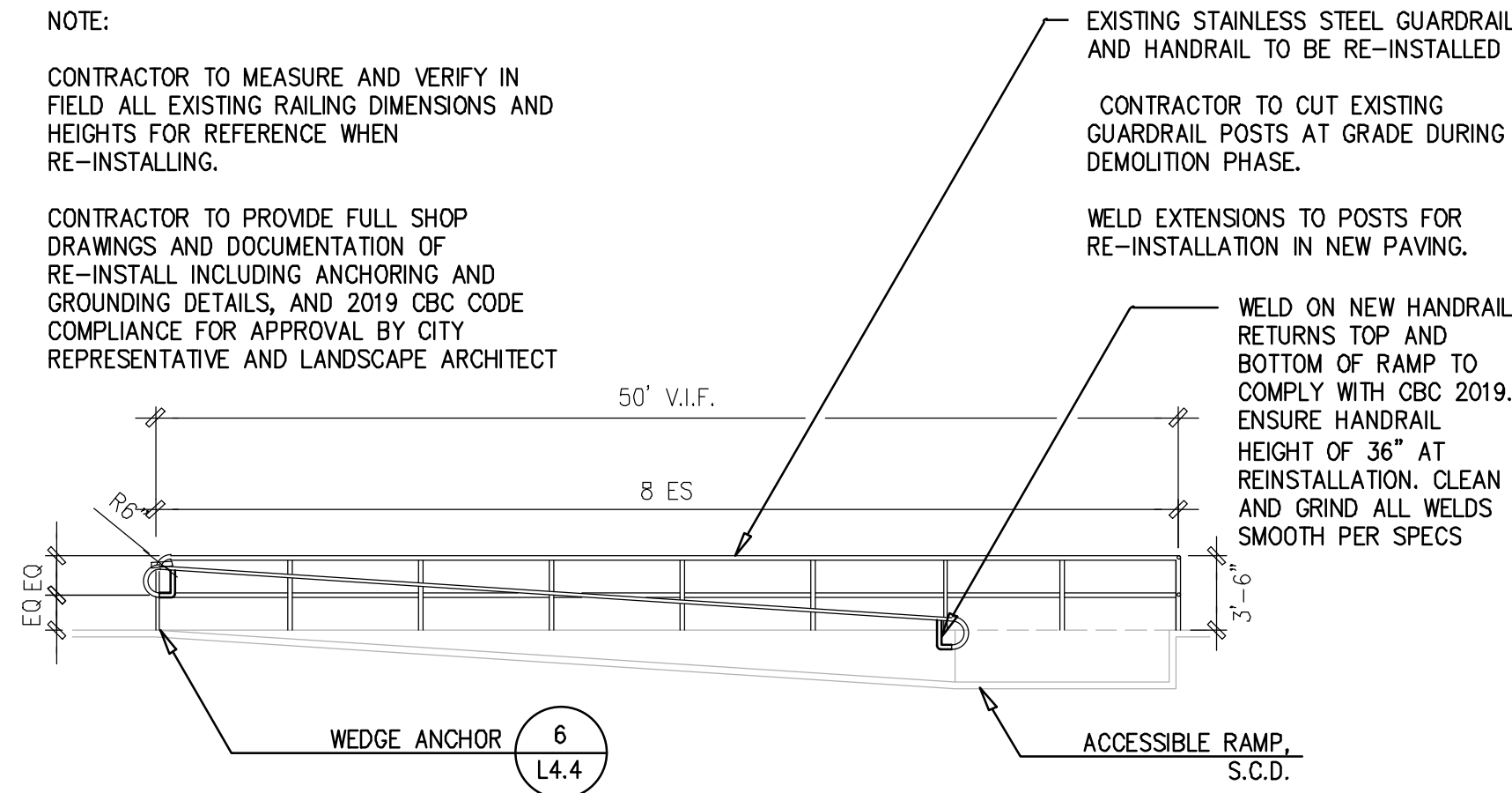
1 TREE STAKING DETAIL
SCALE: 3/8" = 1'-0"

NOTES:
1. ROOT CONTROL BARRIER MUST BE USED IF TREE IS PLANTED WITHIN 6' OF CURB OR SIDEWALK. SEE DETAIL.
2. ALL PLANTING PITS SHALL BE TWICE THE DIAMETER OF THE ROOT CONTAINER.
3. SEE IRRIGATION DRAWINGS FOR ADDITIONAL INFORMATION.
4. FOR TREES 36" BOX AND LARGER SEE 36" BOX STAKING DETAIL.
5. CONTRACTOR TO VERIFY PERCOLATION OF PLANTING PIT PRIOR TO PLANTING. PERCOLATION RATE MUST BE 3" PER HOUR. IF RATE IS NOT 3" PER HOUR NOTIFY LANDSCAPE ARCHITECT.

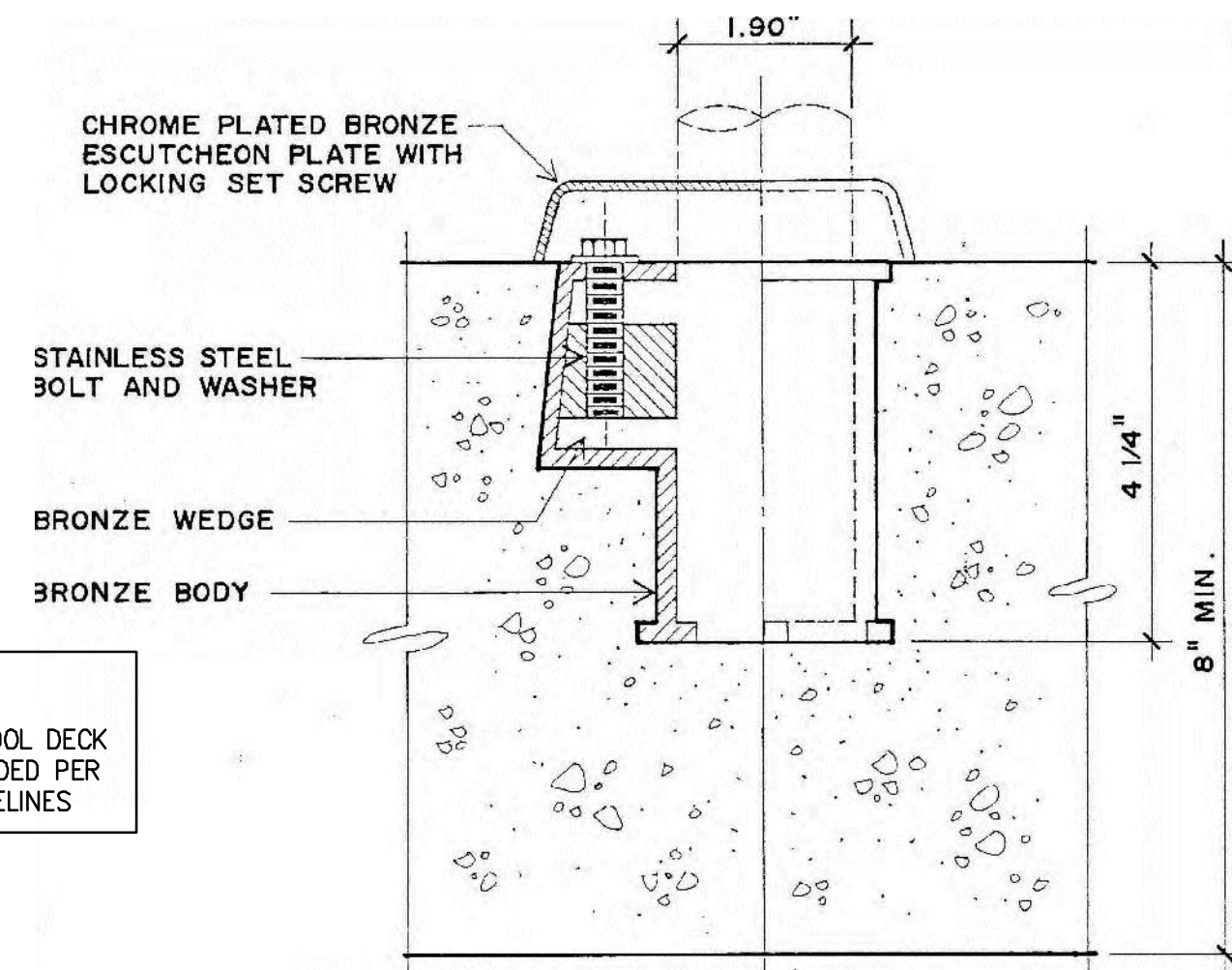
NOTE:
ALL METALWORK WITHIN THE POOL DECK SHALL BE BONDED AND GROUNDED PER LATEST NEC ARTICLE 680 GUIDELINES

NOTE:
CONTRACTOR TO MEASURE AND VERIFY IN FIELD ALL EXISTING RAILING DIMENSIONS AND HEIGHTS FOR REFERENCE WHEN RE-INSTALLING.

CONTRACTOR TO PROVIDE FULL SHOP DRAWINGS AND DOCUMENTATION OF RE-INSTALL INCLUDING ANCHORING AND GROUNDING DETAILS, AND 2019 CBC CODE COMPLIANCE FOR APPROVAL BY CITY REPRESENTATIVE AND LANDSCAPE ARCHITECT



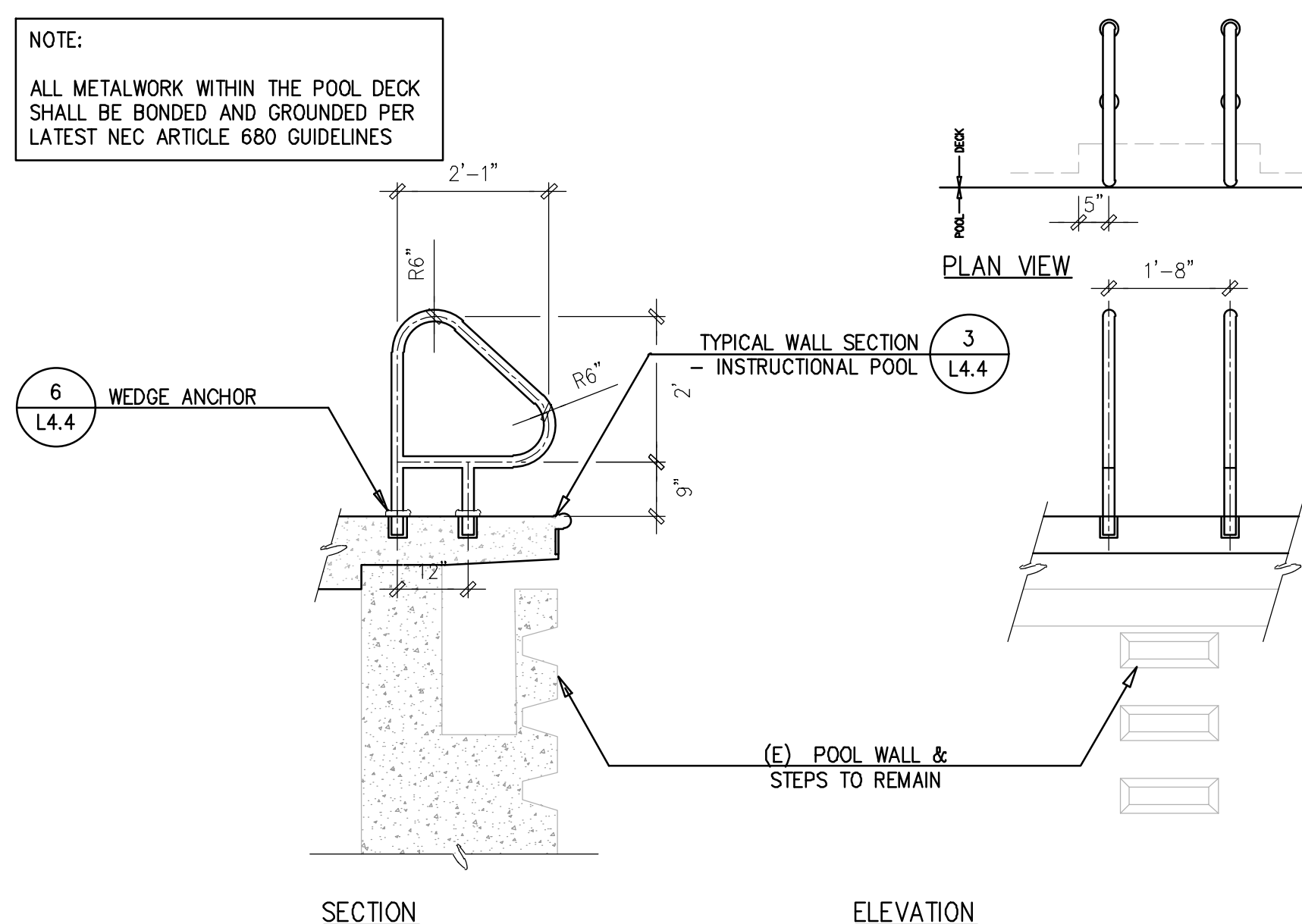
7 GUARDRAIL AT RAMP
SCALE: 1/8" = 1'-0"



NOTE:
ALL METALWORK WITHIN THE POOL DECK SHALL BE BONDED AND GROUNDED PER LATEST NEC ARTICLE 680 GUIDELINES

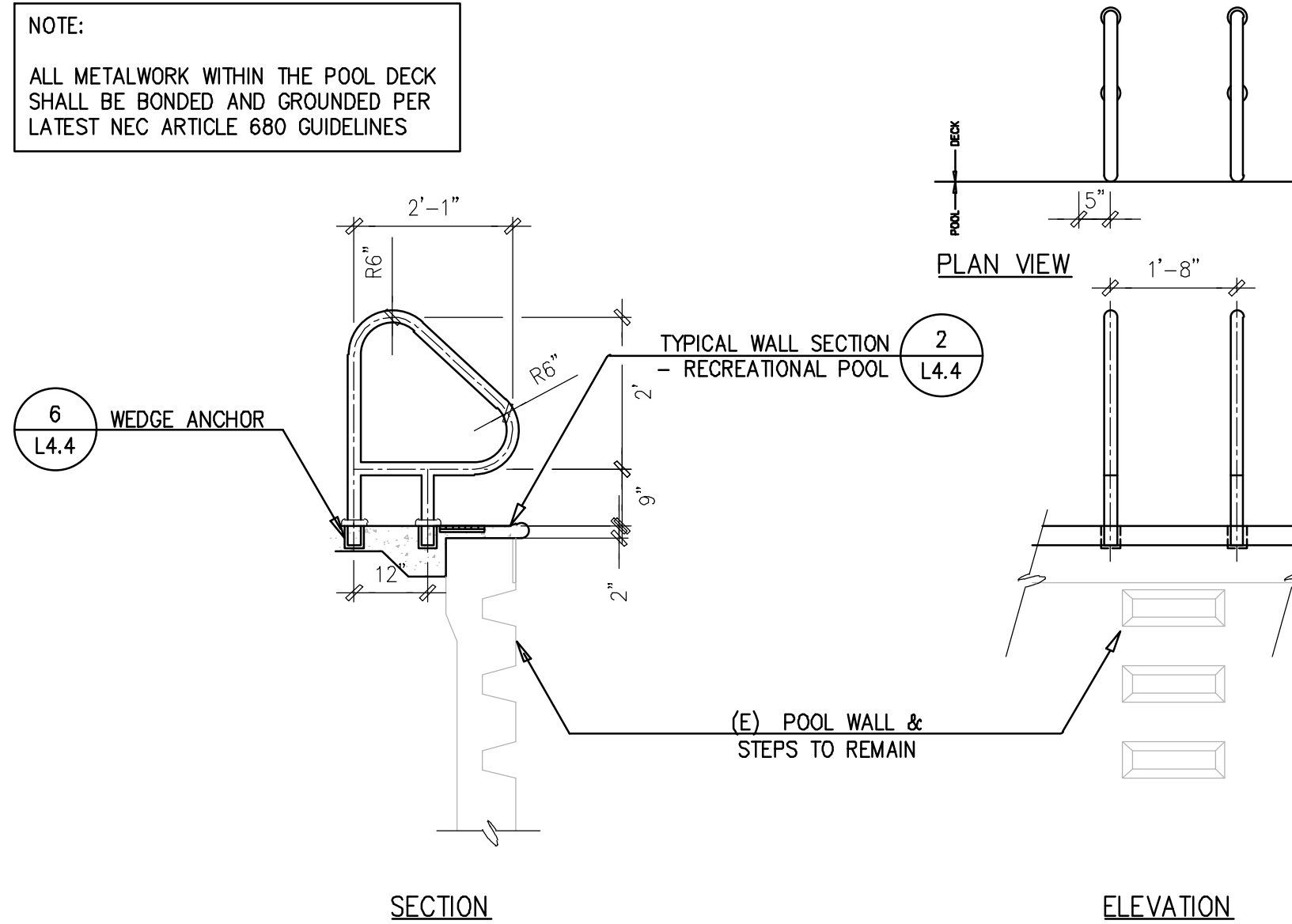
6 WEDGE ANCHOR
N.T.S.

NOTE:
ALL METALWORK WITHIN THE POOL DECK SHALL BE BONDED AND GROUNDED PER LATEST NEC ARTICLE 680 GUIDELINES

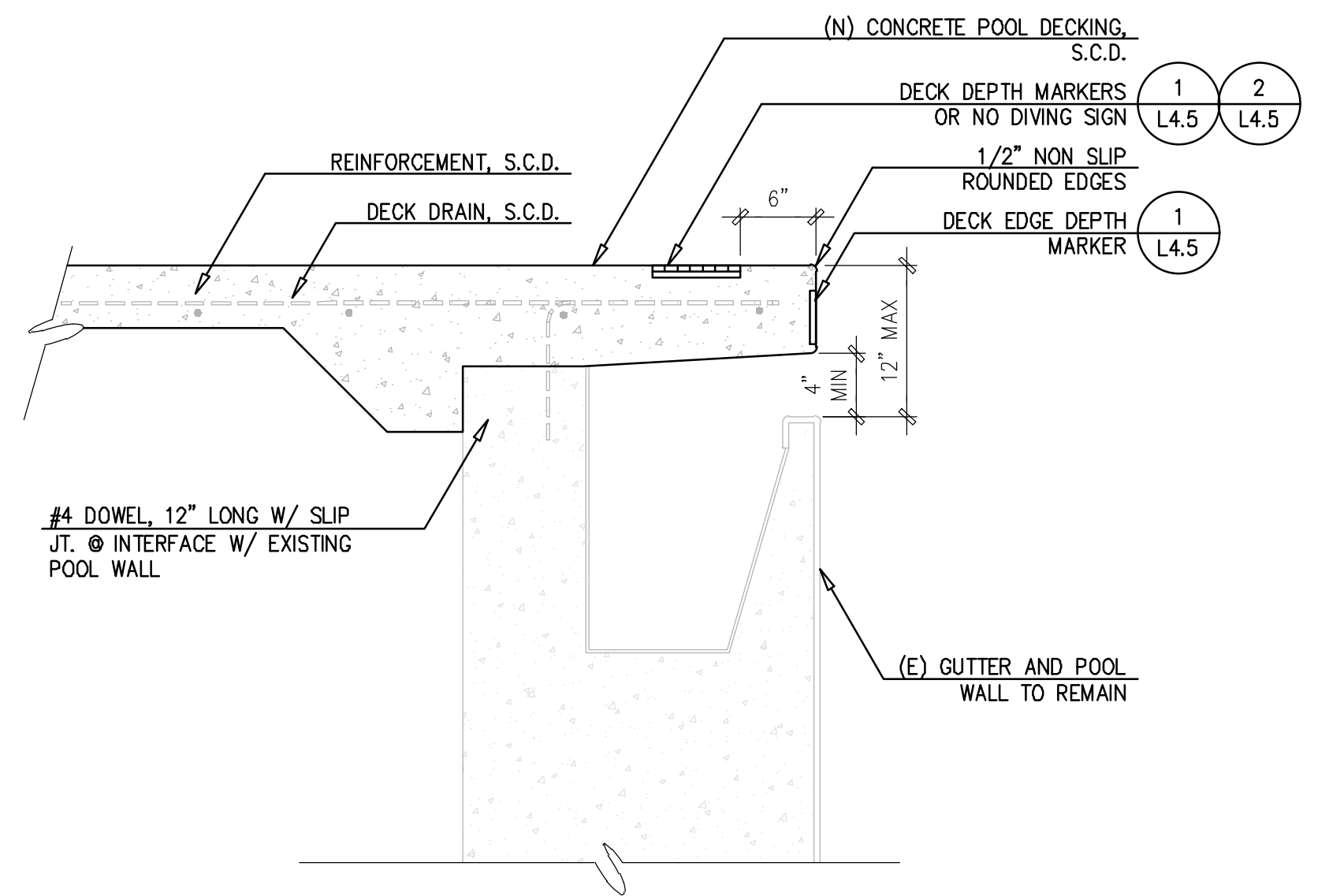


5 GRABRAILS @ INSTRUCTIONAL POOL
SCALE: 1/2" = 1'-0"

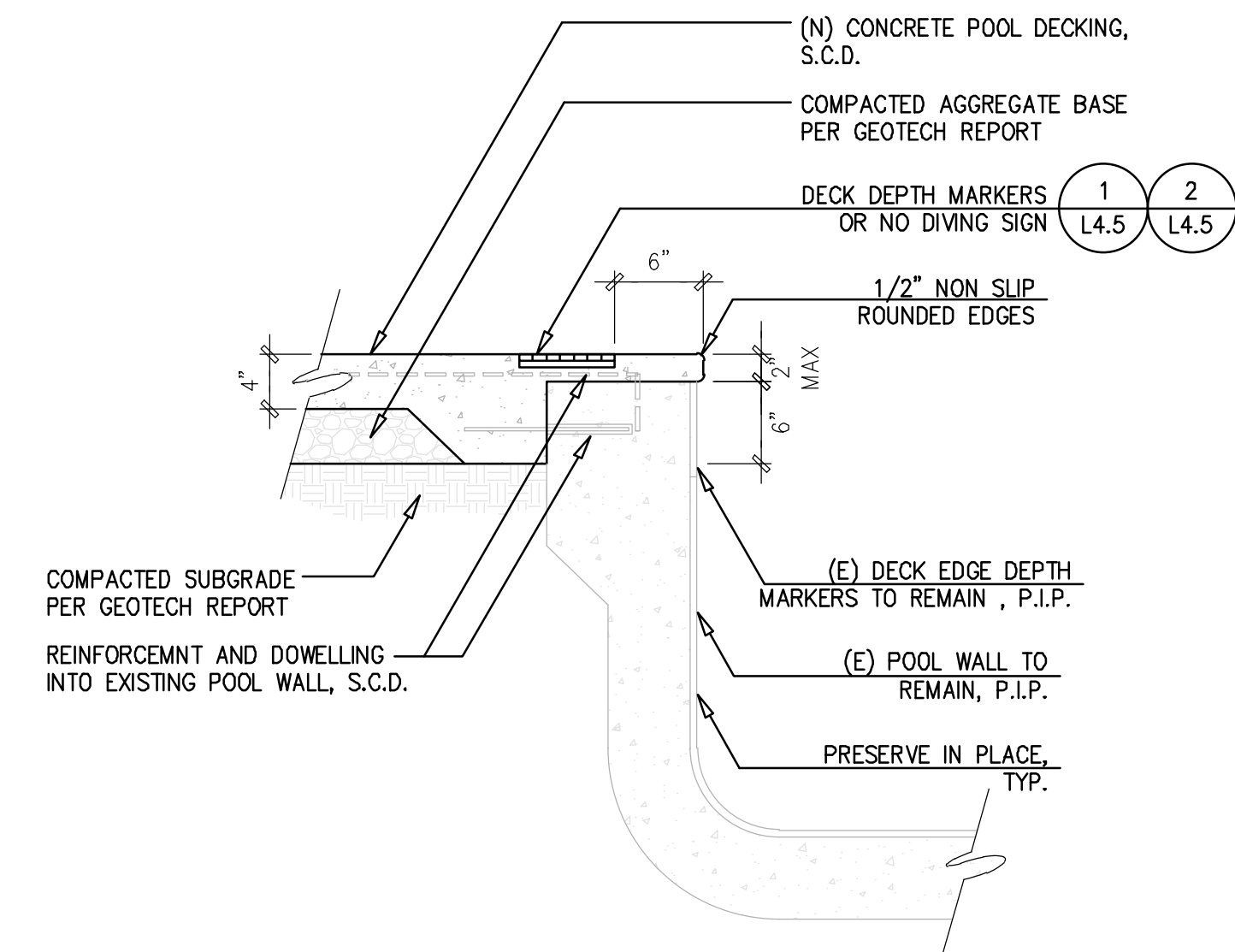
NOTE:
ALL METALWORK WITHIN THE POOL DECK SHALL BE BONDED AND GROUNDED PER LATEST NEC ARTICLE 680 GUIDELINES



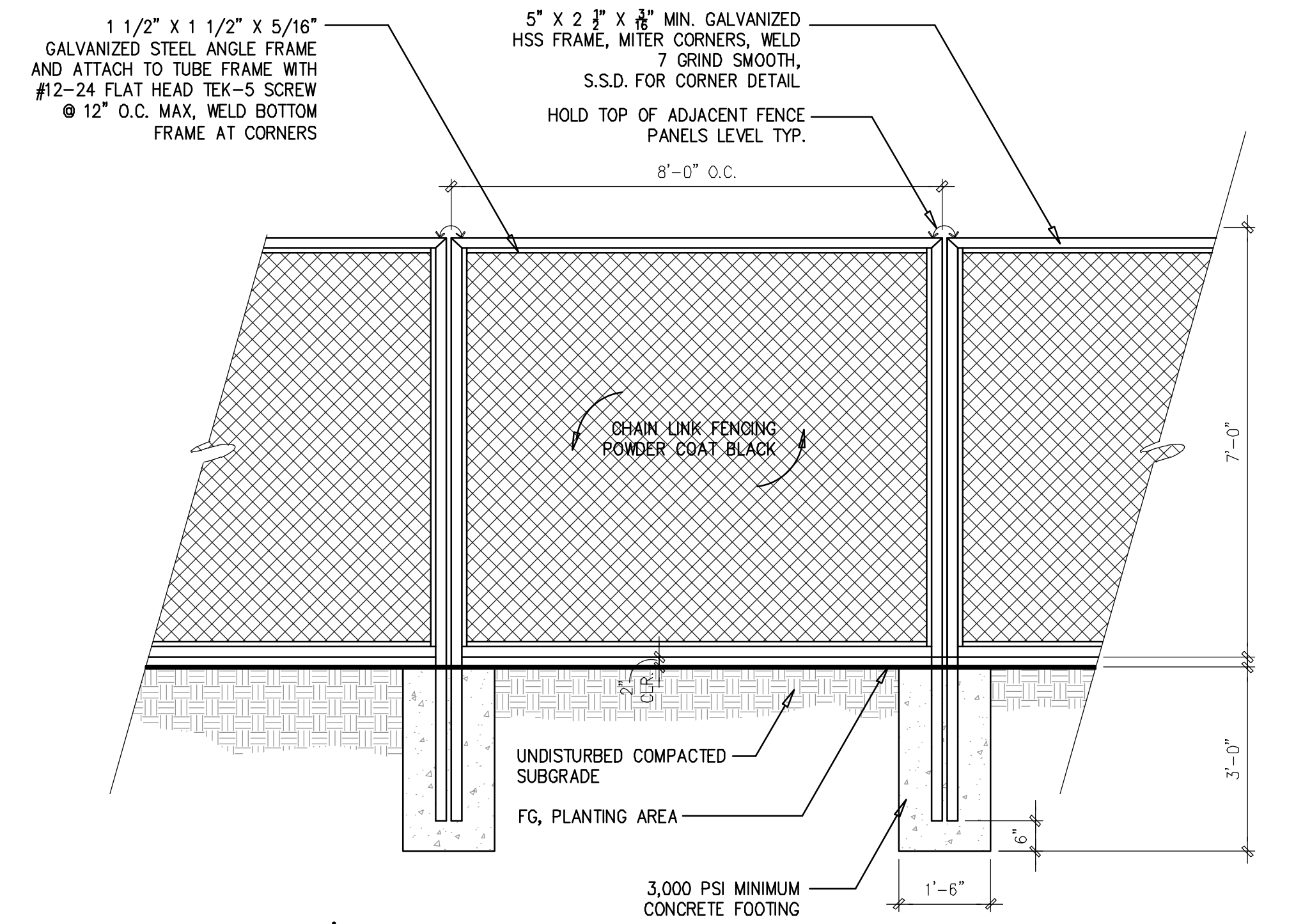
4 GRABRAILS @ RECREATIONAL POOL
SCALE: 1/2" = 1'-0"



3 TYPICAL WALL SECTION - INSTRUCTIONAL POOL
SCALE: 1" = 1'-0"



2 TYPICAL WALL SECTION - RECREATIONAL POOL
SCALE: 1" = 1'-0"



1 7' HT METAL FENCE
SCALE: 1/2" = 1'-0"



City of
Santa Rosa



GATES + ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
1000 HWY 101, SUITE 100, SANTA ROSA, CA 95401
TEL: 707.534.1175 WWW.GATESA.COM

NO.	DATE	REVISION	BY

DWN BY: DSS	CHK BY: MO	DATE: 06/09/2023	SCALE: 1" = 10'-0"
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FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT
L4.4 - CONSTRUCTION DETAILS



City of
Santa Rosa

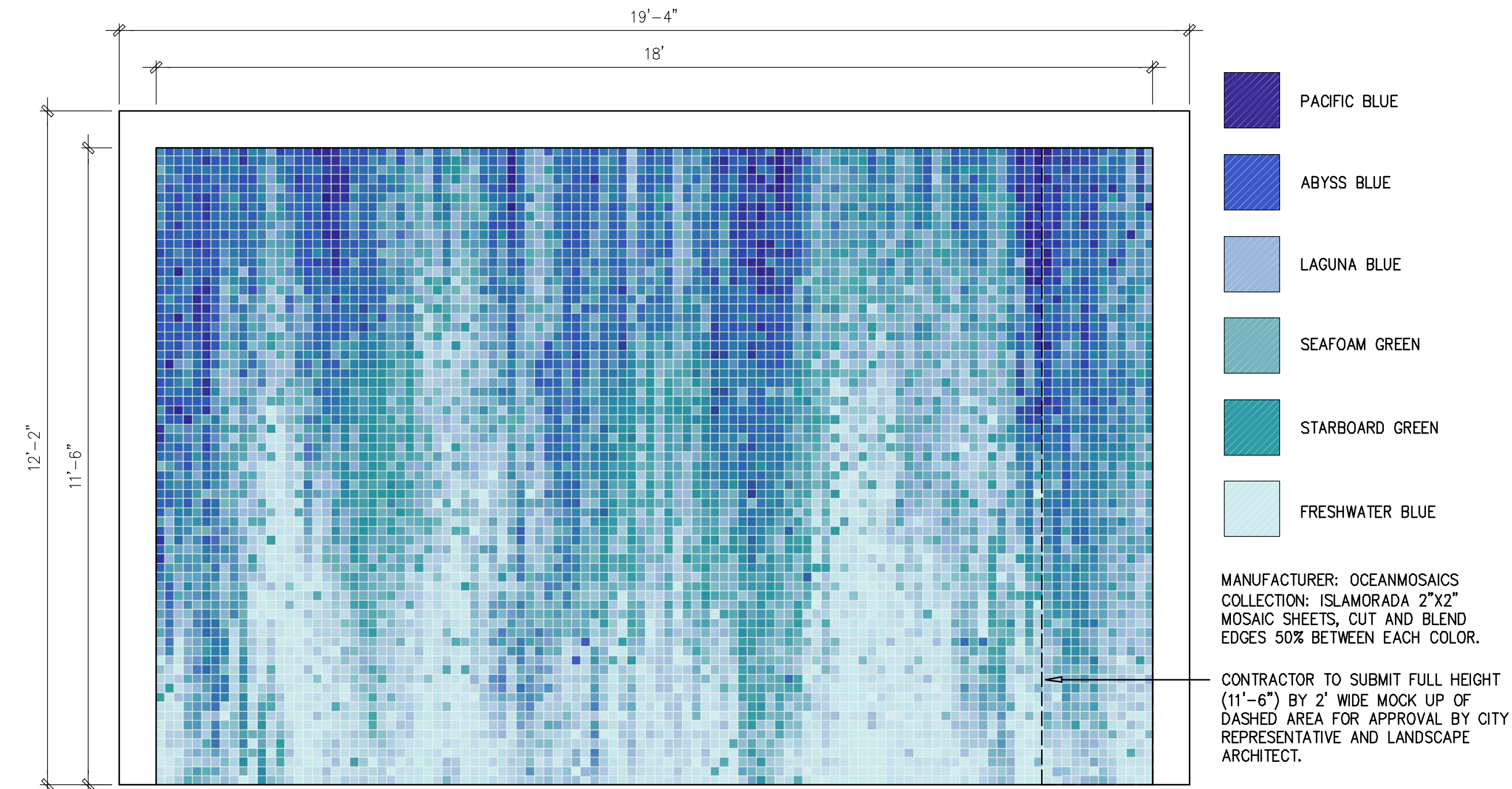


GATES
+ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING - URBAN DESIGN
1600 N. HWY 101, SUITE 100, SANTA ROSA, CA 95404
T 916.774.1174 WWW.GATESA.COM

NO.	DATE	REVISION	BY

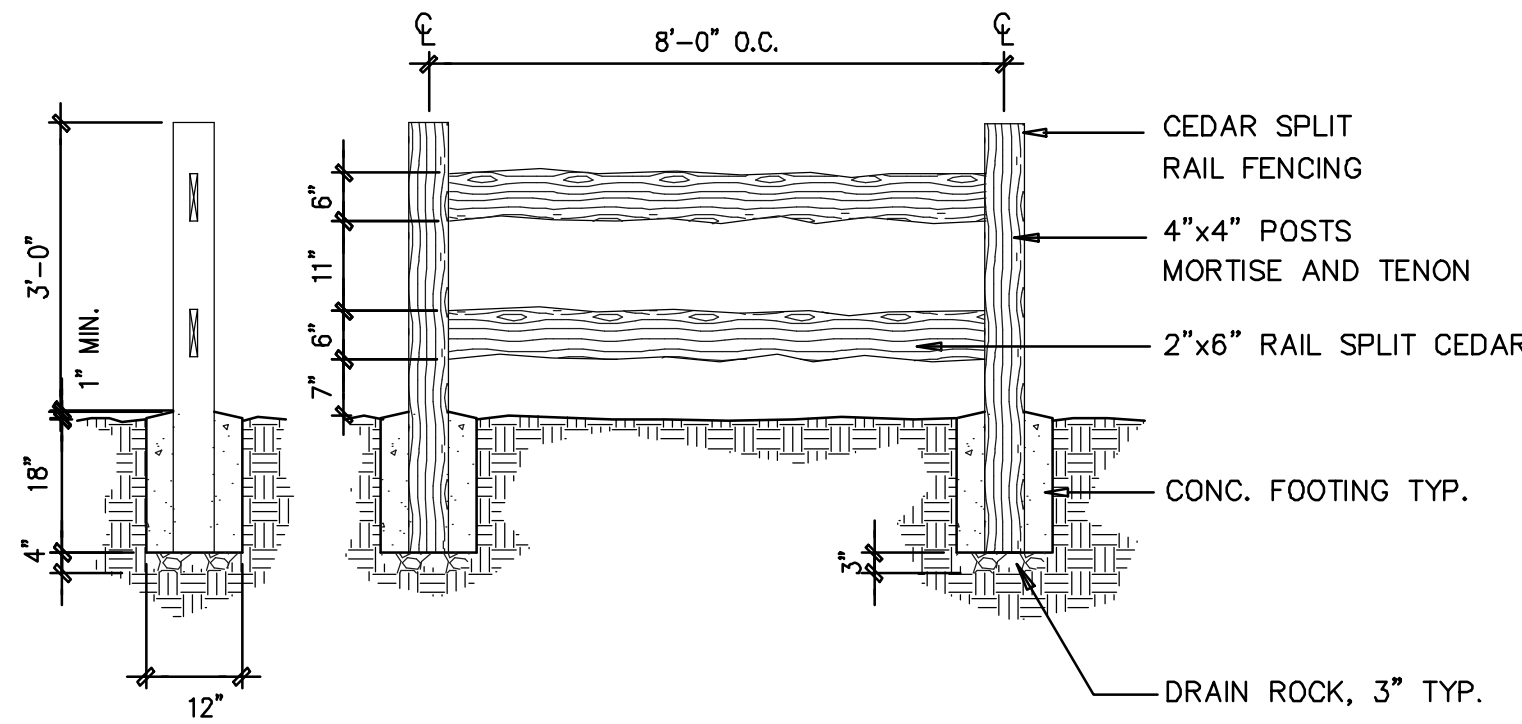
DWN BY: DSS	CHK BY: MO	DATE: 06/09/2023	SCALE: 1" = 10'-0"
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FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT
L4.5 - CONSTRUCTION DETAILS

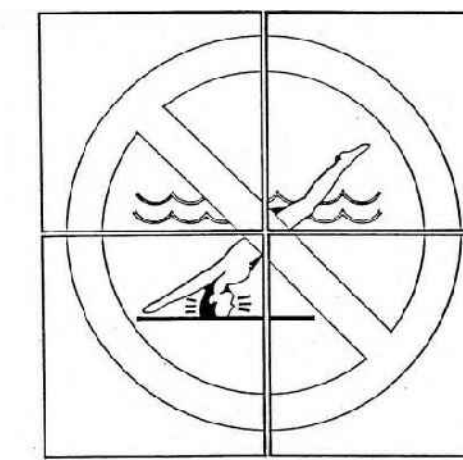


2 TILE MOSAIC WALL
SCALE: 1/2" = 1'-0"

FENCING AVAILABLE FROM COASTAL LUMBER:
(408) 995-0791

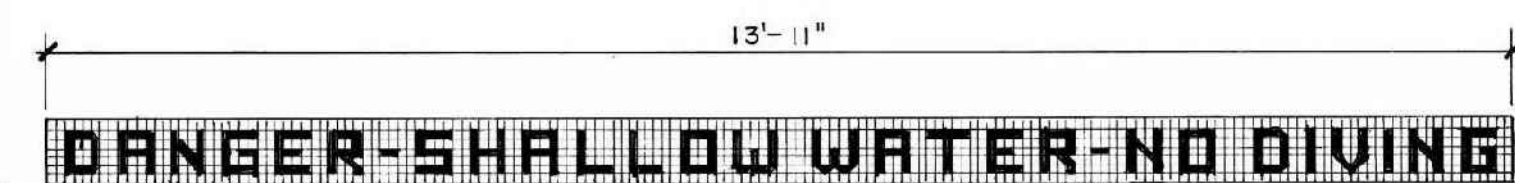


3 SPLIT RAIL FENCE
SCALE: 1/2" = 1'-0"



SILK SCREEN

- 6"x6" DOUBLE GLAZED WHITE SLIP RESISTANT TILE TYP. OF (4) OVER 1/4" MORTAR BED w/ 1/16" GROUT JOINTS, SEE PLAN FOR LOCATION
- 1"x1" WIDE x 11" DIA. RED CIRCLE
- 1/8" BLUE WATER
- 1/16" RED TICKS ABOUT THE HEAD
- TAN COLOR BODY w/ BLACK OUTLINE, HAIR AND TRUNKS
- 1/8" BLACK POOL FLOOR



NOTES:

- ALL TILE TO BE 1"x1" UNGLAZED CERAMIC TILE WITH 1/4" MORTAR BED.
- LETTERS AND DASHES TO BE BLACK.
- FIELD TO BE WHITE.
- GROUT TO BE WHITE.
- CENTER SIGN BETWEEN DECK DEPTH MARKERS.
- ALL TILE AND MARKINGS TO BE NON-SLIP PER CBC 3110B.1 AND FLUSH WITH ADJACENT DECKING. COORDINATE LOCATION OF DEPTH MARKERS AND NO DIVING SIGNS WITH POOL DEPTH PER 3110B.4 SEE LAYOUT PLAN FOR LOCATIONS AND ADDITIONAL NOTES.

1 NO DIVING SIGN
SCALE: 1" = 1'-0"

NO DIVING GRAPHICS CENTER VERTICALLY ON "NO DIVING" SIGN
15 SP14



City of Santa Rosa



GATES + ASSOCIATES
LANDSCAPE ARCHITECTURE
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T 916.734.1174 WWW.GATESA.COM

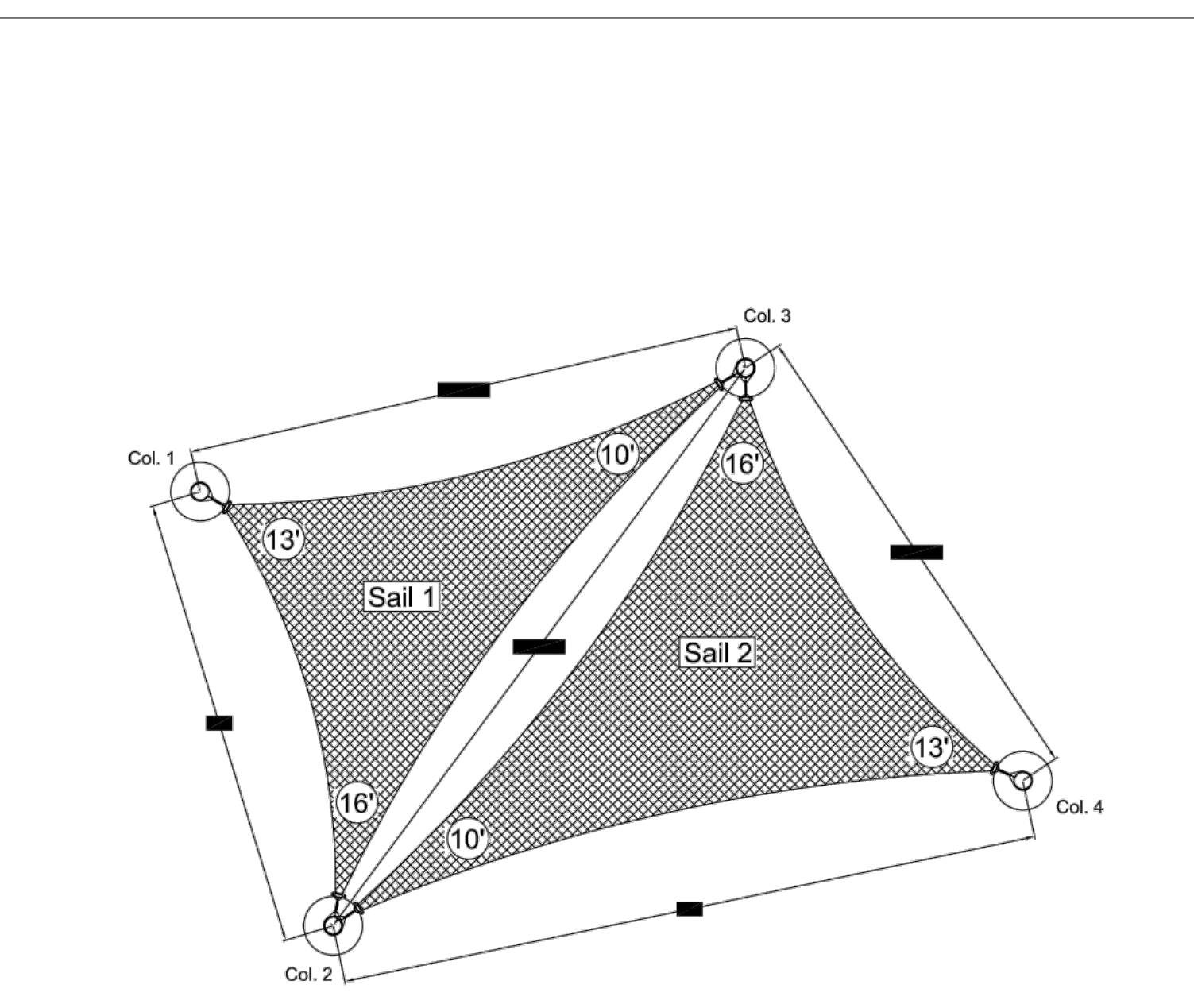
Rev	Date	By	Description
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6			

NO.	DATE	REVISION	BY

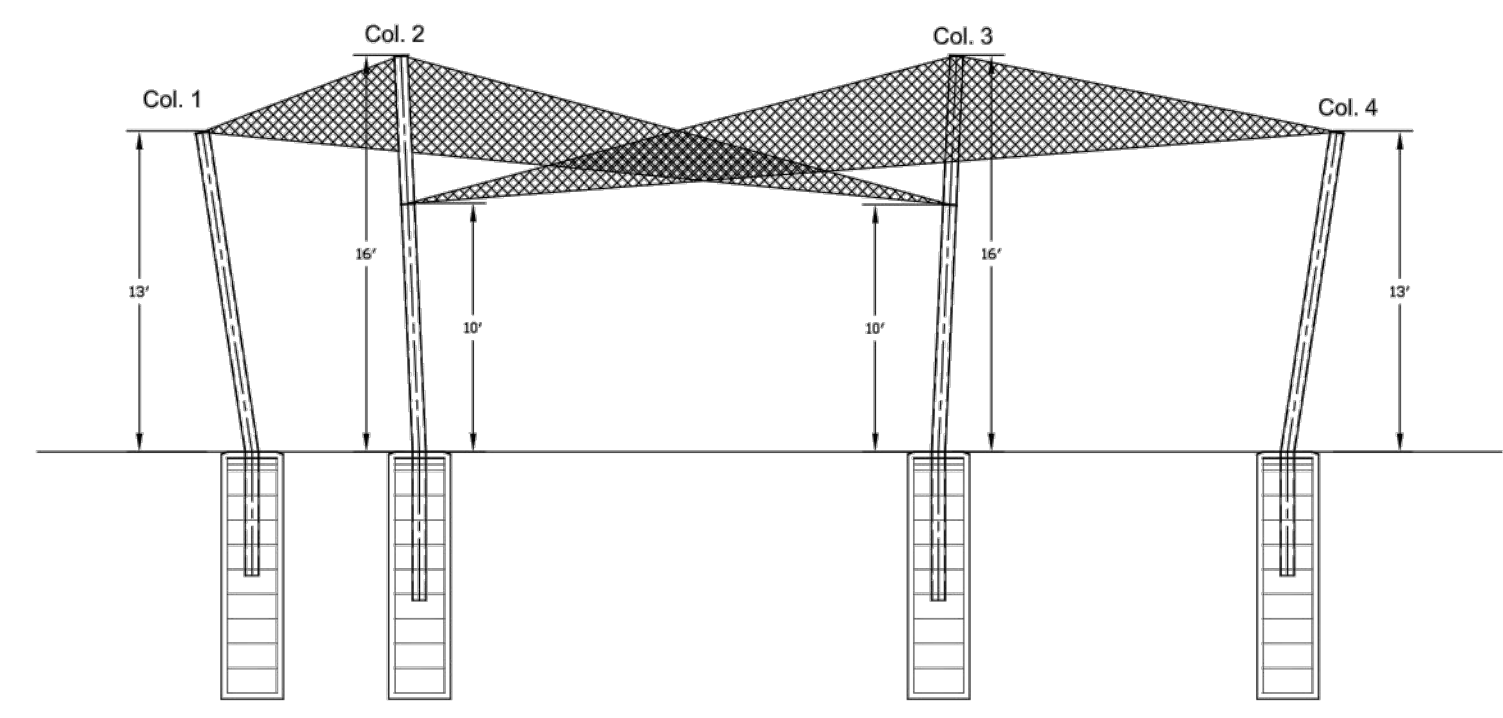
DWN BY:	DSS
CHK BY:	MO
DATE:	06/09/2023
SCALE:	1" = 10'-0"

FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT

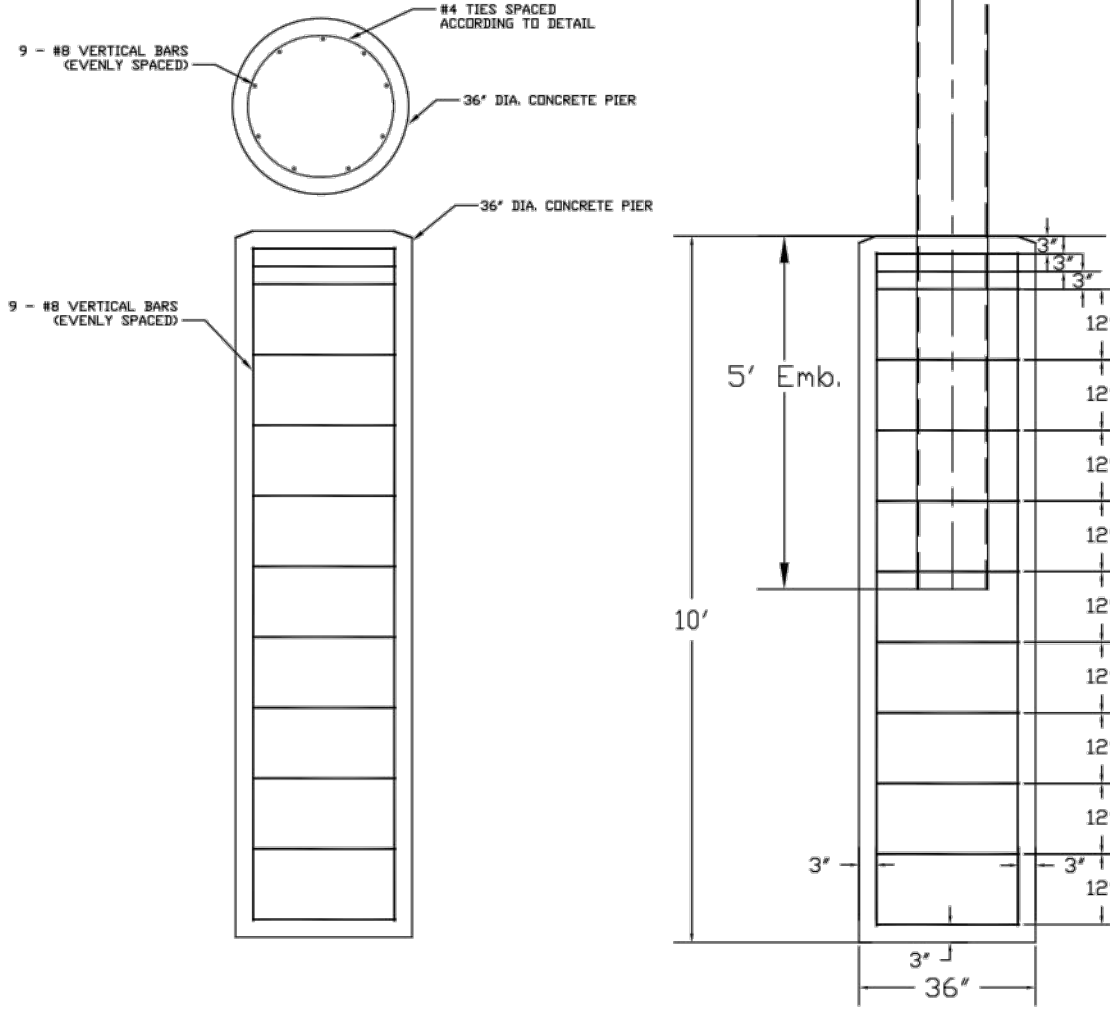
L4.6 - CONSTRUCTION DETAILS



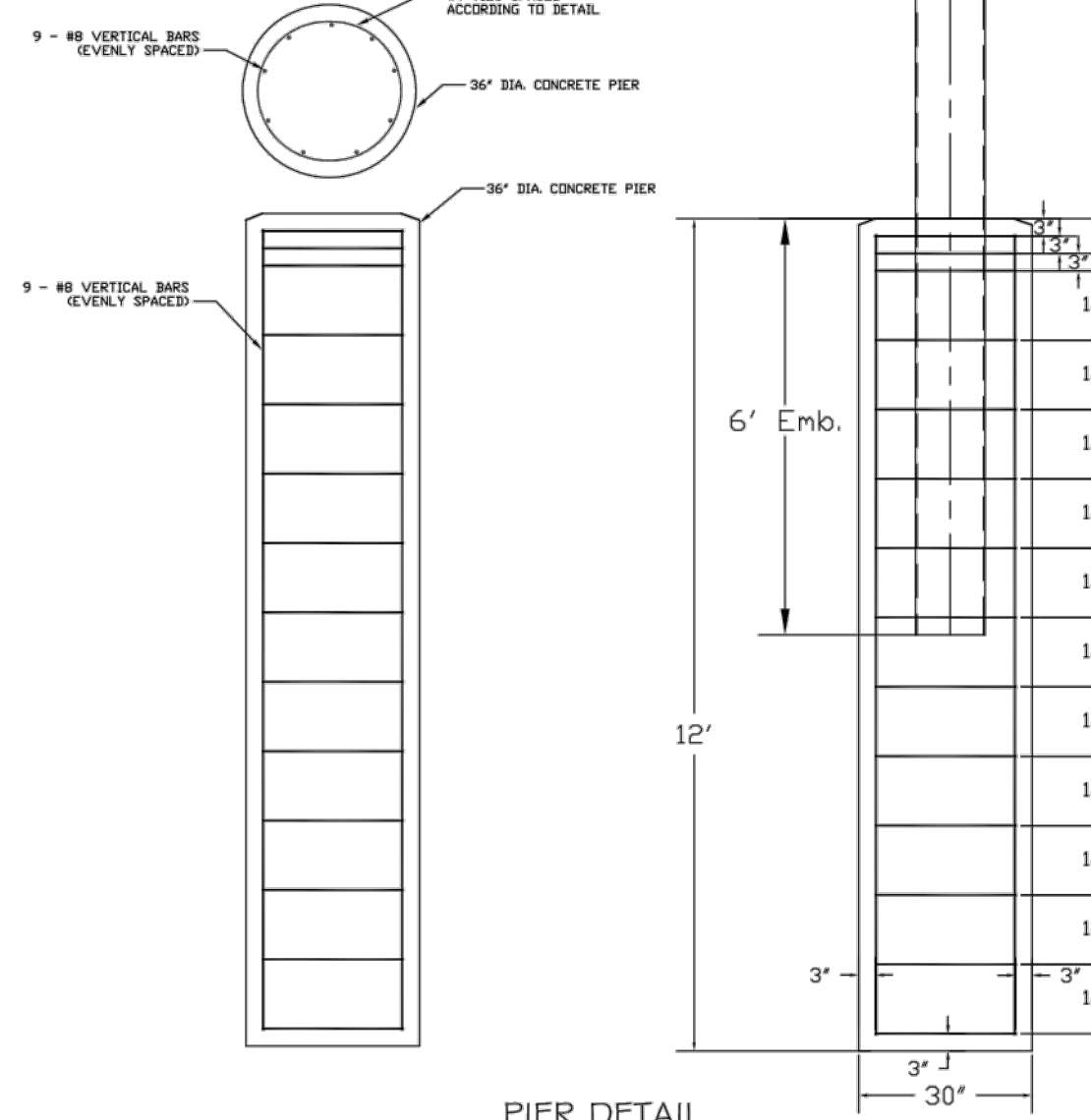
PLAN VIEW SCALE: NONE



ELEVATION VIEW SCALE: NONE



PIER DETAIL SCALE: NONE



General:
Contractor shall be responsible for the verification and coordination of dimensions and for the proper fit-up of field foundations. Any discrepancies and inconsistencies between actual field conditions and/or dimensions and plan dimensions shall be immediately reported to the Engineer of Record.
Temporary construction means and methods and safety provisions are the sole responsibility of the contractor. The design and provision of all temporary supports such as gyps, braces, false work, cribbing, or any other temporary elements required for the execution of the contract shall be the responsibility of the contractor. Temporary supports shall not result in the overstress or damage of the elements to be braced or any elements used as brace supports.
2015 International Building Code is the basic code document used in the preparation of these structural documents. Additional codes and references are as noted. All structural work shall be in conformance with all local codes, in addition to this basic code document.
All phases of the work shall conform to the minimum standards of the 2015 International Building Code and all other regulating agencies exercising authority over any portion of the work.
The contract structural drawings and specifications represent the finished structure unless otherwise indicated. They do not indicate the method of construction.
All ASTM specifications noted in this drawing shall be of the latest revisions.
In the event certain features of the construction are not fully shown on the drawings or called for in the notes or specifications, their construction shall be of the same character as for similar conditions that are shown or called for and shall be reviewed by the Engineer Of Record.

Structural Design Criteria:
Structural design is based as per IBC2015
Live load (Including Snow): 1607.3 5 PSF.
Roof dead load: 0.5 PSF.
Wind speed (3-second gust): 115 MPH.
Exposure: 1609.4.2 C
Risk Category: 1604.5 I
Importance Factor (I): 1.0

Note: Membrane(s) must be removed if roof load or snow load is expected to exceed 5 psf and/or wind speed is expected to exceed an ultimate design basic wind speed of 115 mph or a nominal design basic wind speed of 90mph.

Soil Profile Type / Foundation:
Site Class (Section 1613.3.2, IBC2015) "D" whenever the soil encountered appears to vary from the assumed type or expansive soil or local fill is found at the site the engineer of record needs to be contacted before proceeding further with the construction.
Site : 084
Sd1 : 053

Concrete:
Concrete design and reinforcement shall be in accordance with "Building Code requirements for structural concrete", ACI 318-05 and with "Details and detailing of Concrete Reinforcement", ACI 315-92.
All Concrete work shall be in accordance with the latest edition of the "Standard Specifications for Structural Concrete", ACI 301.
Cast-in-Place shall be normal weight concrete with design strength of 3,000 PSI at 28 days, a slump between 5 and 7 inches, maximum Water/Cement Ratio of 0.45, and a minimum Cement Content of 520 lb/CY and a maximum Aggregate Size of 1 inch.
Contractor shall be responsible for the adequacy of the forms and shoring and safe practice in their use and removal. Concrete that has not been placed prior to 1.5 hours after the initial mixing water was added shall not be placed regardless of temperature or slump. Finishing of concrete in piers shall be through "Elephant Trunk" sublar chutes located such that the free air drop of the concrete does not exceed 0 feet. Alternate placement methods of concrete shall not be used unless approved by the Engineer.

Concrete Reinforcing:
Reinforcing steel shall be deformed new billet steel bars in accordance with A.S.T.M. specifications A615 Grade 60. All hooks and bends in reinforcing bars shall conform to ACI detailing standards unless shown otherwise. The welding of reinforcing steel will not be permitted.
Reinforcing steel clear cover shall be as follows:
A. Drilled Piers: 3" Bottom, 3" Sides.

Drilled Piers:
Pier Design is based on an assumed allowable loading of 1,500 PSF in end bearing and 500 PSF in side friction.
Reinforcing cage shall be held securely away from earth at sides and bottom by sets of 3 precast concrete spacer blocks at a maximum spacing of 8ft. along the length of the cage and 1'-0" from bottom unless shown otherwise.
Pier reinforcing and concrete shall be placed immediately after drilling operations are complete; in no case shall a pier be drilled that cannot be poured by the end of the workday.
Precautions should be taken during the placement of reinforcement and concrete to prevent the loose material from falling into the excavation.
Prior to the placement of concrete, water should be removed from the pier excavation.
The Contractor shall verify depths of piers before steel is cut. Pier steel may be delivered to the jobsite in standard lengths and cut as required. Provide E4 bar diameter laps in all vertical pier reinforcing.

Structural Steel:
Rolled steel plates, shapes, and bars shall be structural quality carbon steel complying with ASTM A-36, except where other type steel is shown.
Structural steel tubular products shall be cold formed structural quality carbon steel, welded or seamless, complying with ASTM A500, Grade B.
Pipe columns shall conform to the requirements of ASTM A-500 Grade B (Unless noted otherwise on the Plans).
All structural steel shall be fabricated and erected in accordance with the drawings and as recommended by AISC Manual of Steel Construction.
Steel telescopic sleeves do not have more than 1/16" tolerance, with no less than 12" overlap at all sleeves. All internal fittings are plug welded on two sides.
Steel tubing and plates are finished with a minimum of 2.5 to 3.5 MIL thick UV-inhibited weather resistant powder coat. Where size of structure or determined loads require larger structural steel members or steel greater than 7 gauge thickness, carbon steel may be substituted. Cleaning and coating of carbon steel conforms to the following:
A de-greasing agent is applied to remove surface oil and grease.
An acid-phosphate wash is applied to etch and prepare the surface for powder-coating, where wall thickness requires pre-heating.
Steel members are to be pre-heated prior to powder coat application to assure adhesion.
Welding shall be in accordance with the drawings and as recommended by applicable AWS specifications. Welding Rods to be low hydrogen type E70 or gas-metal arc using ER 70S3 wire.
Welds have been designed with single pass fillet welds. All steel shall be welded shut at terminations to prevent water inclusion inside structural members. Welders shall be certified in accordance with the latest edition of the American Welding Society specifications and qualifications.
All welding will be shop welded, field connections will be bolted.
Bolted connections have been designed to be tightened according to the turn-of-the-nut method.
Bolts, nuts, washers, lags and screws shall be medium carbon steel: size and type to suit applications; zinc plated for exterior locations.
Stranded cable with zinc coatings, class A, minimum tensile strength equal 7000 LBS.

Membrane Top (Canopy):
Membrane cover shall be fabricated with UV resistant 100% High Density Polyethylene, flame-resistant Architectural Mesh. Meets ASTM -E-84 (Class A Fire Rating) where required. Membrane canopy should be stretched and tensioned by applying axial tension to the canopy perimeter cable as required to achieve structural integrity of the membrane and reduce fluttering and vibrations under wind load. Sag on tensioned perimeter cables should be between 3 and 3.5% of cable chord.

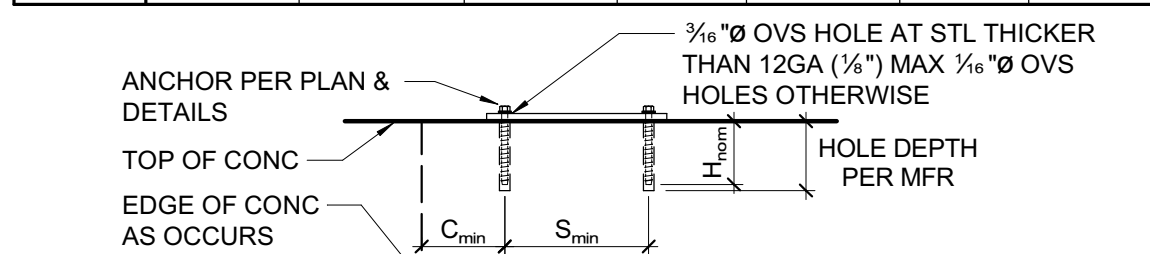
IMPORTANT
The footing sizes provided by Modern Shade LLC are estimated only and may change after actual engineering is performed on footings due to local conditions and codes.
Modern Shade LLC is not responsible if actual engineered footings differ from the estimates provided or if any additional costs for footing installation are incurred by customer.

Confidential Proprietary Information:
The information contained herein is proprietary to Modern Shade LLC and shall not be reproduced or disclosed in whole or in part, or used for any design or manufacture except when user obtains direct written authorization from Modern Shade LLC.

**** PRELIMINARY - NOT FOR CONSTRUCTION ****

Finley Aquatic Center
Santa Rosa, CA 95401

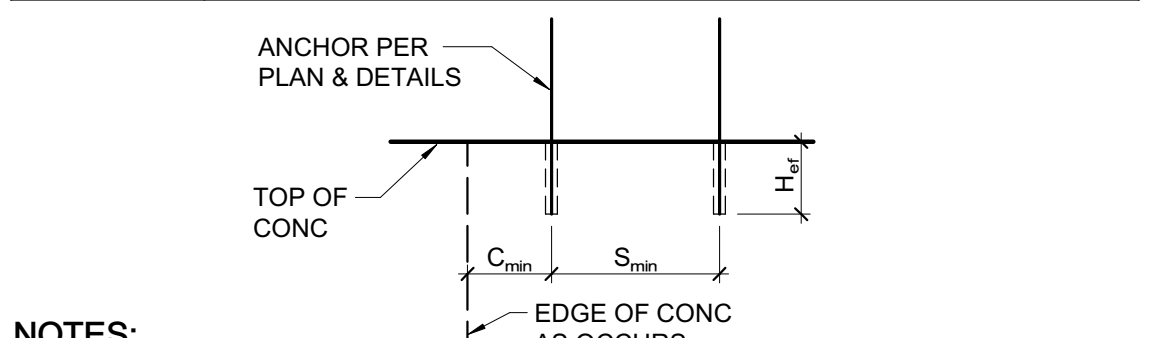
SCREW ANCHOR IN 2500 PSI MIN CONCRETE							
ANCHOR TYPE	ANCHOR AND PILOT HOLE DIA	MINIMUM EMBEDMENT	MINIMUM EDGE DIST	MINIMUM SPCG	MINIMUM CONCRETE THICKNESS	MINIMUM INSTALL TORQUE (FT-LB)	MAXIMUM INSTALL TORQUE (FT-LB)
SIMPSON TITEN HD (ICC-ESR 2713)	1/4"	1 1/2"	1 1/2"	1 1/2"	3 1/4"	10	24
	3/8"	2 1/2"	1 1/2"	3"	4"	10	50
	1/2"	3 1/4"	1 1/2"	3"	5"	10	65
	3/4"	4"	1 1/2"	3"	6"	10	100
HILTI KH-EZ (ICC-ESR 3027)	1/4"	1 1/2"	1 1/2"	1 1/2"	3 1/4"	10	18
	3/8"	2 1/2"	1 1/2"	3"	4"	10	40
	1/2"	3"	1 1/2"	3"	4 1/4"	10	45
	3/4"	3 1/4"	1 1/2"	4"	5"	10	85
3/4"	4"	1 1/2"	4"	6"	20	95	



- NOTES:**
- INSTALL SCREW ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705 OF THE CBC AND THE REQUIREMENTS OF THE ICC REPORTS. INSTALLED ANCHORS SHALL BRING CONNECTED PLIES INTO FIRM CONTACT, MEETING THE INSTALL TORQUE BUT NOT EXCEEDING THE MAXIMUM INSTALL TORQUE.
 - CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
 - HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
 - THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE.

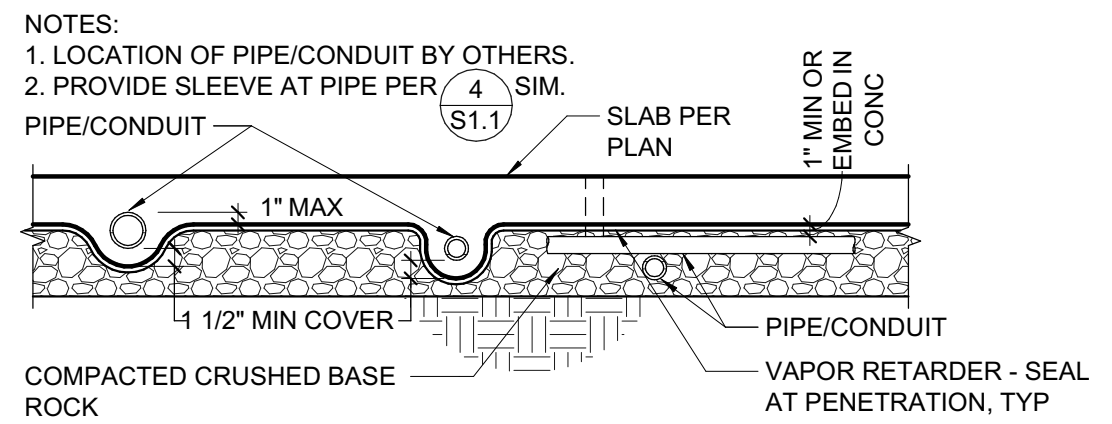
11 SCREW ANCHOR IN CONCRETE
3/4" = 1'-0"

ADHESIVE ANCHOR IN 2500 PSI MIN CONCRETE							
ADHESIVE TYPE	ANCHOR		PILOT HOLE	MIN EMB UNO	MIN EDGE DISTANCE	MIN SPCG	MIN CONC DEPTH
	THRD ROD	REBAR					
SIMPSON SET-XP (ICC-ESR 2508)	3/8"	#3	1/2"	3"	1 1/2"	3"	H _{ef} + 2 1/2"
	1/2"	#4	3/4"	4"	1 1/2"	3"	H _{ef} + 3 1/2"
	3/4"	#5	1"	5"	1 1/2"	3"	H _{ef} + 3 1/2"
	1"	#6	1 1/4"	6"	1 1/2"	3"	H _{ef} + 4 1/2"
	1 1/4"	#7	1 3/4"	7"	1 1/2"	3"	H _{ef} + 4 1/2"
	1 3/4"	#8	2 1/4"	8"	1 1/2"	3"	H _{ef} + 5 1/2"
HILTI HIT-HY 200R (ICC-ESR 3187)	3/8"	N/A	3/8"	3"	1 1/2"	1 1/2"	H _{ef} + 1 1/4"
	1/2"	N/A	1/2"	4"	1 1/2"	2 1/2"	
	3/4"	N/A	3/4"	4"	1 1/2"	2 1/2"	H _{ef} + 1 1/2"
	1"	N/A	1"	5"	1 1/2"	3 1/4"	
	1 1/4"	N/A	1 1/4"	6"	1 1/2"	3 3/4"	H _{ef} + 1 3/4"
	1 3/4"	N/A	1 3/4"	7"	1 1/2"	4 3/4"	H _{ef} + 2"
2"	N/A	2"	8"	1 1/2"	5"	H _{ef} + 2 1/4"	
N/A	N/A	N/A	9"	1 1/2"	5 1/2"	H _{ef} + 2 3/4"	
	N/A	N/A	10"	1 1/2"	6 1/4"		
N/A	N/A	N/A	10"	1 1/2"	6 1/4"	H _{ef} + 3"	

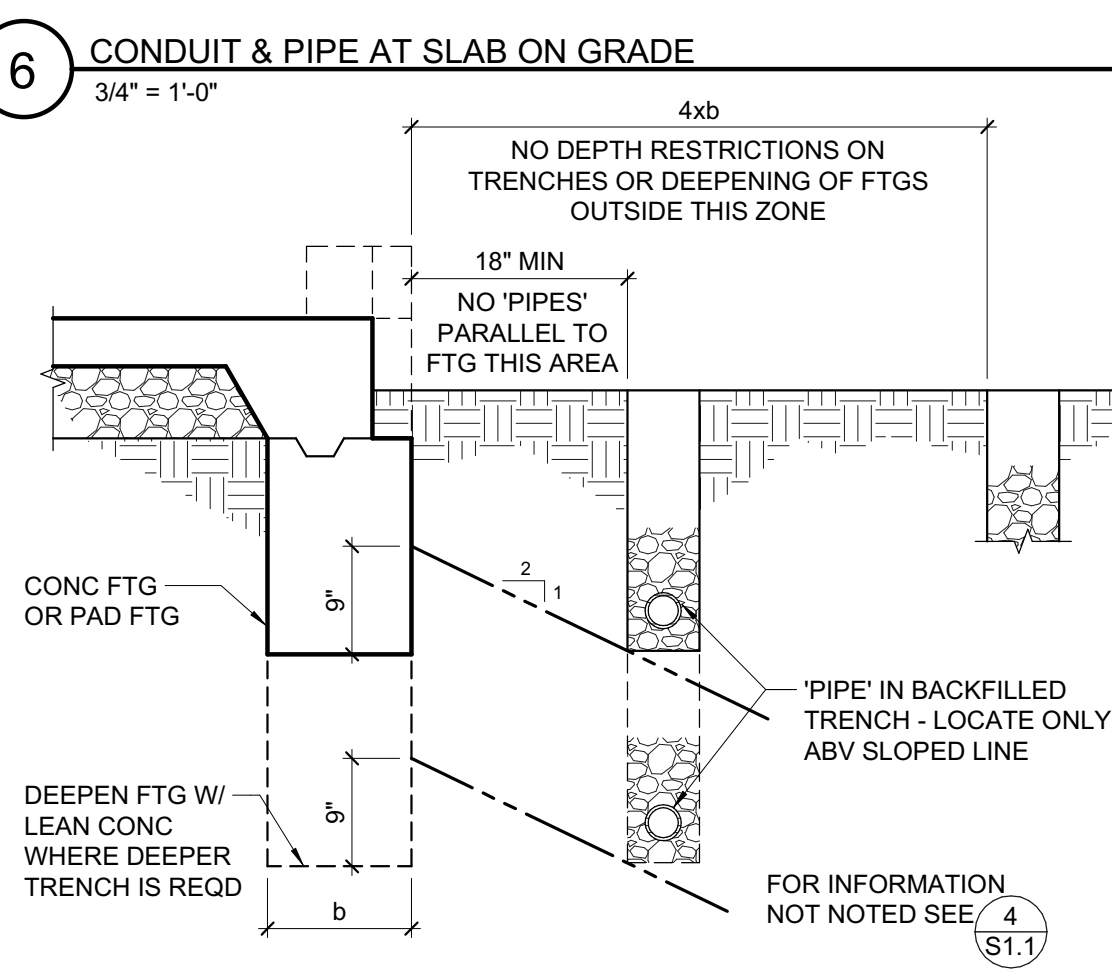


- NOTES:**
- INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT.
 - CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING, AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
 - HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
 - SPECIAL INSPECTION IS REQUIRED PER SECTION 1705 AND THE REQUIREMENTS OF THE ICC REPORTS. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND ADHESIVE INJECTION.

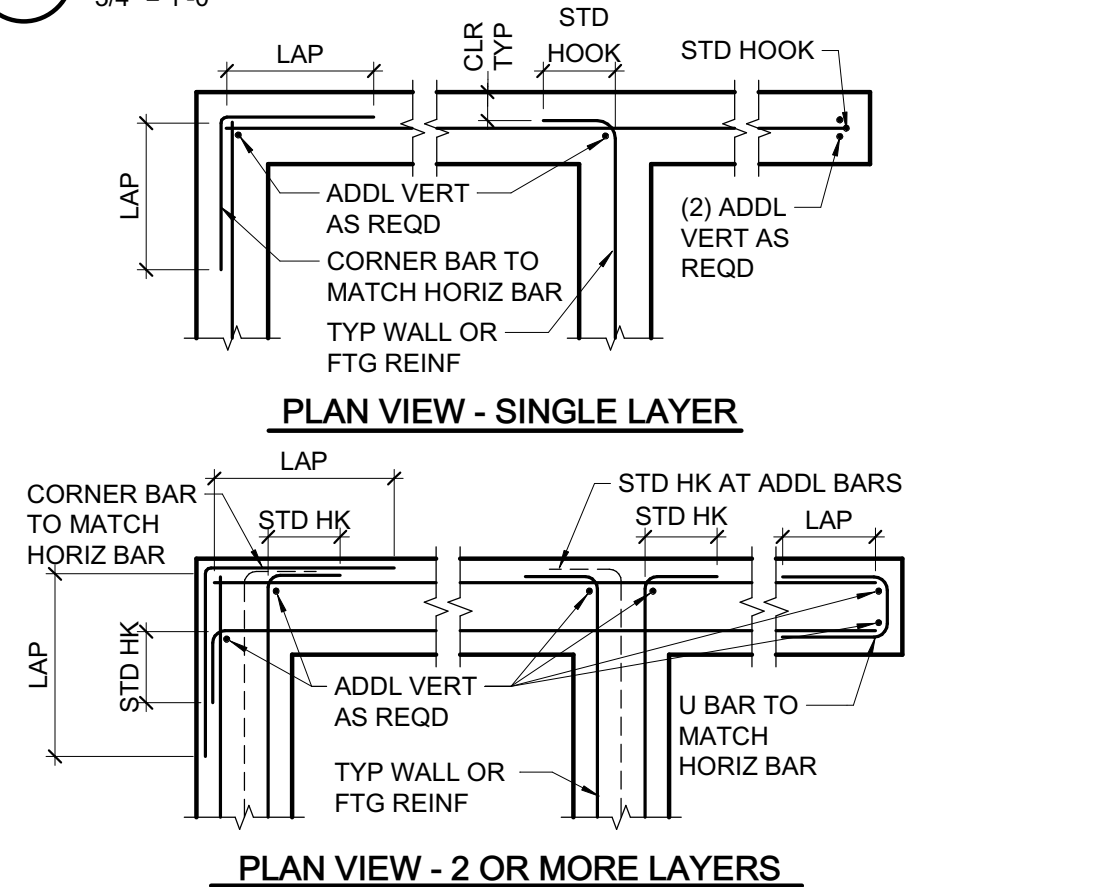
12 ADHESIVE ANCHOR IN CONCRETE
3/4" = 1'-0"



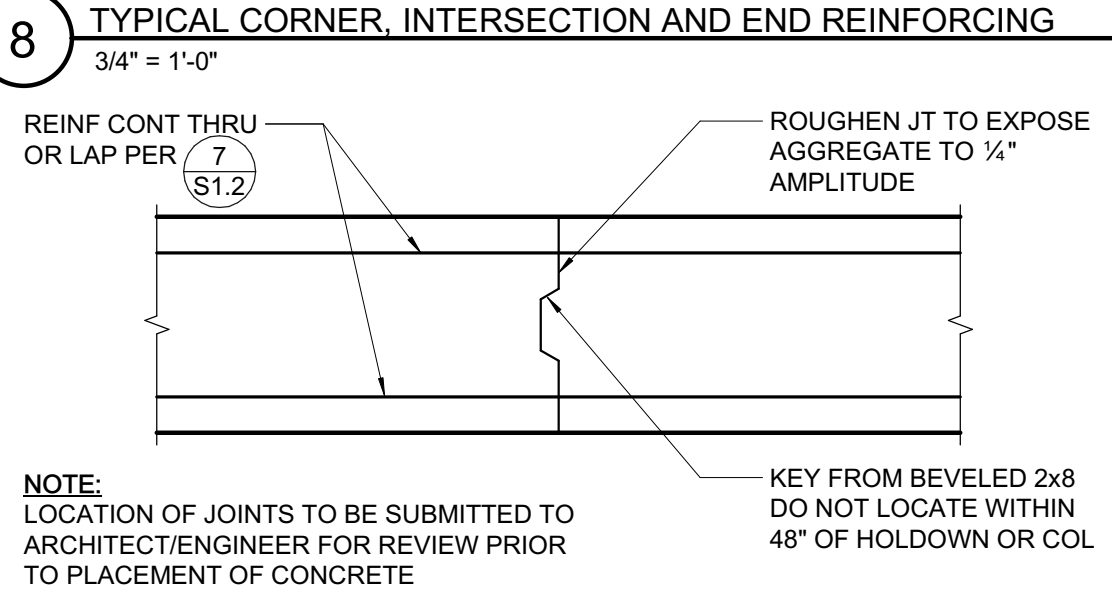
6 CONDUIT & PIPE AT SLAB ON GRADE
3/4" = 1'-0"



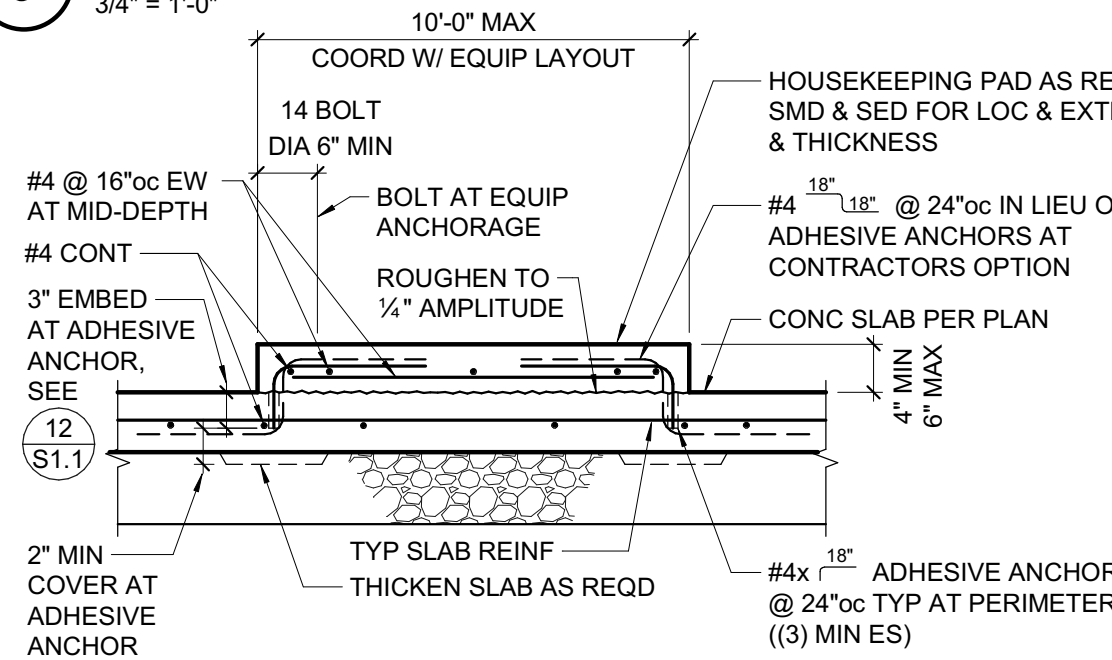
7 TRENCHING ADJACENT TO FOOTING
3/4" = 1'-0"



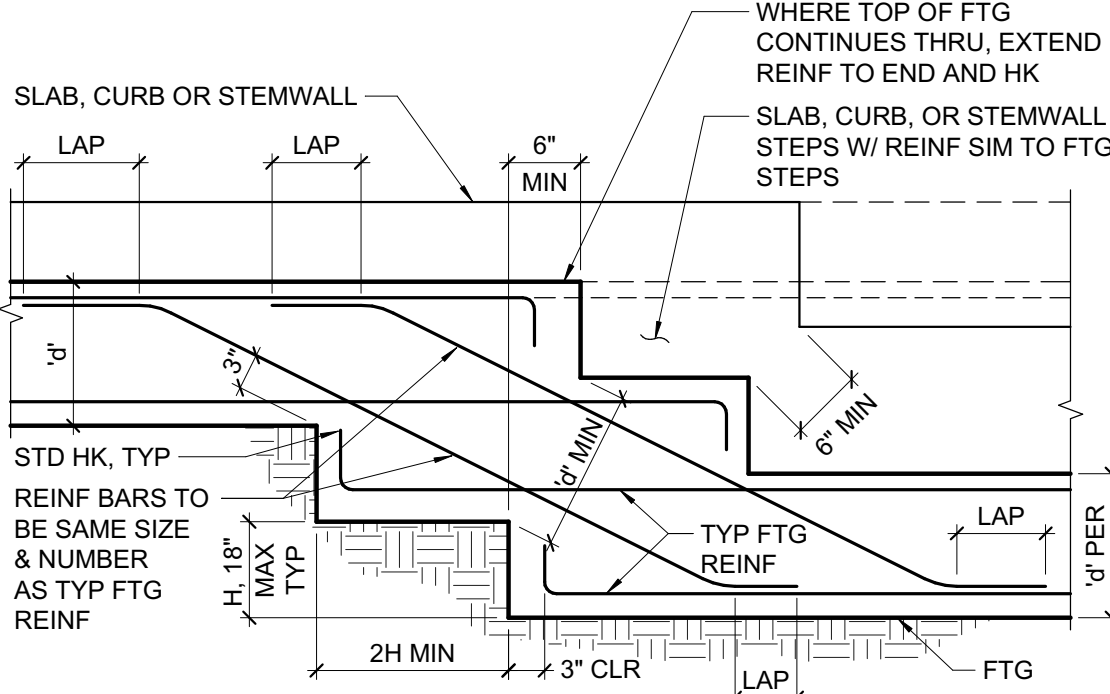
8 TYPICAL CORNER, INTERSECTION AND END REINFORCING
3/4" = 1'-0"



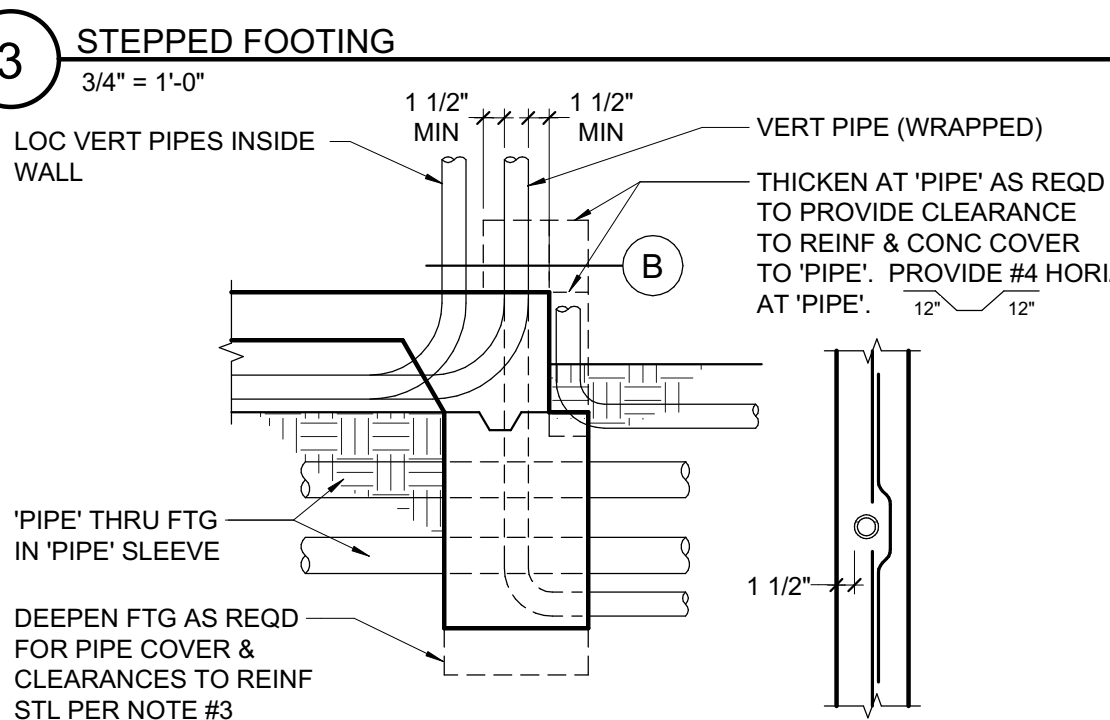
9 FOOTING CONSTRUCTION JOINT
3/4" = 1'-0"



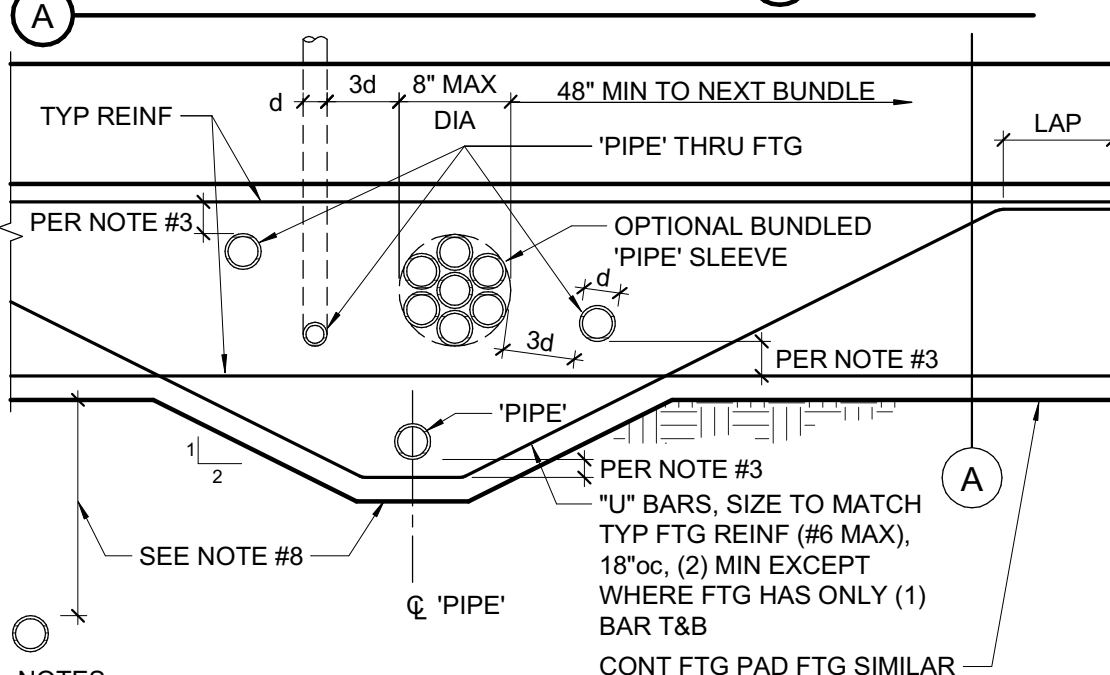
10 TYPICAL HOUSEKEEPING PAD AT SLAB
3/4" = 1'-0"



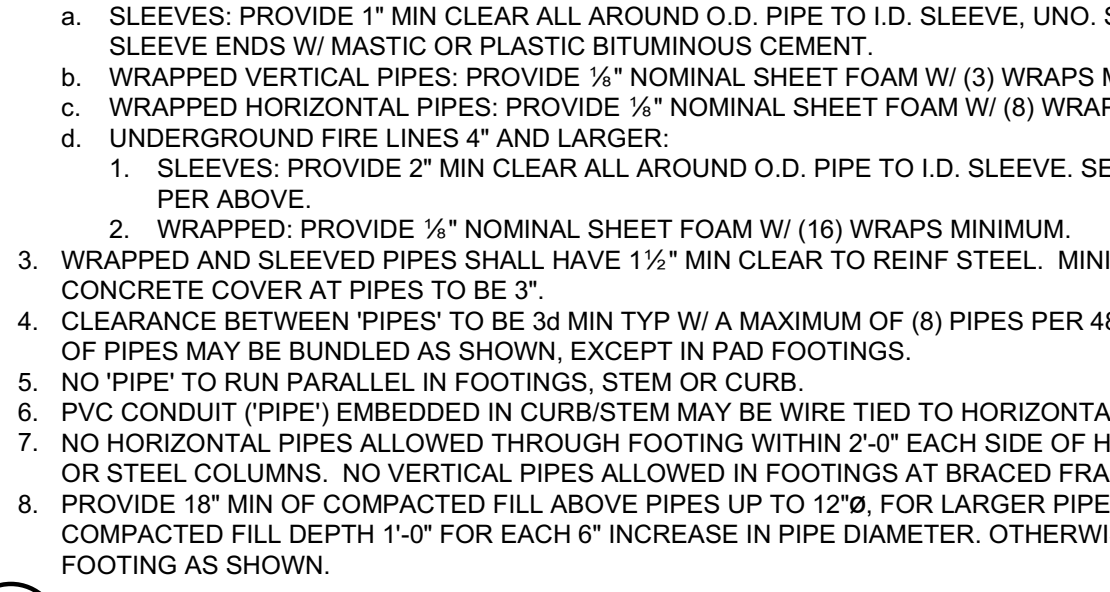
3 STEPPED FOOTING
3/4" = 1'-0"



4 PIPES THRU FOOTING
3/4" = 1'-0"



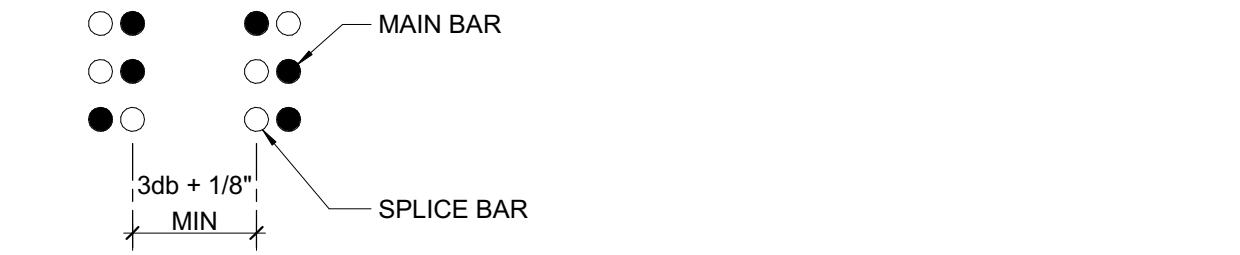
4 PIPES THRU FOOTING
3/4" = 1'-0"



5 SLAB ON GRADE JOINTS
3/4" = 1'-0"

	LAP SPLICE LENGTHS (LAP) (STAGGER SPLICES)										
	LOCATION	SIZE									
		#3	#4	#5	#6	#7	#8	#9	#10	#11	
CONCRETE f _c = 4000 PSI AT 28 DAYS	TOP	15"	20"	29"	29"	48"	62"	75"	91"	109"	
	OTHER	12"	15"	23"	23"	37"	47"	58"	70"	84"	
CONCRETE f _c = 5000 PSI AT 28 DAYS	TOP	13"	18"	26"	26"	43"	54"	67"	82"	98"	
	OTHER	12"	14"	20"	20"	33"	42"	52"	63"	75"	

- NOTES:**
- TOP REINFORCING IS HORIZONTAL REINFORCEMENT WITH MORE THAN TWELVE INCHES (12") OF CONCRETE PLACED BELOW IT.
 - IF THE LAP SPLICE REINFORCEMENT DOES NOT HAVE A MINIMUM SPACING 3db + 1/8 INCHES & A MINIMUM COVER OF db + 1/8 INCHES, USE WELDED SPLICE OR MECHANICAL CONNECTOR.



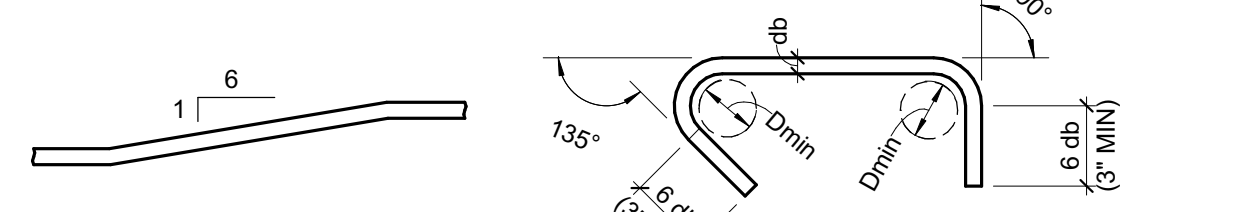
- HOOKED DEVELOPMENT LENGTHS (L_{dh}) MAY BE USED IN LIEU OF DEVELOPMENT LENGTH (L_d) IF STANDARD HOOK IS PROVIDED AT END OF BAR.
- MECHANICAL CONNECTORS SHALL BE TENSION-COMPRESSION TYPE WITH THE ABILITY TO DEVELOP 125% OF THE YIELD STRENGTH FOR THE SPLICED REINFORCEMENT (75 KSI). MECHANICAL CONNECTORS SHALL HAVE & BE INSTALLED PER AN ICC EVALUATION REPORT.
- WWR SHALL LAP MINIMUM (3) BAR CROSSINGS.

CONCRETE COVER FOR REINFORCING STEEL

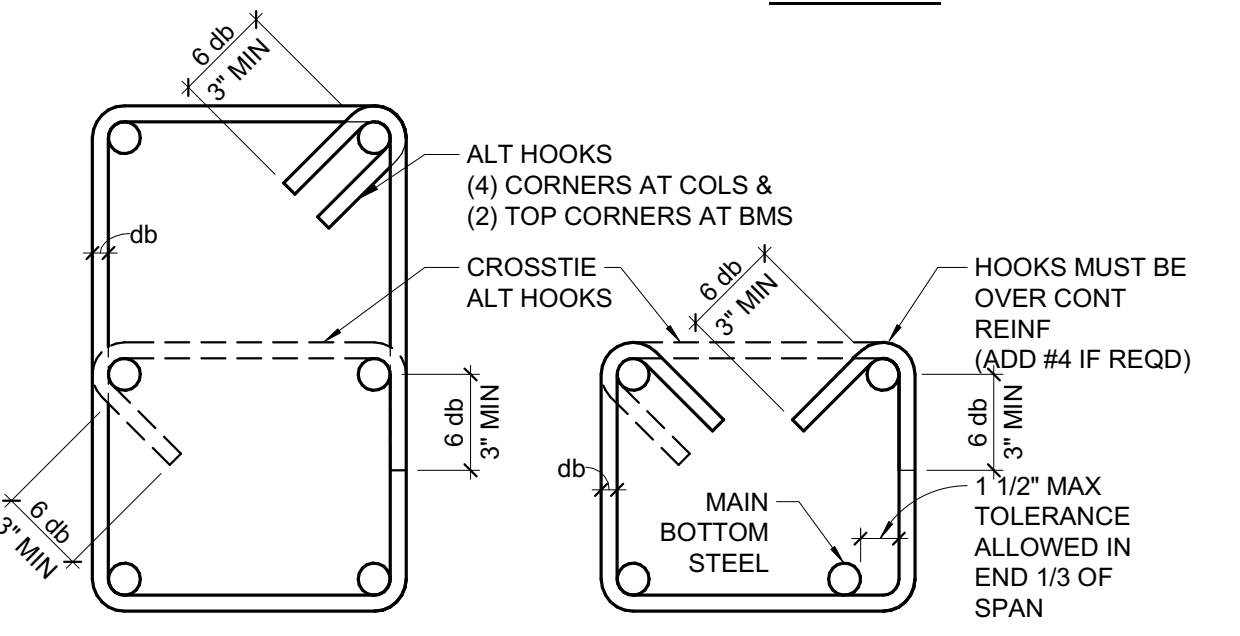
CAST AGAINST EARTH OR GRADE	CLR
EXPOSED TO EARTH (FORMED) OR WEATHER:	
#5 AND SMALLER	1 1/2"
#6 AND LARGER	2"

NOT EXPOSED TO EARTH OR WEATHER:	CLR
#5 AND SMALLER	1"
#6 AND LARGER, AND ALL BEAM STIRRUPS, COLUMN TIES AND SPIRALS	1 1/2"

ALL REINF SHALL EXTEND AS FAR AS POSSIBLE. WHERE BAR SPLICES ARE REQUIRED, BARS SHALL BE LAPPED PER SCHEDULE ABOVE UNLESS DETAILED OTHERWISE. WHERE REINF TERMINATES AT END OF MEMBER, REINF SHALL END IN A STD 90° OR 180° HK UNLESS DETAILED OTHERWISE.



BEND OFFSET (MAX) CROSS TIE

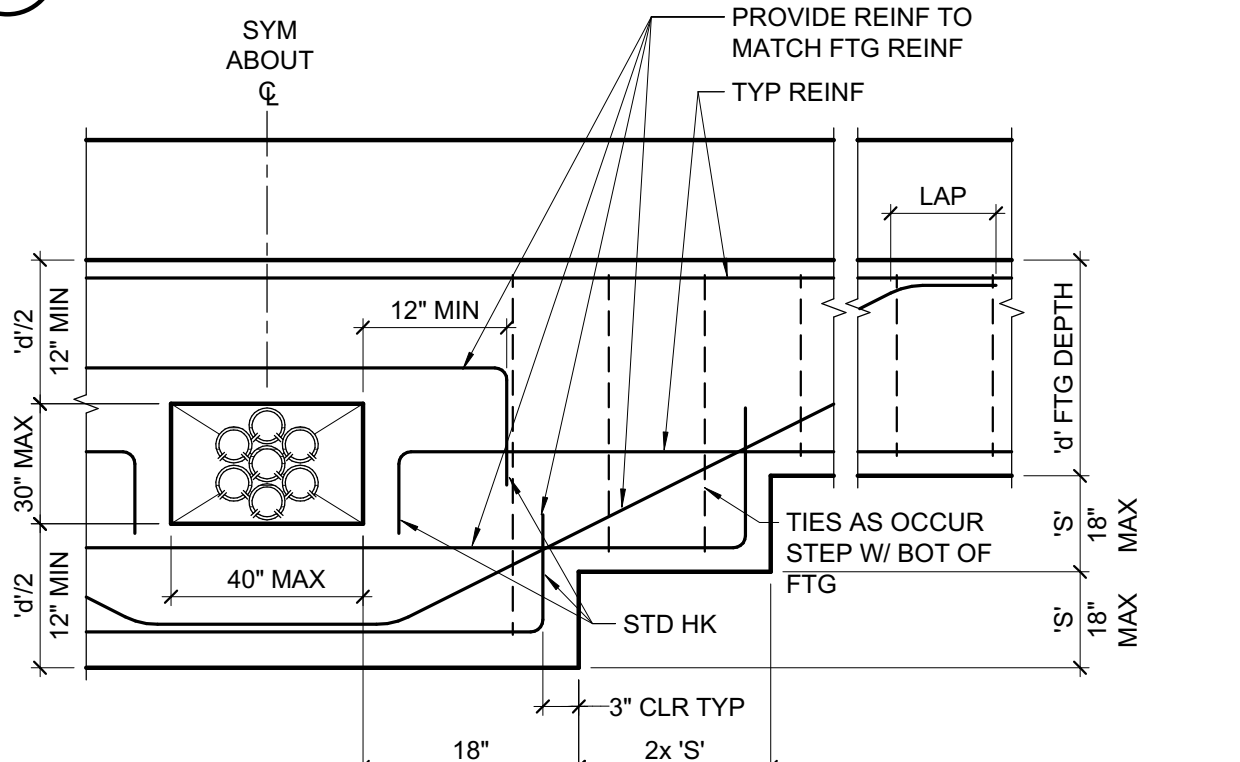


COLUMN & BEAM TIE (HOOP) BEAM STIRRUP

CROSSTIES, HOOPS & STIRRUPS

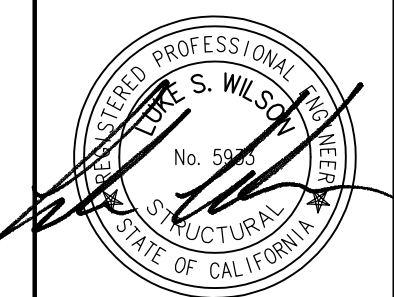
REINF	D _{min}
#3	1 1/2"
#4	2"
#5	2 1/2"

1 REINFORCING LAPS AND SPLICES AND BENDS
1" = 1'-0"

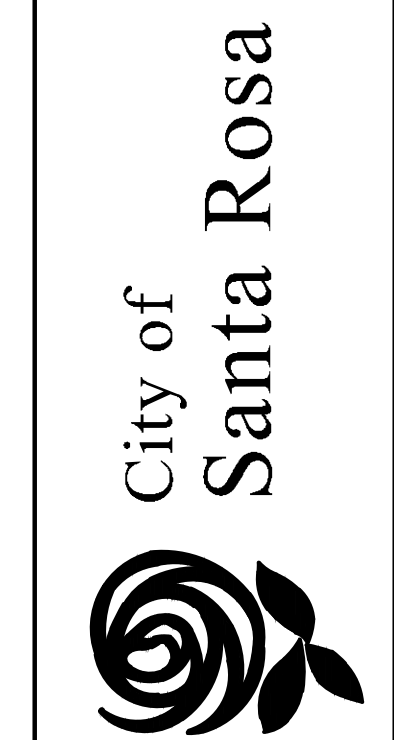


- NOTES:**
- DO NOT LOCATE BLOCKOUT WITHIN 48" OF SHEAR WALL HOLD DOWN, IN FRAME FOUNDATIONS OR COLUMN PAD FOOTINGS.
 - MINIMUM DISTANCE BETWEEN BLOCKOUTS OR OTHER PIPES TO BE 48".

2 FOUNDATION BLOCKOUT
3/4" = 1'-0"



06/07/2023



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DATE: 04/03/2023
SCALE: As indicated

FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT

S1.1 - TYPICAL CONCRETE DETAILS

CONTRACT NO. C02336
35 OF 68
FILE NO. 2022-014

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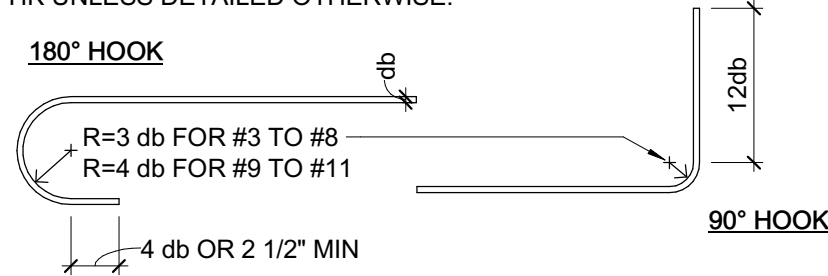
MINIMUM BAR LAPS FOR REINFORCING STEEL CONCRETE STRENGTH: 2500 PSI OR GREATER (STAGGER SPLICES)					
SIZE	LAP LENGTH	SIZE	LAP LENGTH	SIZE	LAP LENGTH
#3	19"	#6	38"	#9	94"
#4	25"	#7	61"	#10	115"
#5	37"	#8	77"	#11	138"

(CLASS B TOP BAR)
BAR SPCG SHALL NOT BE LESS THAN 4x BAR DIA OR 4".
* WHERE COVER NOT LESS THAN 1 1/2", #5 LAP LENGTH = 31"

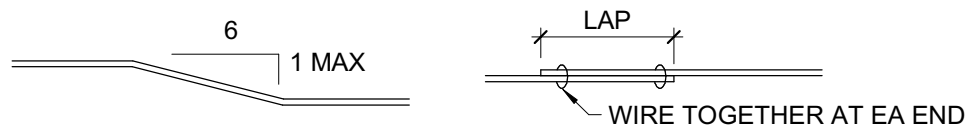
CONC COVER FOR REINF STL 'CLR'

- CAST AGAINST EARTH OR GR 3"
- EXPOSED TO EARTH (FORMED) OR WEATHER
 - #5 & SMALLER 1 1/2"
 - #6 & LARGER 2"
- NOT EXPOSED TO EARTH OR WEATHER
 - #5 & SMALLER 1"
 - #6 & LARGER, & ALL BM STIRRUPS, COL TIES & SPIRALS 1 1/2"

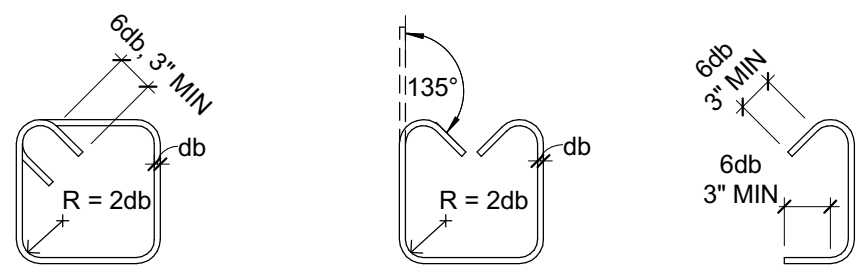
ALL REINF SHALL EXTEND AS FAR AS POSSIBLE, WHERE BAR SPLICES ARE REQUIRED, BARS SHALL BE LAPPED PER SCHEDULE ABOVE UNLESS DETAILED OTHERWISE. WHERE REINF TERMINATES AT END OF MEMBER, REINF SHALL END IN A STD 90° OR 180° HK UNLESS DETAILED OTHERWISE.



STANDARD HOOKS & BENDS



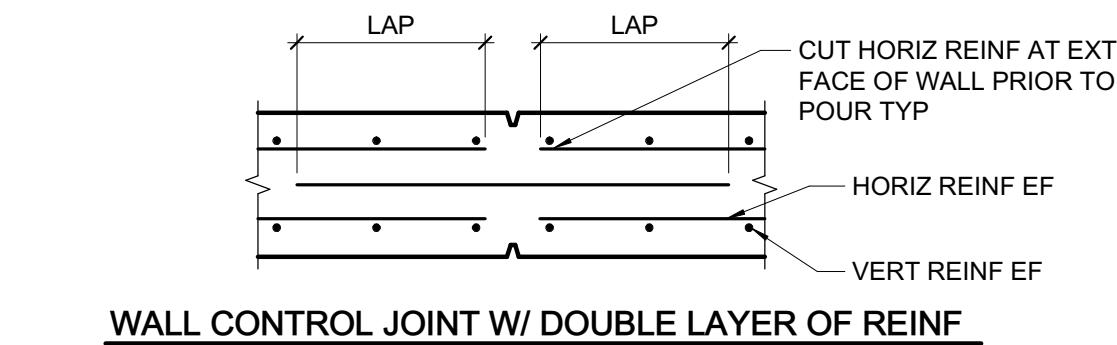
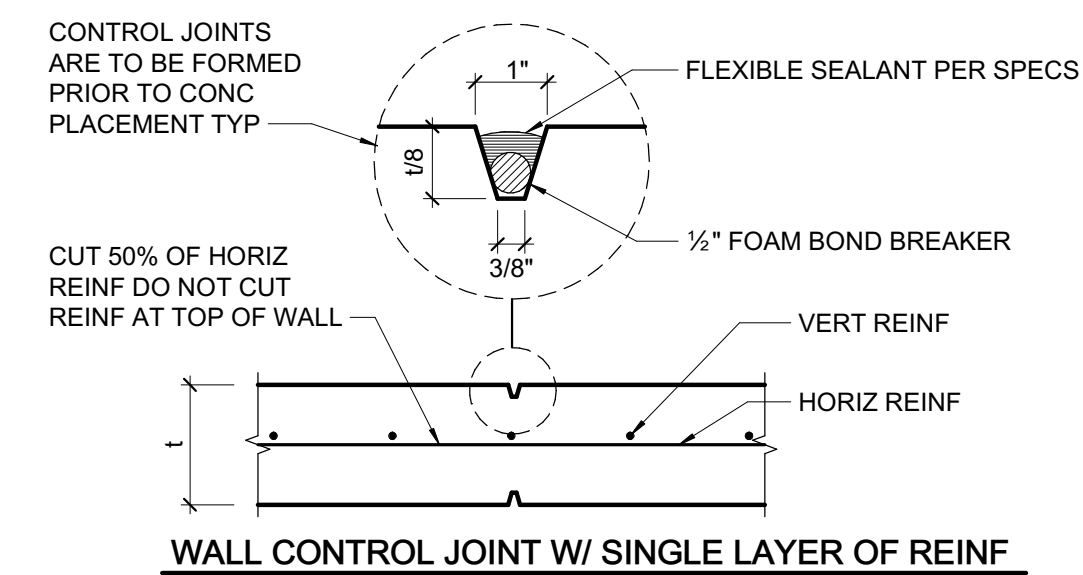
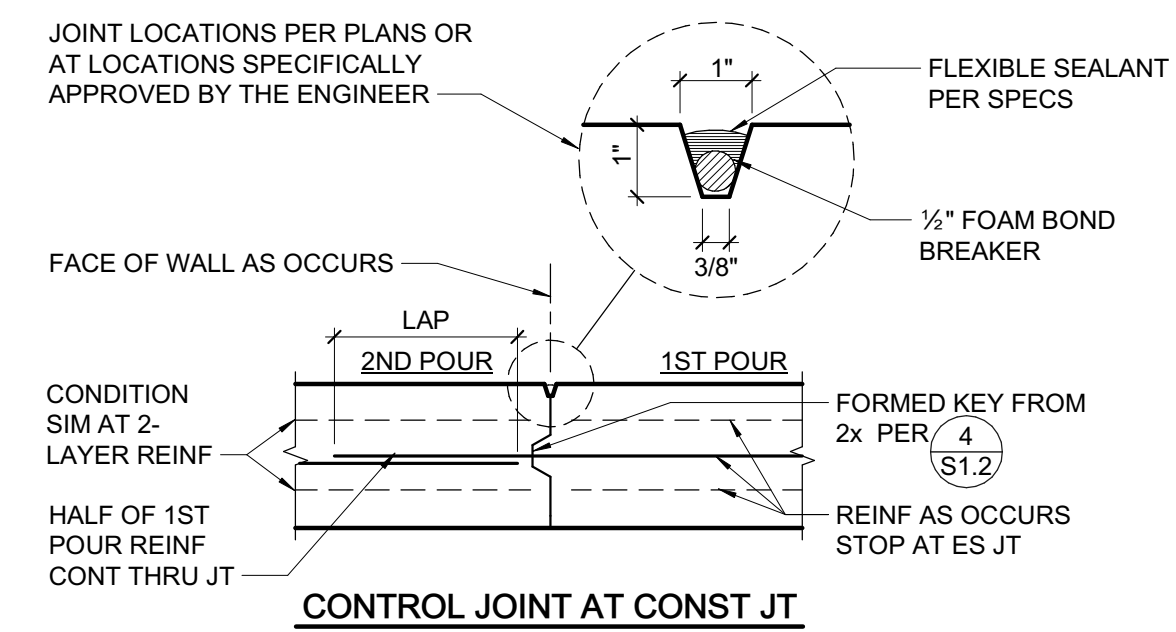
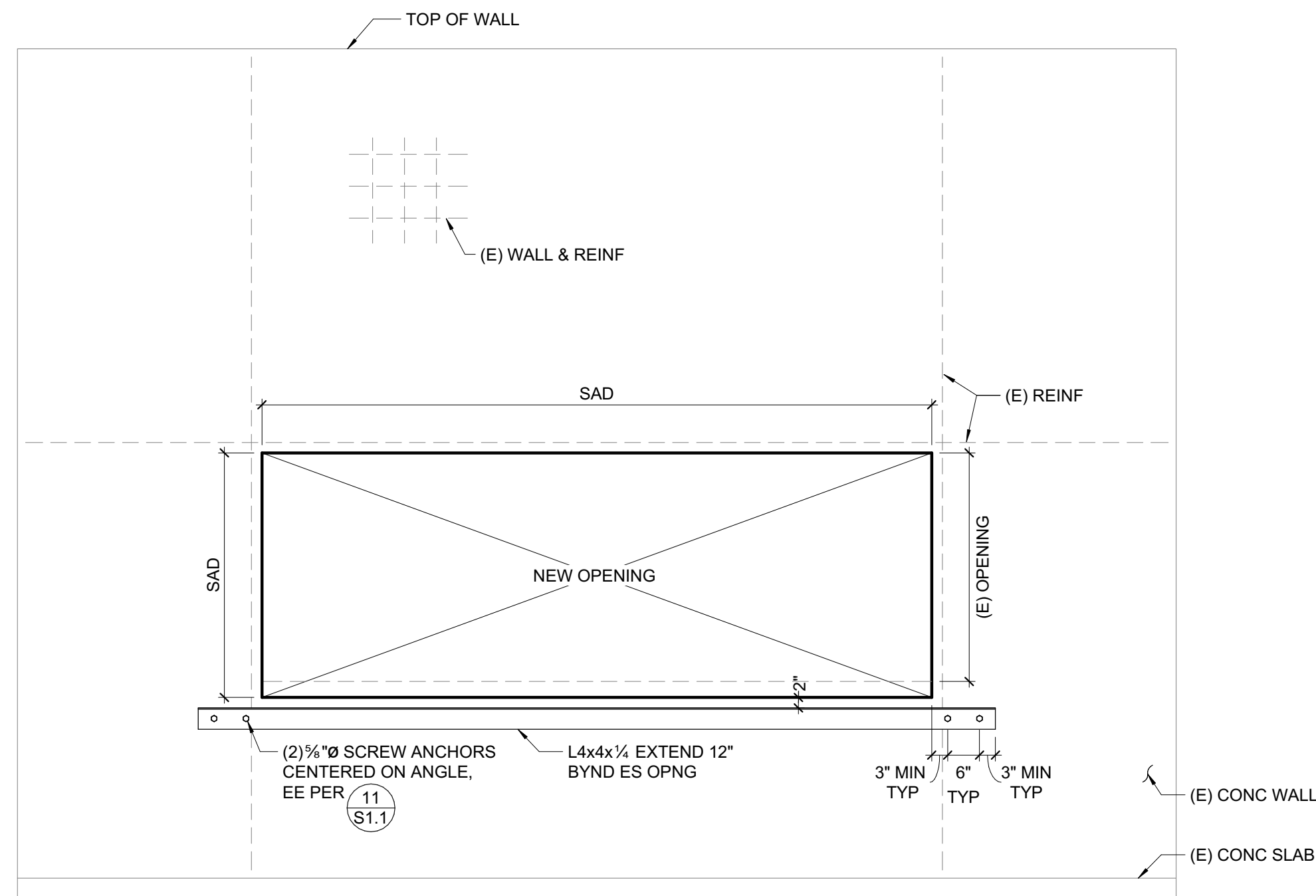
COL BAR & STRUCT OFFSET **SPLICE**



135° STIRRUP TIES #3, #4, #5 **STIRRUP #3, #4, #5** **CROSSTIE #3, #4, #5**

7 TYPICAL REINFORCING DETAILS (f'c = 2500psi MIN)
3/4" = 1'-0"

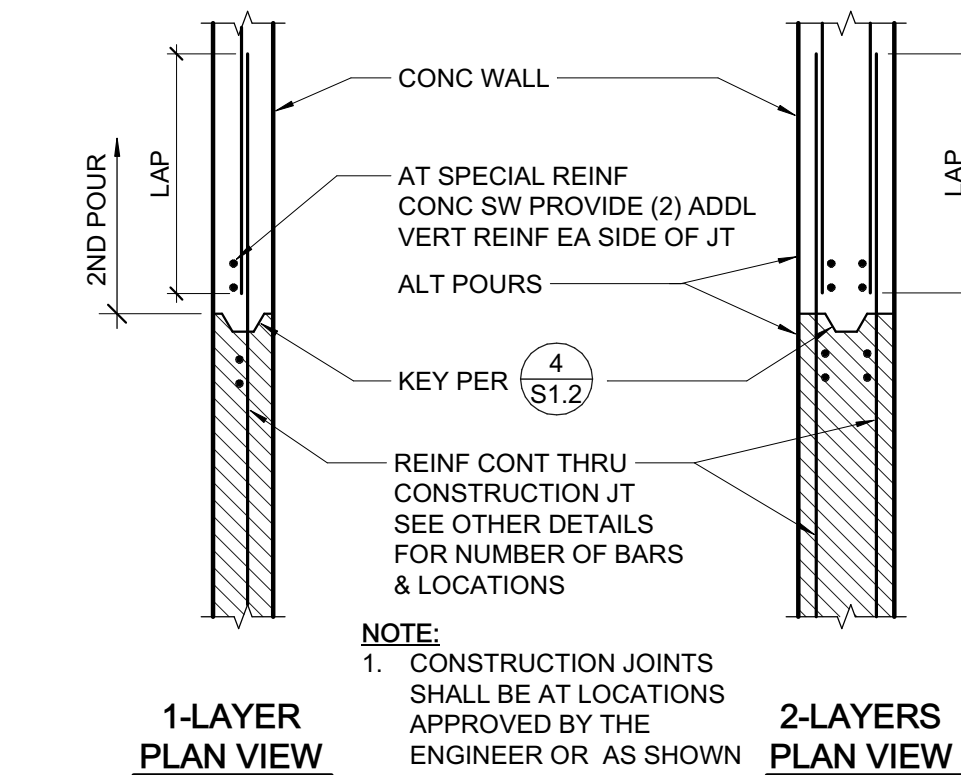
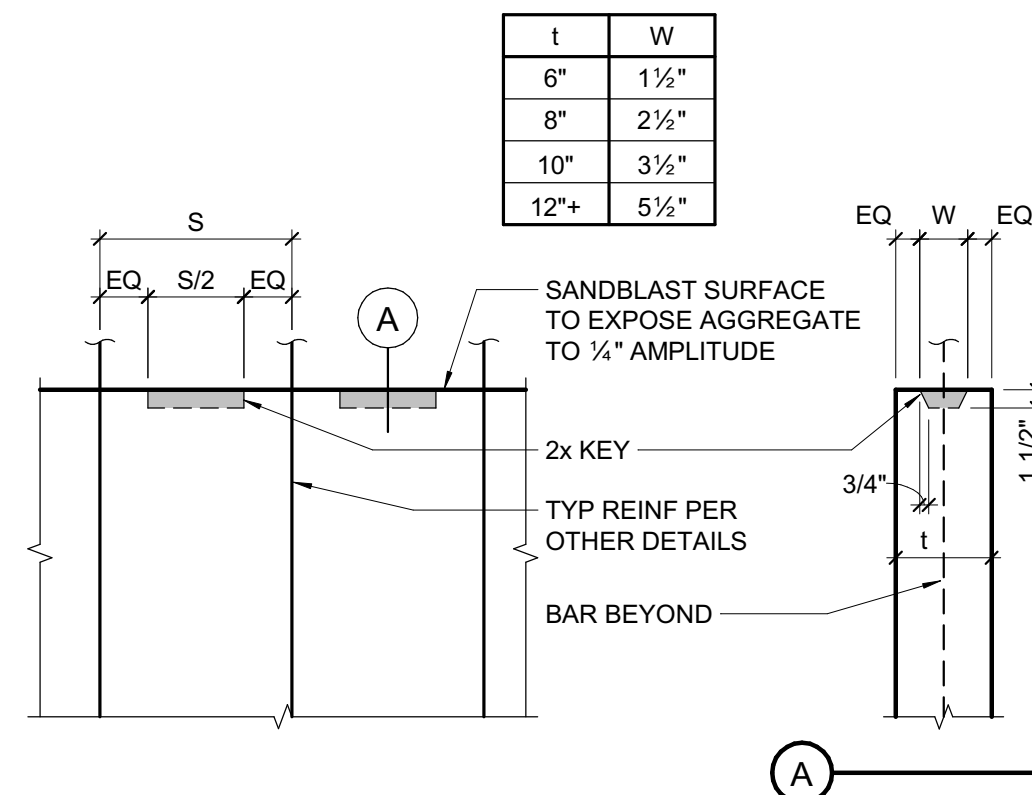
3 ELEVATION OF CONCESSION STAND
1/2" = 1'-0"



- NOTE:**
- SEALANT ON OUTSIDE FACE AT WALLS RETAINING SOIL IS NOT REQUIRED
 - WATERPROOFING FOR WALL SHALL PROVIDE FOR EXPANSION OVER THE JOINT
 - PROVIDE VERTICAL CONTROL JOINTS AT 2x WALL HEIGHT (2H) OC, 10'-0" MIN. JOINTS SHALL NOT EXCEED 25'-0" OC

6 CONTROL JOINTS IN CONCRETE RETAINING/BASEMENT WALL
3/4" = 1'-0"

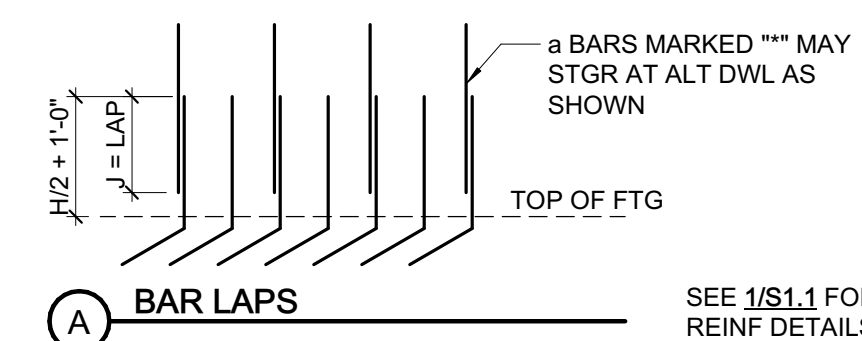
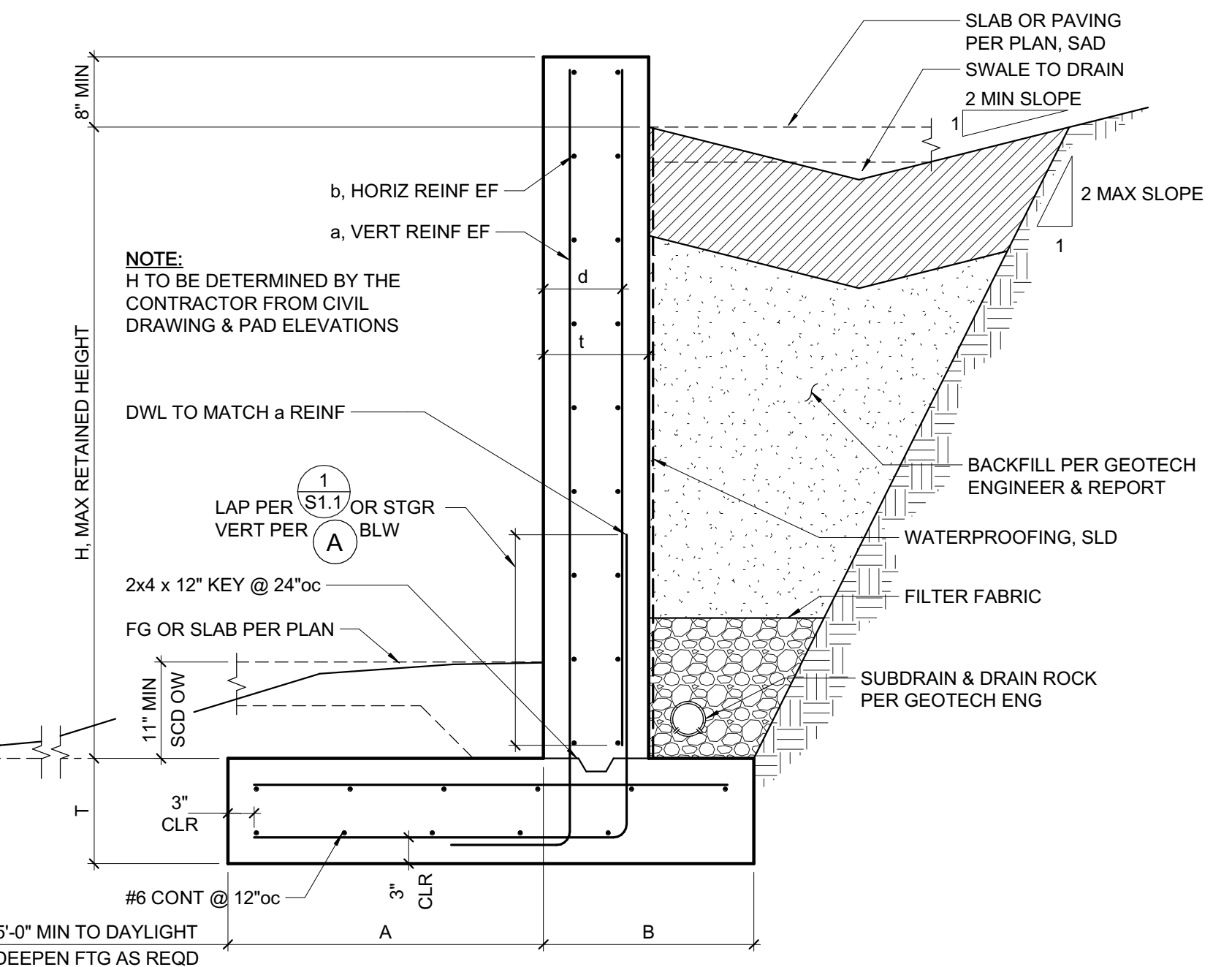
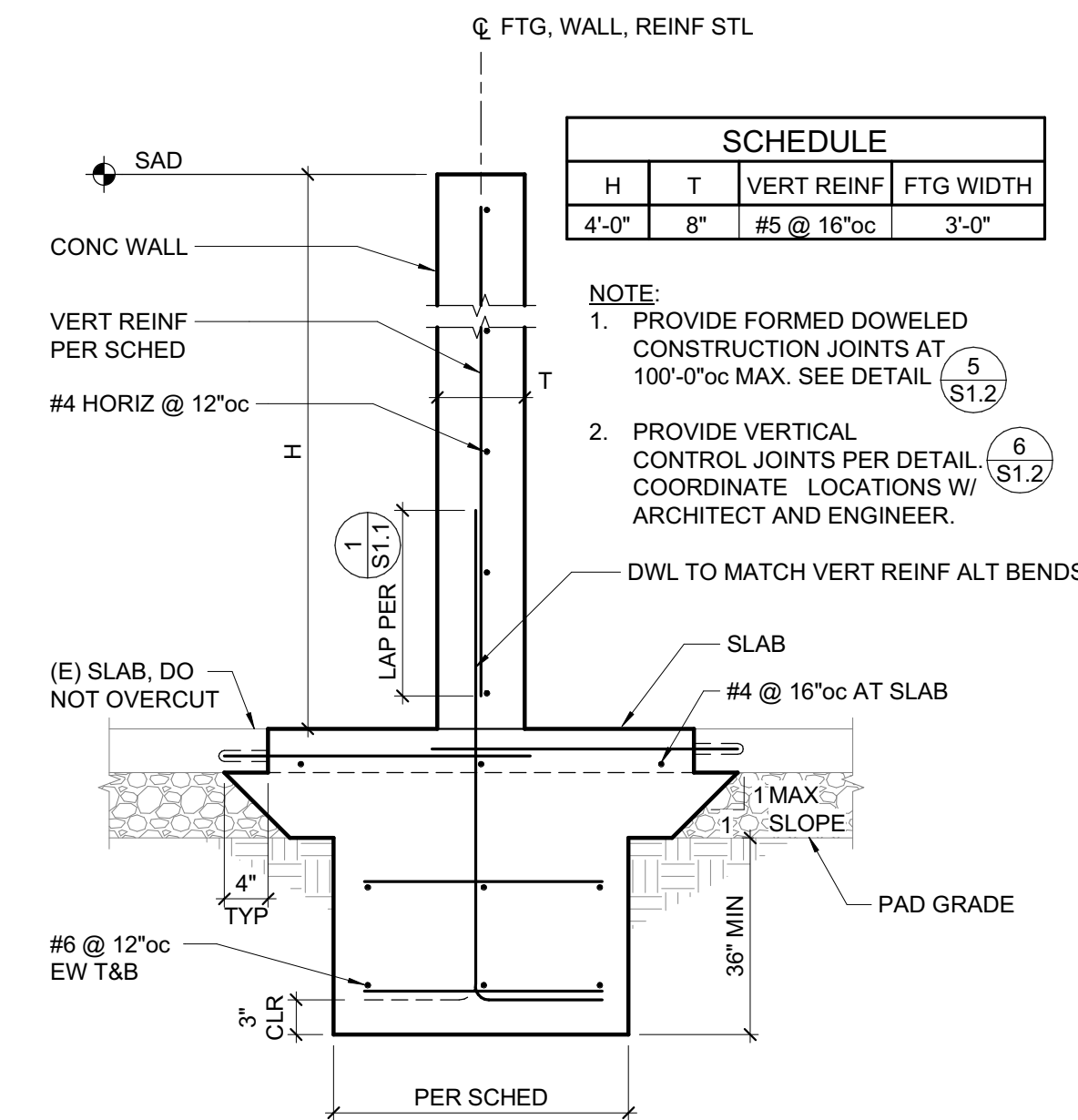
4 TYPICAL CONCRETE KEY
3/4" = 1'-0"



5 CONSTRUCTION JOINT
3/4" = 1'-0"

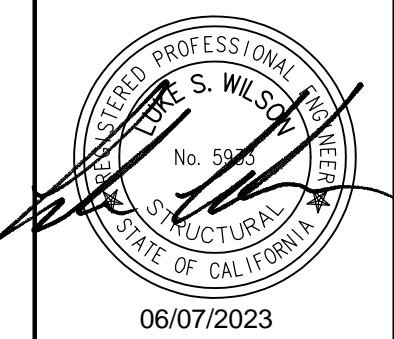
- NOTE:**
- CONSTRUCTION JOINTS SHALL BE AT LOCATIONS APPROVED BY THE ENGINEER OR AS SHOWN ON OTHER DETAILS.
 - VERTICAL REINFORCING NOT SHOWN FOR CLARITY.

1 CONCRETE SITE WALL
3/4" = 1'-0"



H	A	B	T	t	d	a	b
1'-0"	0'-6"	1'-6"	3'-0"	12"	9"	#4 @ 16"oc	#4 @ 10"oc
2'-0"	1'-3"	1'-6"	3'-0"	12"	9"	#4 @ 16"oc	#4 @ 10"oc
3'-0"	2'-0"	1'-6"	3'-0"	12"	9"	#4 @ 16"oc	#4 @ 10"oc
4'-0"	2'-6"	2'-0"	3'-0"	12"	9"	#4 @ 16"oc	#4 @ 10"oc
5'-0"	3'-0"	2'-0"	3'-0"	12"	9"	#4 @ 16"oc	#4 @ 10"oc
6'-0"	4'-0"	2'-0"	3'-0"	12"	9"	#4 @ 16"oc	#4 @ 10"oc

2 SITE RETAINING WALL
3/4" = 1'-0"



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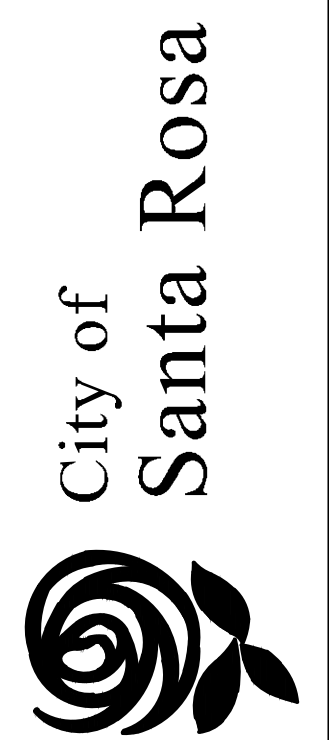
NO.	DATE	REVISION	BY

DWN BY: DP
CHK BY: LSW
DATE: 04/03/2023
SCALE: As indicated

**FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT**

S1.2 - SITE DETAILS

CONTRACT NO.
C02336
36 OF 68
FILE NO. 2022-014



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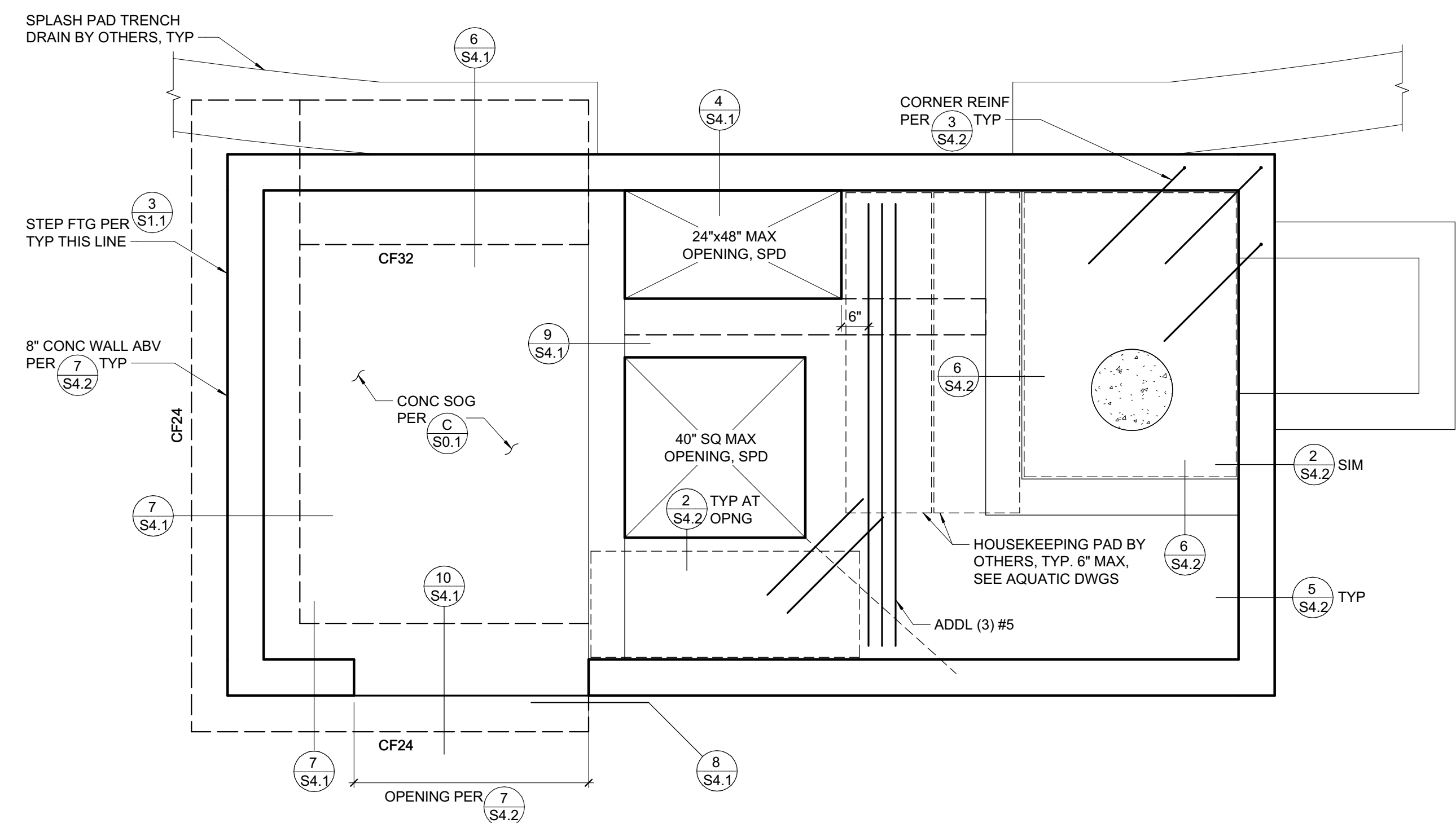
FINLEY AQUATIC CENTER
 SPRAY GROUND AND RENOVATION PROJECT

S2.1 - MECHANICAL BLDG

CONTRACT NO.
C02336

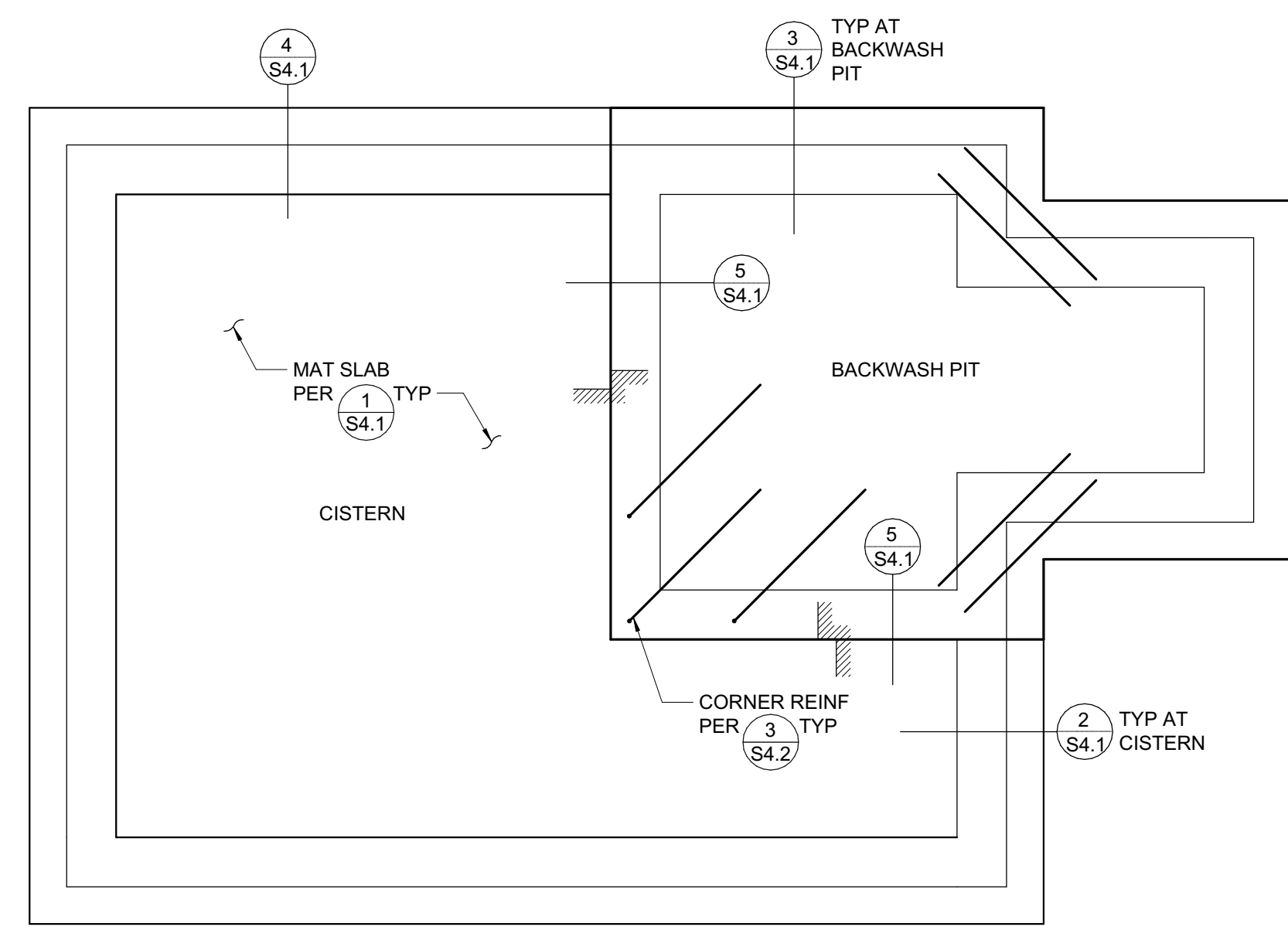
37 OF 68

FILE NO. 2022-014



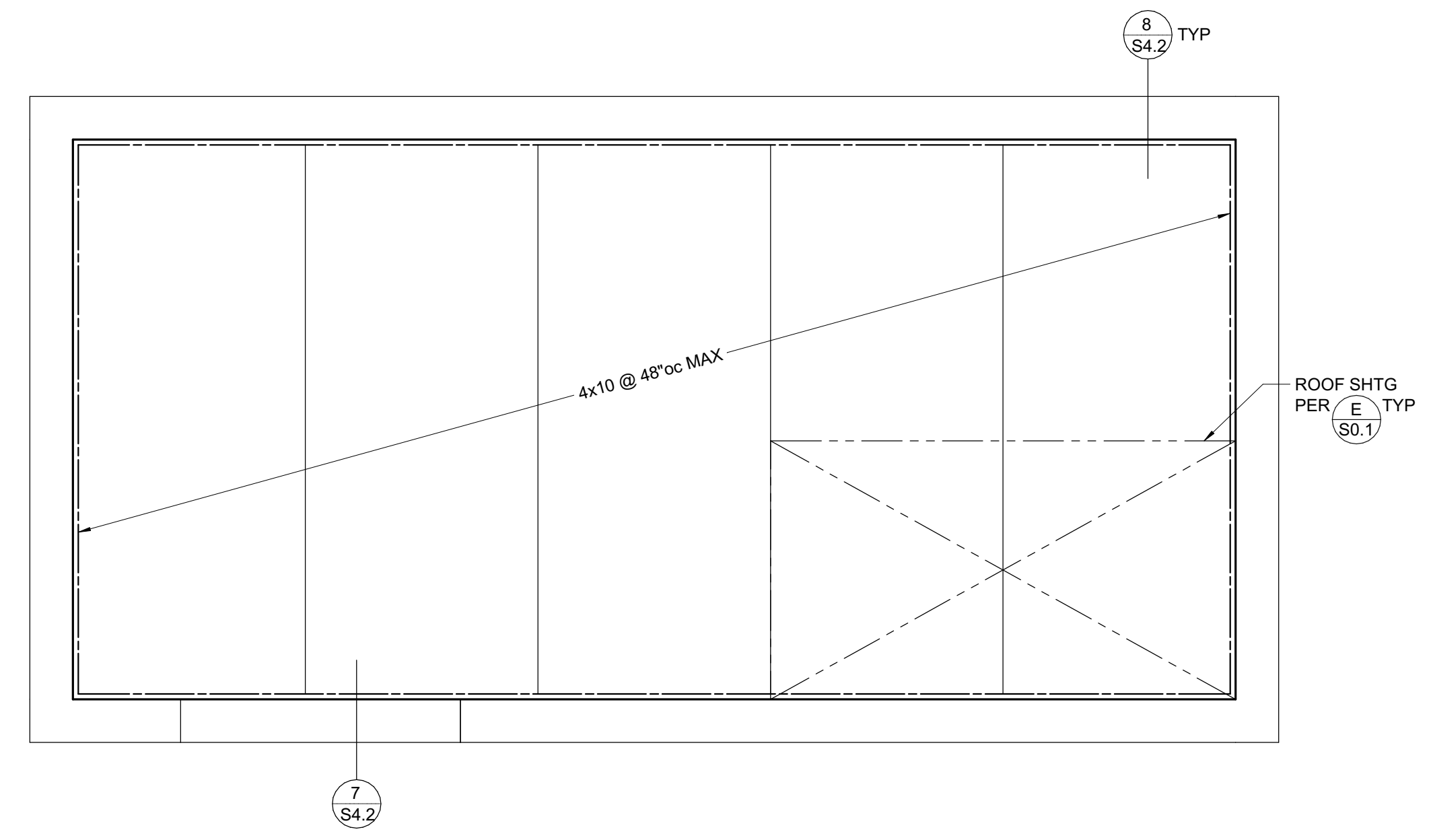
MAIN LEVEL

1/2" = 1'-0"



LOWER LEVEL

1/2" = 1'-0"



ROOF FRAMING

1/2" = 1'-0"

FOUNDATION PLAN NOTES:

- REFER TO SHEETS S0.1, S1.1, AND S1.2 FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAILS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.
 - COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
 - SEE DETAILS OR CURB PLAN FOR CURB LOCATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
 - PLUMBING AND ELECTRICAL CONDUIT AND GROUND STRAP SHALL NOT BE LAID WITHIN FOUNDATIONS. NO UTILITY PIPES OR CONDUITS SHALL BE LOCATED THRU COLUMN FOOTINGS OR FRAME FOOTINGS. NO VERTICAL OR HORIZONTAL PIPES OR CONDUITS SHALL BE LOCATED THROUGH STEEL FRAMES, STEEL COLUMNS, OR STEEL BASE PLATES. PROVIDE FURRING AND/OR THICKENED CONCRETE WHERE REQUIRED TO CLEAR UTILITY SYSTEMS. NOTIFY STRUCTURAL ENGINEER/ARCHITECT PRIOR TO ANY INSTALLATION NOT CONFORMING TO THESE DETAILS.
- PIPES THROUGH FOOTINGS SHALL BE PER 4/S1.1 AND 2/S1.1.
- PIPES PARALLEL TO FOOTINGS SHALL BE PER 7/S1.1.
- PIPES AT SLAB ON GRADE SHALL BE PER 6/S1.1.

PLAN LEGEND		
SYMBOL	REFERENCE DETAIL	DESCRIPTION
		INDICATES CONCRETE WALL.
		INDICATES FOUNDATION.
CF24		INDICATES CONTINUOUS FOOTING SIZE AND REINFORCING PER SCHEDULE.
	1/S4.2	INDICATES ELEVATED CONCRETE SLAB

CONTINUOUS FOOTING SCHEDULE				
MARK	'b'	'd'	REINF 'a'	NOTES
CF24	24"	36"	(3) #6 T&B	PROVIDE #3 TIES @ 32"oc
CF32	32"	12"	(4) #4 T&B	PROVIDE #3 TIES @ 32"oc

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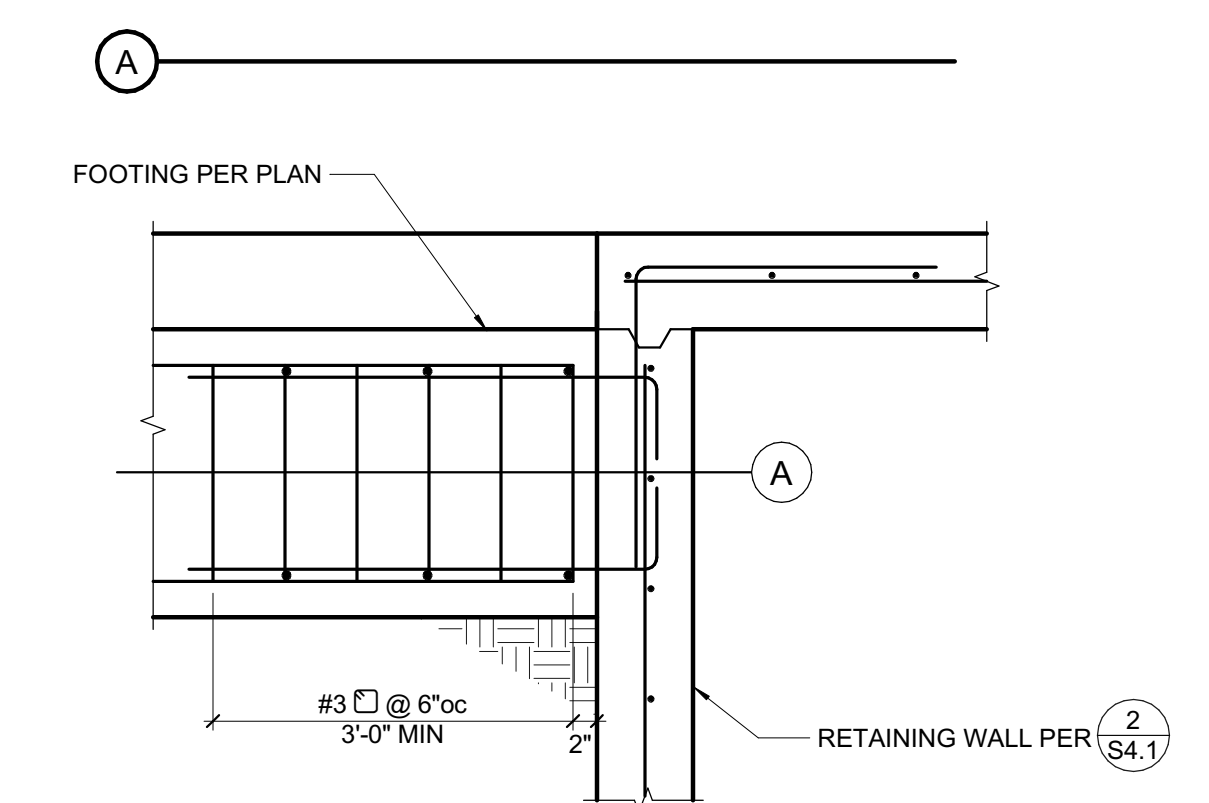
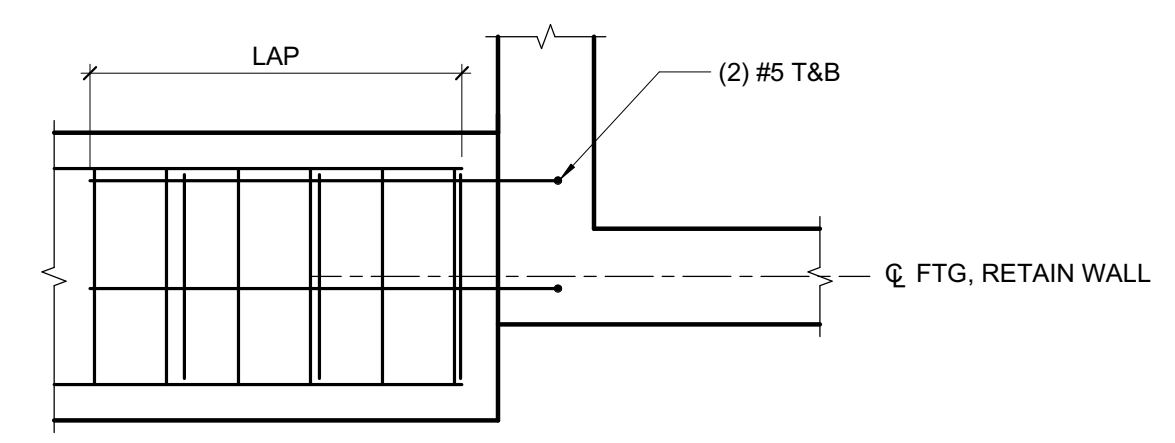


NO.	DATE	REVISION	BY

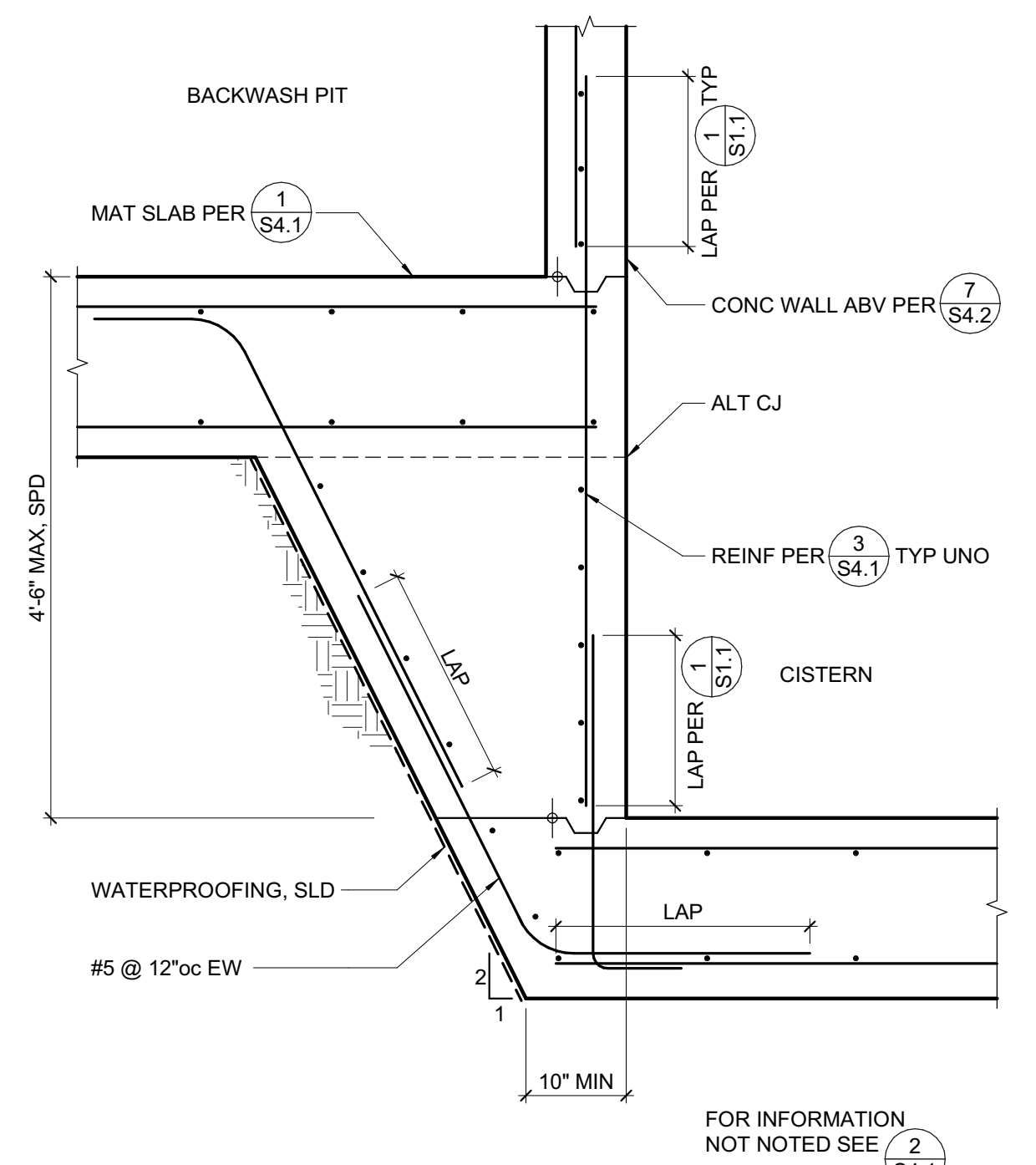
DWN BY: DP	CHK BY: LSW	DATE: 04/03/2023	SCALE: As indicated
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**FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT**

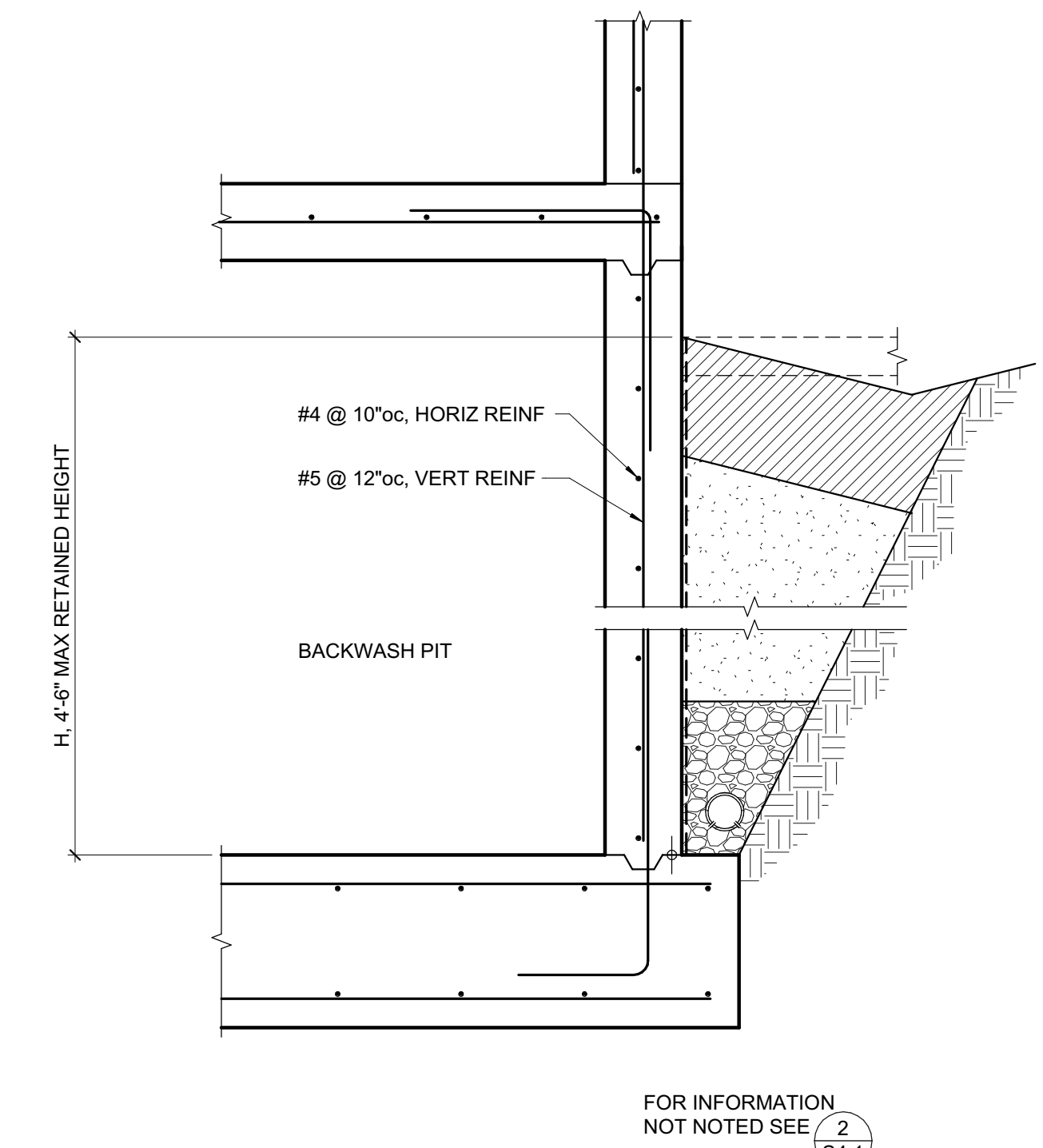
S4.1 - FOUNDATION DETAILS



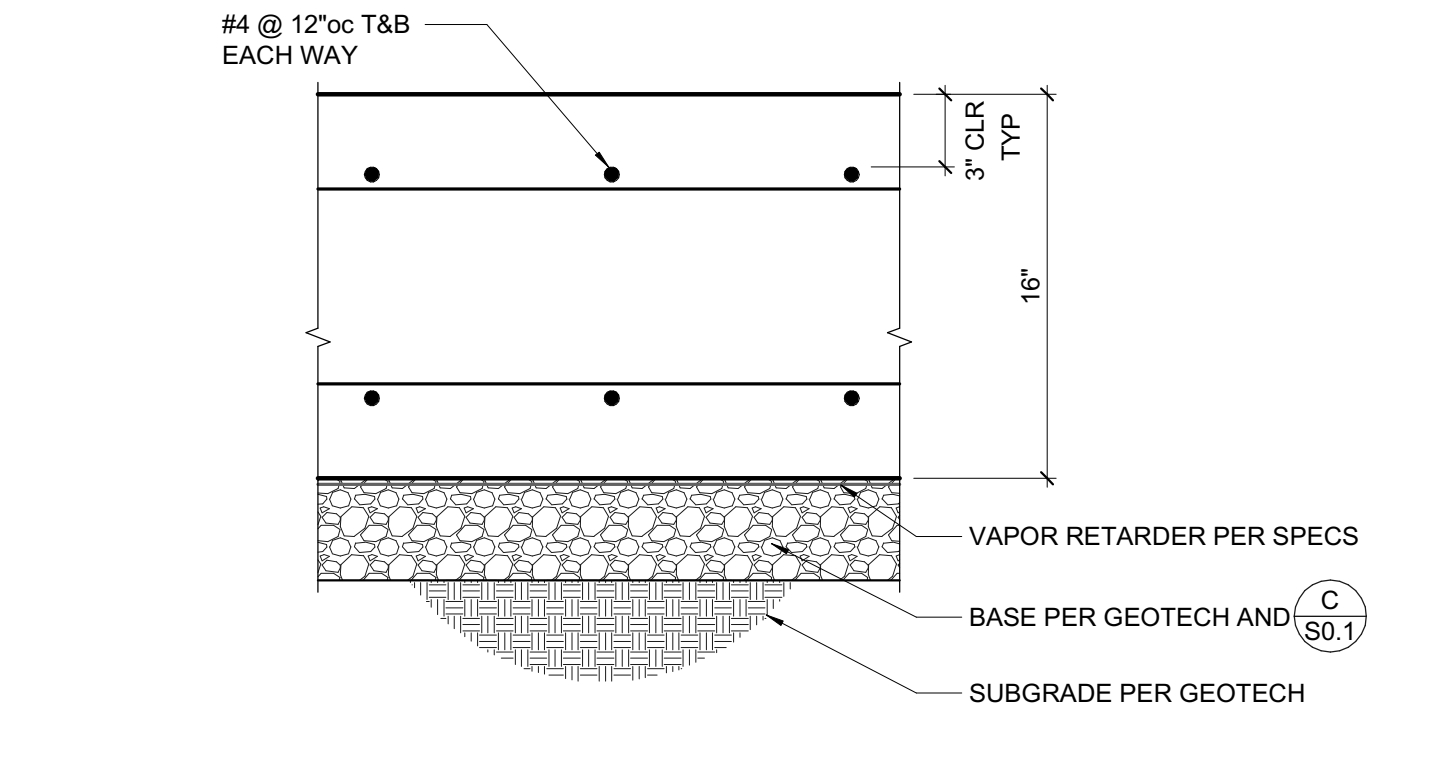
8 CONTINUOUS FOOTING TO RETAINING WALL
3/4" = 1'-0"



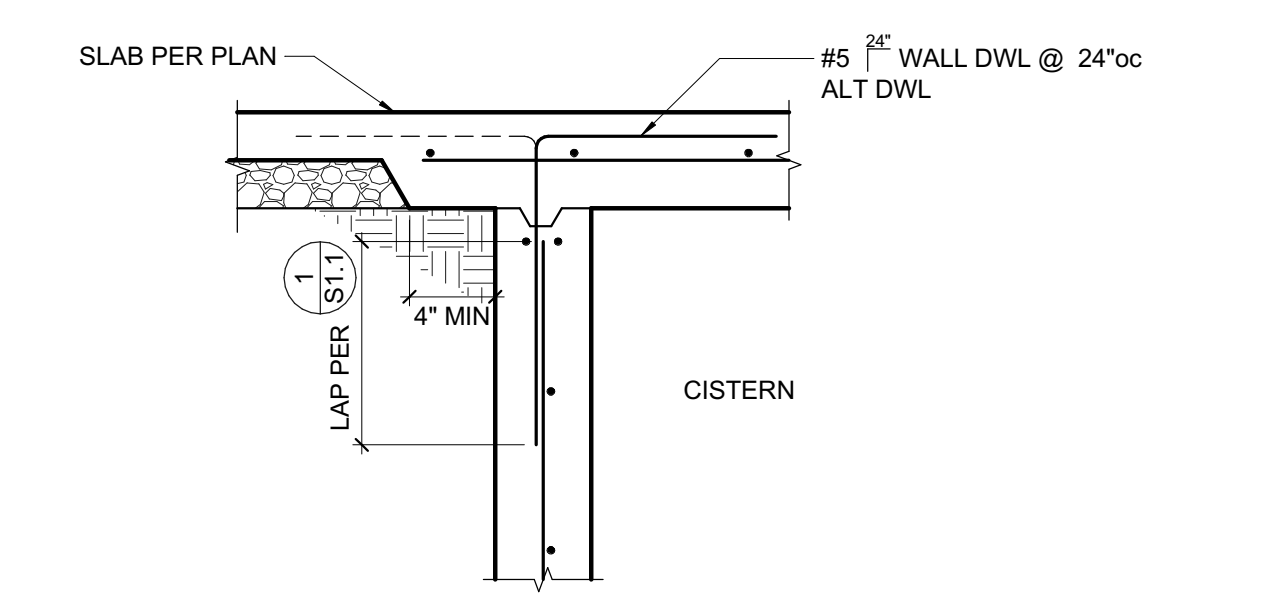
5 RETAINING WALL AT STEP
3/4" = 1'-0"



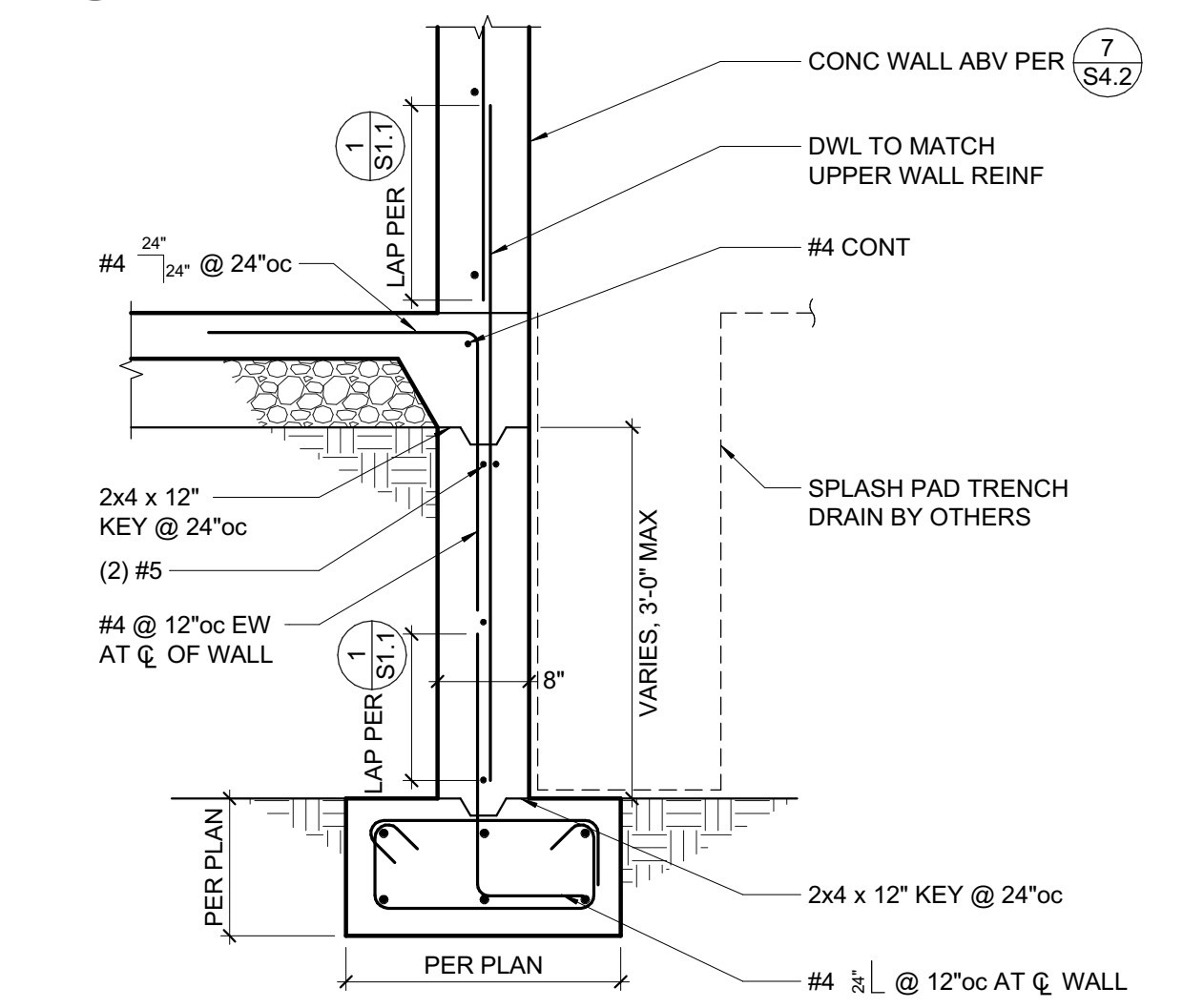
3 RETAINING WALL
3/4" = 1'-0"



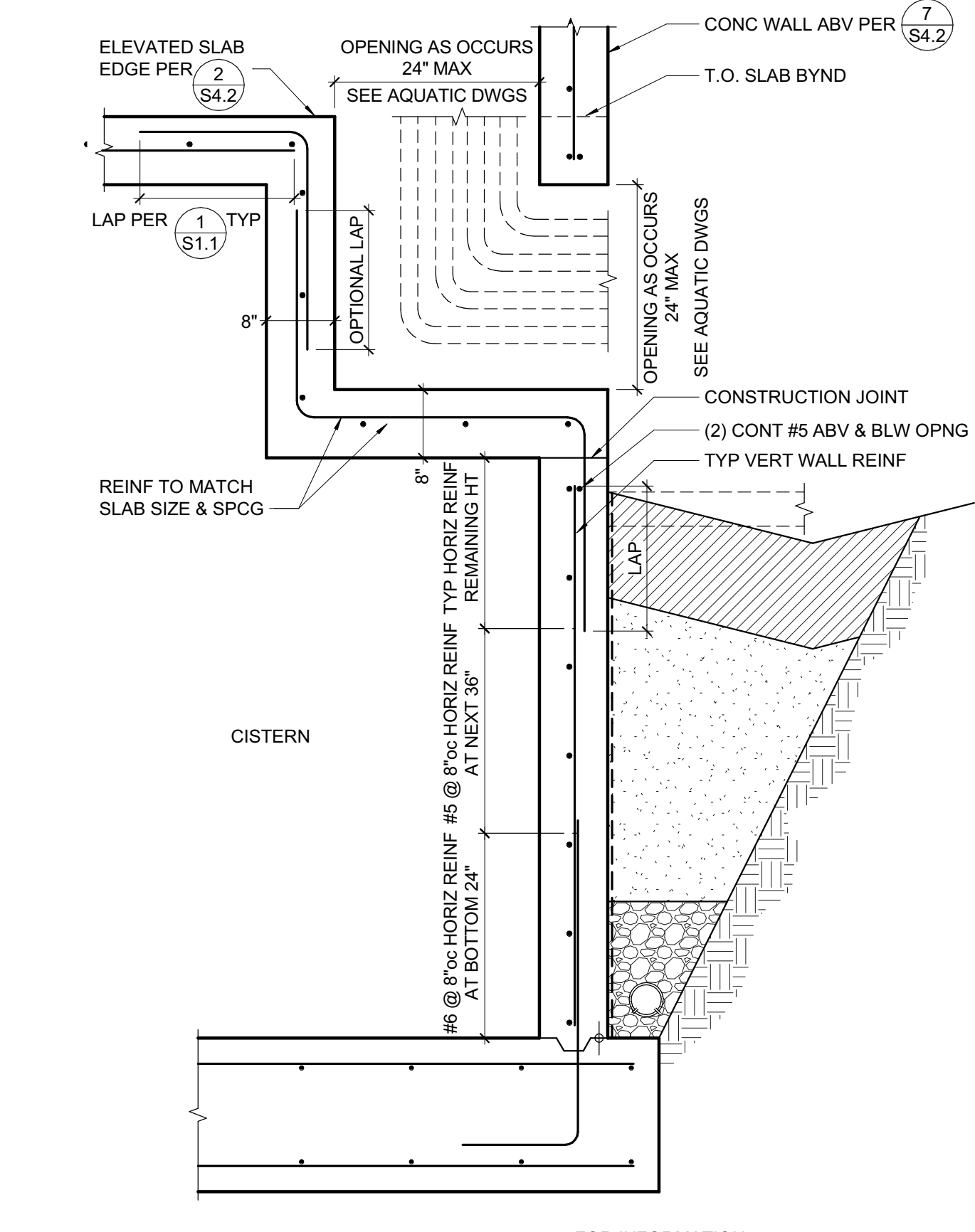
1 MAT SLAB TYPICAL SECTION
1 1/2" = 1'-0"



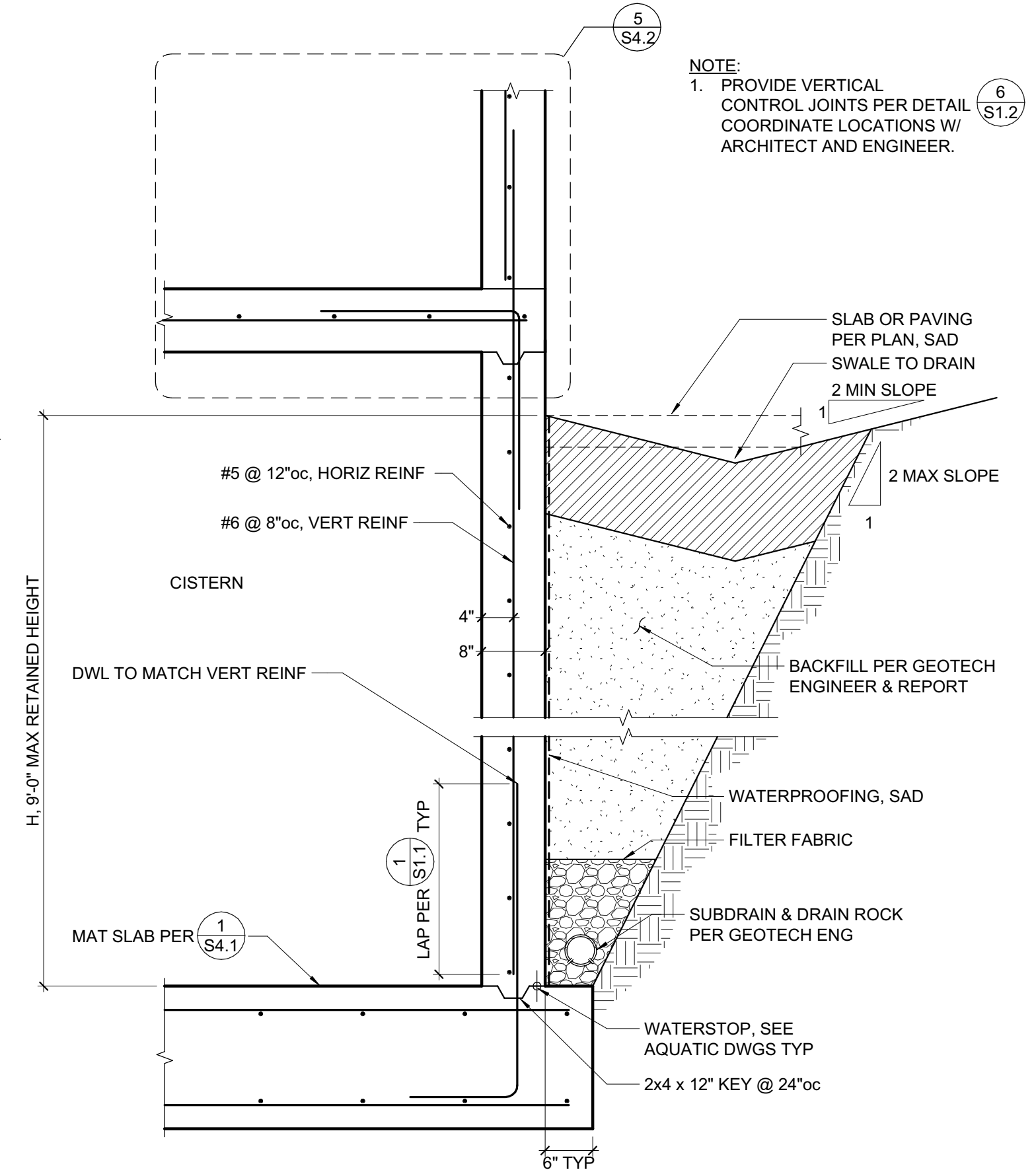
9 ELEVATED SLAB TO SLAB ON GRADE
3/4" = 1'-0"



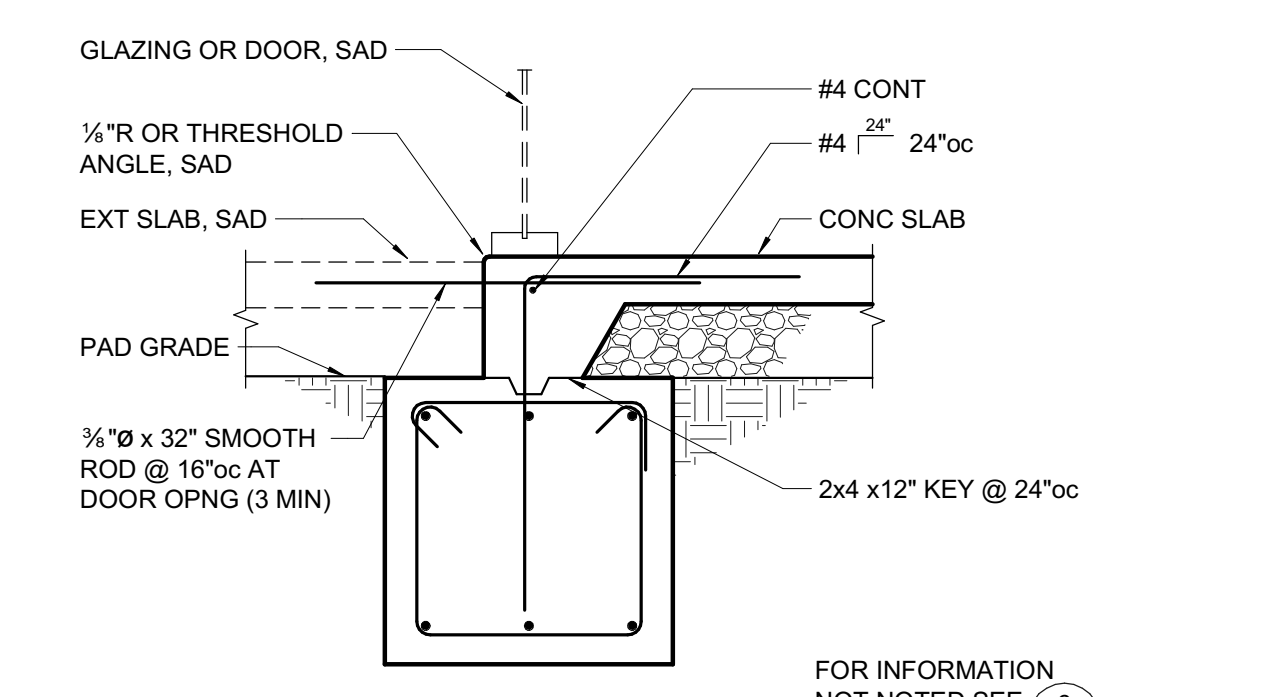
6 SLAB ON GRADE AT SPLASH PAD
3/4" = 1'-0"



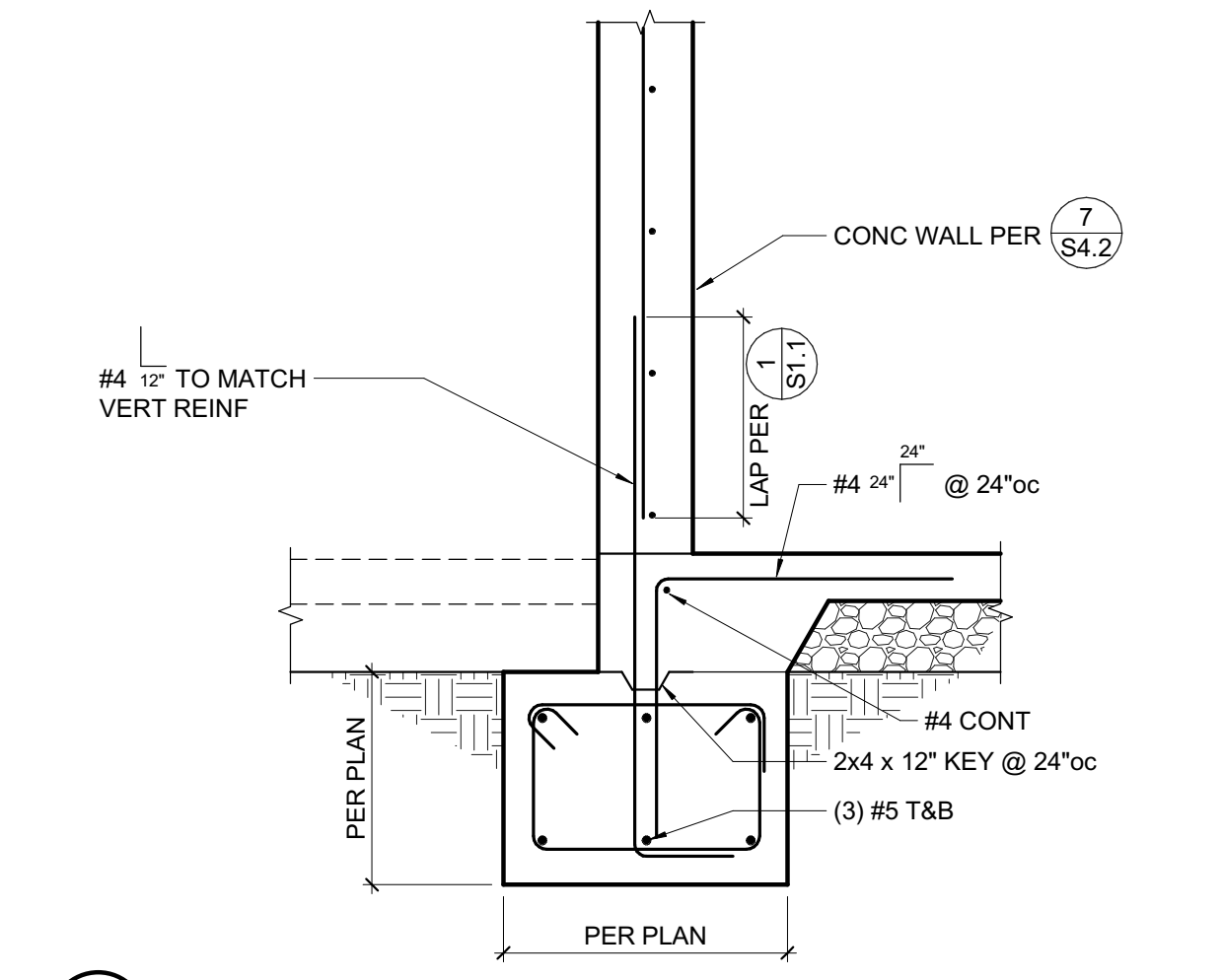
4 OPENING AT RETAINING WALL
3/4" = 1'-0"



2 RETAINING WALL
3/4" = 1'-0"



10 FOOTING AT GLAZING OR DOOR
3/4" = 1'-0"



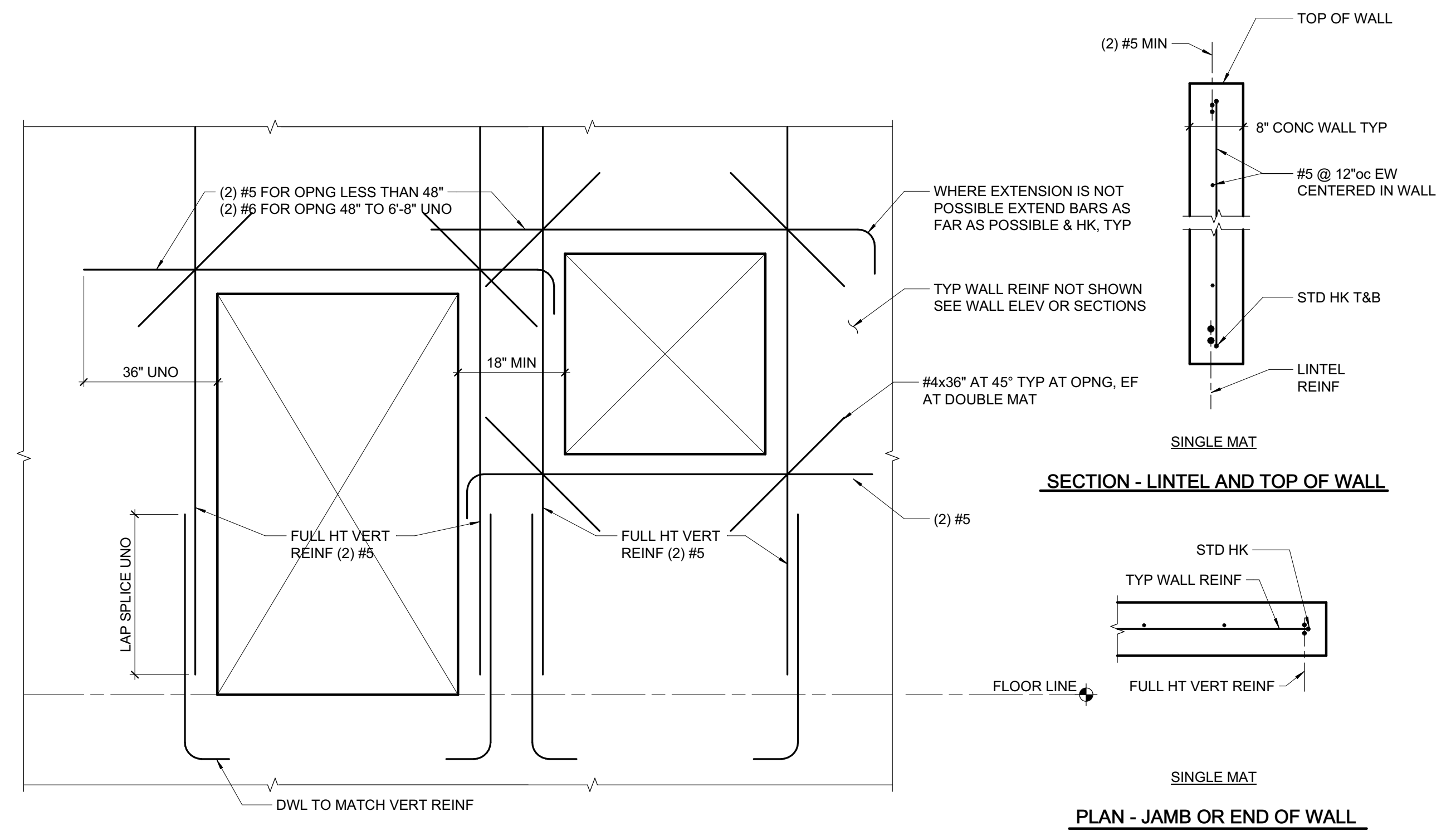
7 FOOTING AT CONCRETE WALL
3/4" = 1'-0"

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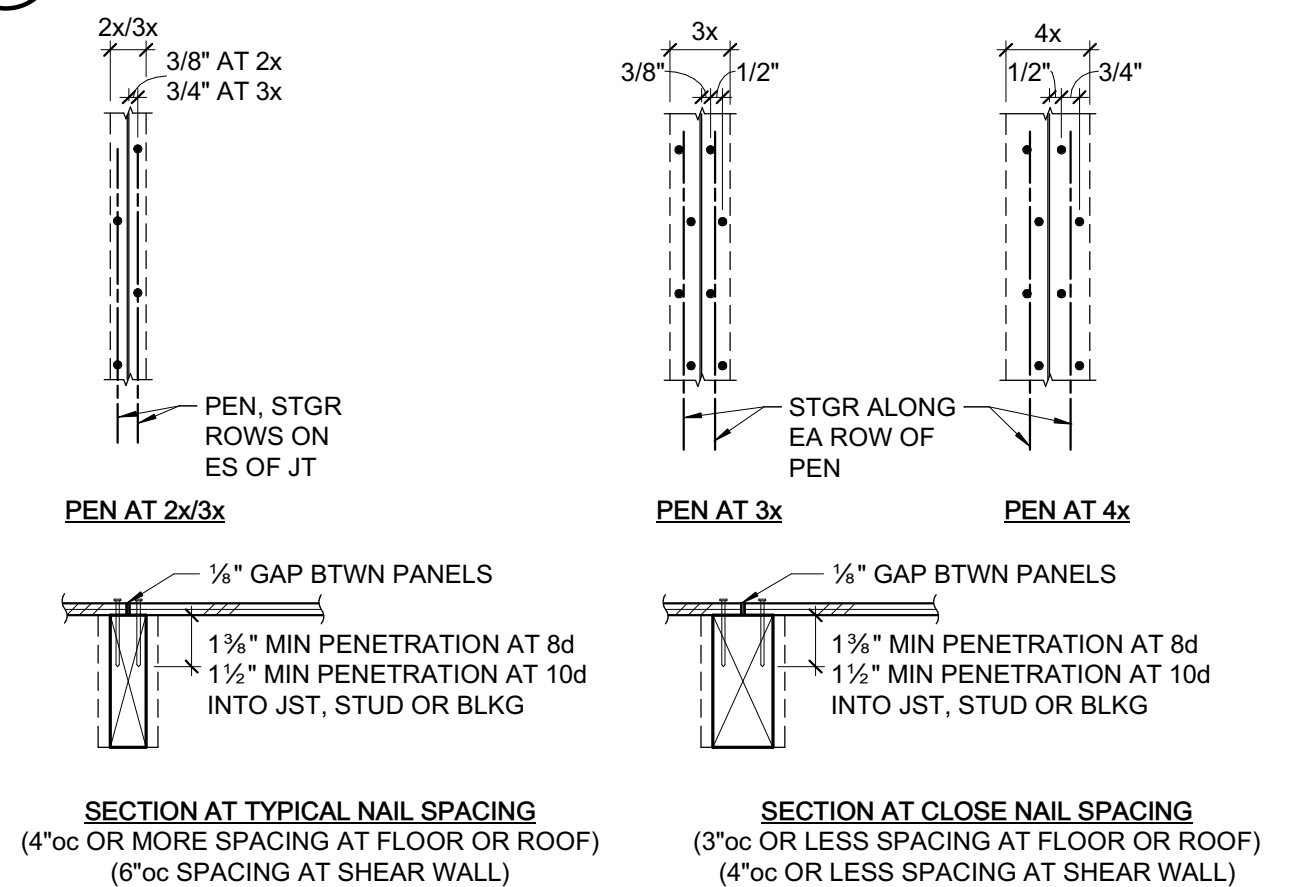


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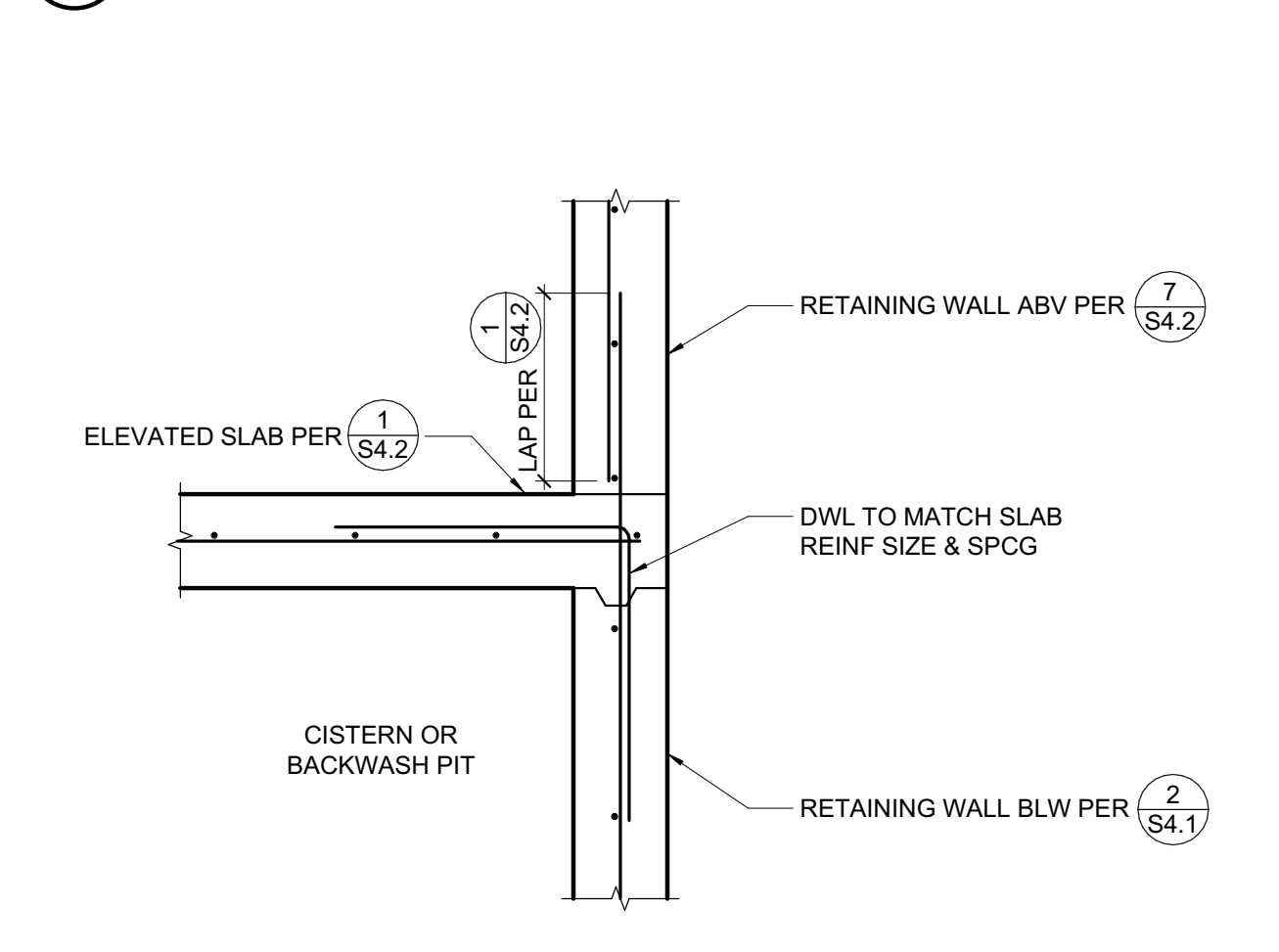


7 TYPICAL REINFORCING AT OPENINGS IN CONCRETE WALL
3/4" = 1'-0"

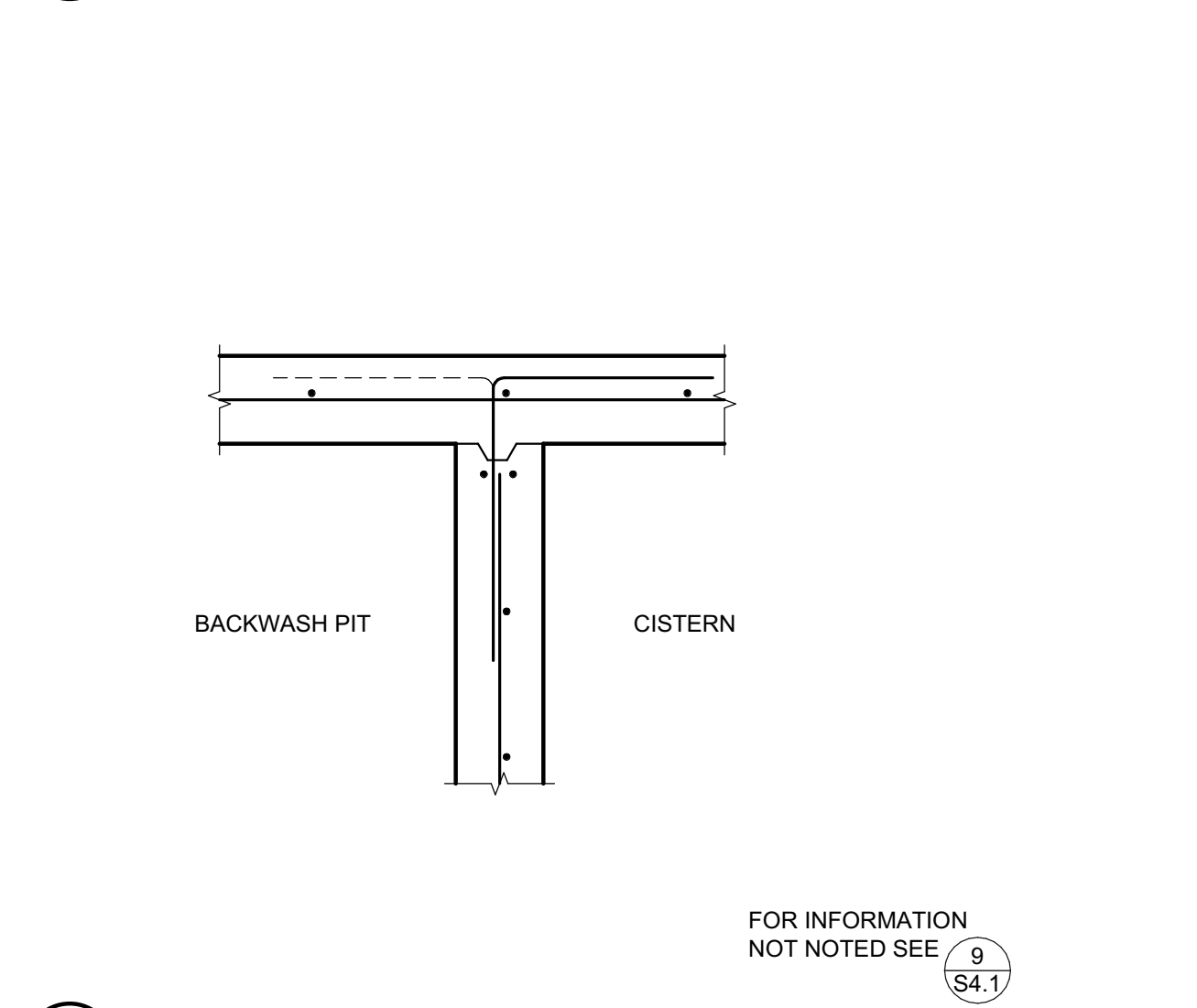


1 TYPICAL ELEVATED SLAB DETAIL
1" = 1'-0"

4 PIPE PENETRATIONS IN ELEVATED SLAB
3/4" = 1'-0"

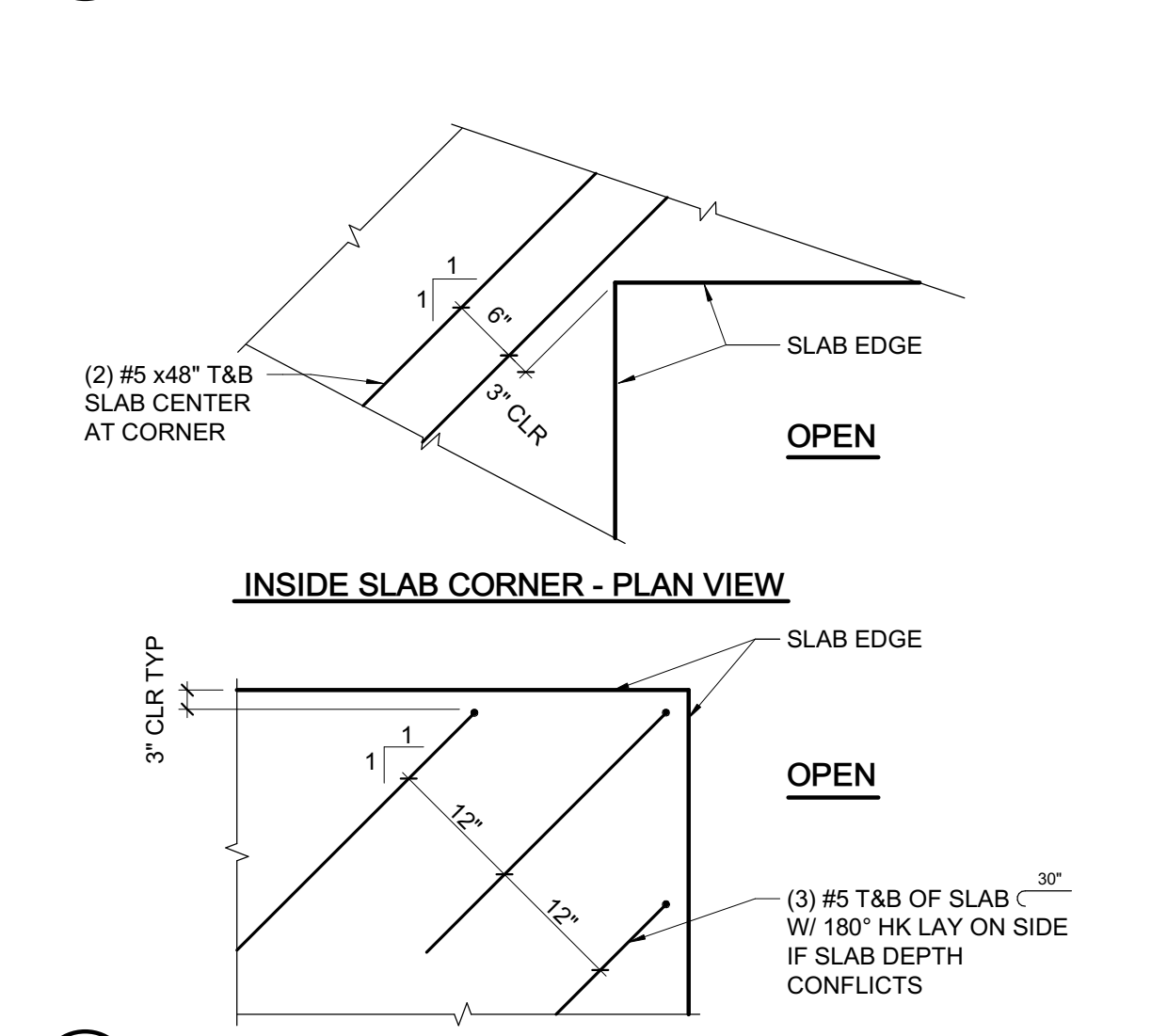


5 ELEVATED SLAB AT EXTERIOR
3/4" = 1'-0"

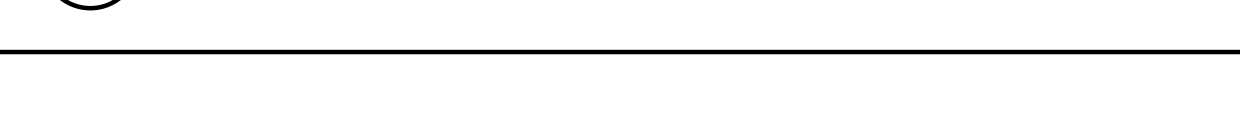


6 ELEVATED SLAB TO ELEVATED SLAB
3/4" = 1'-0"

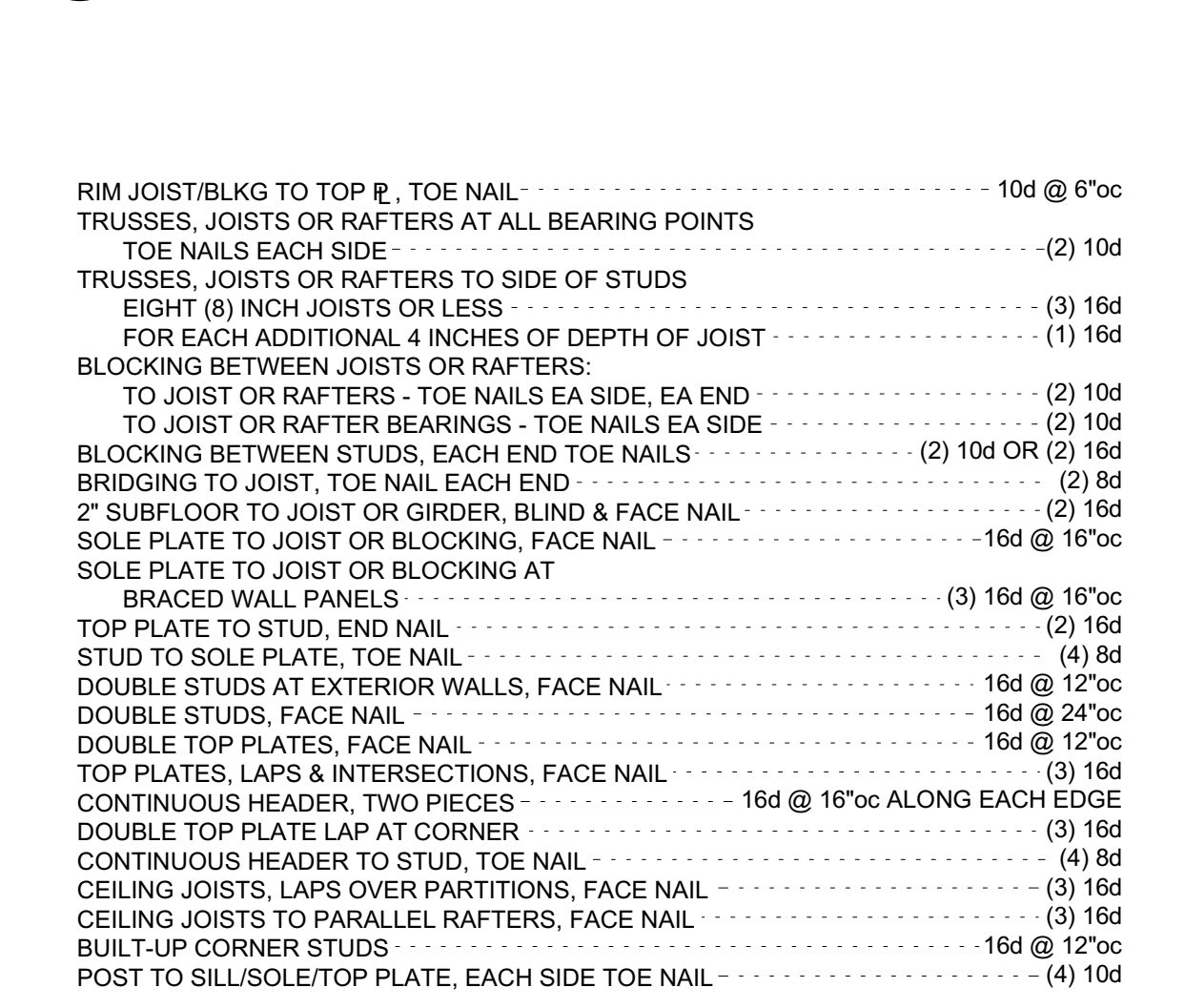
2 TYPICAL EDGE OF SLAB DETAIL
1" = 1'-0"



3 OUTSIDE & INSIDE SLAB CORNER - PLAN VIEW
3/4" = 1'-0"



8 TYPICAL PERP ROOF FRAMING AT CONW WALL
3/4" = 1'-0"



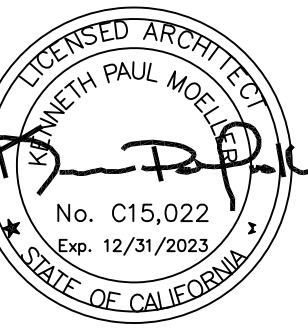
9 NAILING SCHEDULE
3/4" = 1'-0"

RIM JOIST/BLKG TO TOP R, TOE NAIL	10d @ 8"oc
TRUSSES, JOISTS OR RAFTERS AT ALL BEARING POINTS	TOE NAILS EACH SIDE (2) 10d
TRUSSES, JOISTS OR RAFTERS TO SIDE OF STUDS	EIGHT (8) INCH JOISTS OR LESS (3) 16d
FOR EACH ADDITIONAL 4 INCHES OF DEPTH OF JOIST	(1) 16d
BLOCKING BETWEEN JOISTS OR RAFTERS:	
TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END	(2) 10d
TO JOIST OR RAFTER BEARINGS - TOE NAILS EA SIDE	(2) 10d
BLOCKING BETWEEN STUDS, EACH END TOE NAILS	(2) 10d OR (2) 16d
BRIDGING TO JOIST, TOE NAIL EACH END	(2) 8d
2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	(2) 16d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 16"oc
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANELS	(3) 16d @ 16"oc
TOP PLATE TO STUD, END NAIL	(2) 16d
STUD TO SOLE PLATE, TOE NAIL	(4) 8d
DOUBLE STUDS AT EXTERIOR WALLS, FACE NAIL	16d @ 12"oc
DOUBLE STUDS, FACE NAIL	16d @ 24"oc
DOUBLE TOP PLATES, FACE NAIL	16d @ 12"oc
TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	(3) 16d
CONTINUOUS HEADER, TWO PIECES	16d @ 16"oc ALONG EACH EDGE
DOUBLE TOP PLATE LAP AT CORNER	(3) 16d
CONTINUOUS HEADER TO STUD, TOE NAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
BUILT-UP CORNER STUDS	16d @ 12"oc
POST TO SILL/SOLE/TOP PLATE, EACH SIDE TOE NAIL	(4) 10d

10 SHEATHING NAILING
1 1/2" = 1'-0"



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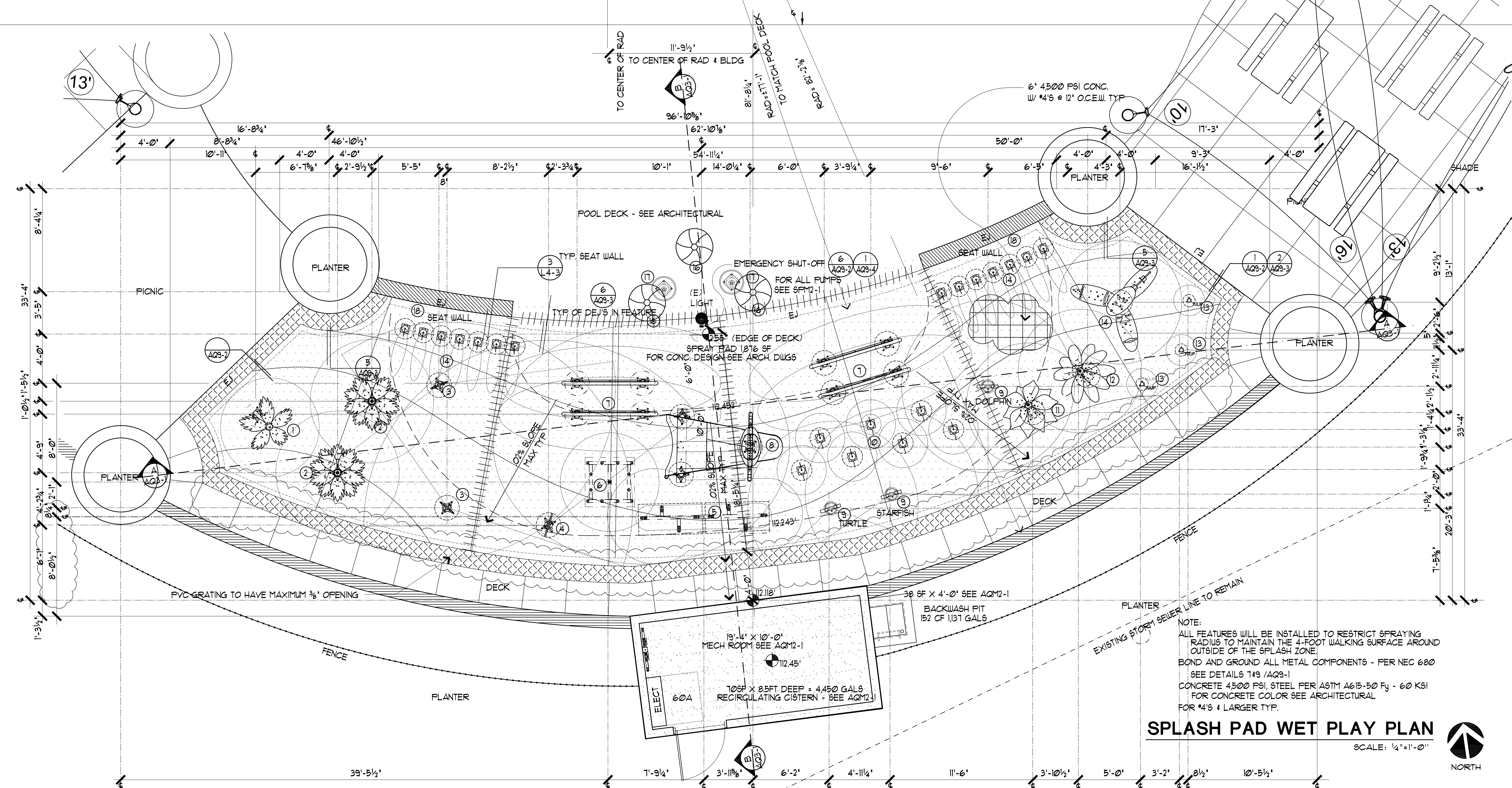
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707.734.1800



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FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT
AC02.1
WET PLAY PLAN

CONTRACT NO.
C02336
MODEL 40 OF 68
FILE NO. 2022-014



SPLASH PAD WET PLAY PLAN

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



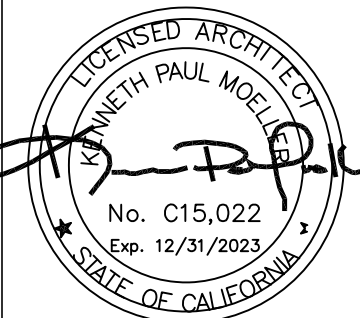
NOTE:
ALL FEATURES WILL BE INSTALLED TO RESTRICT SPRAYING RADIUS TO MAINTAIN THE 4-FOOT WALKING SURFACE AROUND OUTSIDE OF THE SPLASH ZONE!
BOND AND GROUND ALL METAL COMPONENTS - PER NEC 680
SEE DETAILS T49 /AQ9-1
CONCRETE 4500 PSI, STEEL PER ASTM A615-50 Fy - 60 KSI
FOR CONCRETE COLOR SEE ARCHITECTURAL
FOR #4'S & LARGER TYP.

SPRAY PAD WATER DATA TABLE

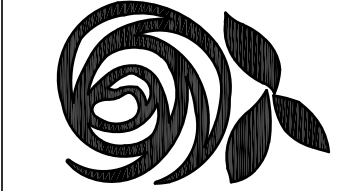
PERIMETER OF SPRAY PAD	209.5 LFT	
AREA OF SPRAY PAD	1876 SF	OCCUPANTS: (1/20) = 94
GUTTER VOLUME: (136 X 1 X 3.18) =	3,235 GAL	
GUTTER AREA	136 SF	
GUTTER DEPTH:	3.0 TO 3.33	SLOPES DOWN 4' TO CISTERN
VOLUME OF CISTERN:	4,450 GAL	
REQUIRED TURNOVER: (30MIN)	148 GPM	
WET PLAY FEATURE FLOW RATE	134 GPM	ADJUSTABLE SEE VALVED MANIFOLD 2/AQ9-1
TOTAL CISTERN & GUTTER VOLUME:	7,685 GAL	4,718 REQD (# STATIC LEVEL 268 GALS SURGE)
PROPOSED TURNOVER: (30 MIN)	157 GPM	GREATER THAN REQUIRED MINIMUM OF 148 GPM

SPLASH PAD WET PLAY FEATURES

①	FEATURE	QTY/SUPPLY	GPM/PSI	FLOW	②	FEATURE	QTY/SUPPLY	GPM/PSI	FLOW
1.	POLY PALM COCO (0010-3555)	1 ONE/SNEAKY SOAKER ARM 0010-0413 MUSHRM TOP/ 1/2"	8 GPM / 5 PSI	8 GPM	10.	POP IT (0010-1502)	7 SEVEN 1/2 NOZ 08001 6" POP IT	7 GPM / 15 PSI	7 GPM
2.	POLY PALM (0010-1680)	2 TWO 1/4" NOZ-08030 N2.5IN	5 GPM / 6 PSI	10 GPM	11.	TRILLY LILLY WINDY (0010-1670)	4 ONE 1/4" NOZ-08030 N2.5IN	5 GPM / 6 PSI	5 GPM
3.	SURF CANNON (0010-1451)	3 TWO 3/4" NOZ-08089 FAN	2 GPM / 10 PSI	4 GPM	12.	DAISY MAY WINDY (0010-1655)	5 ONE 1/4" NOZ-08030 N2.5IN	5 GPM / 6 PSI	5 GPM
4.	SURFBOARD (0010-0949)	4 ONE 3/4" NOZ-08089 FAN	4 GPM / 5 PSI	4 GPM	13.	TULIP (0010-1849)	1 THREE 1/2" NOZ-08030 2 1/2"	18 GPM / 1 PSI	18 GPM
5.	TEAM EFFECT (0010-3816)	5 ONE 1/4" NOZ-08001 2 1/2" - 8 HOLE, NOZ 08026	8 GPM / 1 PSI	8 GPM	14.	TILTY POP IT (0010-1503)	8 FOURTEEN 1/4" NOZ-08305, 6"	7 GPM / 15 PSI	14 GPM
6.	GROUP VOLCANO (0010-1495)	2 ONE 1/2" NOZ-08001 2 1/2" - 8 HOLE, NOZ 08026	10 GPM / 2 PSI	10 GPM	15.	-	-	-	-
7.	WATER - O (0010-0369)	7 FOUR 1/2" NOZ-NOZ 08002	20 GPM / 6 PSI	20 GPM	16.	BEACH BALL	2		
8.	SKY SOAKER (0010-4592) SIM	6 ONE 1/2" / OPEN FLOW	15 GPM / 8 PSI	15 GPM	17.	ACTIVATOR - QTY (2)	2		
9.	TURTLE (0010-8950) STARFISH (0010-8856) DOLPHIN (0010-8869)	1 THREE 1/4" NOZ 003-1616	2 GPM / 10 PSI	6 GPM	18.	SEAT WALL	3		
							TOTAL FEATURES:		134 GPM



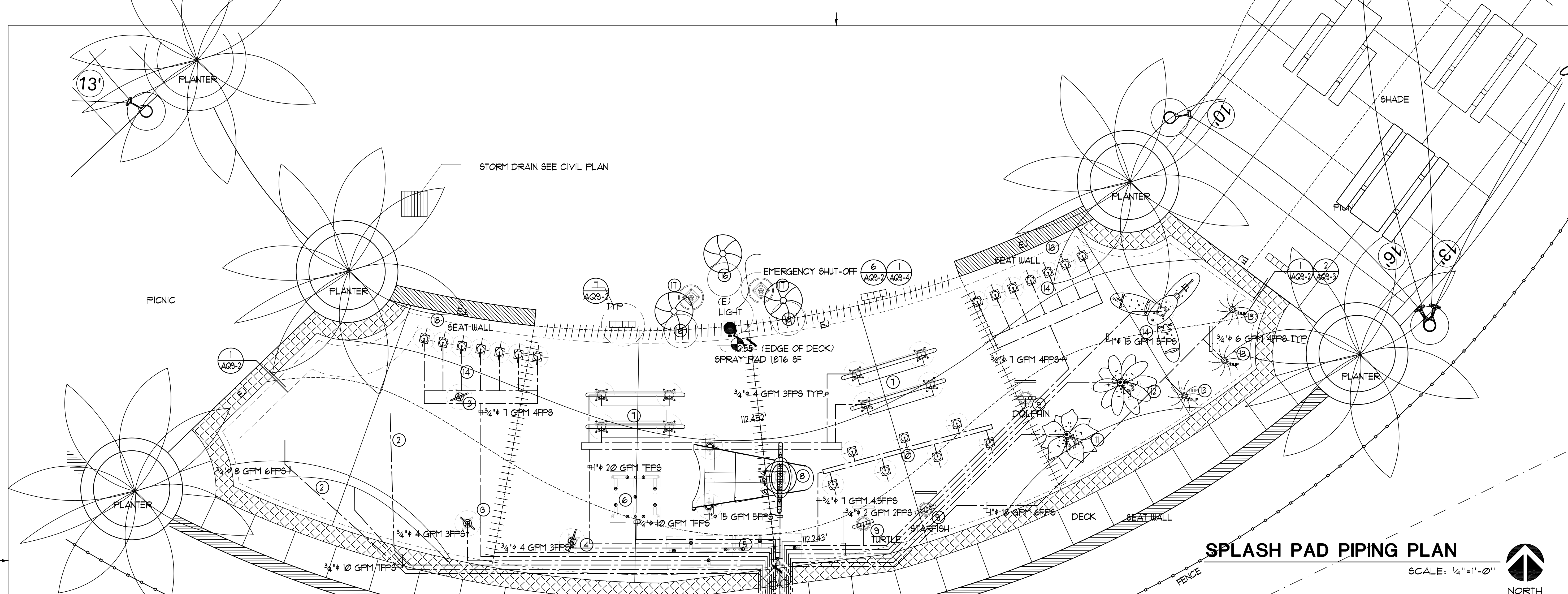
City of Santa Rosa



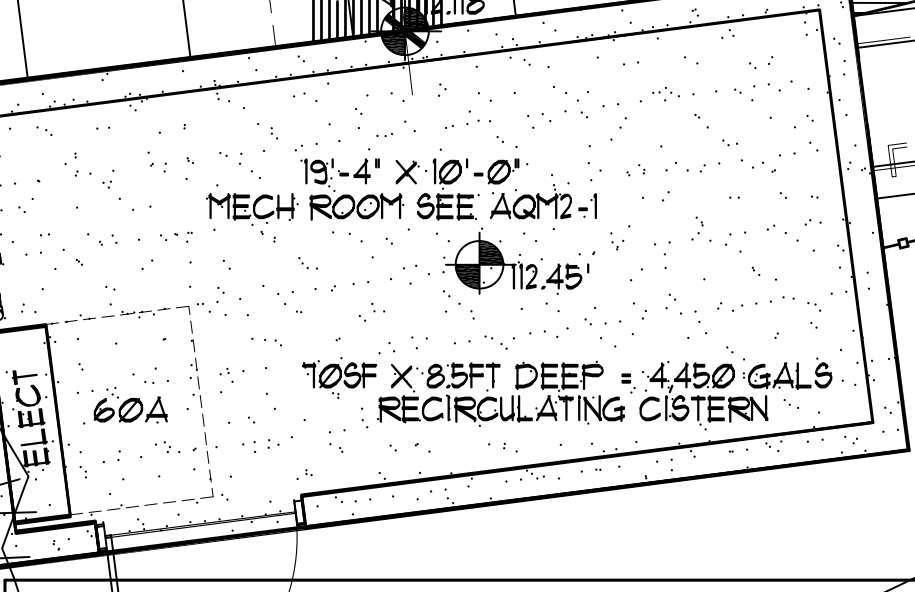
ARCH-PAK
PLUMBING
2011 Pioneer Airport Road, Suite 101
Caldwell, CA 95001
707.734.9800



NO.	DATE	REVISION	BY



SPLASH PAD PIPING PLAN
SCALE: 1/4"=1'-0"
NORTH



WATER DATA TABLE:

SPRAY PAD	REMARKS:
PERIMETER OF SPRAY PAD	209.5 LFT
AREA OF SPRAY PAD	1,876 SF
GUTTER VOLUME: (136 X 1 X 3.18)	3,235 SF
AREA	136 SF
GUTTER DEPTH:	3.0 TO 3.33 SLOPES DOWN 4' TO CISTERN
VOLUME:	4,450 GAL
REQUIRED TURNOVER: (30MIN)	148
WET PLAY FEATURE FLOW RATE	134 GPM
TOTAL CISTERN & SUMP VOLUME:	7,685 GAL
PROPOSED TURNOVER: (30 MIN)	151 GPM
FILTER SYSTEM	13 SF

①	FEATURE	QTY/SUPPLY	GPM/PSI	FLOW
1.	POLY PALM COCO (0010-3555)	ONE/SNEAKY SOAKER ARM 0010-0413 MUSHRM TOP/ 1/2"	8 GPM / 5 PSI	8 GPM
2.	POLY PALM (0010-1680)	TWO 1/1' NOZ-08030 N2.5IN	5 GPM / 6 PSI	10 GPM
3.	SURF CANNON (0010-1451)	TWO 3/4' NOZ-08089 FAN	2 GPM / 10 PSI	4 GPM
4.	SURFBOARD (0010-0949)	ONE 3/4' NOZ-08089 FAN	4 GPM / 5 PSI	4 GPM
5.	TEAM EFFECT (0010-9816)	ONE 1/1' NOZ-08001 2 1/2" - 8 HOLE, NOZ 08026	8 GPM / 1 PSI	8 GPM
6.	GROUP VOLCANO (0010-1495)	ONE 1/1/2' NOZ-08001 2 1/2" - 8 HOLE, NOZ 08026	10 GPM / 2 PSI	10 GPM
7.	WATER - O (0010-0369)	FOUR 1/1/2' NOZ-NOZ 08002	20 GPM / 6 PSI	20 GPM
8.	WATERFALL 3 (0010-4592)	ONE 1/1/2' OPEN FLOW	15 GPM / 8 PSI	15 GPM
9.	TURTLE (0010-8950) STARFISH (0010-8856) DOLPHIN (0010-8869)	THREE 1/1' NOZ 0803-1616	2 GPM / 10 PSI	6 GPM
10.	POP IT (0010-1502)	SEVEN 1/1' NOZ 08001 6" POPIT	1 GPM / 15 PSI	7 GPM
11.	TRILLY LILLY WINDY (0010-1610)	ONE 1/1' NOZ-08030 N2.5IN	5 GPM / 6 PSI	5 GPM
12.	DAISY MAY WINDY (0010-1655)	ONE 1/1' NOZ-08030 N2.5IN	5 GPM / 6 PSI	5 GPM
13.	TULIP (0010-1849)	THREE 1/1/2' NOZ-08030 2 1/2"	18 GPM / 1 PSI	18 GPM
14.	TILTY POP IT (0010-1503)	FOURTEEN 1/1' NOZ-08030 6"	1 GPM / 15 PSI	14 GPM
15.	-	-	-	-
16.	BEACH BALL	-	-	-
TOTAL FEATURE DEMAND:			-	134 GPM

NOTE:
ALL HORIZONTAL WET PLAY SUPPLY PIPING IS UNDER WET PLAY SLAB. PIPING TO BE SCHEDULE 40 BELOW GRADE & SCHEDULE 80 ABOVE GRADE.

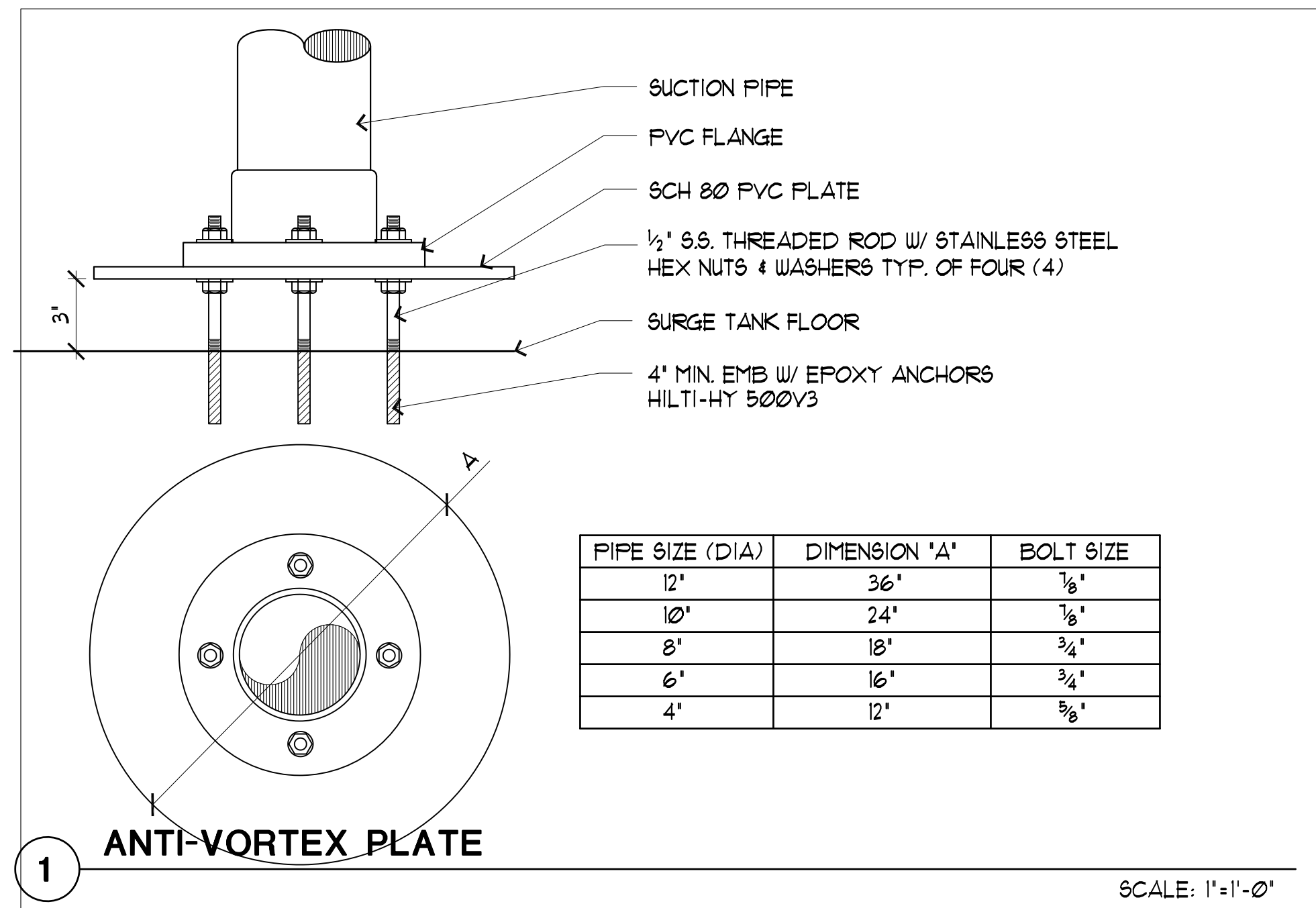
ALL FEATURES WILL BE INSTALLED TO RESTRICT SPRAYING RADIUS TO MAINTAIN THE 4-FOOT WALKING SURFACE AROUND OUTSIDE OF THE SPLASH ZONE.

FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT

AC03.1
WET PLAY PIPING PLAN

DWN BY: KM
CHK BY: --
DATE: 6/9/2023
SCALE: 1/4" = 1'-0"

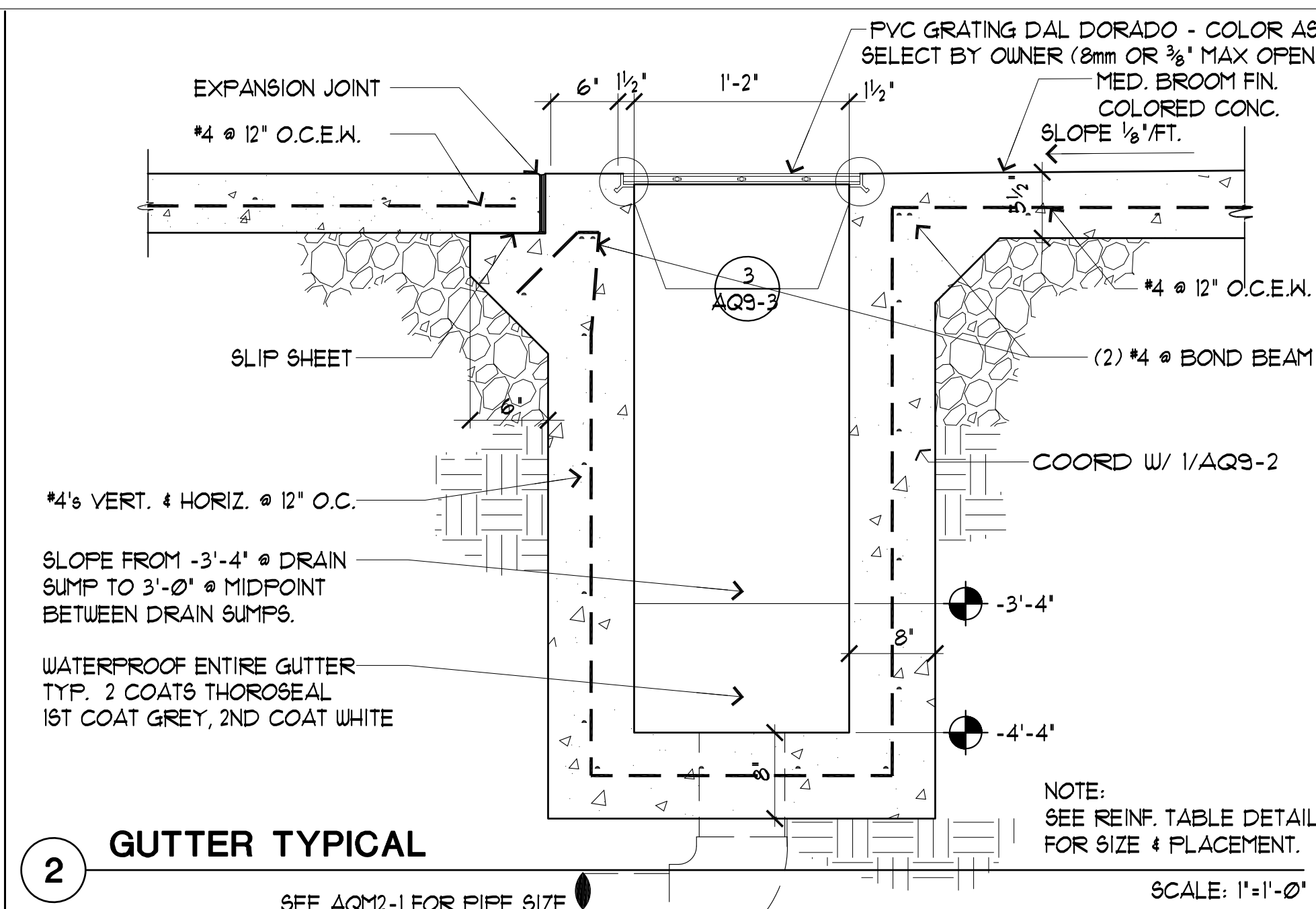
CONTRACT NO.
C02336
MODEL 41 OF 68
FILE NO. 2022-014



PIPE SIZE (DIA)	DIMENSION 'A'	BOLT SIZE
12"	36"	1/2"
10"	24"	1/8"
8"	18"	3/4"
6"	16"	3/4"
4"	12"	5/8"

1 ANTI-VORTEX PLATE

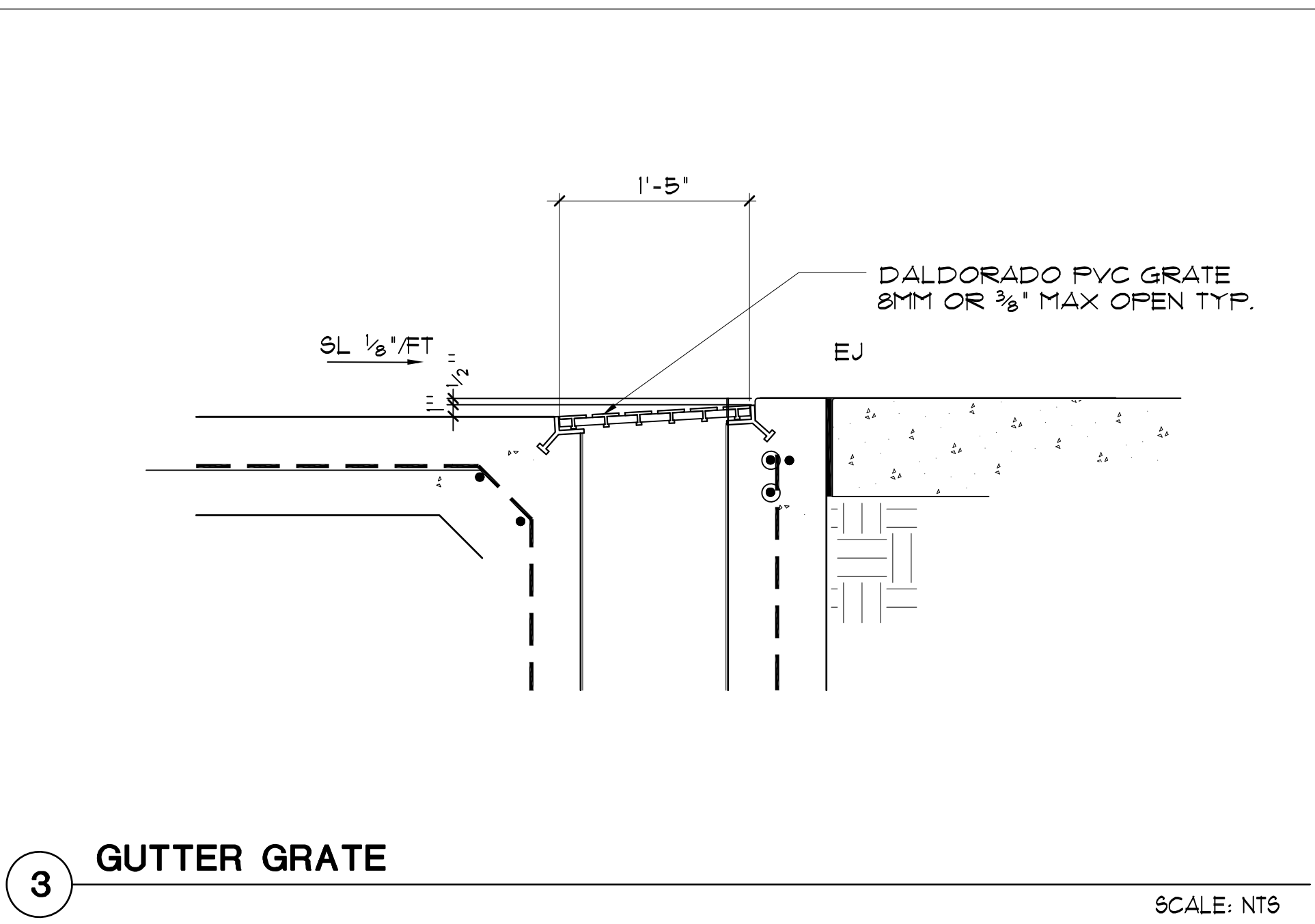
SCALE: 1"=1'-0"



2 GUTTER TYPICAL

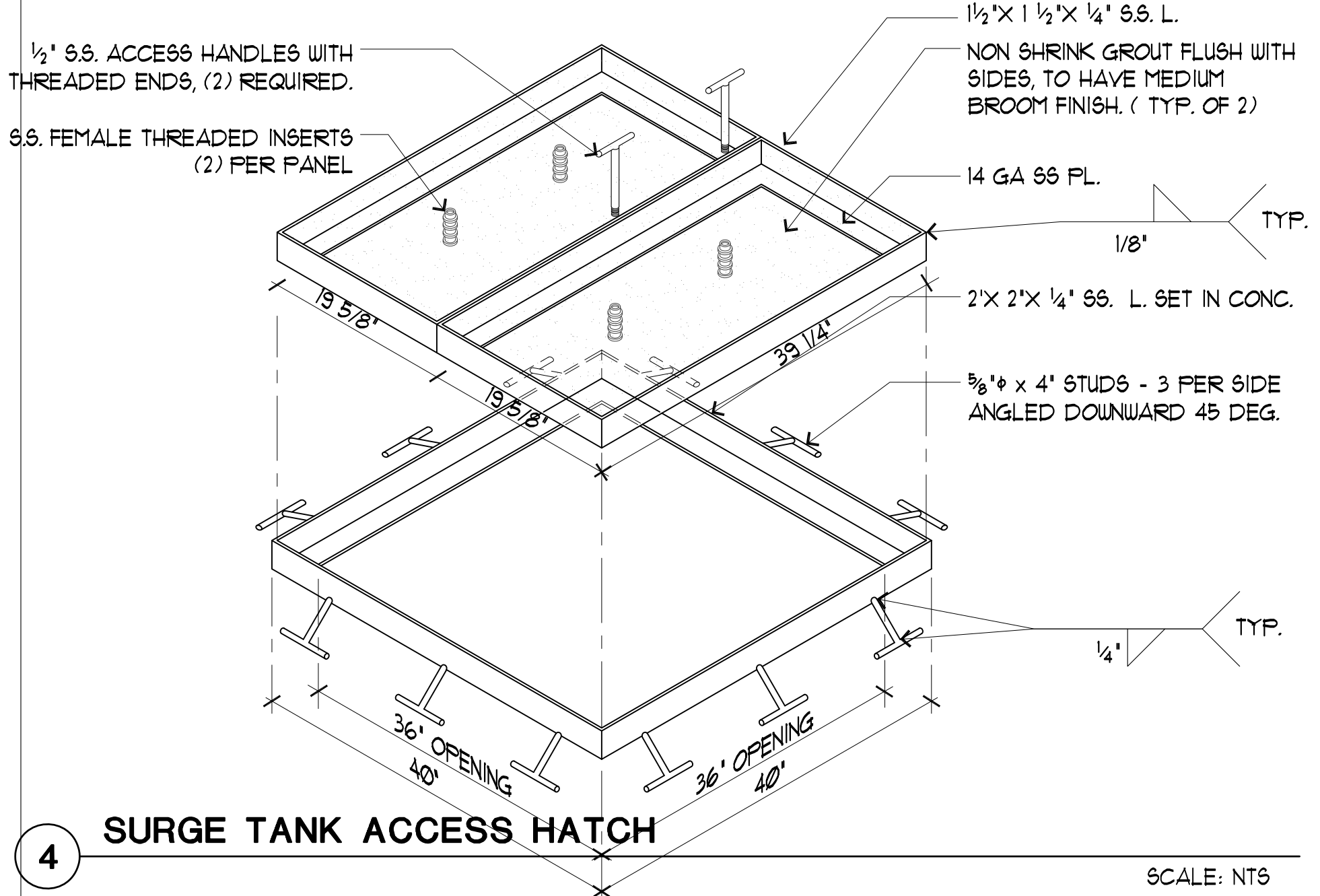
SEE AQM2-1 FOR PIPE SIZE

SCALE: 1"=1'-0"



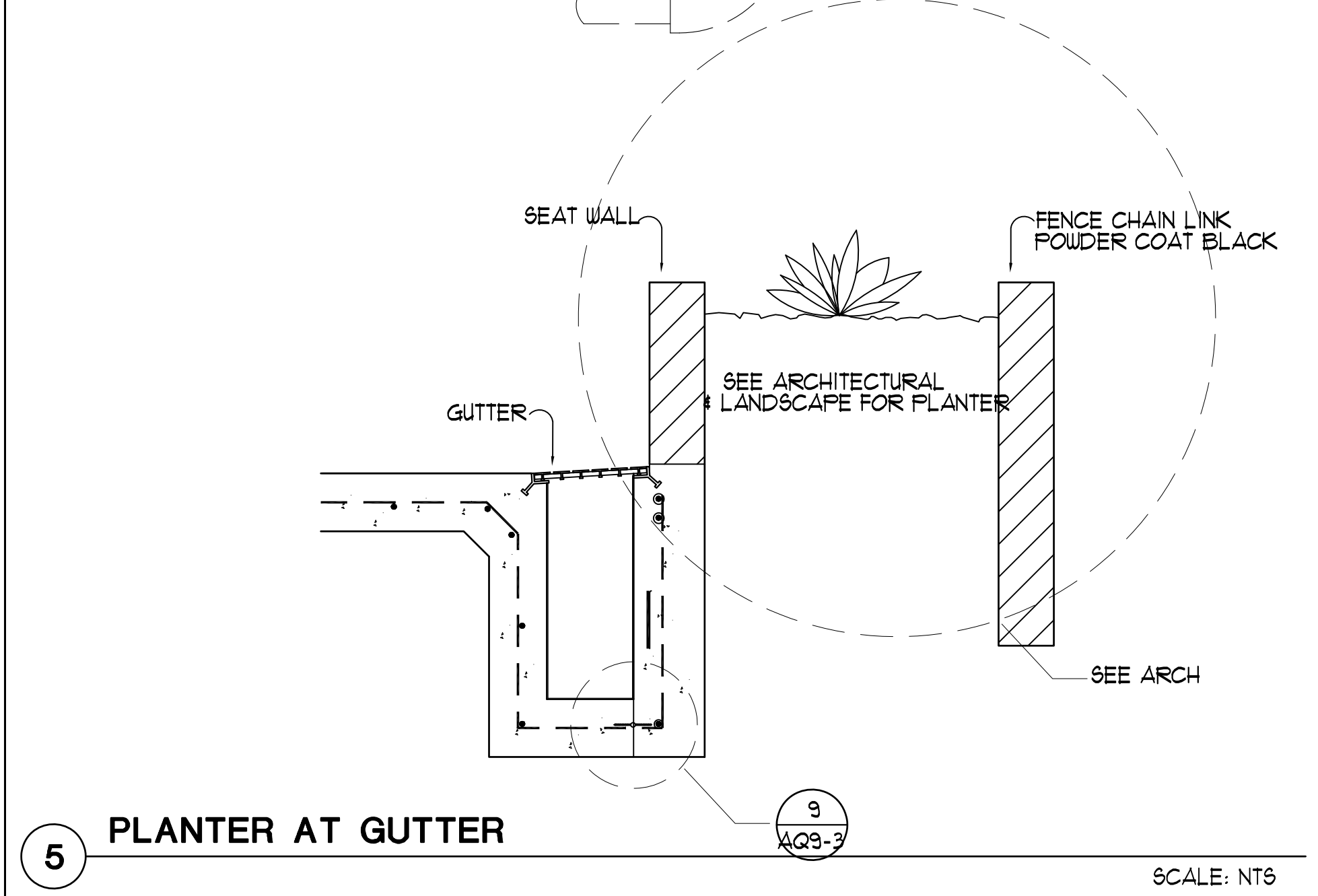
3 GUTTER GRATE

SCALE: NT5



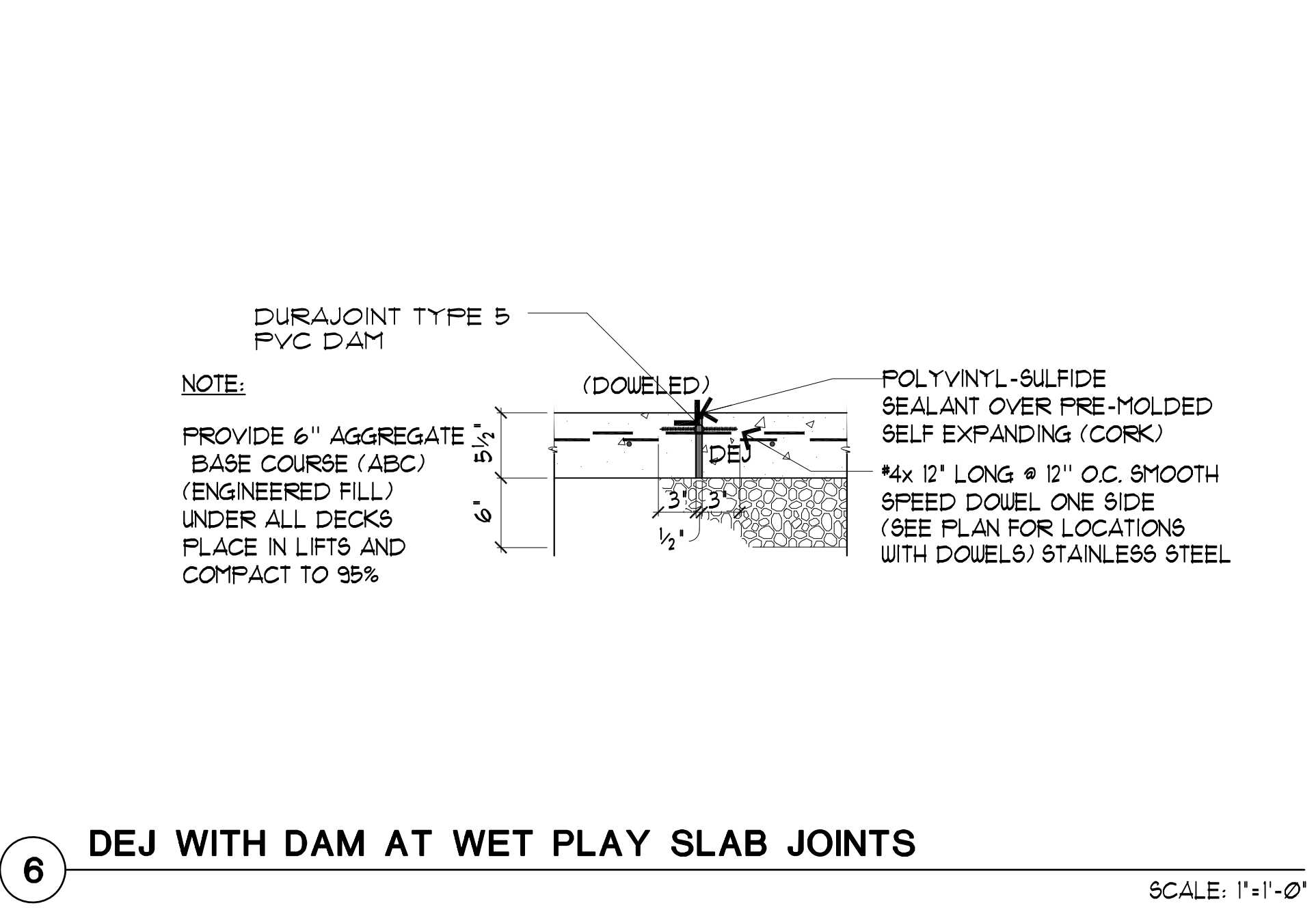
4 SURGE TANK ACCESS HATCH

SCALE: NT5



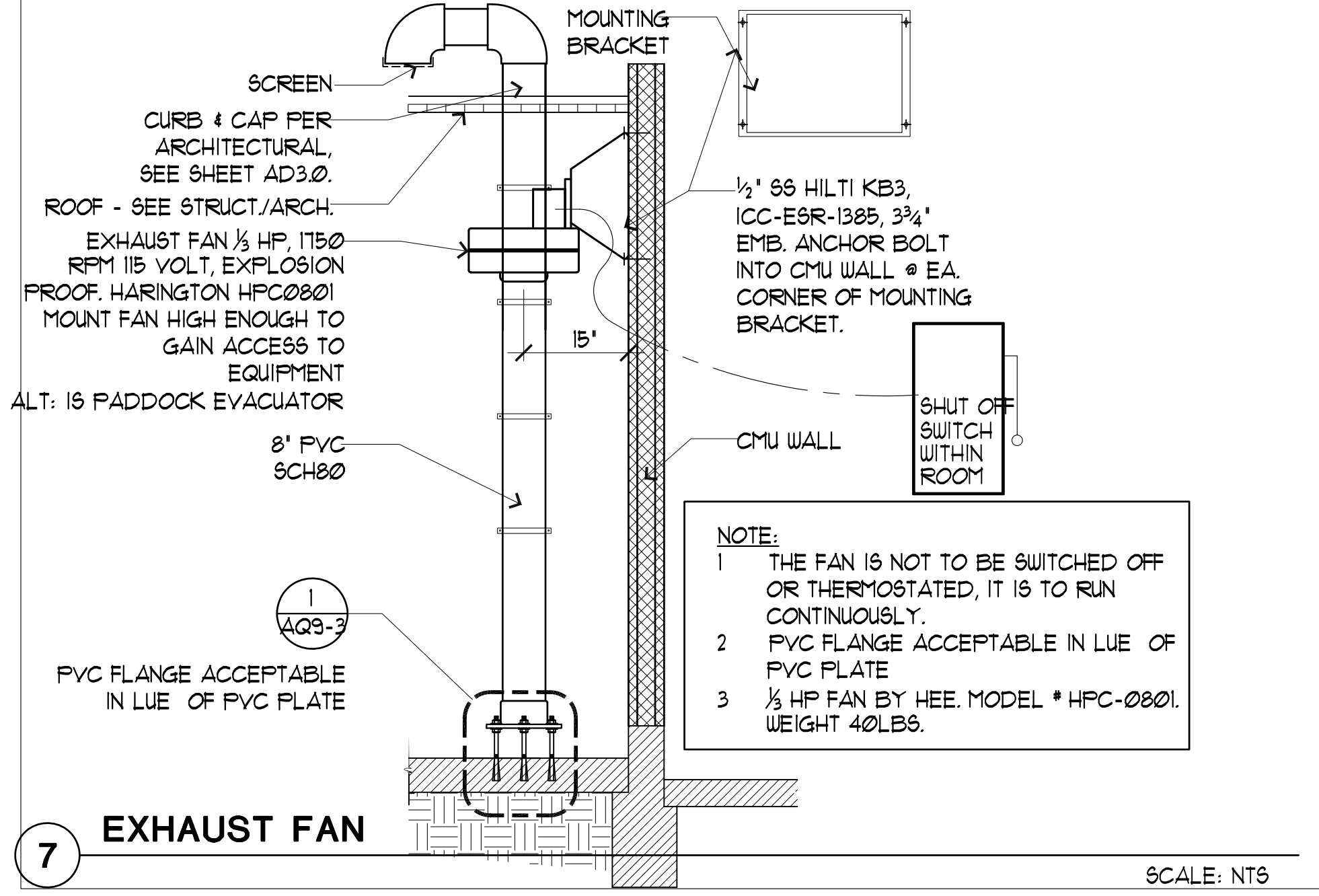
5 PLANTER AT GUTTER

SCALE: NT5



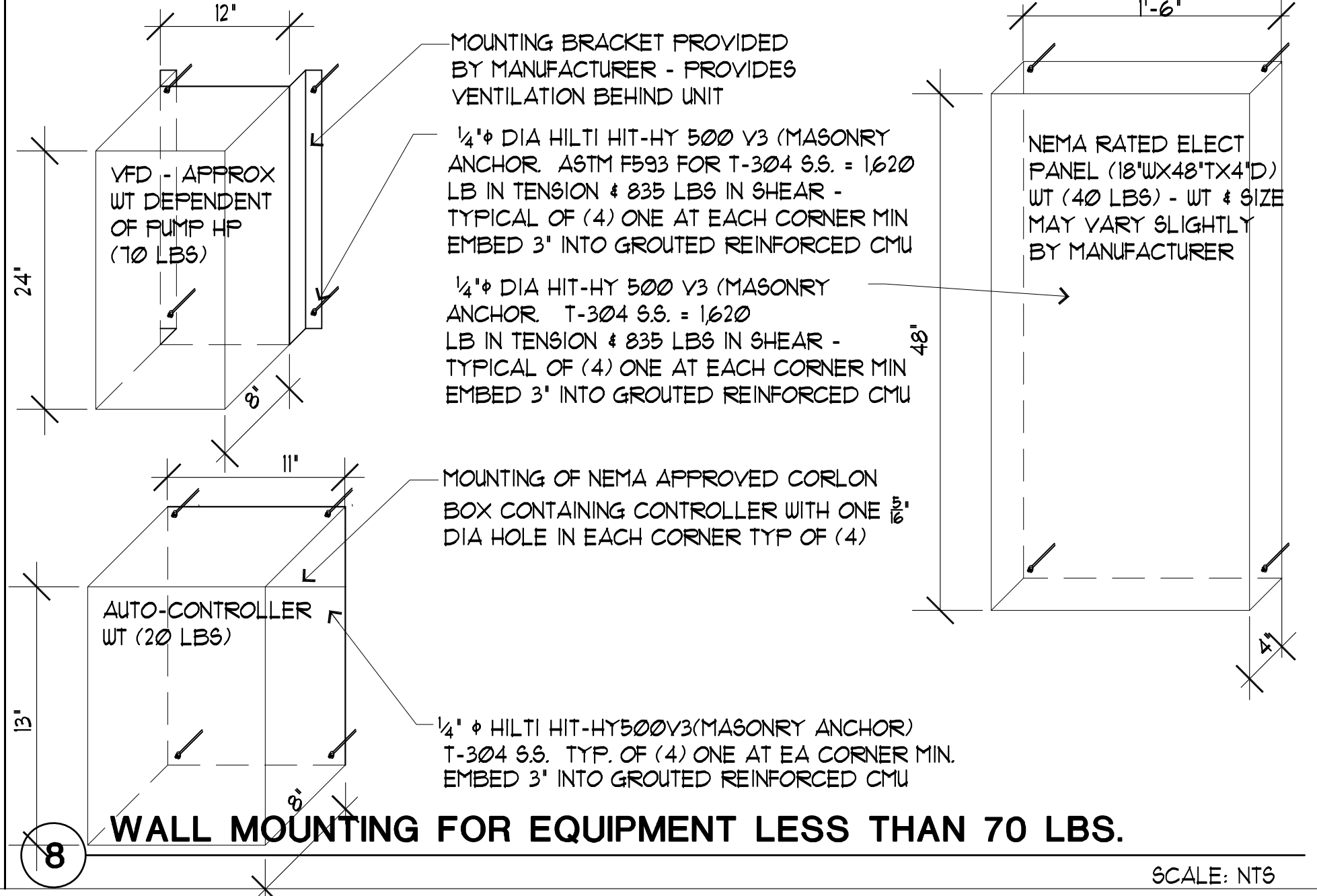
6 DEJ WITH DAM AT WET PLAY SLAB JOINTS

SCALE: 1"=1'-0"



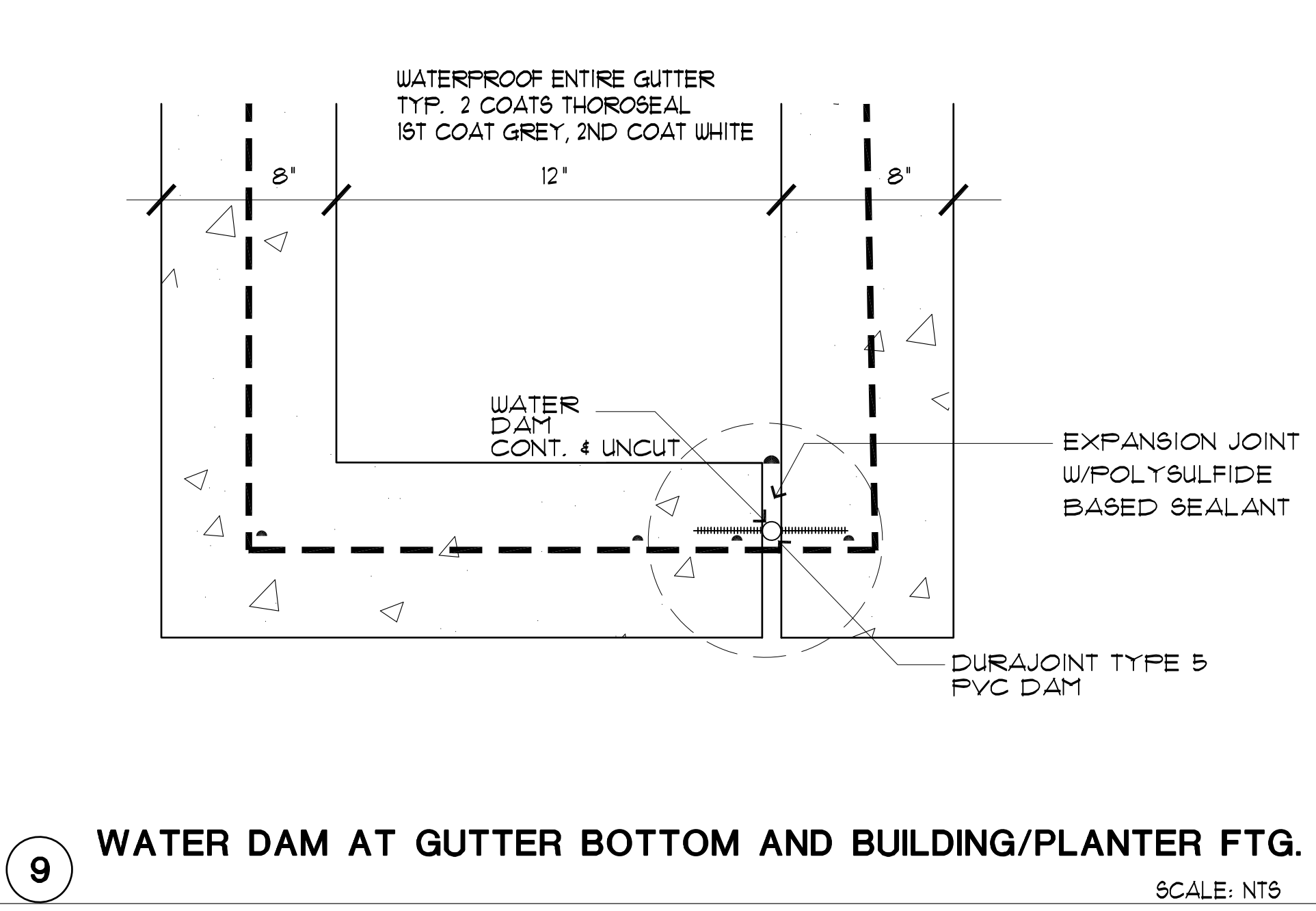
7 EXHAUST FAN

SCALE: NT5



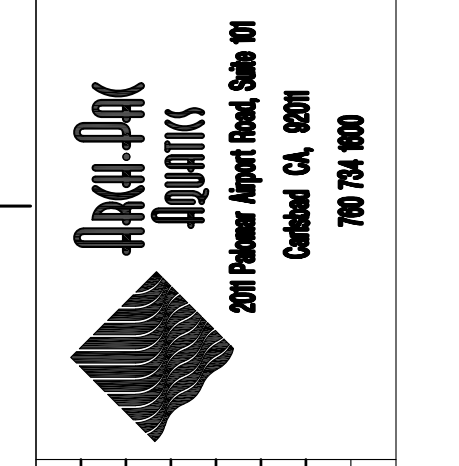
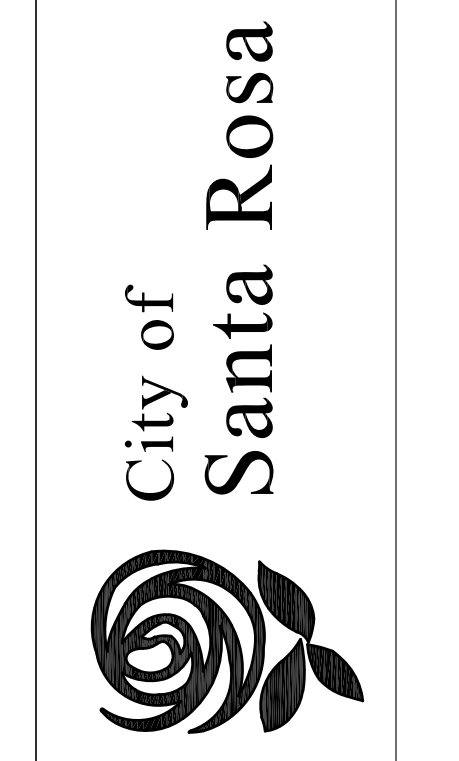
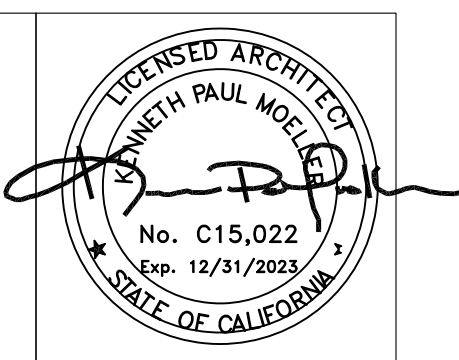
8 WALL MOUNTING FOR EQUIPMENT LESS THAN 70 LBS.

SCALE: NT5



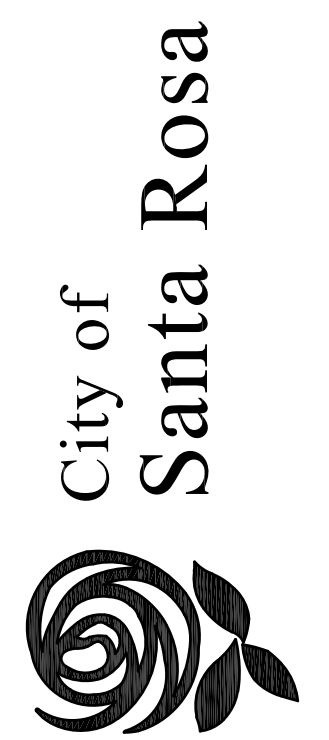
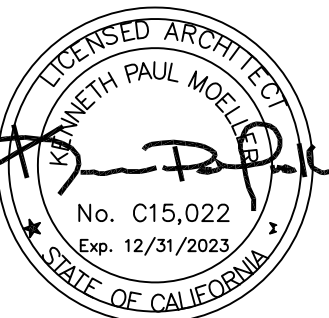
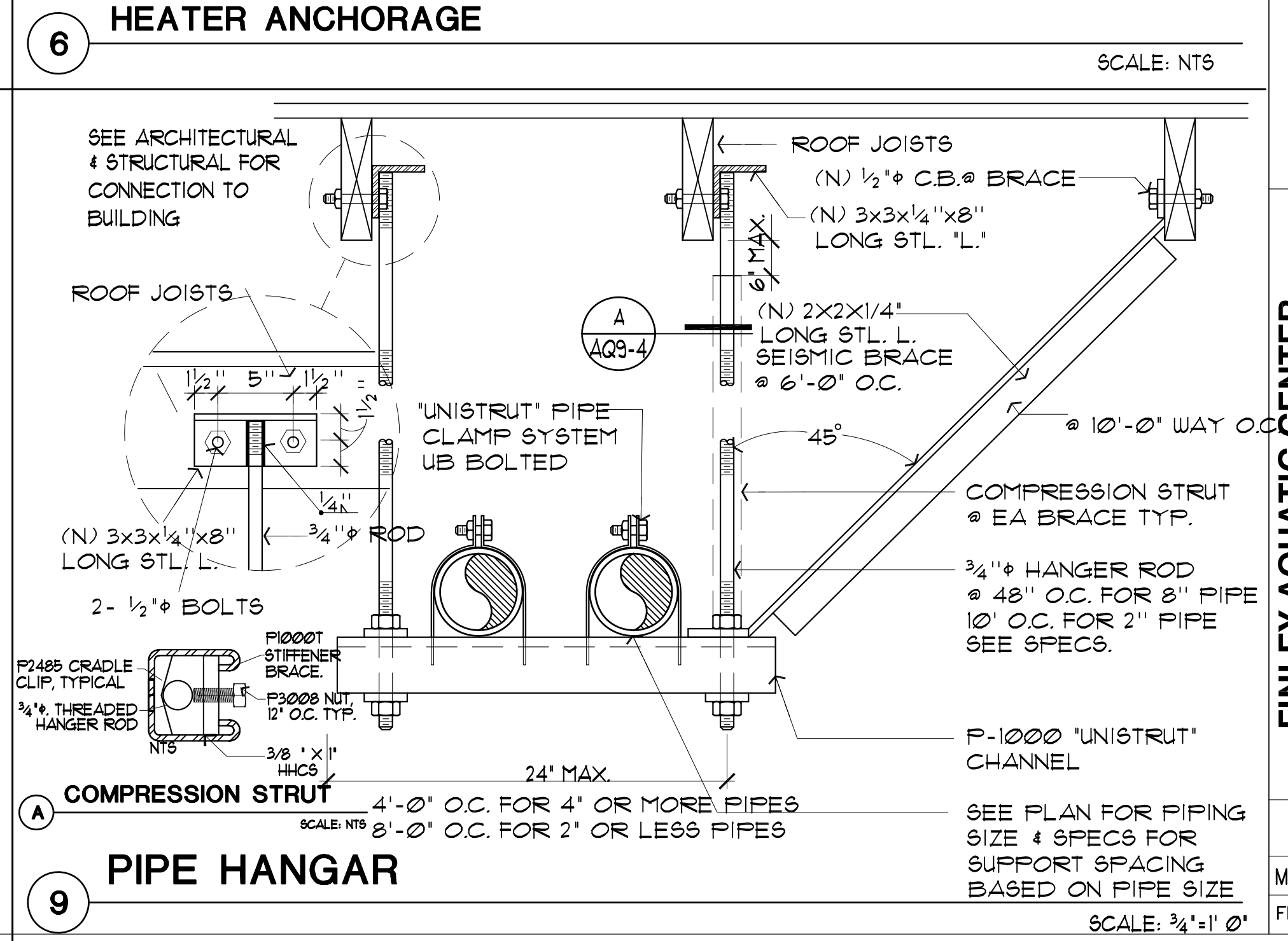
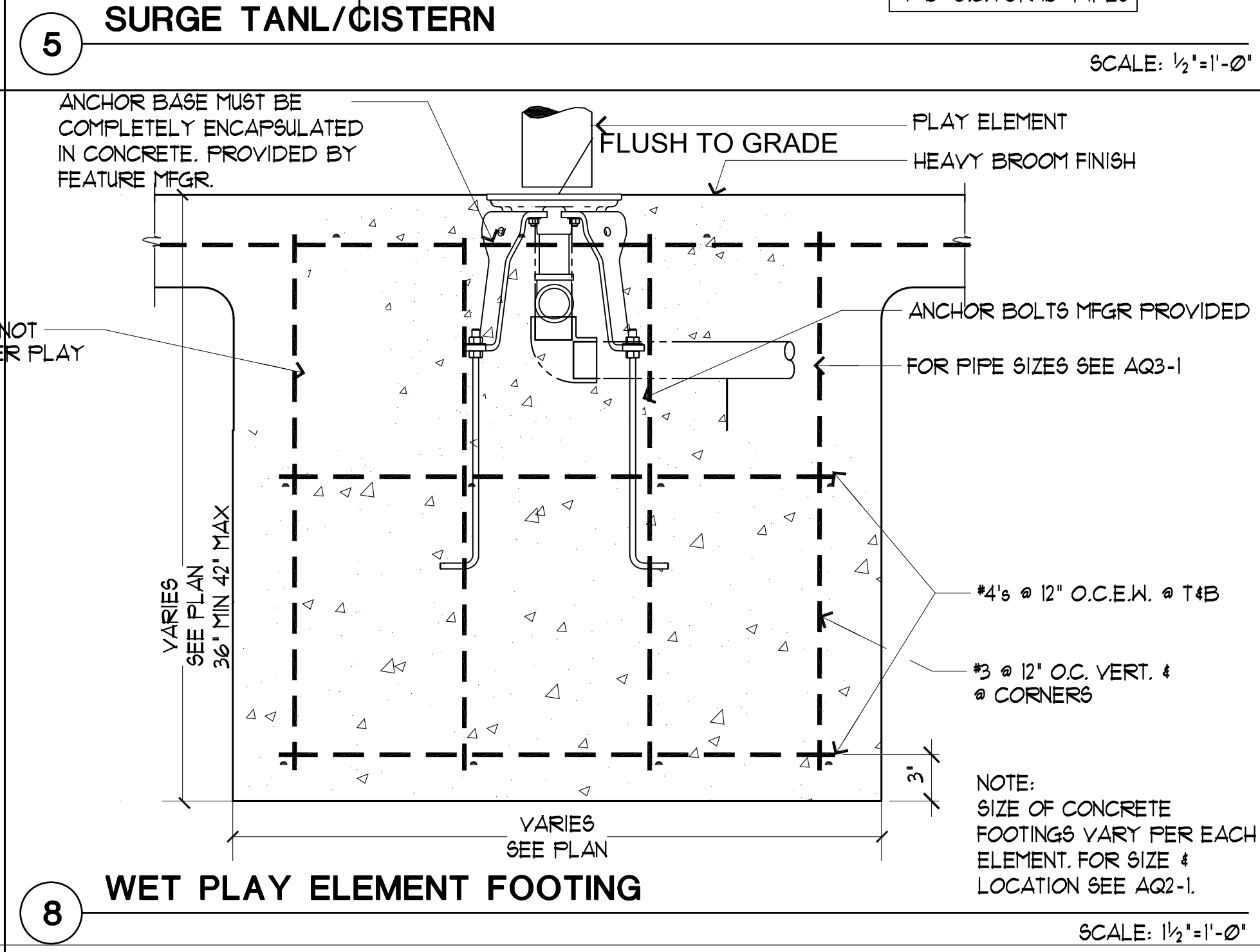
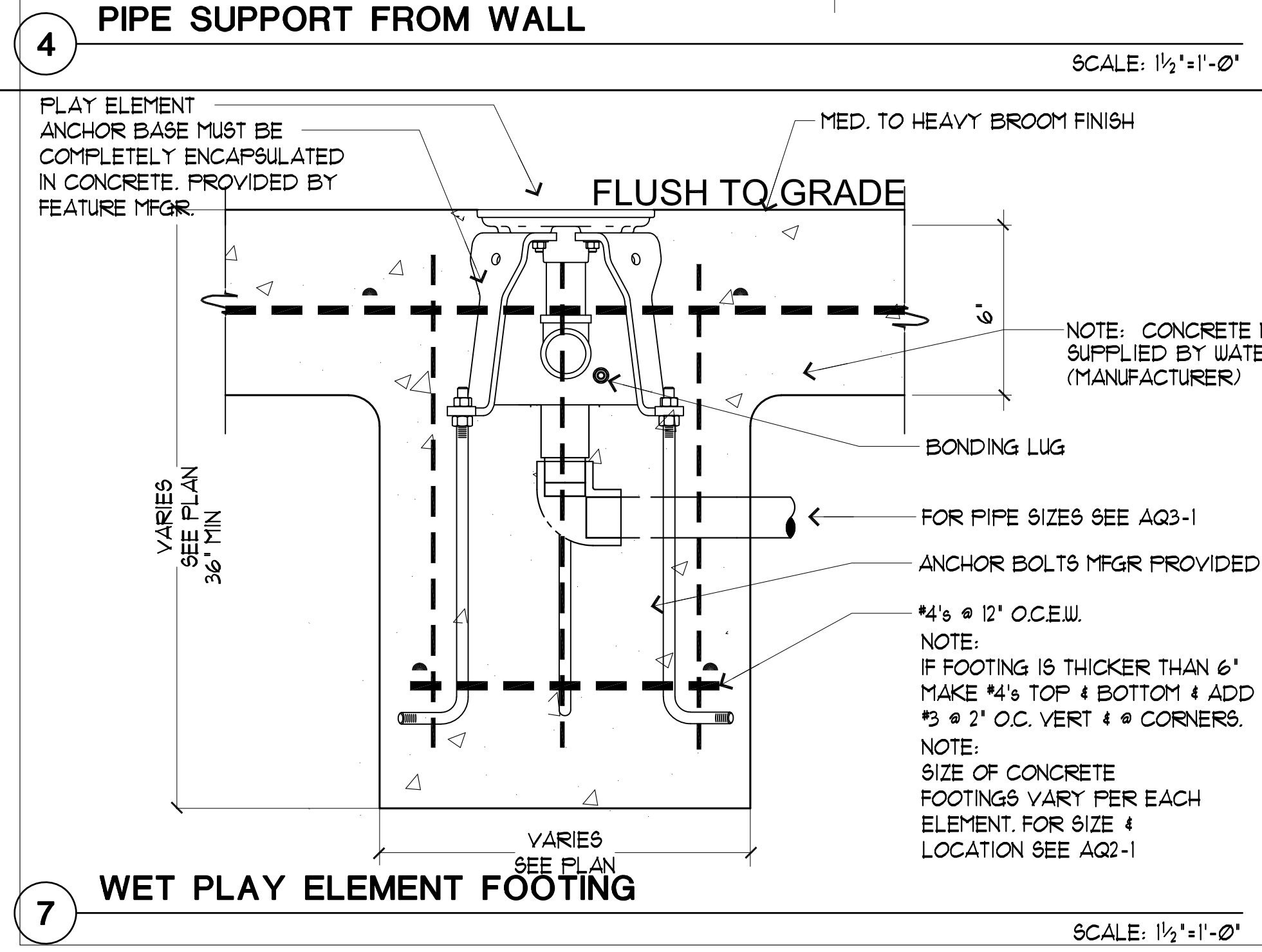
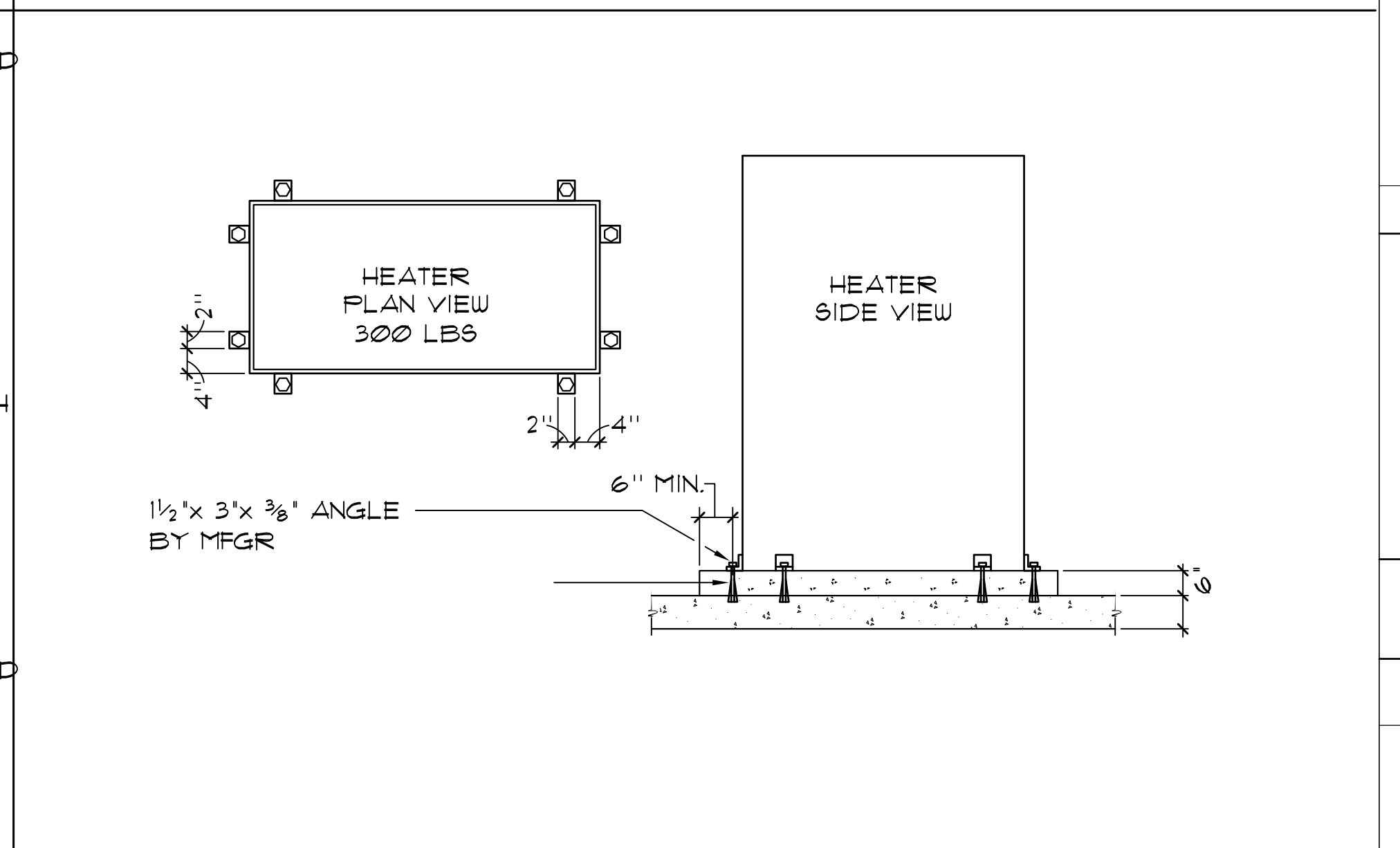
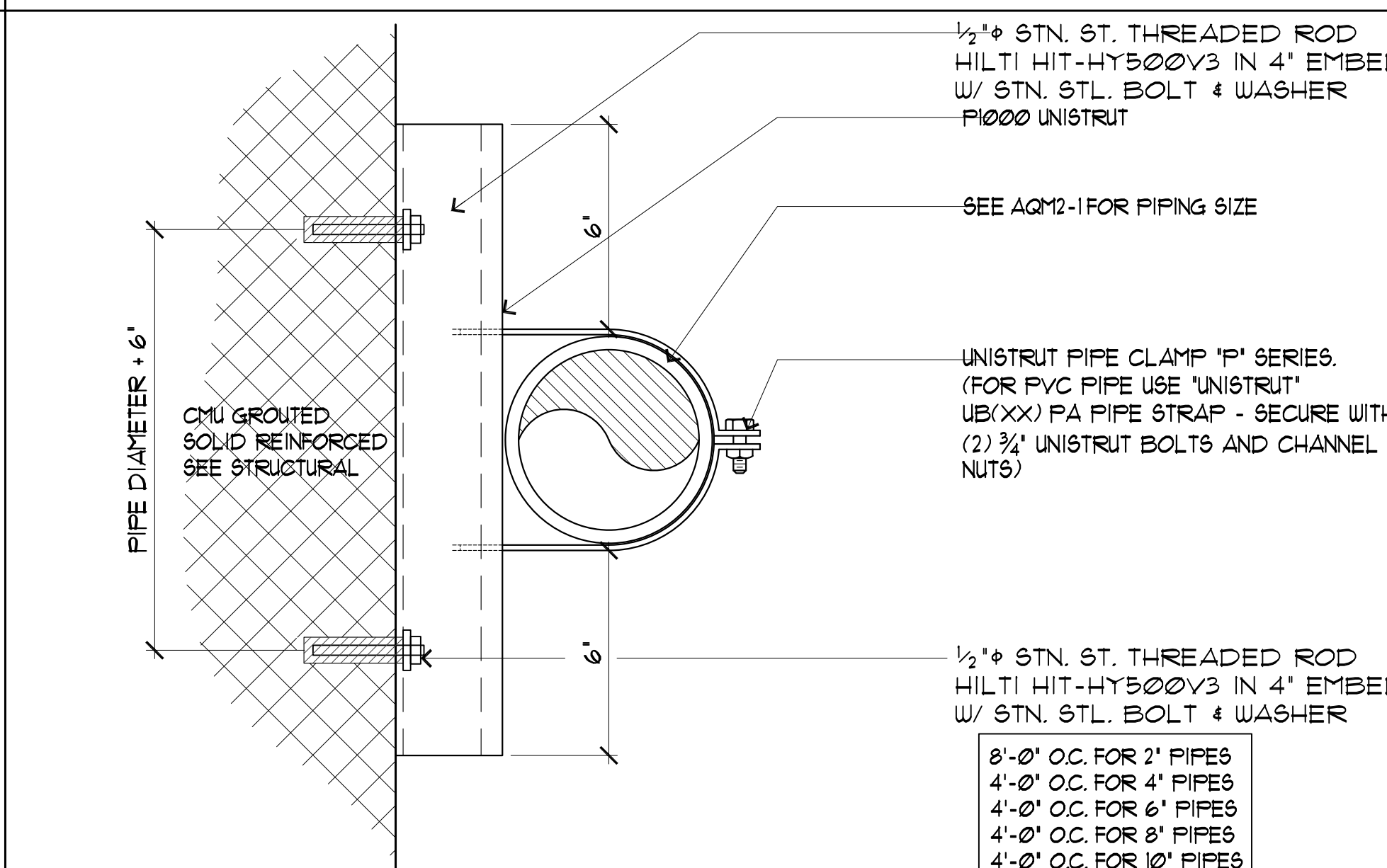
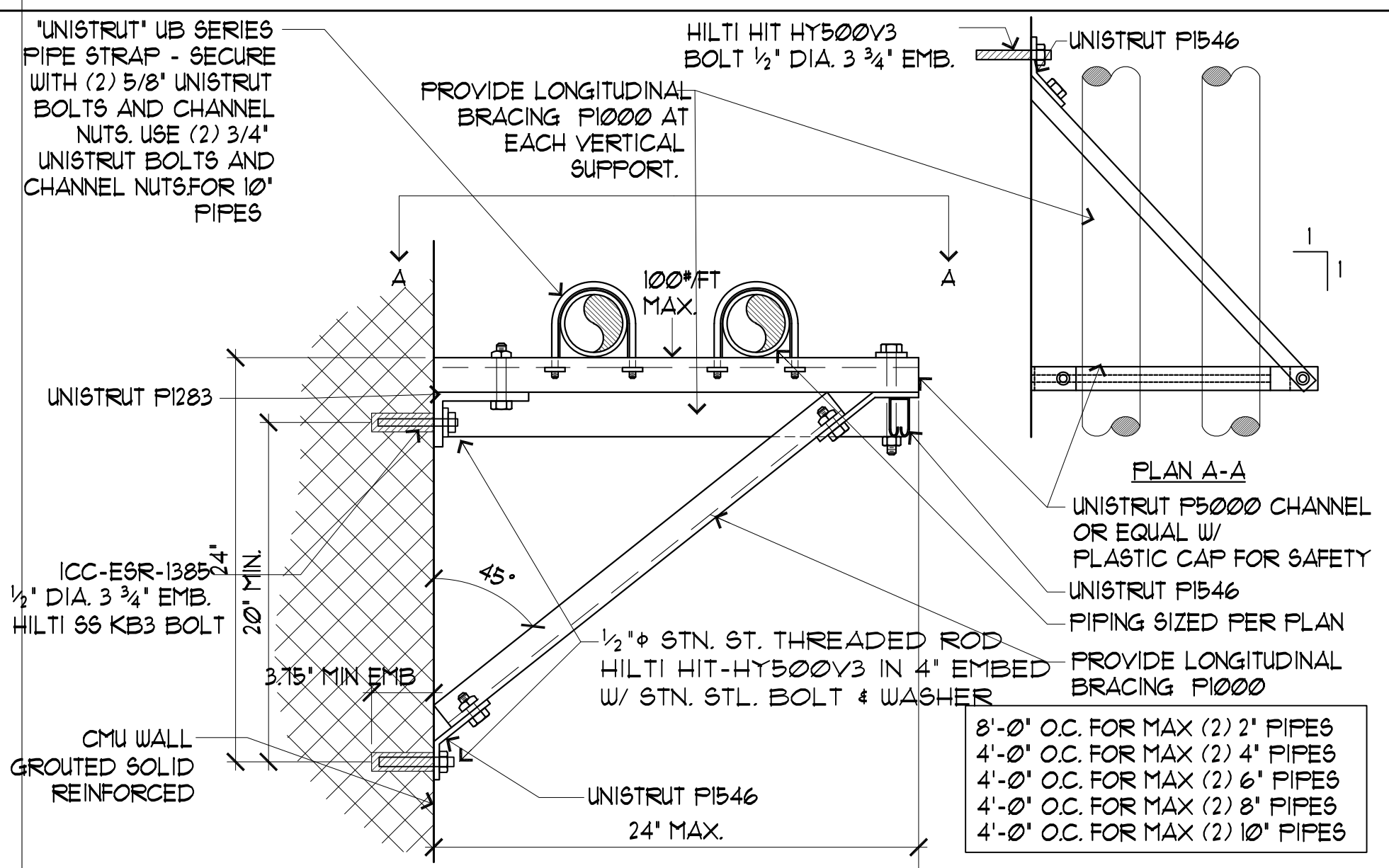
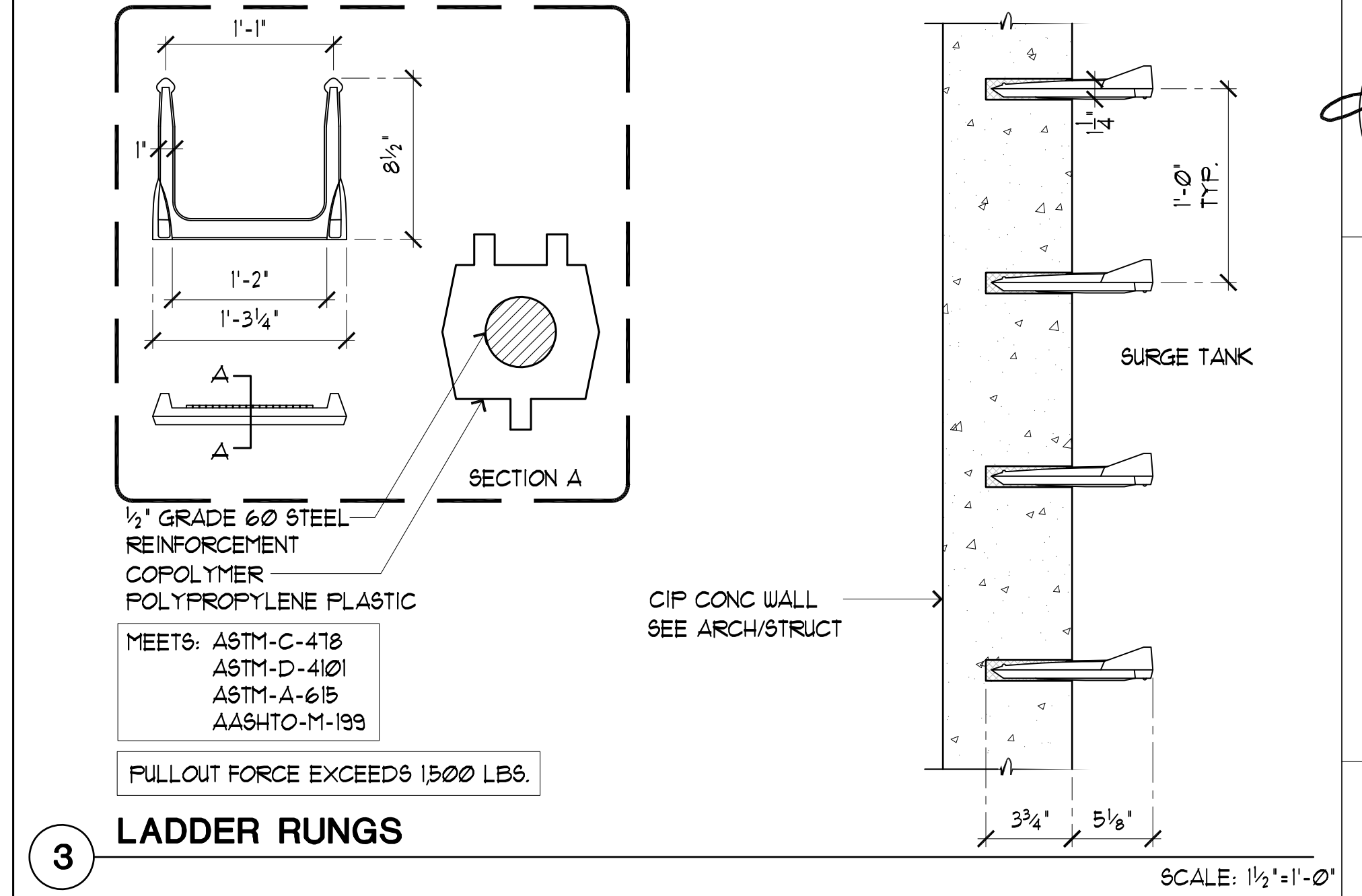
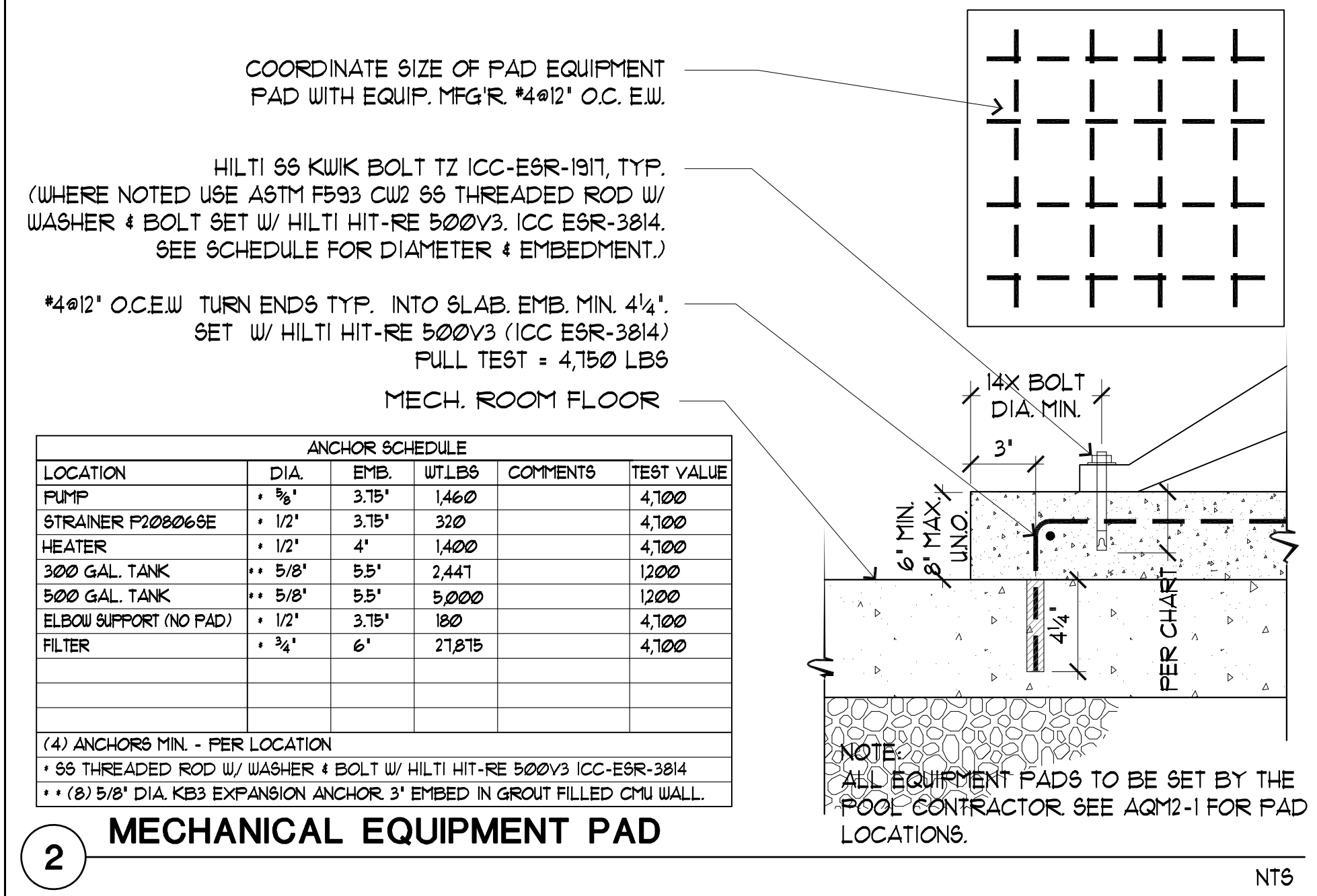
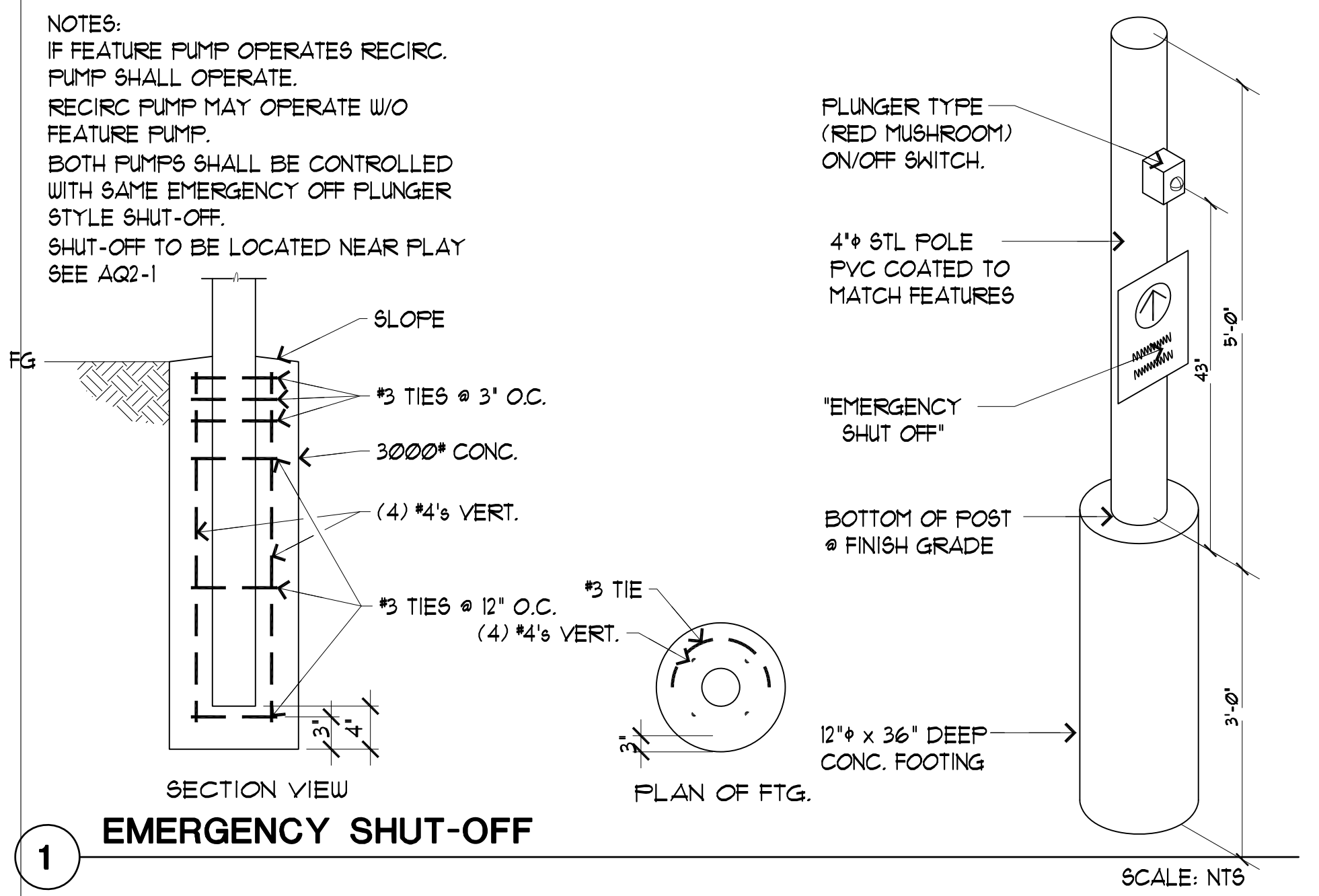
9 WATER DAM AT GUTTER BOTTOM AND BUILDING/PLANTER FTG.

SCALE: NT5



NO.	DATE	REVISION	BY

DWN BY: KM	CHK BY: --	DATE: 6/9/2023	SCALE: 3" = 1'-0"
FINLEY AQUATIC CENTER			
SPRAY GROUND AND RENOVATION PROJECT			
AQ9.3			
SPLASH PAD DETAILS			
CONTRACT NO. C02336			
MODEL 45 OF 68			
FILE NO. 2022-014			



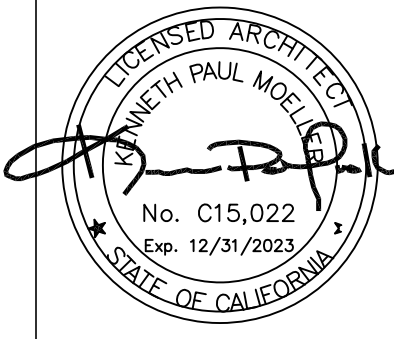
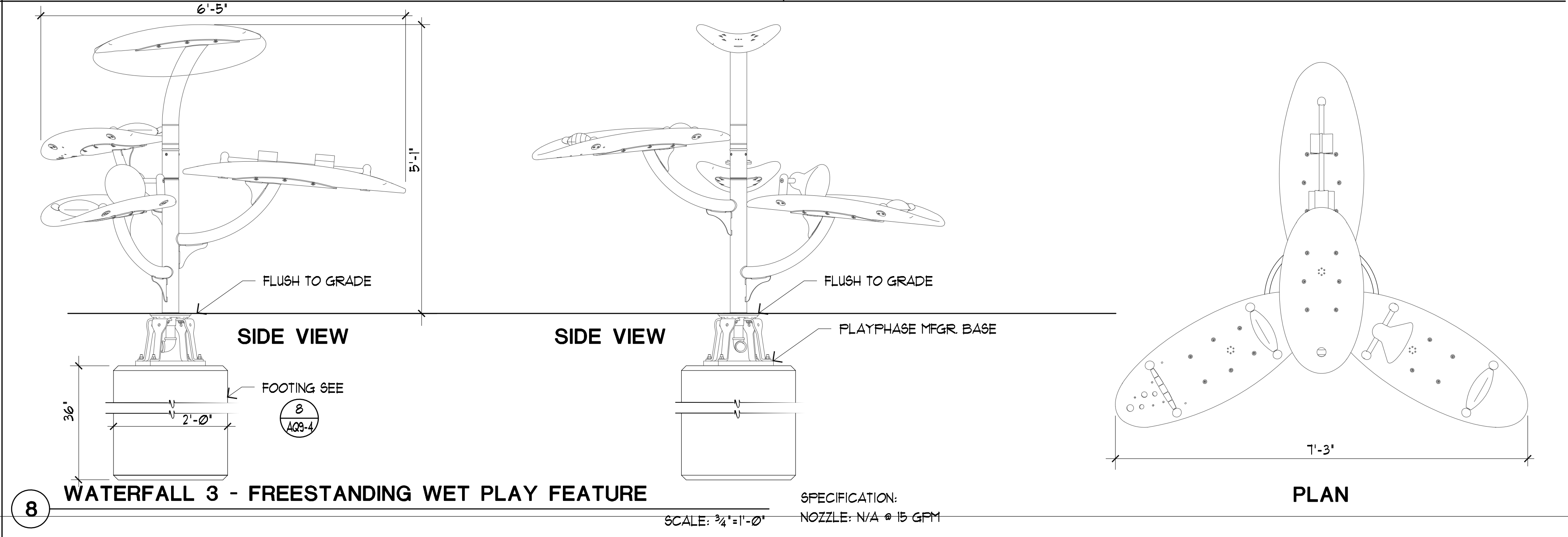
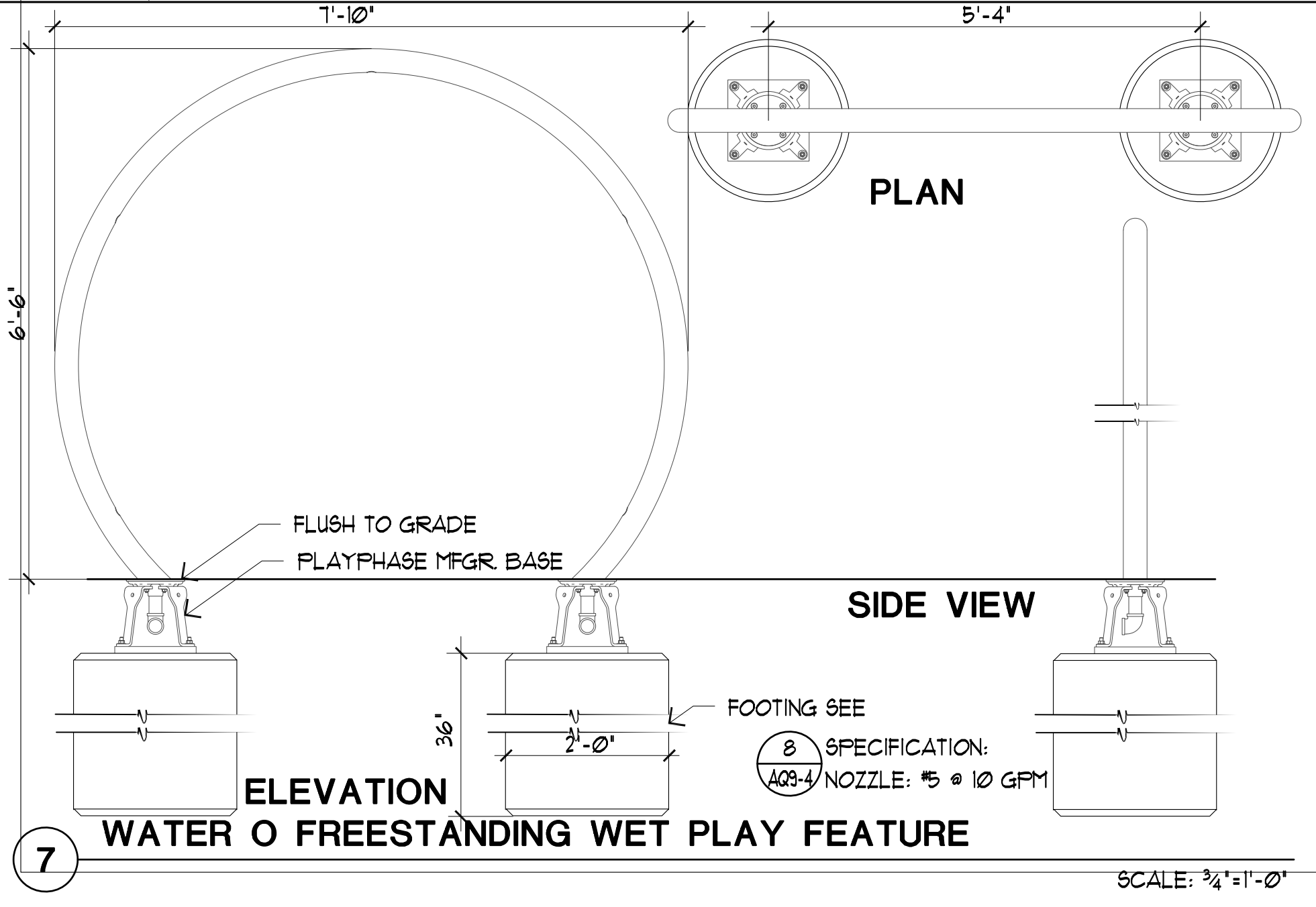
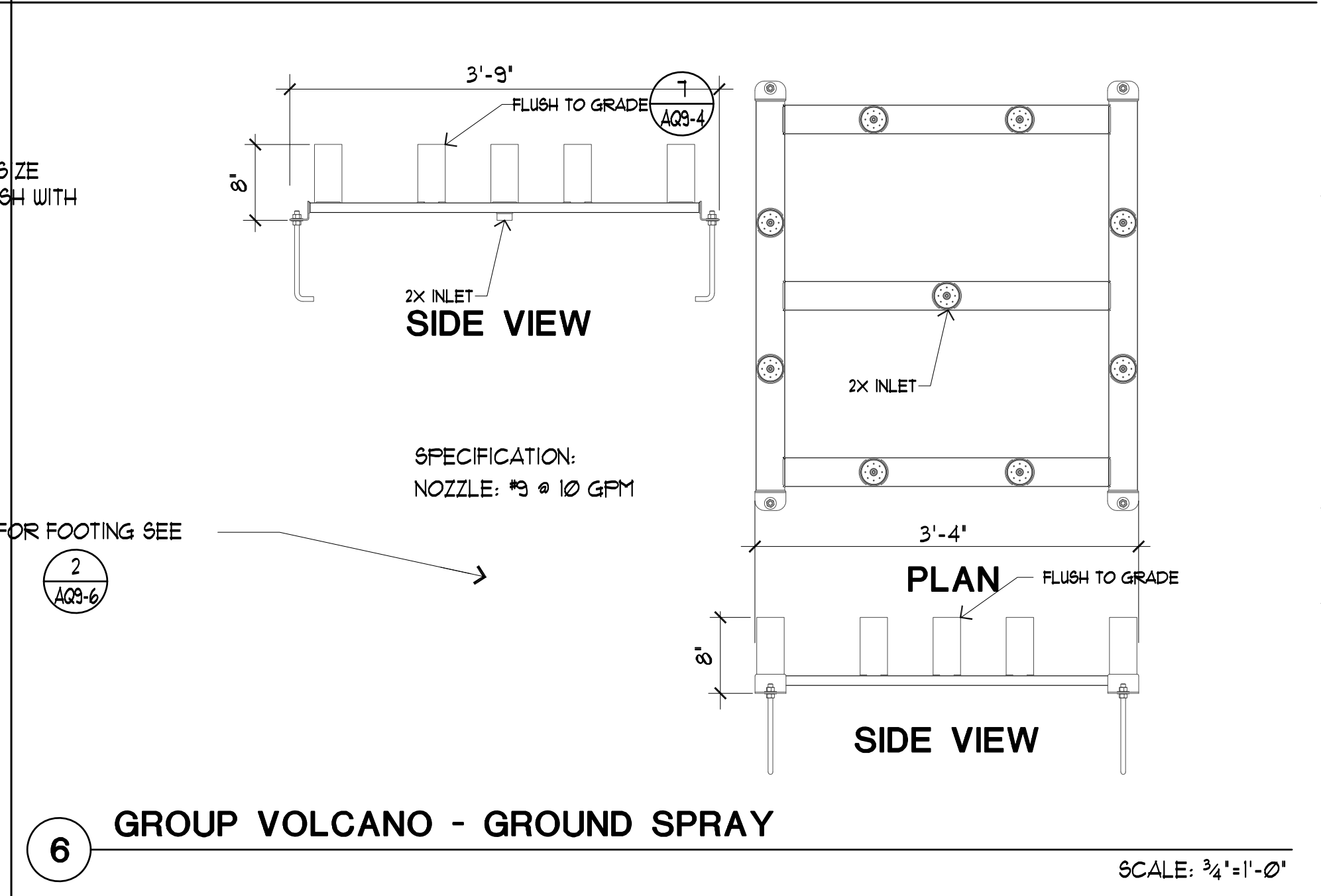
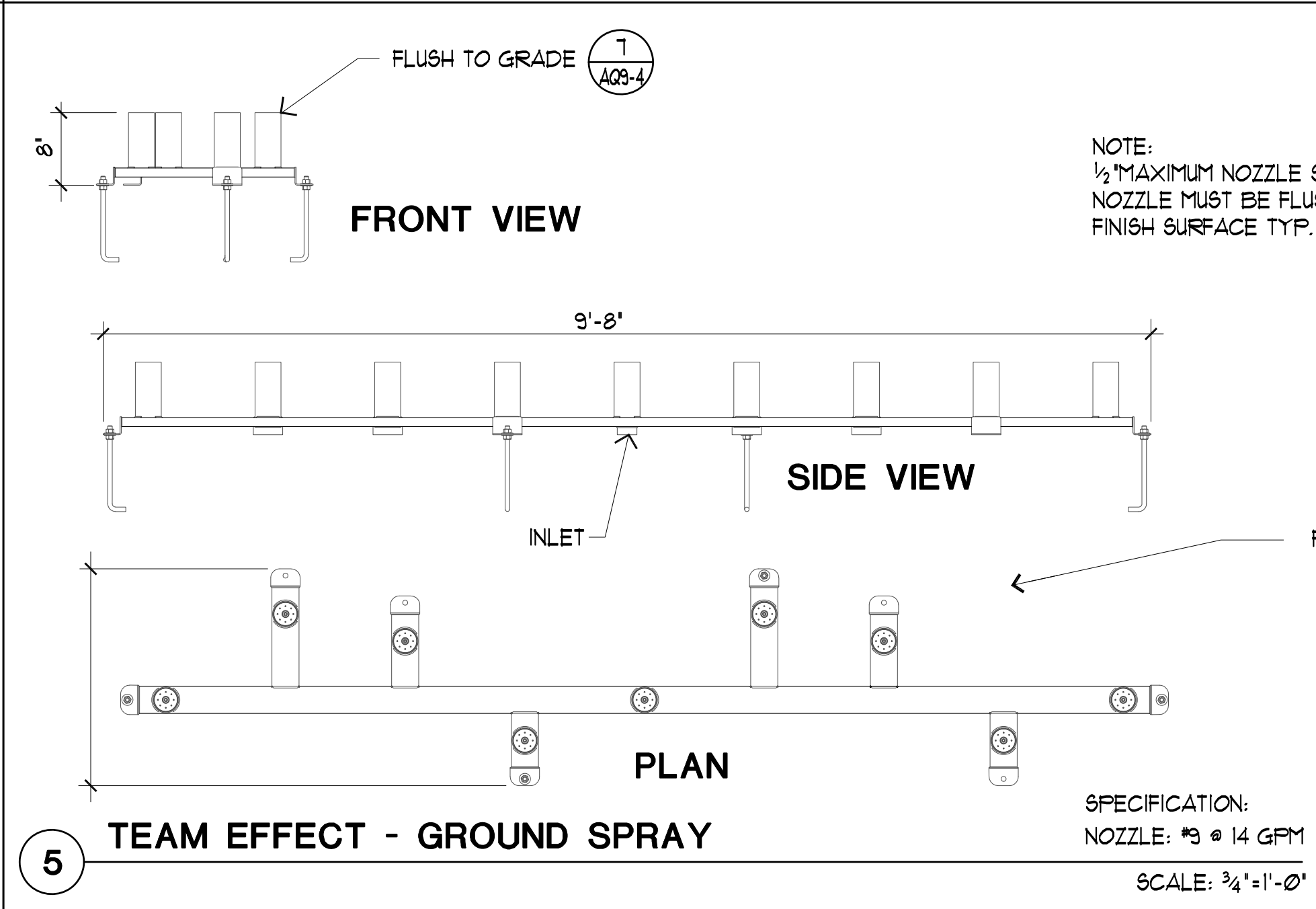
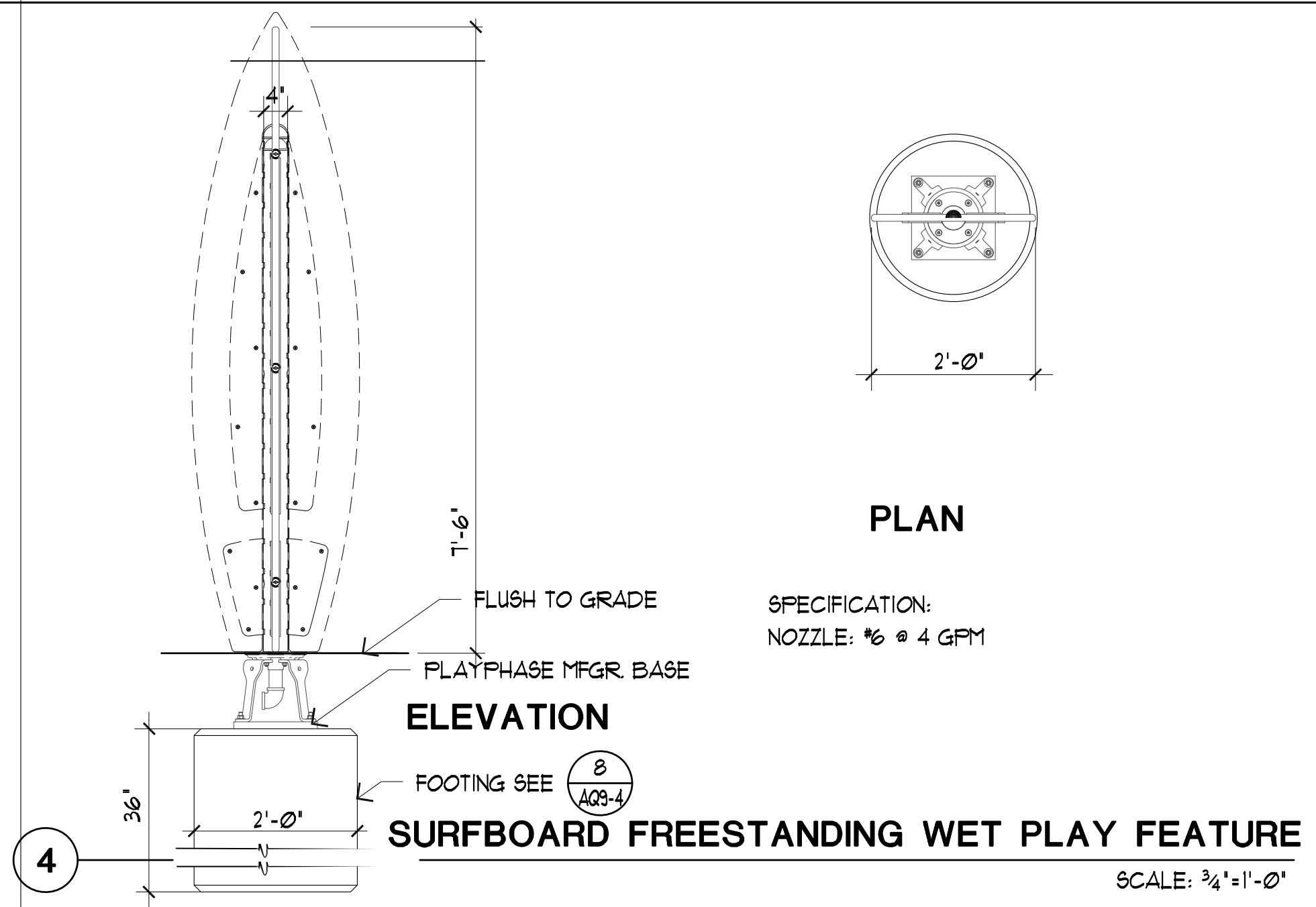
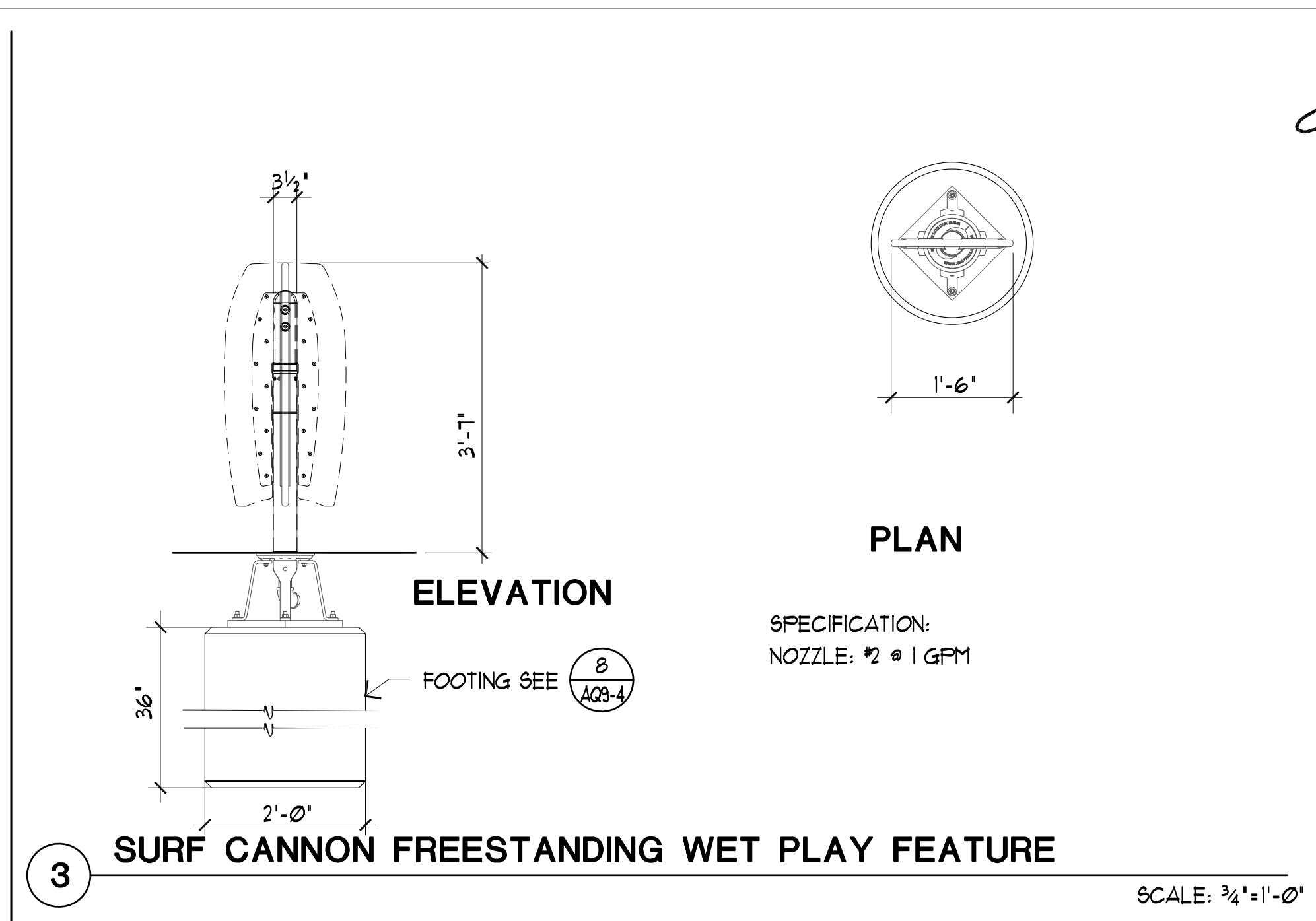
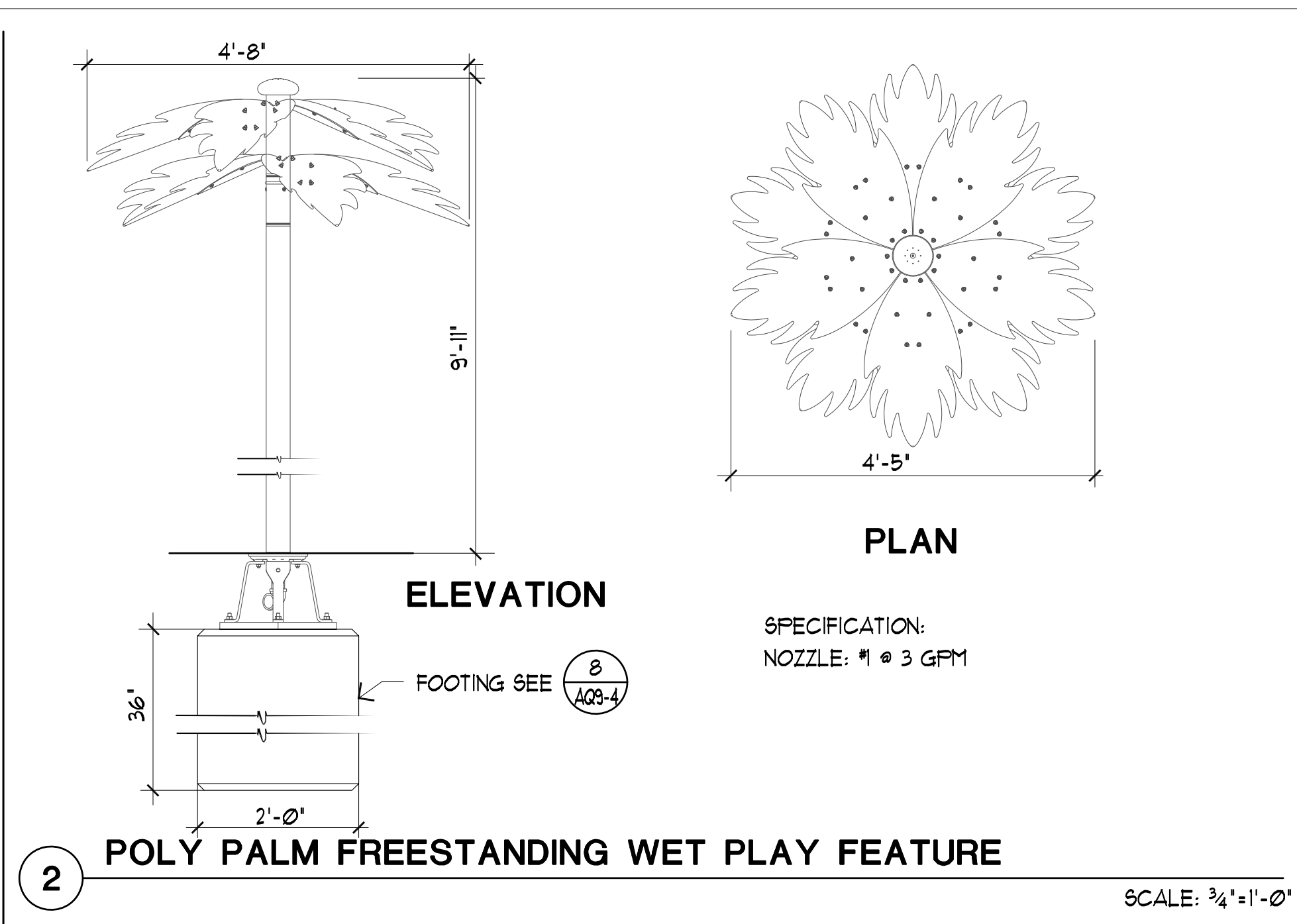
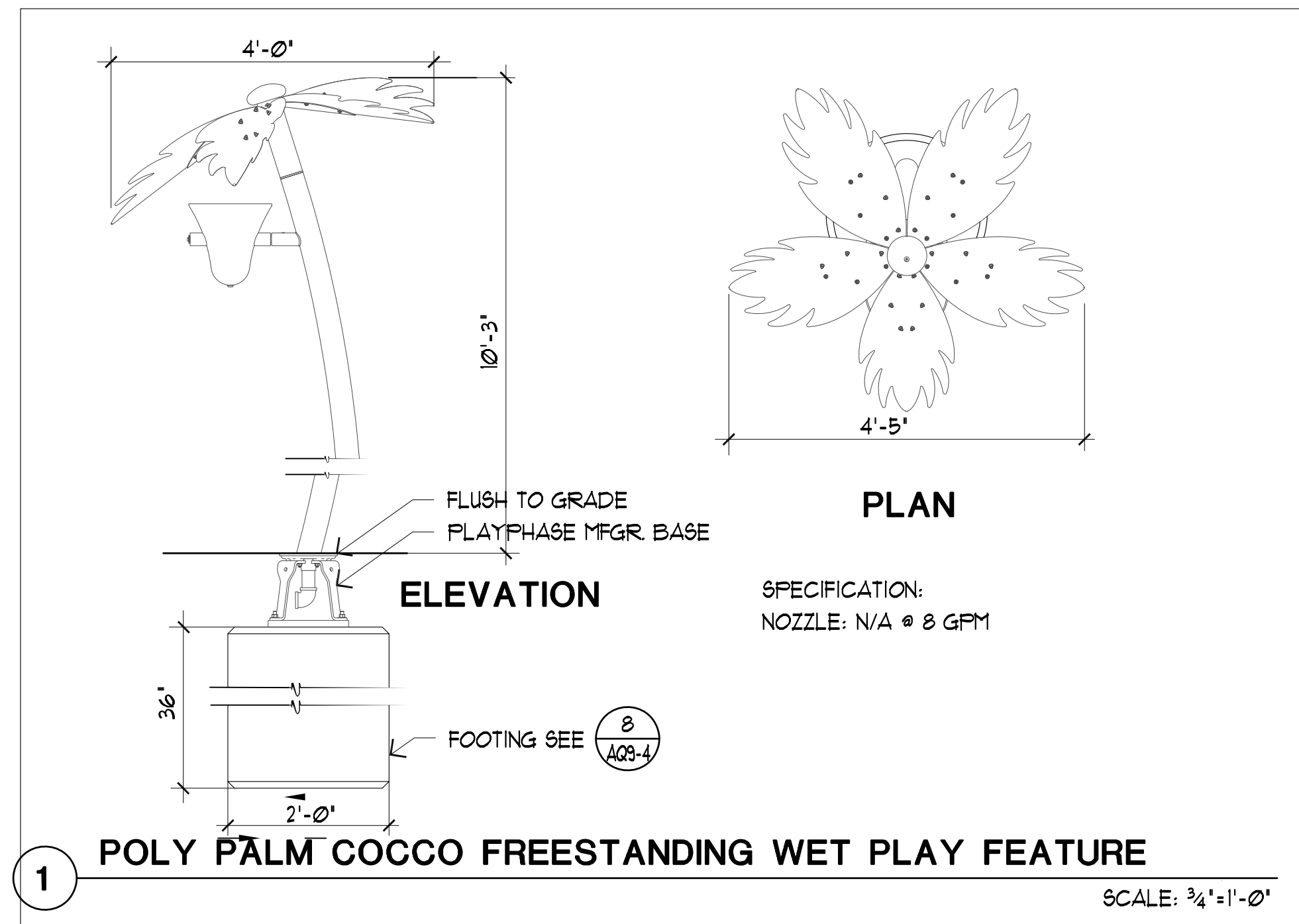
NO.	DATE	REVISION	BY

DWN BY: KM
CHK BY: --
DATE: 6/9/2023
SCALE: 3/4" = 1'-0"

FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT

AQ09.4
SPLASH PAD DETAILS

CONTRACT NO. C02336
MODEL 46 OF 68
FILE NO. 2022-014



City of Santa Rosa



ARCH-JAY AQUATICS
2011 Pioneer Airport Road, Suite 101
Caldwell, CA 95001
707.724.1800

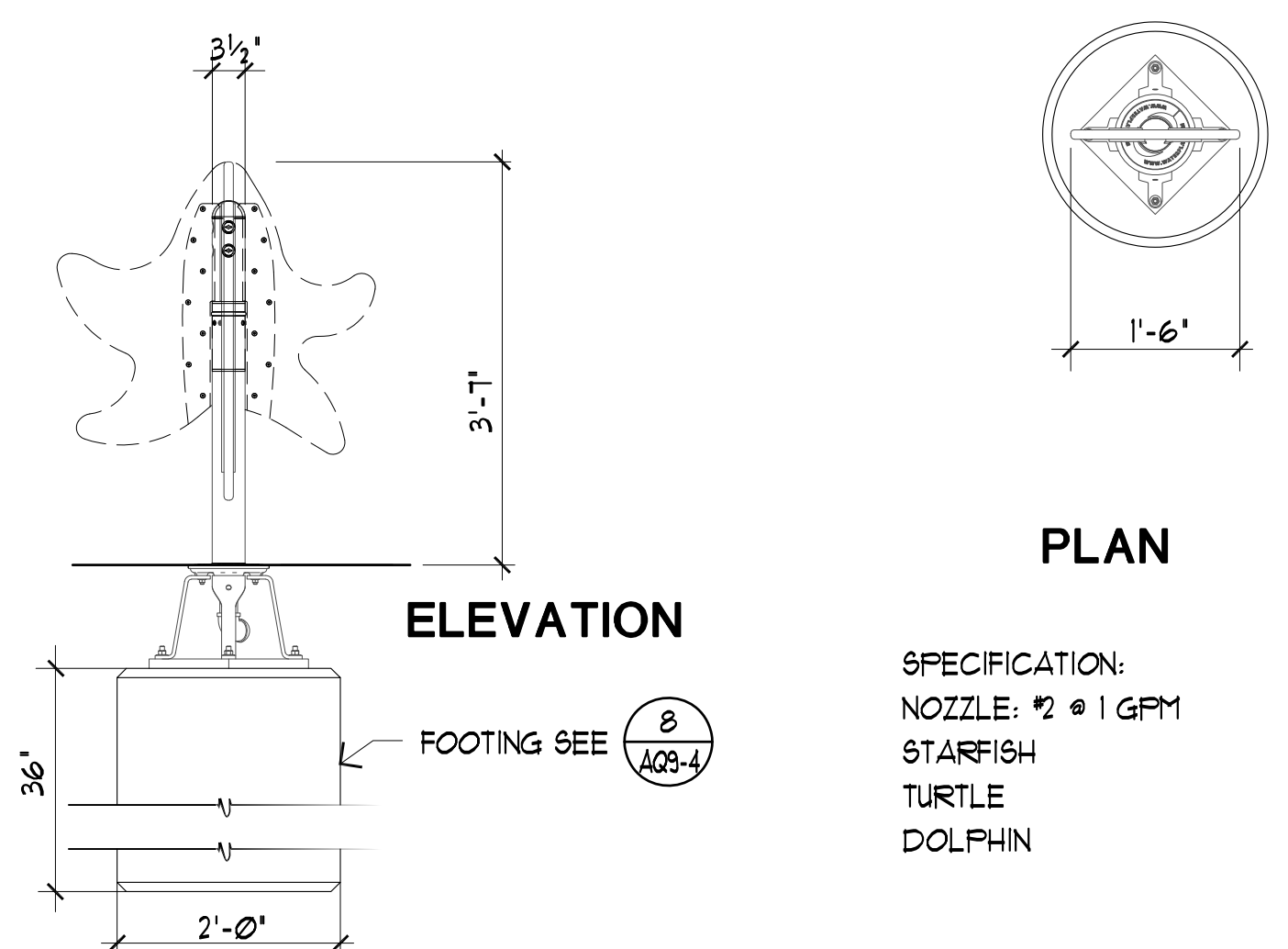


NO.	DATE	REVISION	BY

FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT
AC09.5
SPLASH PAD DETAILS

DWN BY: KM
CHK BY: --
DATE: 6/9/2023
SCALE: 3/4" = 1'-0"

CONTRACT NO. C02336
MODEL 47 OF 68
FILE NO. 2022-014



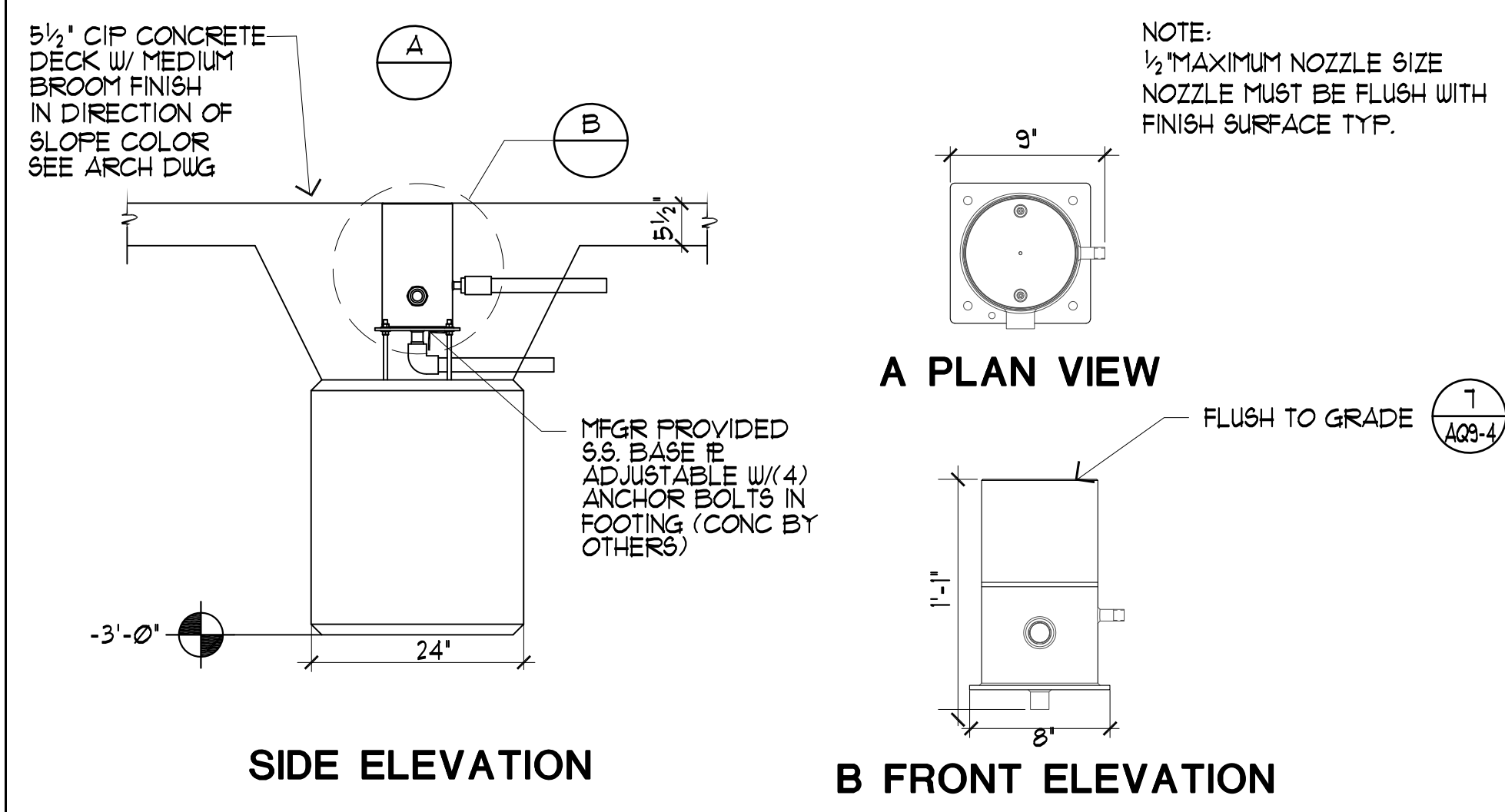
PLAN

ELEVATION

SPECIFICATION:
NOZZLE: #2 @ 1 GPM
STARFISH
TURTLE
DOLPHIN

1 CRITTERS - FREESTANDING WET PLAY FEATURE

SCALE: 3/4"=1'-0"



SIDE ELEVATION

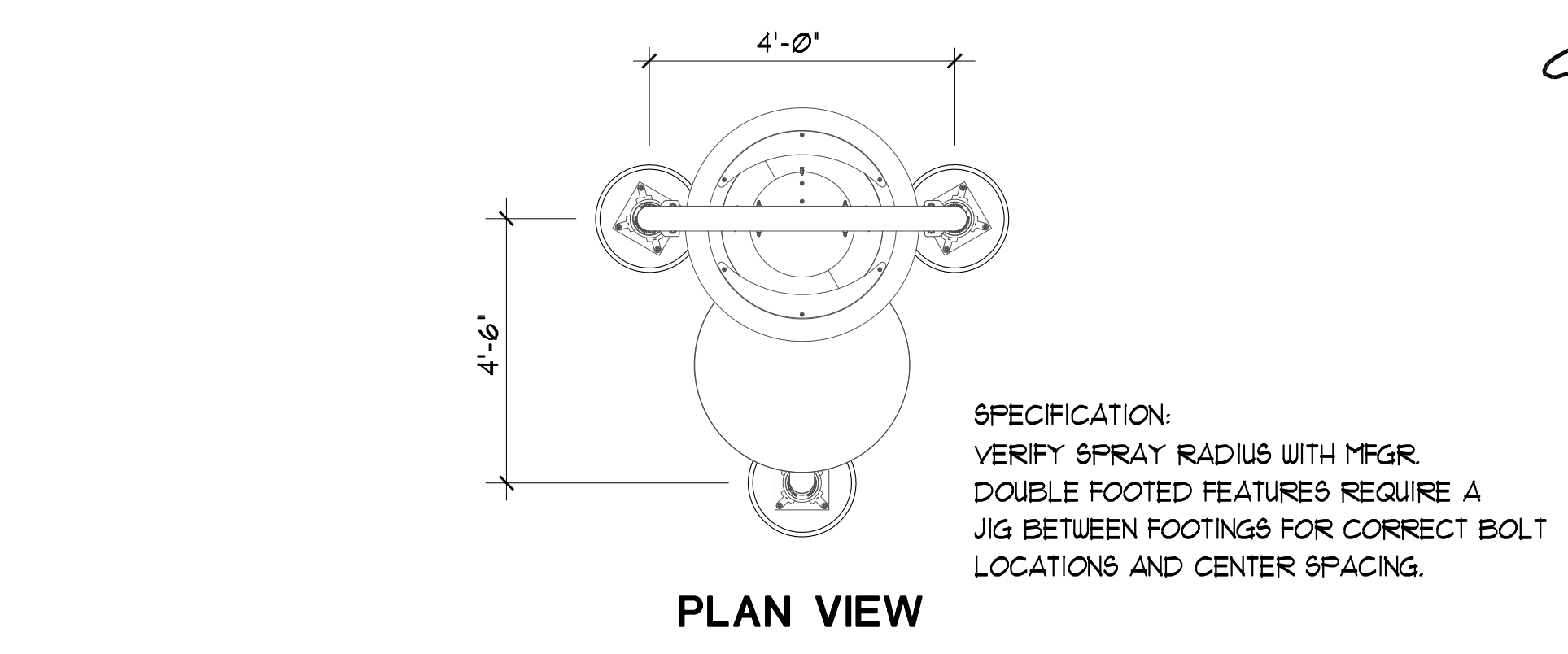
A PLAN VIEW

B FRONT ELEVATION

SPECIFICATION:
NOZZLES: N/A @ 1-GPM

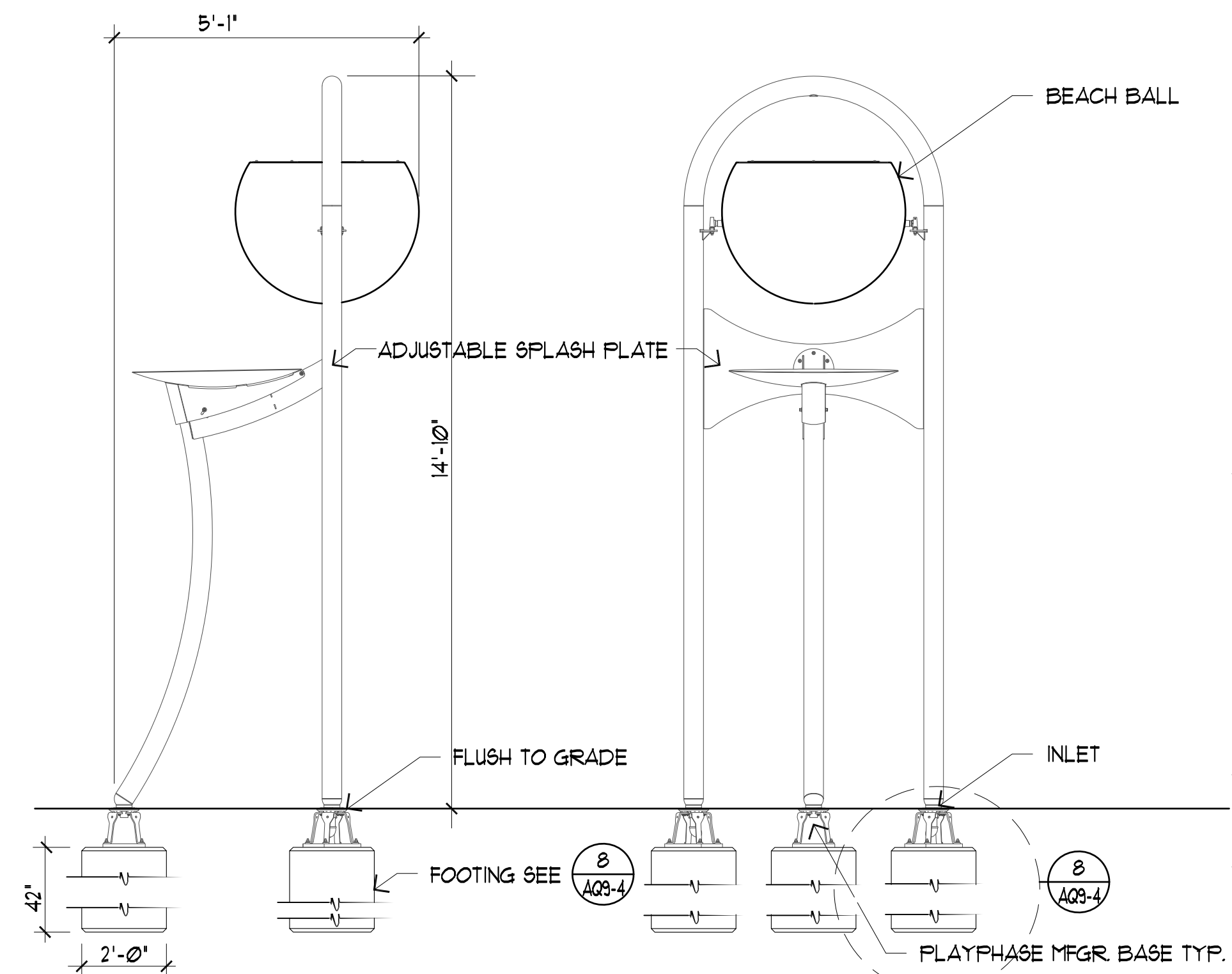
2 POP IT - GROUND SPRAY

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



PLAN VIEW

SPECIFICATION:
VERIFY SPRAY RADIUS WITH MFR.
DOUBLE FOOTED FEATURES REQUIRE A
JIG BETWEEN FOOTINGS FOR CORRECT BOLT
LOCATIONS AND CENTER SPACING.



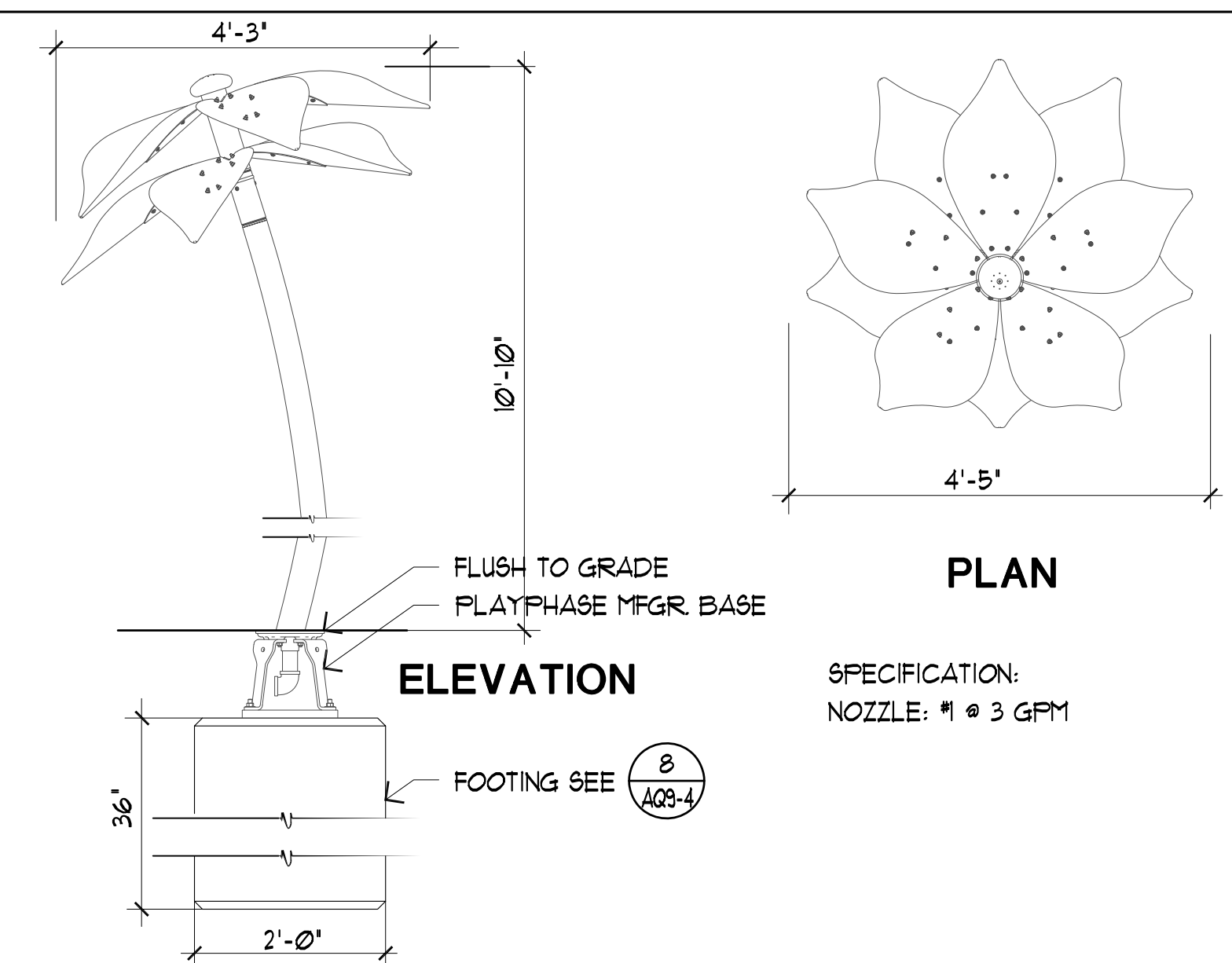
SIDE ELEVATION

FRONT ELEVATION

SPECIFICATION:
NOZZLE: N/A @ 40 GPM

6 SKY SOAKER - FREE STANDING WET PLAY FEATURE

SCALE: 3/8"=1'-0"



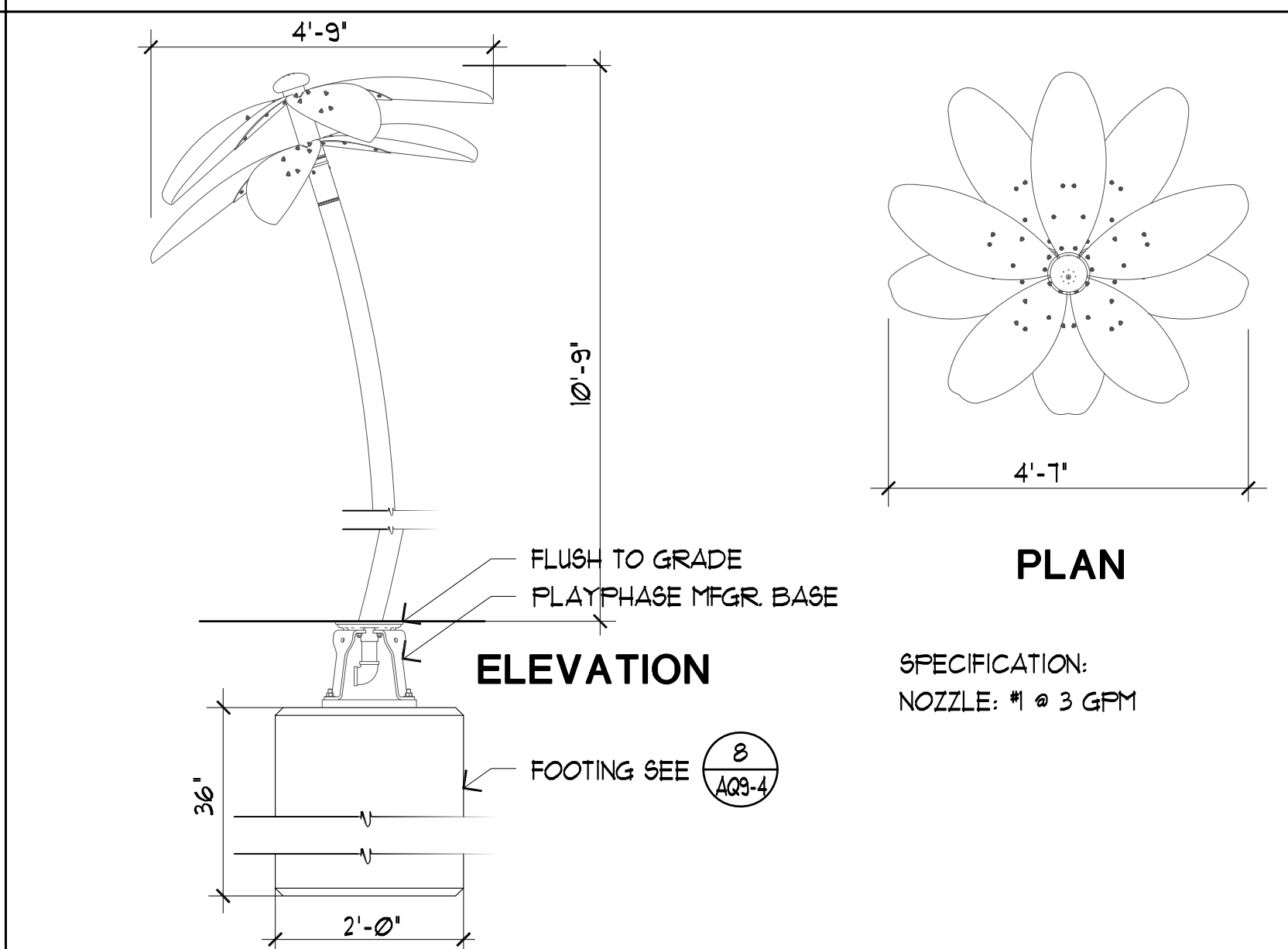
PLAN

ELEVATION

SPECIFICATION:
NOZZLE: #1 @ 3 GPM

4 TRILLY WILLY WINDY FREE STANDING WET PLAY FEATURE

SCALE: 1"=1'-0"



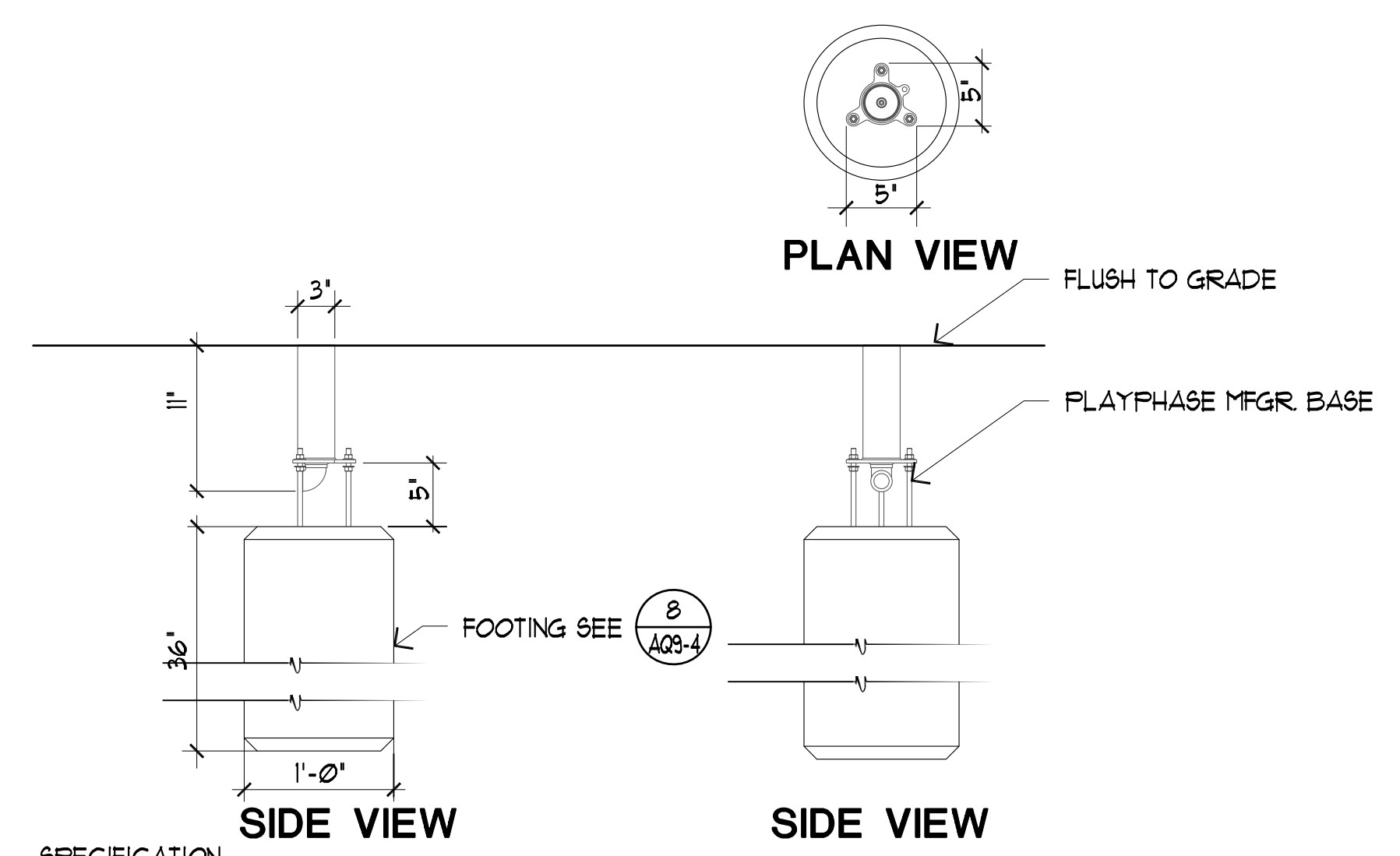
PLAN

ELEVATION

SPECIFICATION:
NOZZLE: #1 @ 3 GPM

5 DAISY MAY WINDY FREE STANDING WET PLAYFEATURE

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



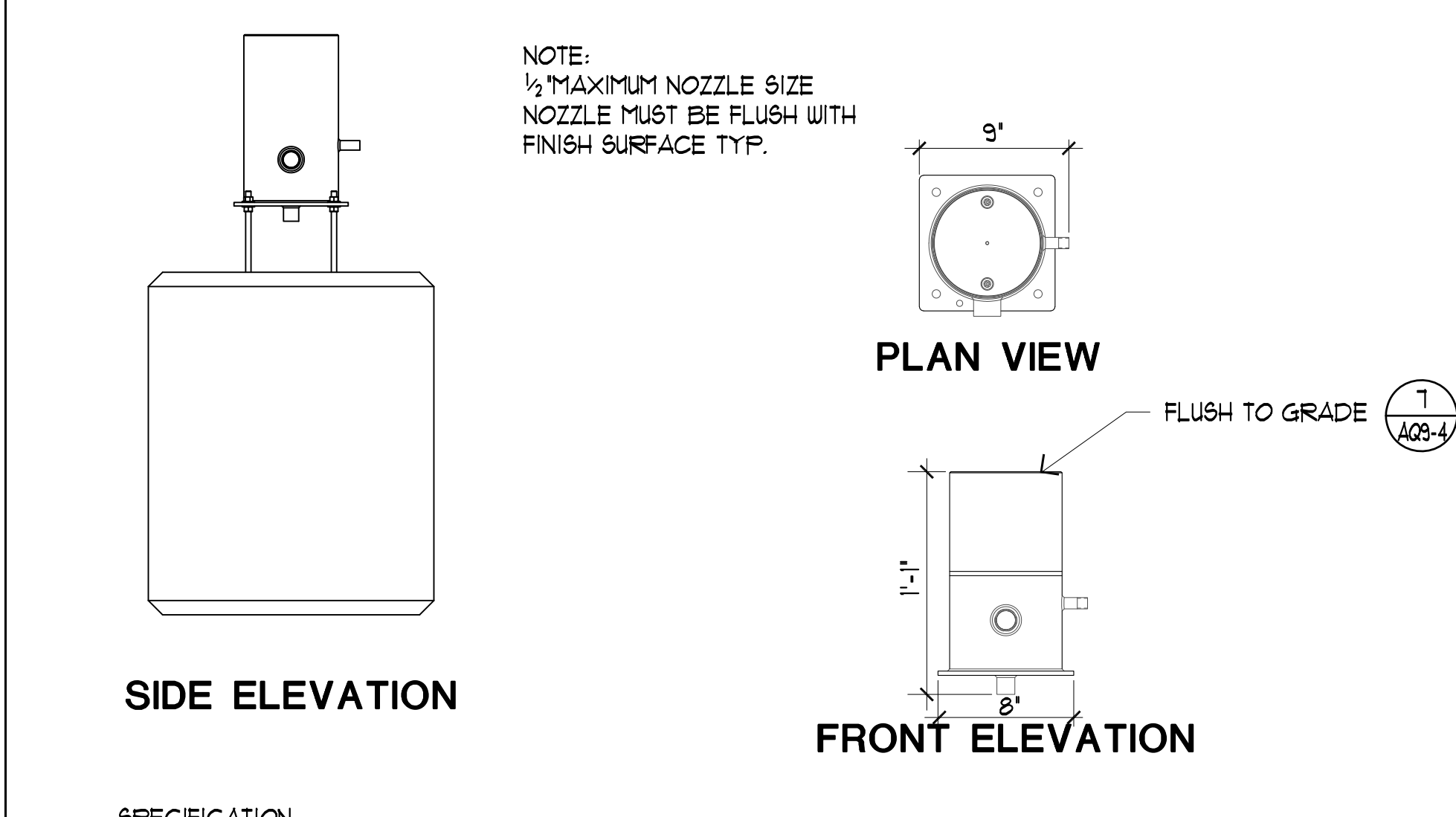
PLAN VIEW

SIDE VIEW

SPECIFICATION:
NOZZLES: N/A @ 6-GPM

7 TULIP GROUND SPRAY

SCALE: 1"=1'-0"



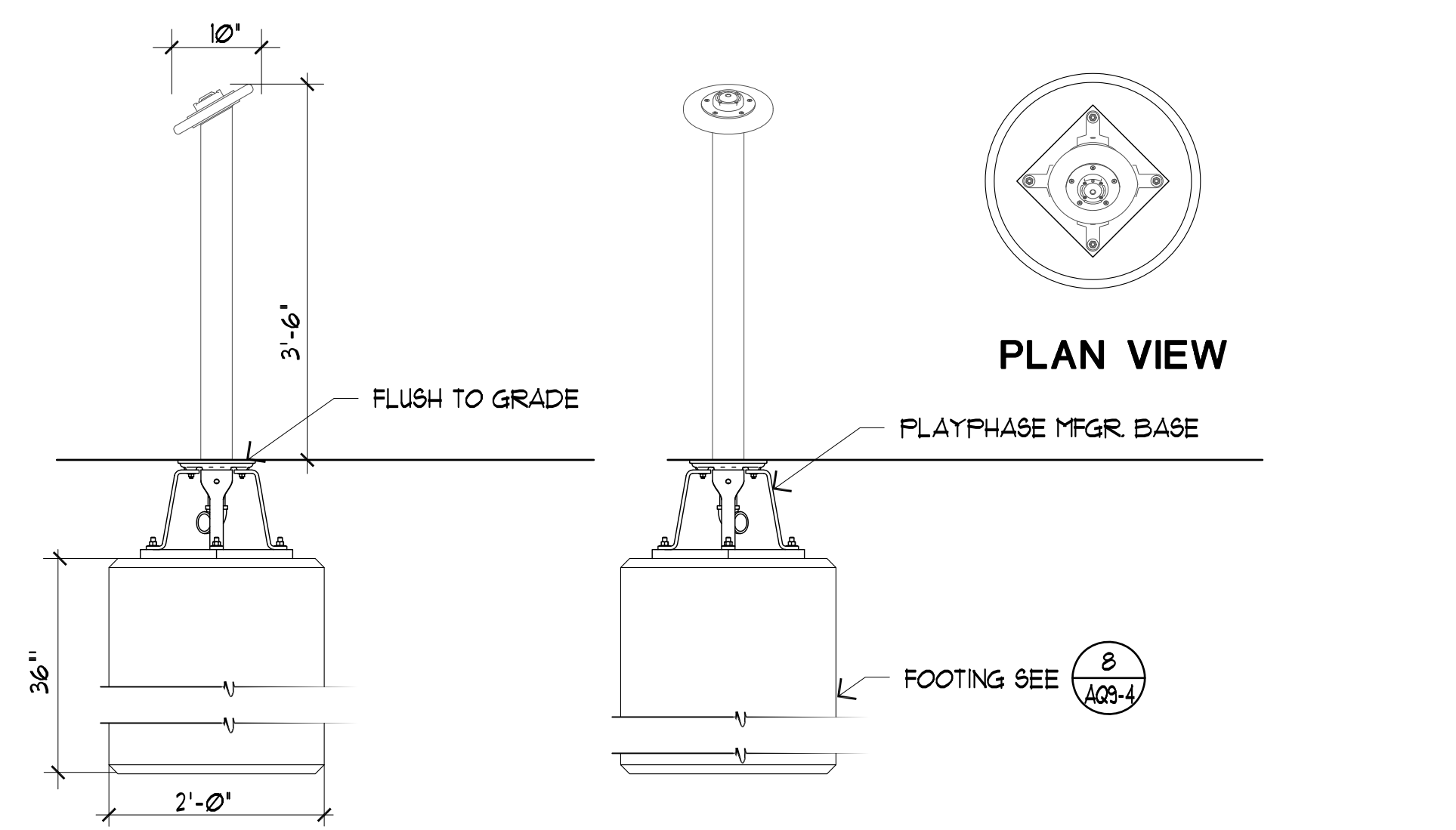
PLAN VIEW

FRONT ELEVATION

SPECIFICATION:
NOZZLES: N/A @ 1-GPM

8 TILTI-POP-IT WET PLAY GROUND SPRAY

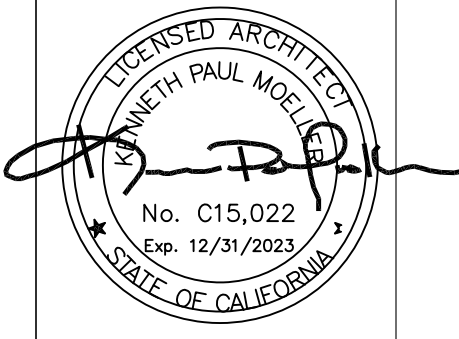
SCALE: 1 1/2"=1'-0"



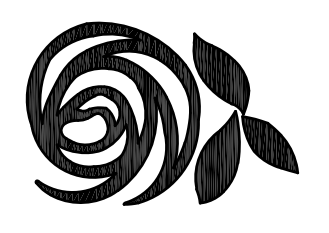
SIDE ELEVATION
ACTIVATOR

FRONT ELEVATION

SCALE: 1"=1'-0"



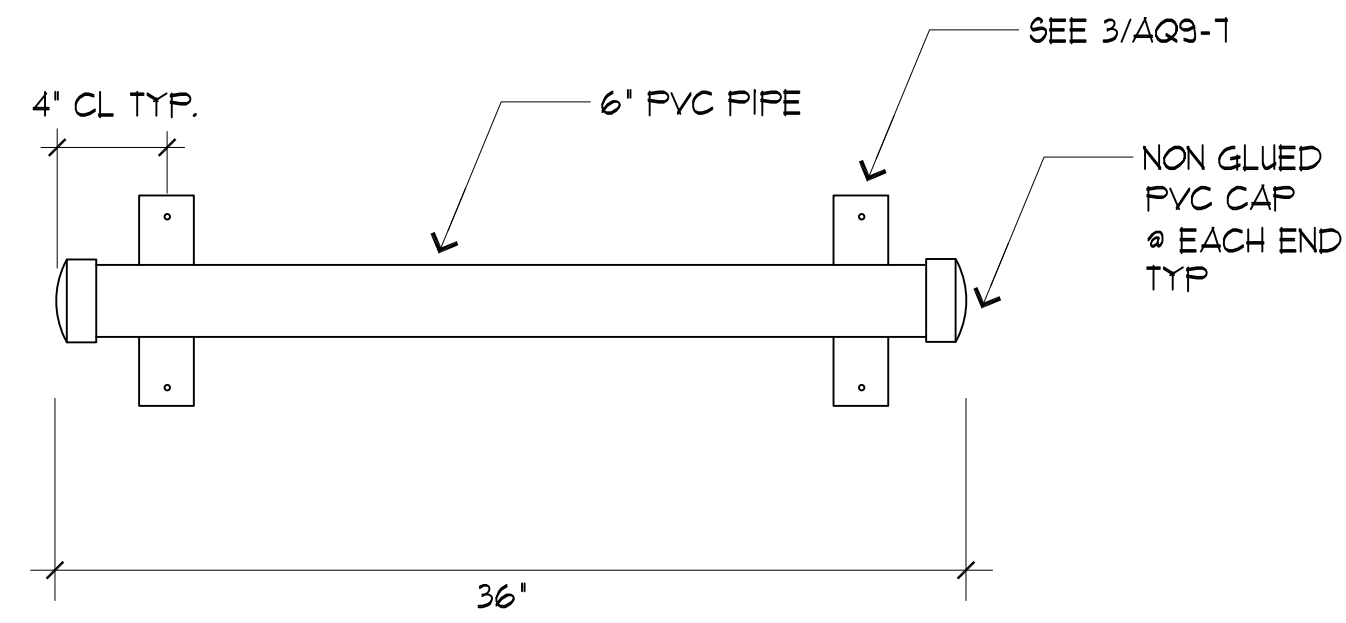
City of
Santa Rosa



ARCH-JAY
ARCHITECTS
2011 Pioneer Airport Road, Suite 101
Caldwell, CA 95011
709.724.1800

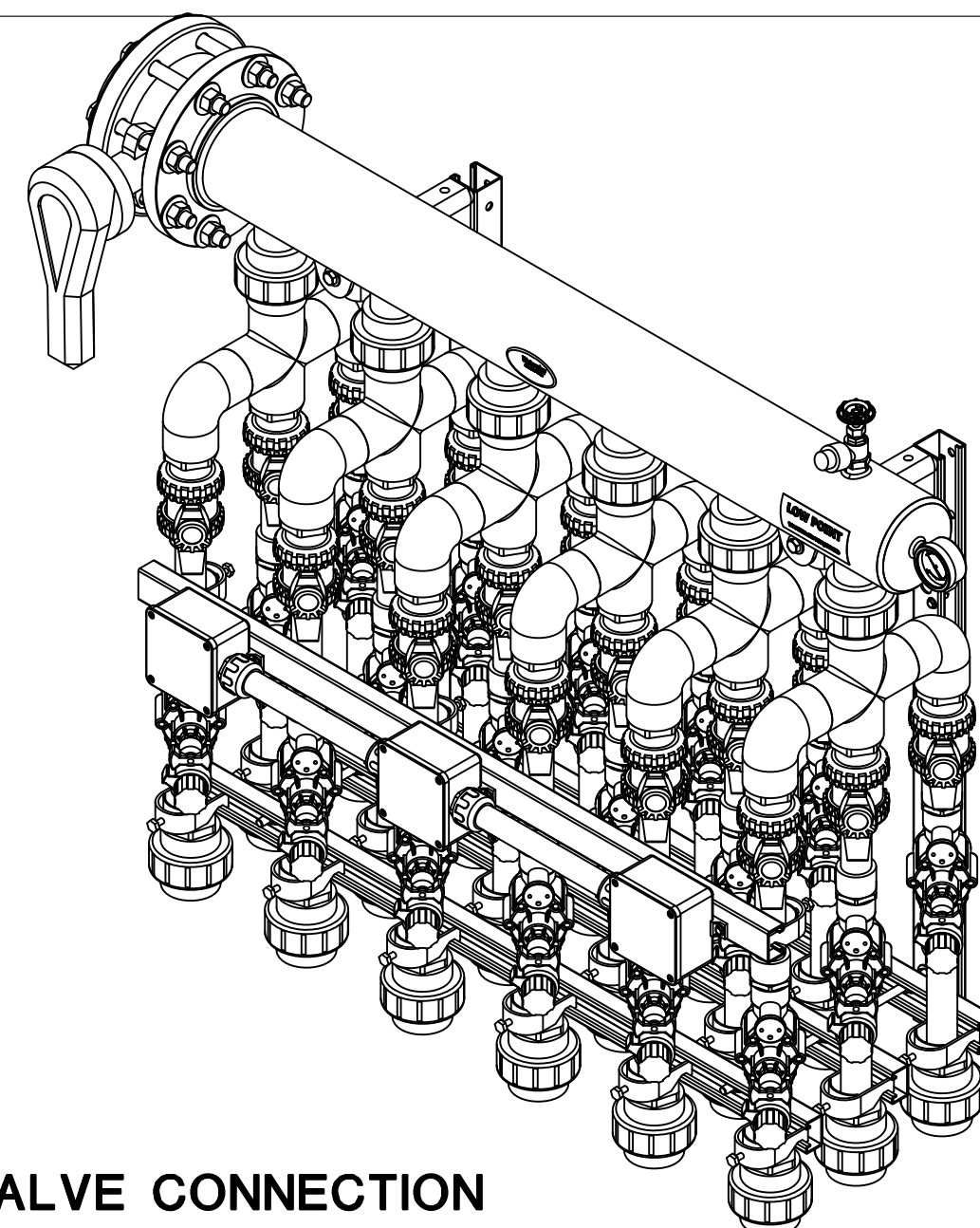
NO.	DATE	REVISION	BY

DWN BY: KM	CHK BY: --	DATE: 6/9/2023	SCALE: 3/8"=1'-0"
FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION PROJECT		AC09.6 SPLASH PAD DETAILS	
CONTRACT NO. C02336			
MODEL 48 OF 68			
FILE NO. 2022-014			



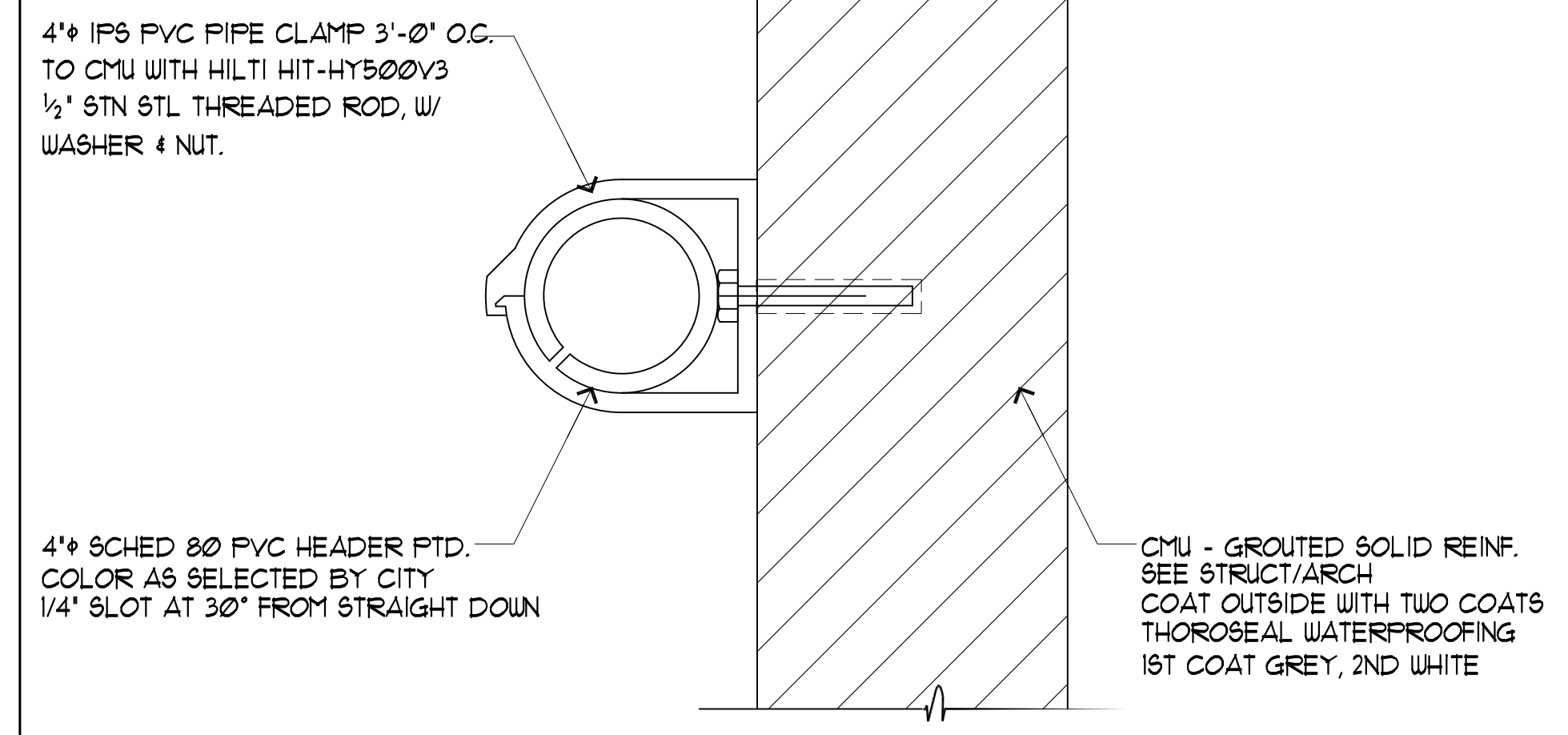
1 AS-BUILT PLAN HOLDER

SCALE: NTS



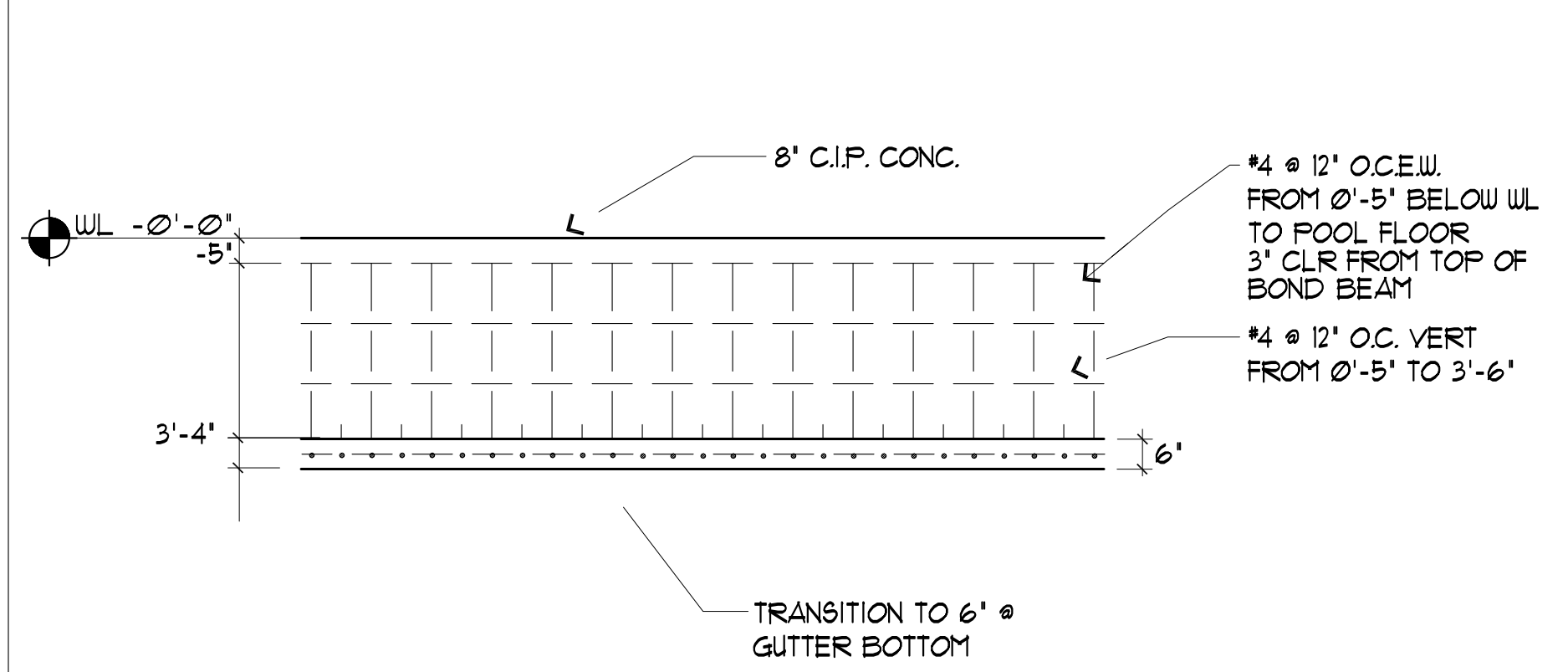
2 MANIFOLD VALVE CONNECTION

24V 18AWG WIRE TO EA VALVE & TO AUTOMATED CONTROLLER (4/AQ4.1) NTS



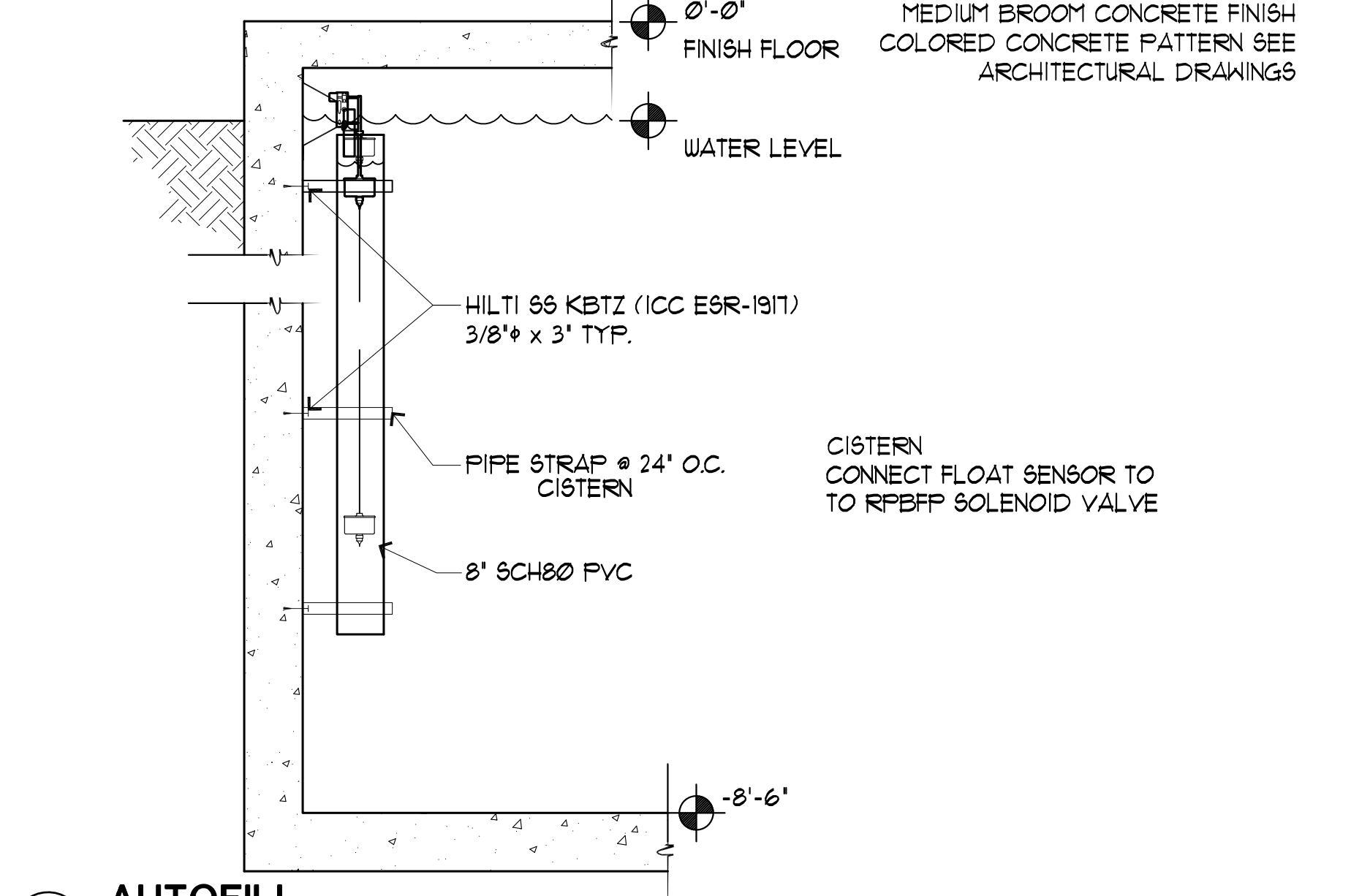
3 WATERFALL TO BUILDING CONNECTION

SCALE: 3/4" = 1'-0"



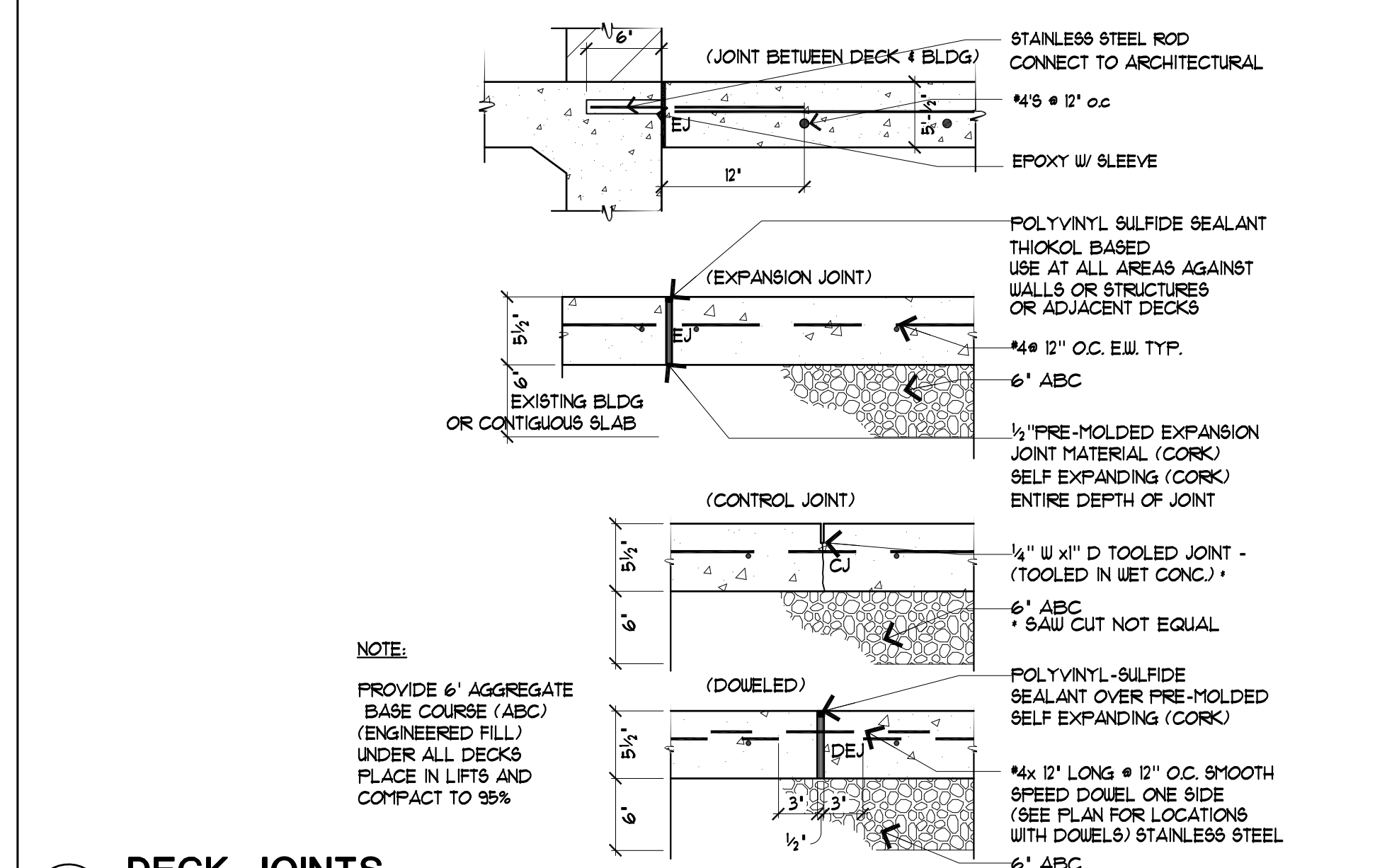
4 REINFORCEMENT ELEVATION AT WALL (GUTTER)

SCALE: 3/8" = 1' 0"



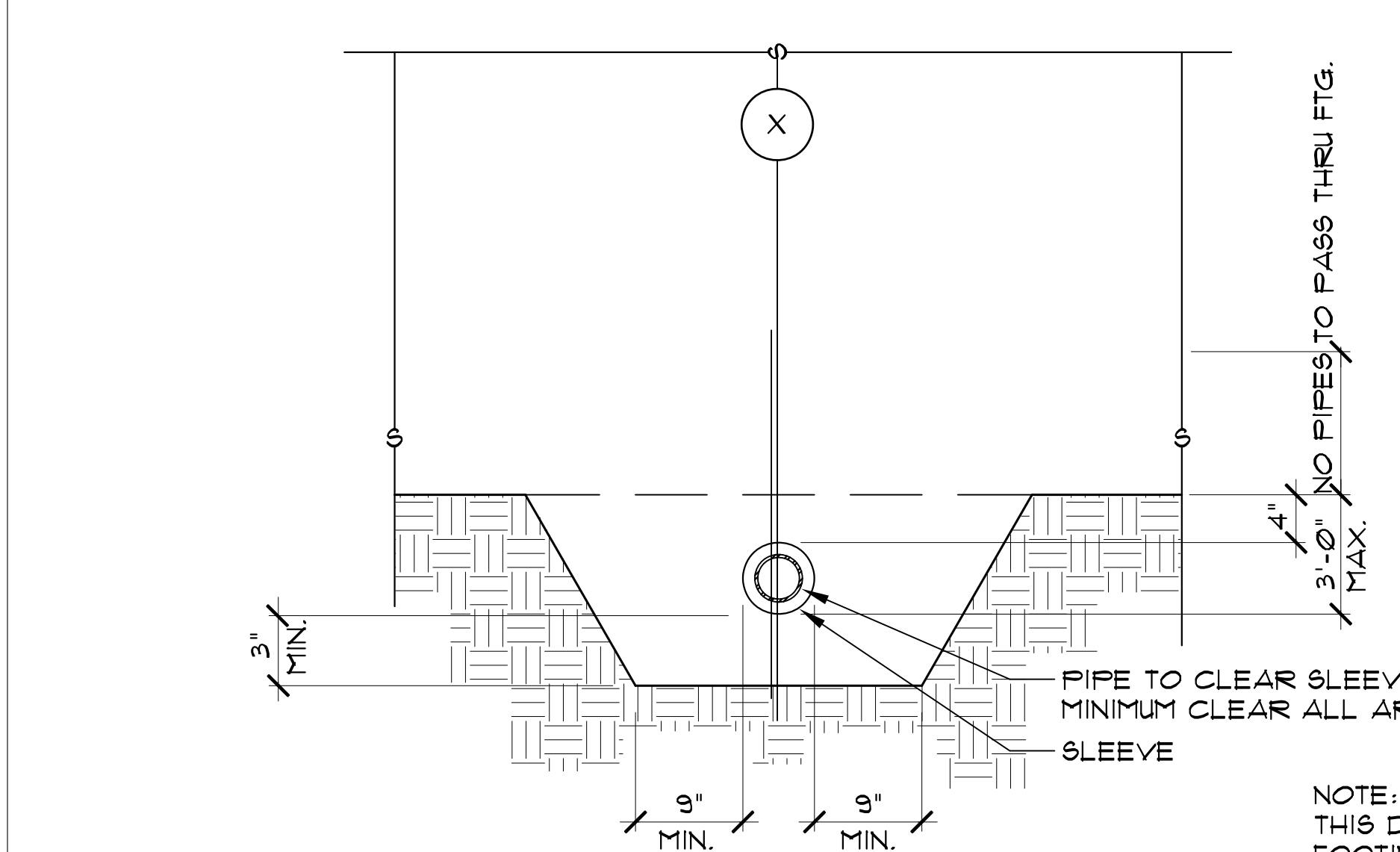
5 AUTOFILL

NTS



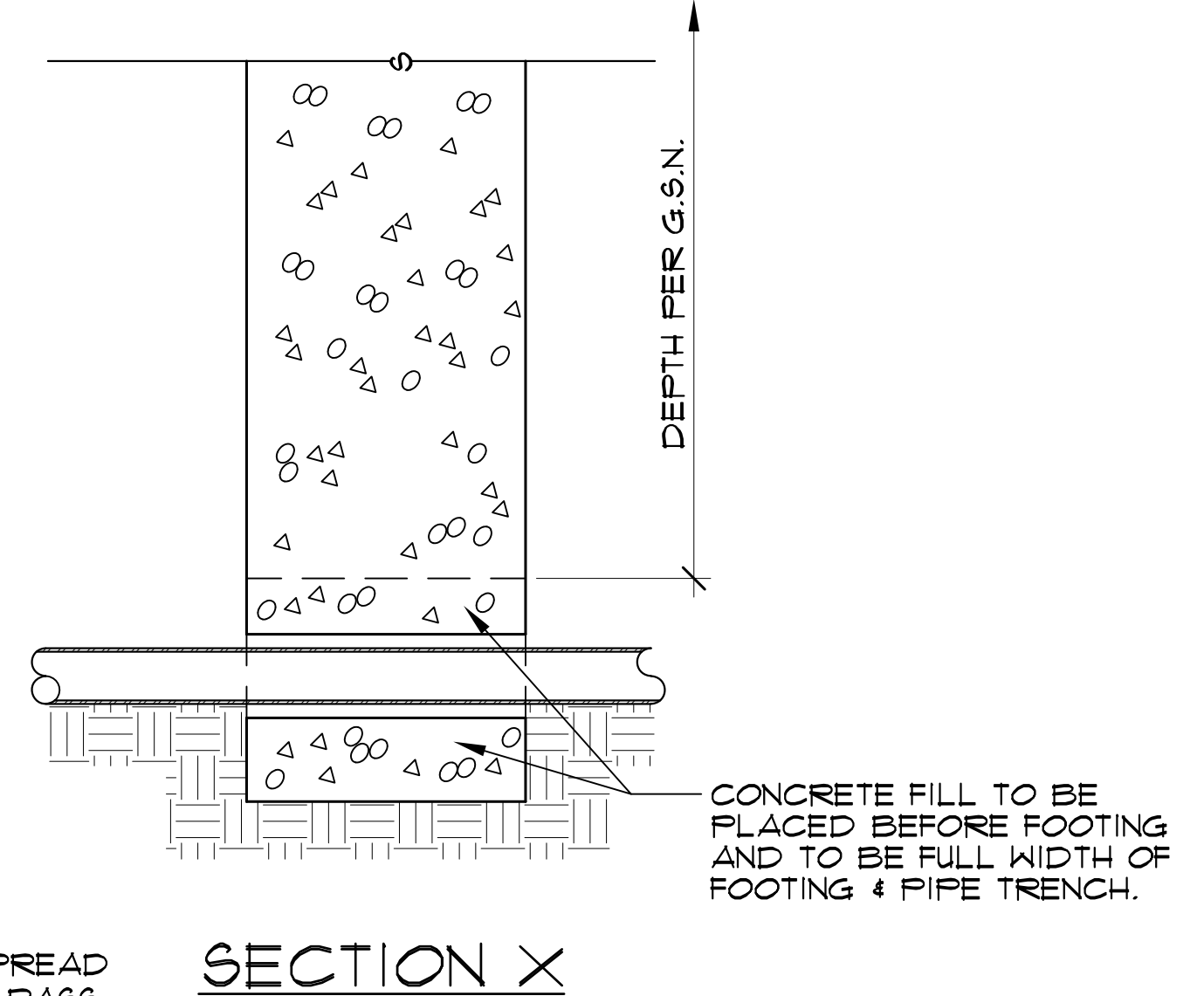
6 DECK JOINTS

SCALE: NTS

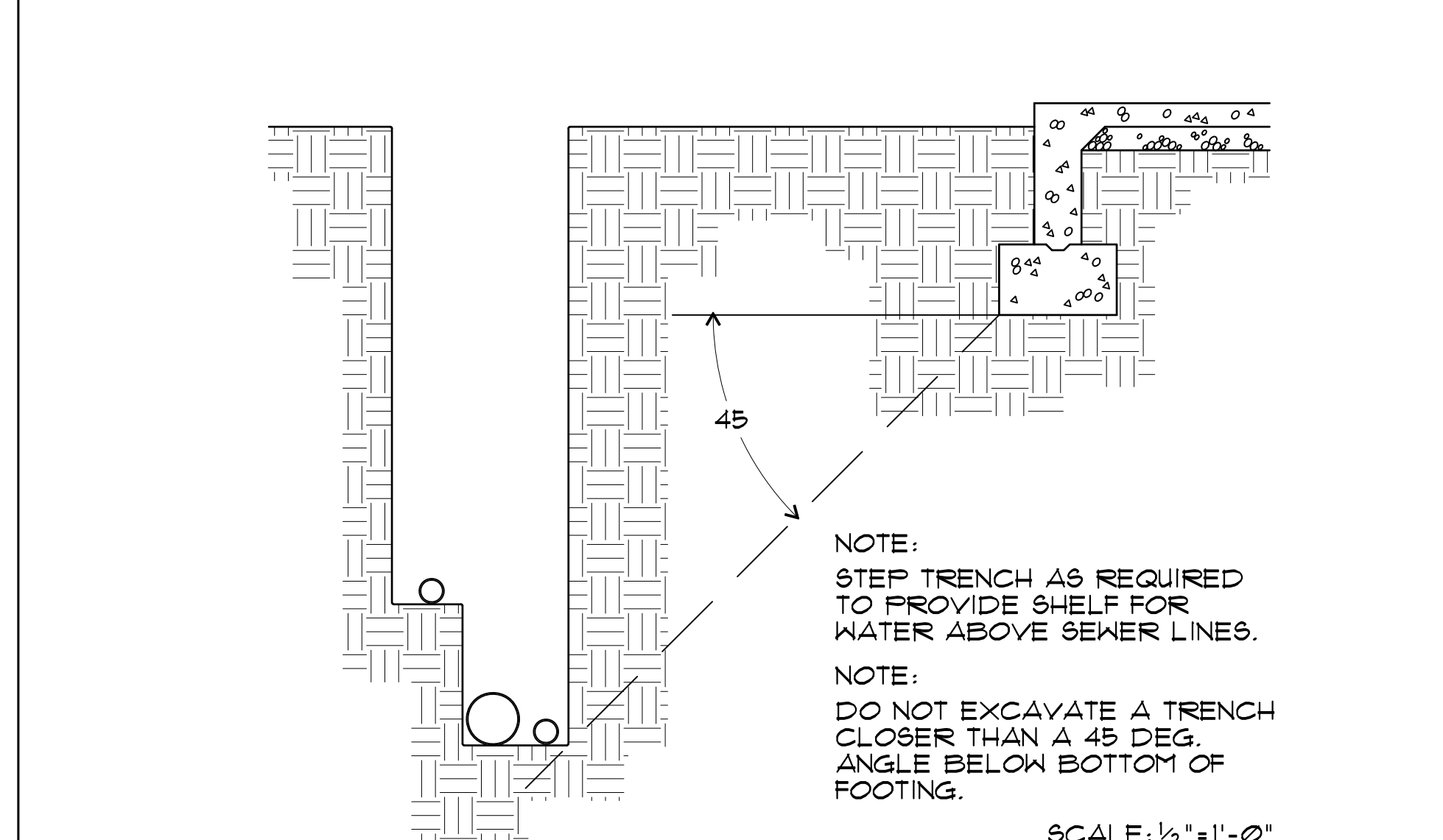


7 PIPE UNDER FOOTING (TYPICAL)

SCALE: 1" = 1'-0"

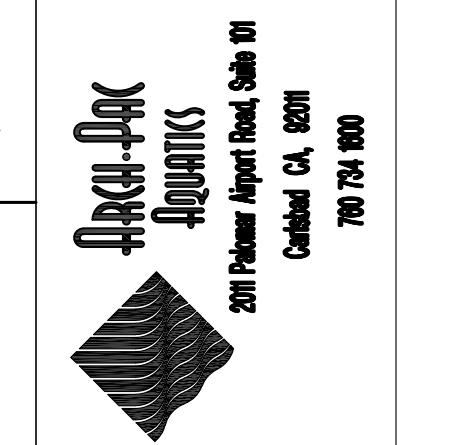
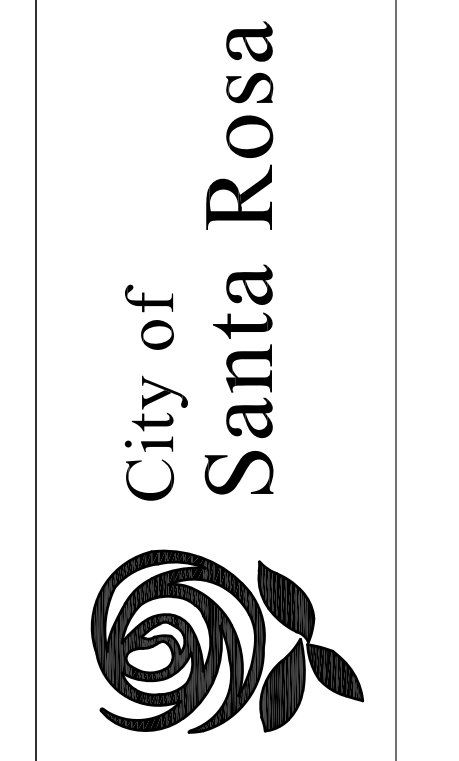
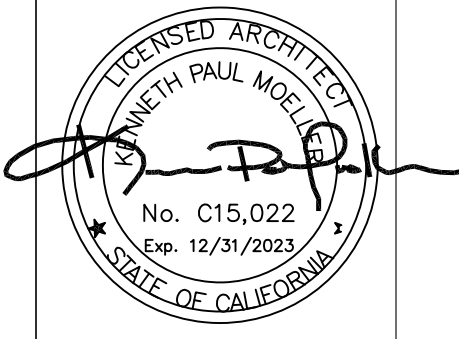


SECTION X



9 TRENCH PARALLEL TO FOOTING TYP.

NTS

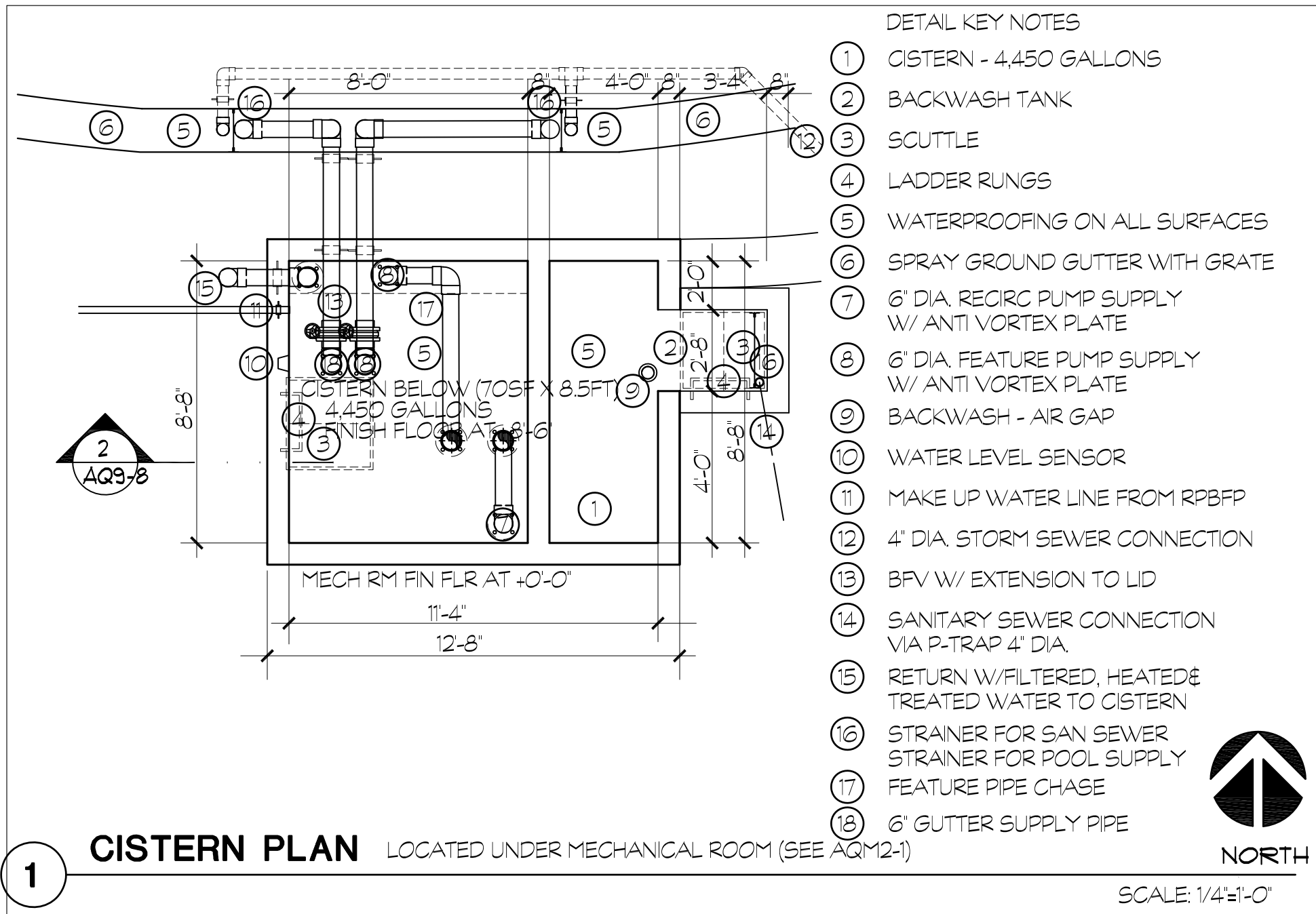


NO.	DATE	REVISION	BY

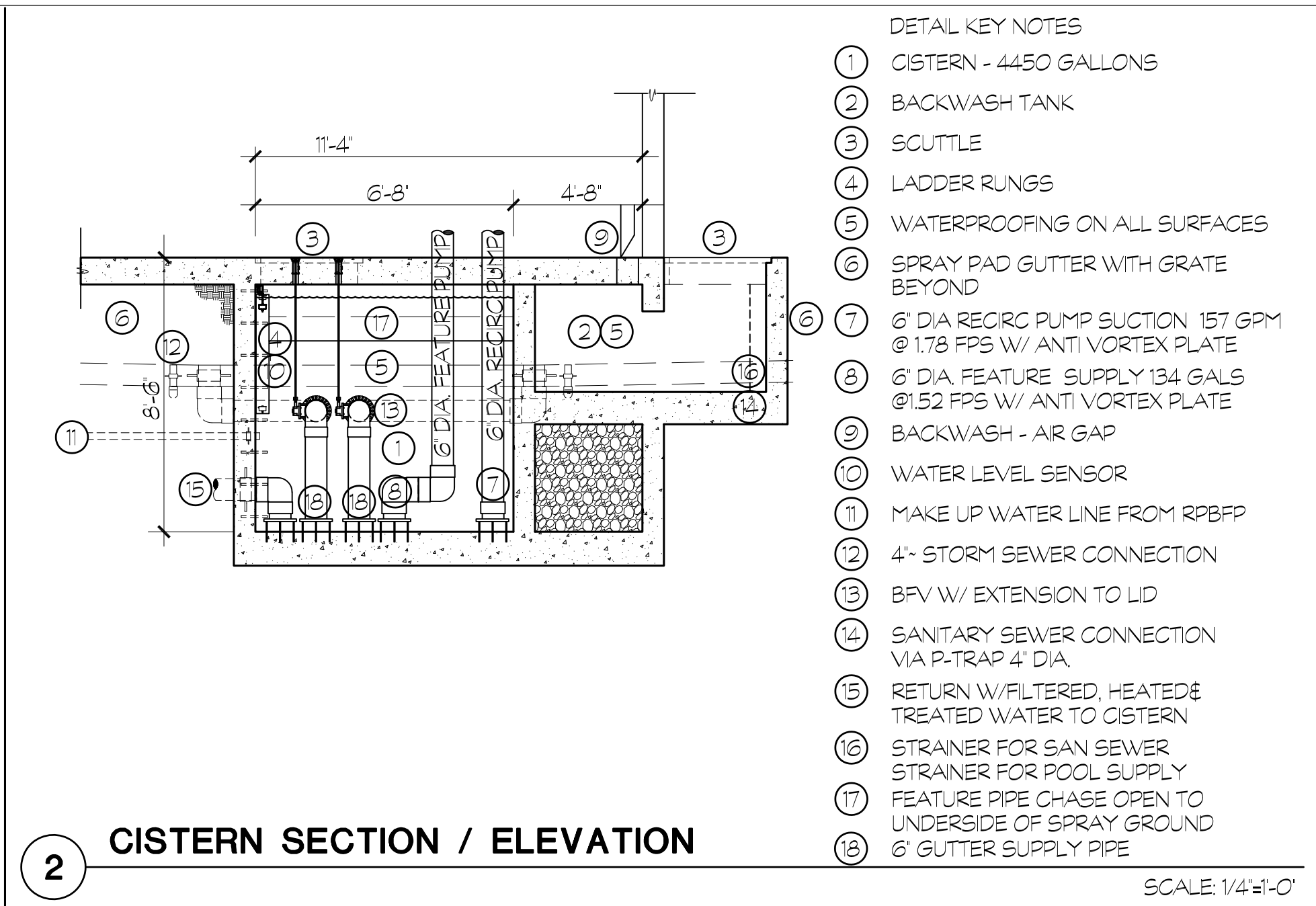
FINLEY AQUATIC CENTER
 SPRAY GROUND AND RENOVATION PROJECT
 AC09.7
 SPLASH PAD DETAILS

DWN BY: KM
 CHK BY: --
 DATE: 6/9/2023
 SCALE: 3/4" = 1'-0"

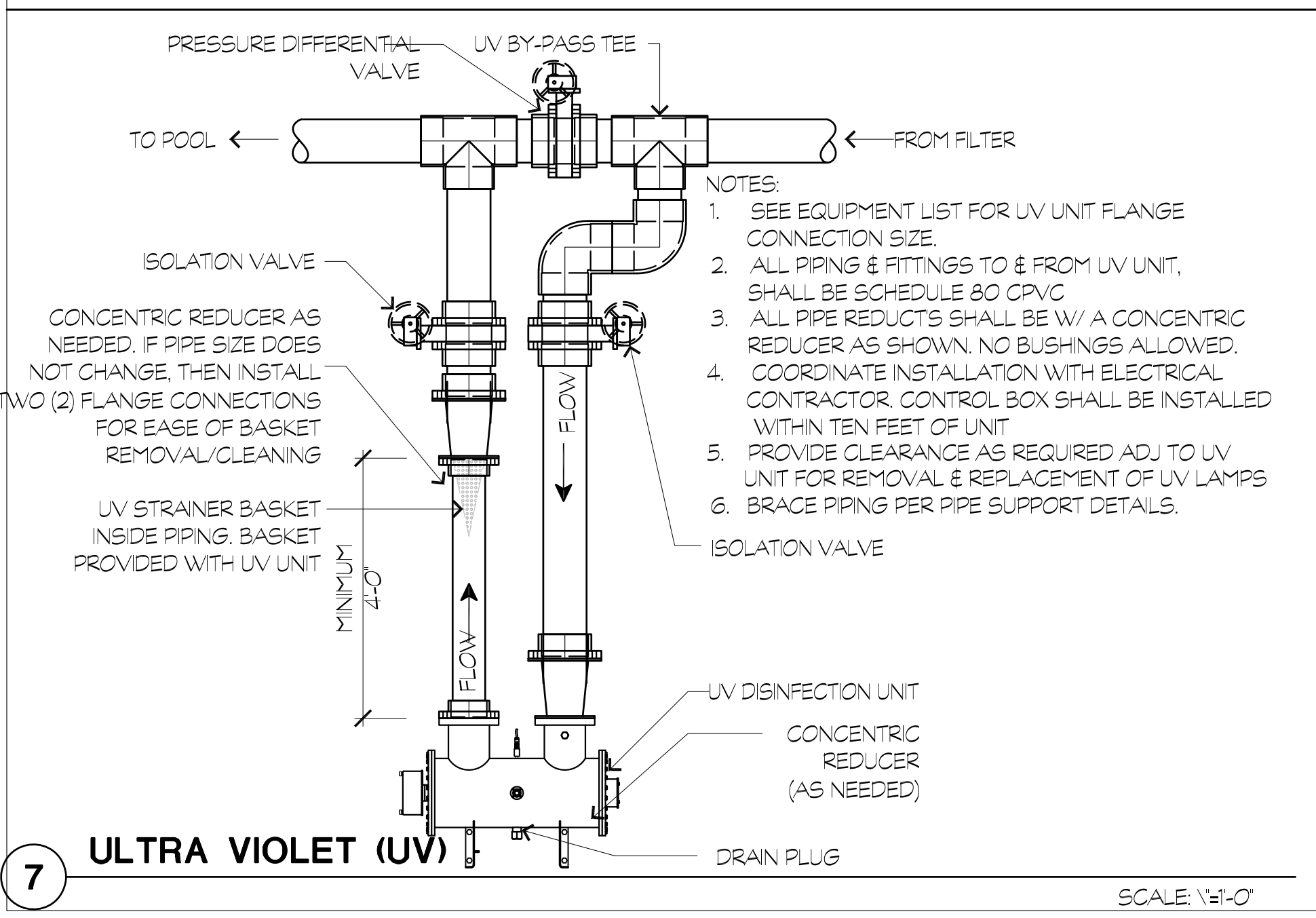
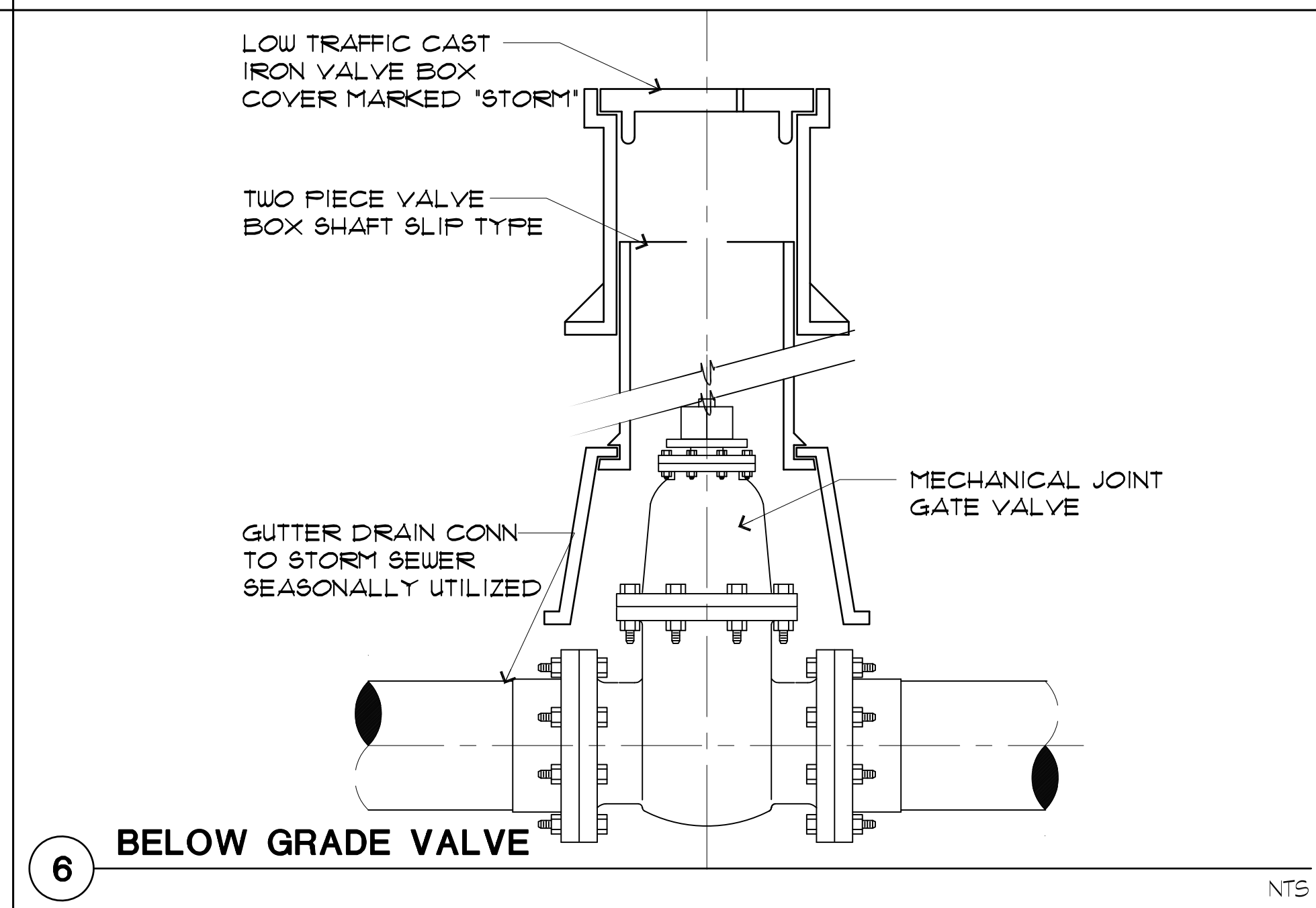
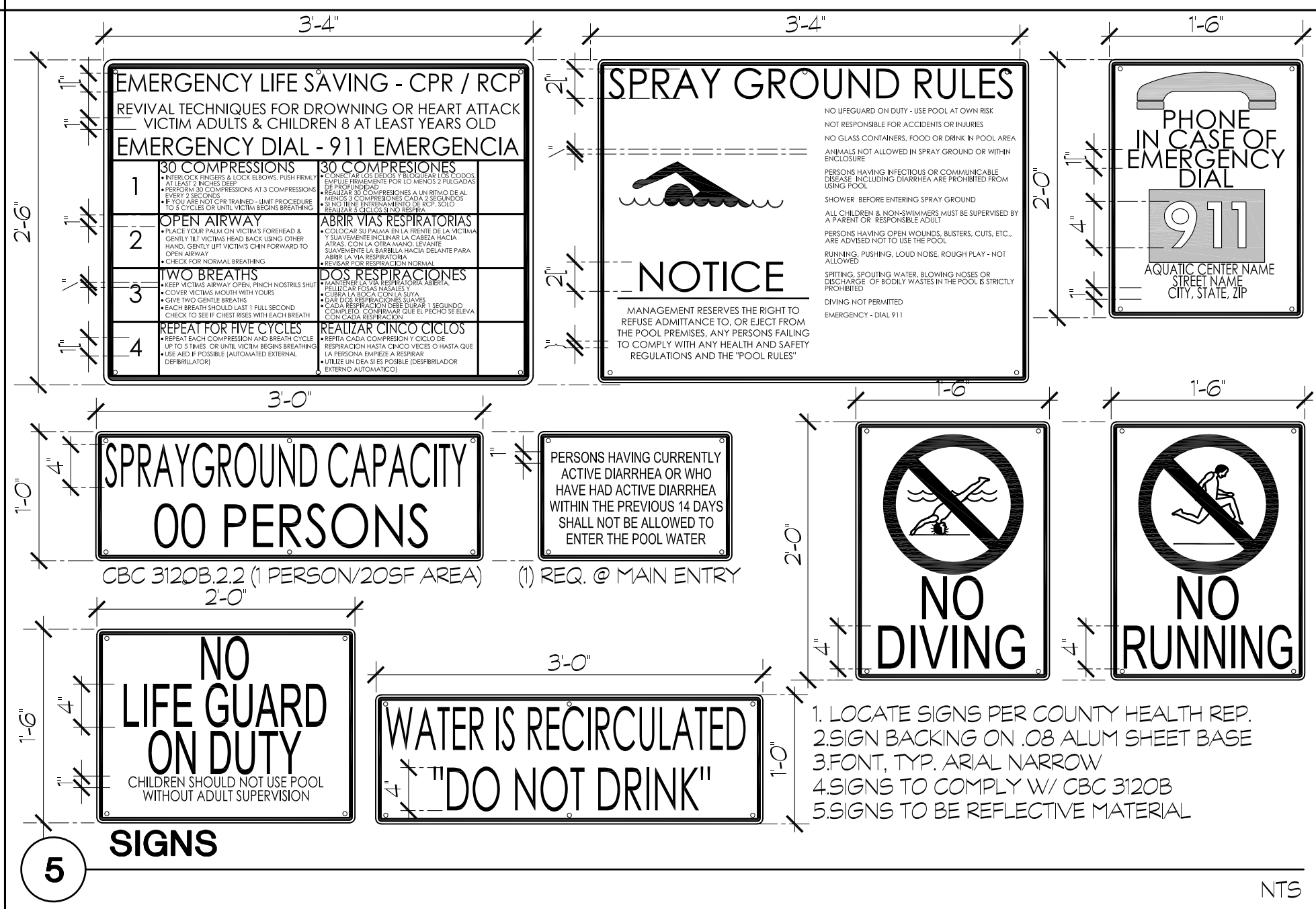
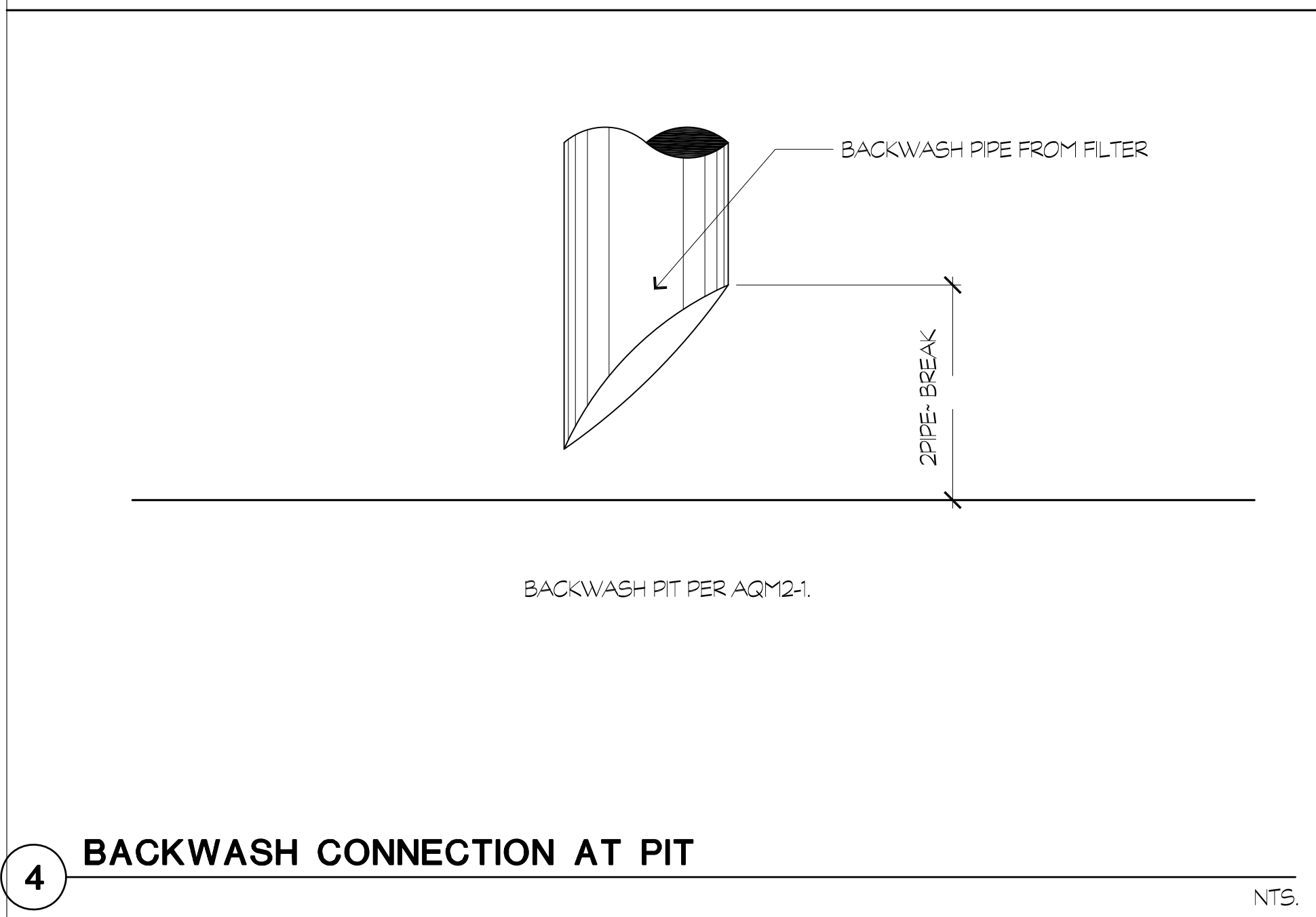
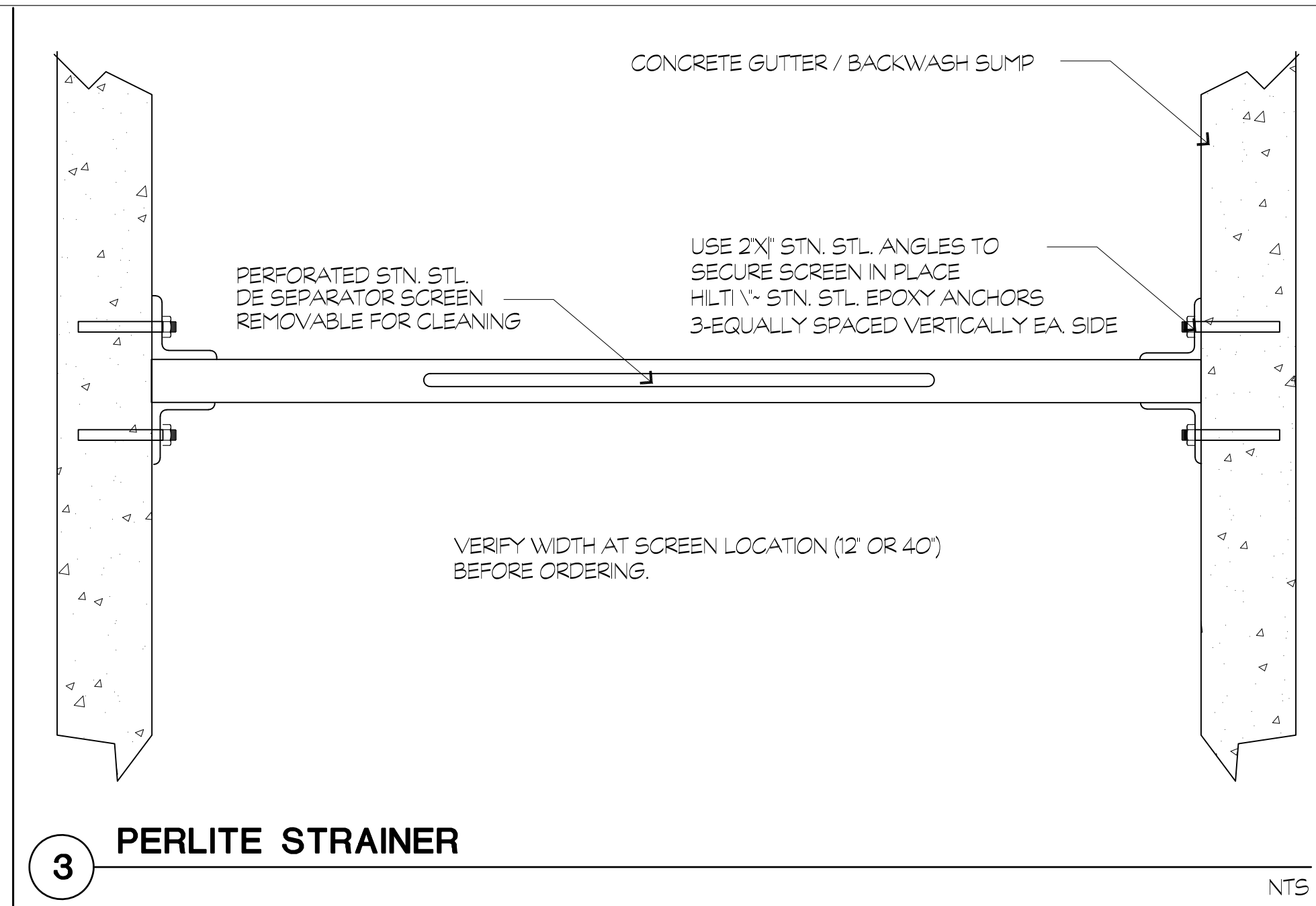
CONTRACT NO. C02336
 MODEL 49 OF 68
 FILE NO. 2022-014



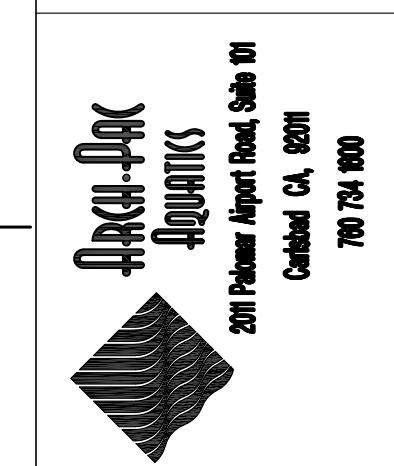
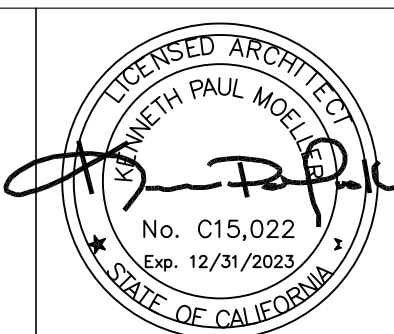
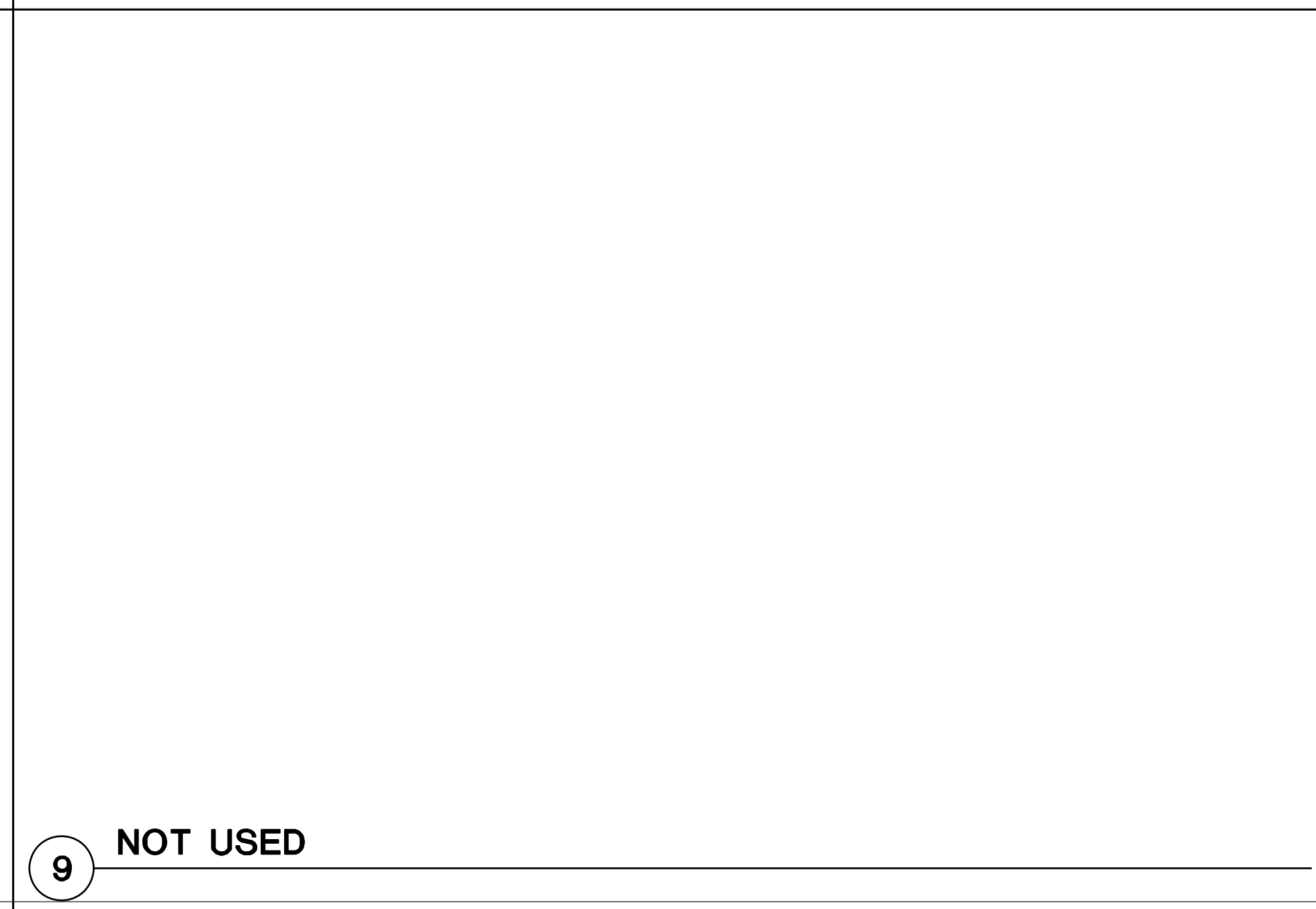
- DETAIL KEY NOTES
- 1 CISTERN - 4450 GALLONS
 - 2 BACKWASH TANK
 - 3 SCUTTLE
 - 4 LADDER RUNGS
 - 5 WATERPROOFING ON ALL SURFACES
 - 6 SPRAY GROUND GUTTER WITH GRATE
 - 7 6" DIA. RECIRC PUMP SUPPLY W/ ANTI VORTEX PLATE
 - 8 6" DIA. FEATURE PUMP SUPPLY W/ ANTI VORTEX PLATE
 - 9 BACKWASH - AIR GAP
 - 10 WATER LEVEL SENSOR
 - 11 MAKE UP WATER LINE FROM RPBFP
 - 12 4" DIA. STORM SEWER CONNECTION
 - 13 BVF W/ EXTENSION TO LID
 - 14 SANITARY SEWER CONNECTION VIA P-TRAP 4" DIA.
 - 15 RETURN W/ FILTERED, HEATED & TREATED WATER TO CISTERN
 - 16 STRAINER FOR SAN SEWER STRAINER FOR POOL SUPPLY
 - 17 FEATURE PIPE CHASE
 - 18 6" GUTTER SUPPLY PIPE



- DETAIL KEY NOTES
- 1 CISTERN - 4450 GALLONS
 - 2 BACKWASH TANK
 - 3 SCUTTLE
 - 4 LADDER RUNGS
 - 5 WATERPROOFING ON ALL SURFACES
 - 6 SPRAY PAD GUTTER WITH GRATE BEYOND
 - 7 6" DIA. RECIRC PUMP SUPPLY 157 GPM @ 1.78 FPS W/ ANTI VORTEX PLATE
 - 8 6" DIA. FEATURE SUPPLY 134 GALS @ 1.52 FPS W/ ANTI VORTEX PLATE
 - 9 BACKWASH - AIR GAP
 - 10 WATER LEVEL SENSOR
 - 11 MAKE UP WATER LINE FROM RPBFP
 - 12 4" STORM SEWER CONNECTION
 - 13 BVF W/ EXTENSION TO LID
 - 14 SANITARY SEWER CONNECTION VIA P-TRAP 4" DIA.
 - 15 RETURN W/ FILTERED, HEATED & TREATED WATER TO CISTERN
 - 16 STRAINER FOR SAN SEWER STRAINER FOR POOL SUPPLY
 - 17 FEATURE PIPE CHASE OPEN TO UNDERSIDE OF SPRAY GROUND
 - 18 6" GUTTER SUPPLY PIPE

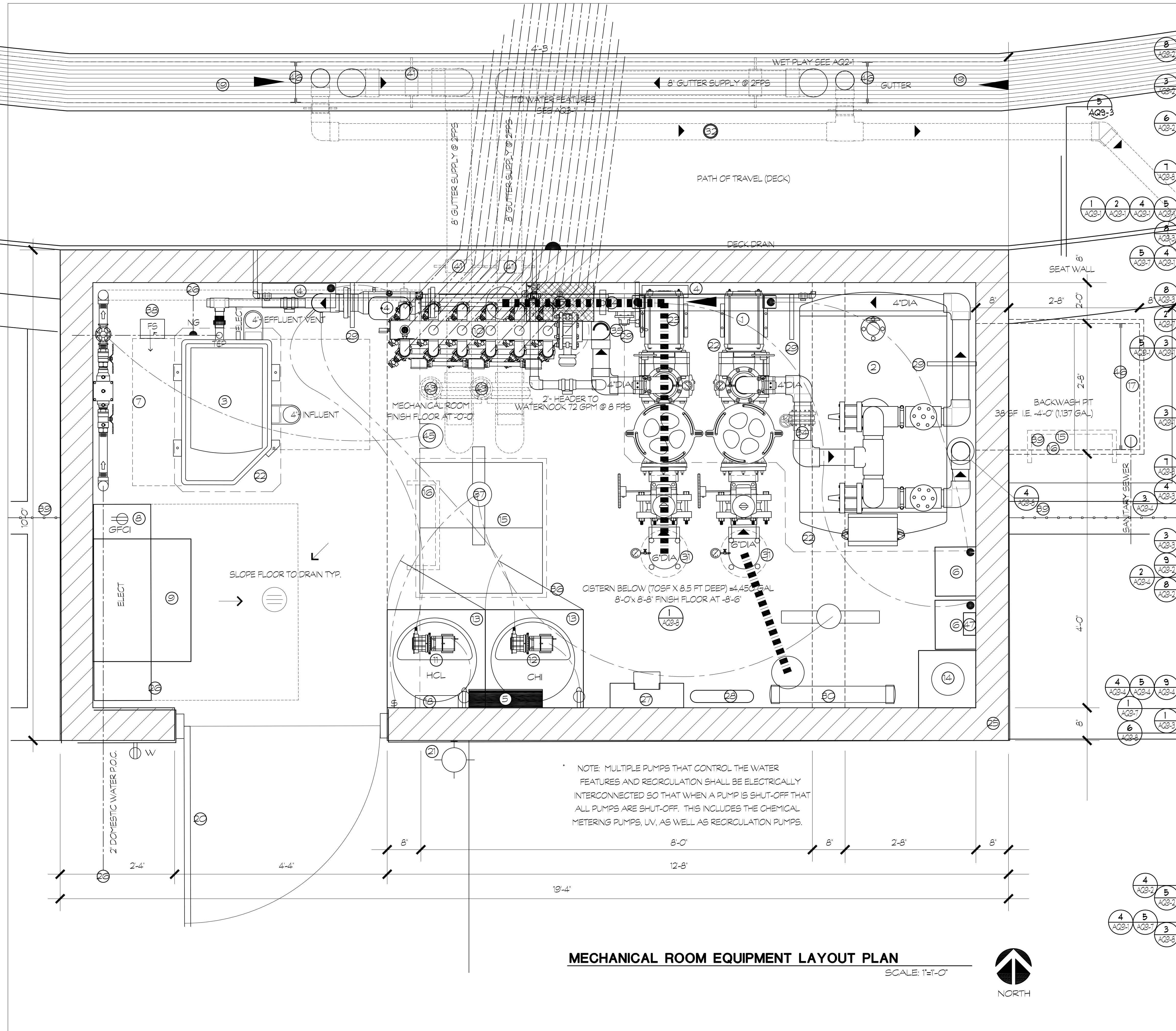


- NOTES:
1. SEE EQUIPMENT LIST FOR UV UNIT FLANGE CONNECTION SIZE.
 2. ALL PIPING & FITTINGS TO & FROM UV UNIT, SHALL BE SCHEDULE 80 CPVC.
 3. ALL PIPE REDUCTS SHALL BE W/ A CONCENTRIC REDUCER AS SHOWN. NO BUSHINGS ALLOWED. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. CONTROL BOX SHALL BE INSTALLED WITHIN TEN FEET OF UNIT.
 4. PROVIDE CLEARANCE AS REQUIRED ADJ TO UV UNIT FOR REMOVAL & REPLACEMENT OF UV LAMPS.
 5. BRACE PIPING PER PIPE SUPPORT DETAILS.



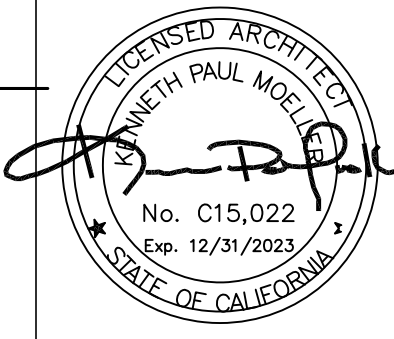
NO.	DATE	REVISION	BY

DWN BY: KM	CHK BY: --	DATE: 6/9/2023	SCALE: 1/4" = 1'-0"
FINLEY AQUATIC CENTER			
SPRAY GROUND AND RENOVATION PROJECT			
AQ09.8			
SPLASH PAD DETAILS			
CONTRACT NO. C02336			
MODEL 50 OF 68			
FILE NO. 2022-014			

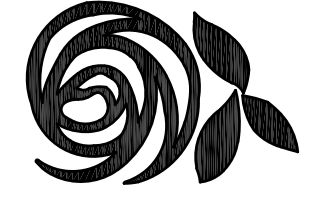


- ### KEY NOTES:
- RECIRCULATION PUMP 208-230/460 3 PHASE (13.5-12.3/6.2)AMPS PENTAIR EQK-500, 5HP #340604, 3450 RPM, 157 GPM@60TDH (6' X 4') WITH INTEGRAL STRAINER, SELF-PRIMING, TEFC.
 - FILTER (HIGH RATE SAND) W/ 4" - PIPING & AUTOMATION EPD 42X48" - 13.5 SF. WITH VALVES, 23 CU FT MEDIA & CONTROLLER MODEL #150 (31" BY 61) STL. 4,000 LBS
 - HEATER (NATURAL GAS) RAY PAK X94 399K BTU, MODEL# S-R410 WITH 4" VENT INTAKE & EXHAUST. [- NG CONNECTION, 2" WATER @ 40 GPM MIN. WT= 300 LBS - W/TEP VALVE 120V 5.0A
 - ULTRA VIOLET SANITIZER SAFEGUARD UV. CLS - 4390 AC MODEL # 4390A6 390W IN / 126W OUT RATED AT 172 GPM 120V
 - AUTOMATED CONTROLLER BECS SYSTEM 5 10A/110V - CONTROLS METERING PUMP RECPEACLE VARIABLE FREQUENCY DRIVE
 - PENTAIR ACUDRIVE XS (5HP) 460 V 3- REDUCED PRESSURE BACKFLOW PREVENTER MAKE-UP WATER CONTROLLER (1 INCH) FEBCO WITH CLA-VAL ACTUATED VALVE 850/LF850
 - ELECTRICAL SERVICE ENT. & PANEL (WALL MOUNTED) SEE ELECT TRANSFORMER (OVERHEAD - WALL MOUNTED) SEE ELECT
 - WET PLAY FEATURE MANIFOLD CONNECT TO WTS80 CONTROLLER (45)
 - DILUTE ACID STORAGE (10%) - STENNER DUAL CONTAINMENT TANK (7.5 GALLON STORAGE) & METERING PUMP - LMI MODEL HH911-98755 @ .14 GPH MAX 300PSI CONTROLLED BY AUTO CONTROLLER - 110V CORD WITH PLUG TO DUPLEX OUTLET CONTROLLED BY AUTO CONTR.
 - LIQUID CHLORINE STORAGE (12.5%) - STENNER DUAL CONTAINMENT TANK (5 GALLON STORAGE) & METERING PUMP - LMI 911-98755 RATED @ 114 GPH @ 300PSI CONTROL BY AUTO CONTROLLER - 110V
 - HAZ-MAT CABINET MOUNTED TO WALL - TO RESIST SEISMIC FORCES SEPARATE DEDICATED CABINET FOR EACH CHEMICAL THOMAS SCIENTIFIC #13PS4 LEFT HINGED 22" X 35.1 HIGH
 - EXHAUST FAN - PADDOCK ROOM EVACUATOR 120V GFCI WITH DUCT PACKAGE 53W
 - SCUTTLE TO BACKWASH PIT & CISTERN
 - M.S. INDUSTRIES PVC LADDER RUNGS @ 12" O.C.
 - SANITARY SEWER CONNECTION 4" VIA P-TRAP IN BOTTOM OF SUMP
 - HAZ-MAT INFORMATION STATION
 - PVC PARALLEL GRATING - COLOR TO BE SELECTED BY CITY
 - 4'-0" WIDE BY 7'-0" FULLY LOULVERED FIBERGLASS DOOR (SEE ARCH)
 - HAZ-MAT SIGNAGE
 - CONCRETE EQUIPMENT PAD WITH SEISMIC RESTRAINT
 - FEATURE SUPPLY PUMP - 460V 3 PHASE PENTAIR EQ-500, 5HP #340030 OR #34003 BASED ON VOLTAGE WITH INTEGRAL STRAINER, 134 GPM @ 60TDH SELF-PRIMING (6' X 4')
 - BLUE/WHITE FLOW METER
 - BUILDING (12'-0" BY 20'-0") WITH 8'-0" CLR TO CEILING - SEE ARCH
 - UTILITY POINT OF CONNECTION
 - PORTABLE WALL MOUNTED GRAVITY FED EYEWASH HAWS 7501
 - FIRE EXTINGUISHER OVAL 4A:80B:C 10 LBS WALL MOUNTED WITH SIGN
 - PIPE HANGAR
 - AS-BUILT DOCUMENT FOR MAINTENANCE & OPERATIONS (LABELED)
 - ANTI-VORTEX PLATE
 - 4" SCHED 80 PVC TO STORM SEWER CATCH BASIN 1/2" SLOPE WITH GATE VALVE CONTROLLED THROUGH SLEEVE WITH TOOL FROM PLANTER WITH PVC COVER - DIVERTER OF STORM TO SEWER IN OFF SEASON
 - NOT USED
 - BFV
 - GAUGE
 - METAFIN BI PASS VALVE (PRESSURE SUSTAINING)
 - CISTERN
 - LIGHTING SEE ELECT
 - FLOOR SINK SEE PLUMBING
 - FENCE SEE ARCH
 -
 - WATER STOP AT PIPE PENETRATION
 - LINK SEAL AT WALL PENETRATIONS
 - BUTTERFLY VALVE W/ STN. STL. EXTENSION HANDLE TO FLOOR ABOVE
 - WATER LEVEL SENSOR CONNECT TO CAL VAL VALVE AT RPBFP
 - D.E. FILTER SCREEN, REMOVABLE AND CLEANABLE STN. STL.
 - TIMER ON FEATURE PUMP VFD / PUMP
- NOTE:
BOND AND GROUND ALL METAL COMPONENTS TYP. 1 9
ALL EQUIPMENT TO BE DIRECT CONNECTION TYP. U.O.N
THE RECIRCULATION SYSTEM SHALL BE IN OPERATION AT ALL TIMES THAT THE SPRAYGROUND IS OPEN FOR USE AND SHALL HAVE A MINIMUM OF FOUR (4) TURNOVER CYCLES PRIOR TO OPENING FOR PROPER DISINFECTION AND FILTRATION.

MECHANICAL ROOM EQUIPMENT LAYOUT PLAN
SCALE: 1/8"=1'-0"
NORTH



City of
Santa Rosa



ARCH-PAK
ARCHITECTS
2011 Pioneer Airport Road, Suite 101
Caldwell, CA 95011
707.734.1800

NO.	DATE	REVISION	BY

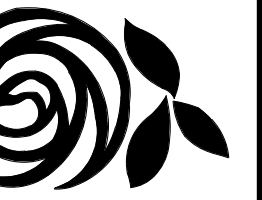
FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT
AQM2.1
MECH ROOM EQUIPMENT LAYOUT

DWN BY: KM
CHK BY: --
DATE: 6/9/2023
SCALE: 1/8" = 1'-0"

CONTRACT NO. C02336
MODEL 51 OF 68
FILE NO. 2022-014



City of
Santa Rosa



JKA
jeffrey katz
ARCHITECTURE

300 E STREET, SANTA ROSA, CA 95404
419.688.9177 | www.jkakatsoarchitecture.com

CONSTRUCTION NOTES CONCESSION

- 051 MODIFY (E) SS COUNTERTOP TO ACHIEVE 5" CLEAR DIM. FOR ADA PULL CLEARANCE AT DOOR. RESTORE FINISHED EDGE.
- 052 REMOVE EQUIPMENT AND STORED MATERIALS IN THIS AREA.
- 053 30" X 48" SIDE APPROACH MANEUVERING SPACE.
- 201 REMOVE PORTION OF CONCRETE WALL AND PREPARE FOR LOWERING S.S. SERVICE COUNTER. SEE 5/S1.2
- 202 (E) CONCRETE WALL
- 301 (E) COVER TO REMAIN
- 401 VERIFY IF (E) COILING COUNTER DOOR CAN OPERATE TO ENCLOSE THE ENLARGED OPENING. IF NOT, REPLACE ENTIRE COILING COUNTER DOOR OR ADD EXTENSION @ BOTTOM OF DOOR: 3" AND 5".
- 402 (E) 3' MAN DOOR WITH CLOSER
- 701 REMOVE FOR REINSTALLATION (E) S.S. SERVICES COUNTER. VERIFY GRADES @ INSIDE AND OUTSIDE FOR DISABLED ACCESS. REINSTALL LEVEL @ + 34" ABOVE LOWEST ADJACENT GRADE.
- 702 (E) S.S. COUNTERTOP IS AT + 38" AFF. REMOVE AND RELOCATE INDICATED PORTION FOR TOP + 34" AFF. ADJUST PLUMBING CONNECTIONS AS NECESSARY. PROVIDE FINISHED SS VERTICAL TRANSITION.
- 703 RELOCATED (E) S.S. SERVICE COUNTER

RESTROOM FIXTURE COUNT

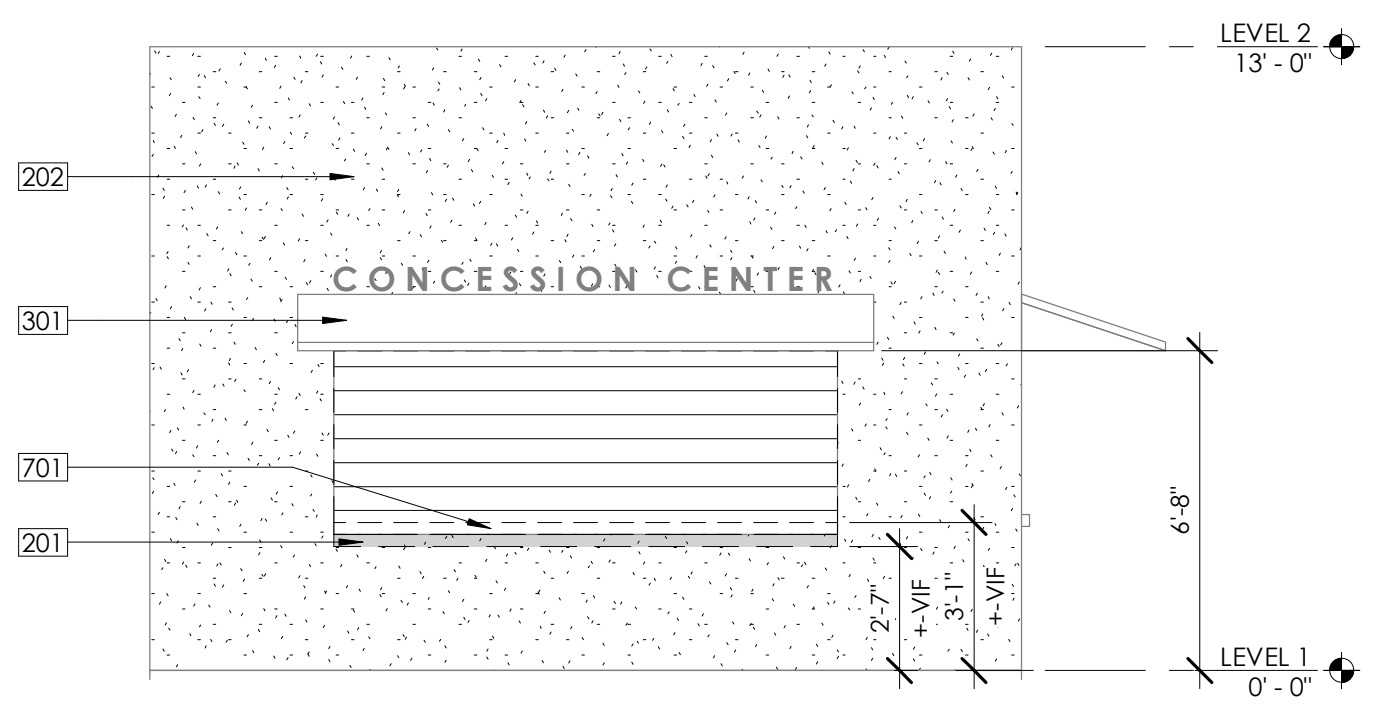
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TOILETS:	6
HAND SINKS:	6
URINALS:	3
EXISTING WOMEN'S	
TOILETS:	9
HAND SINKS:	6

NO.	DATE	REVISION	BY

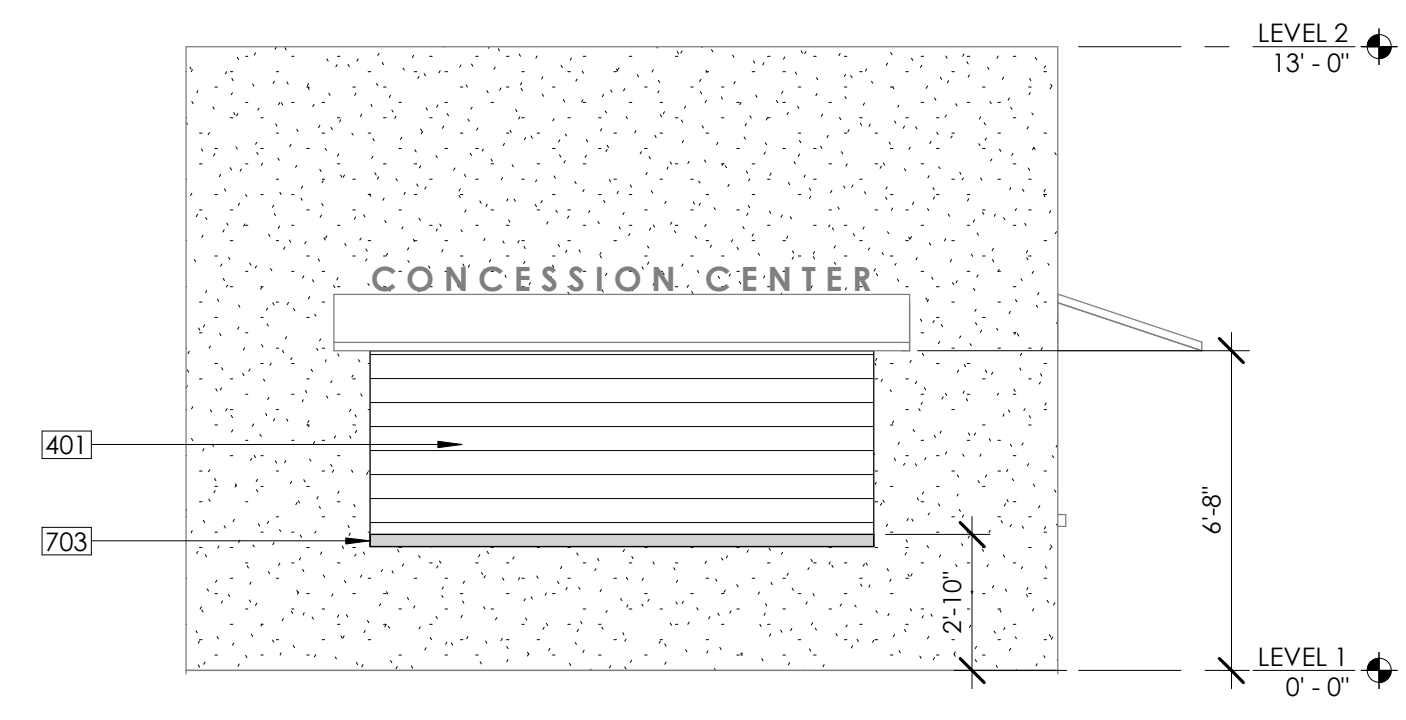
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CHK BY:	DZ
DATE:	6/9/2023
SCALE:	A1

FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT
A1.0
CONCESSION DRAWINGS

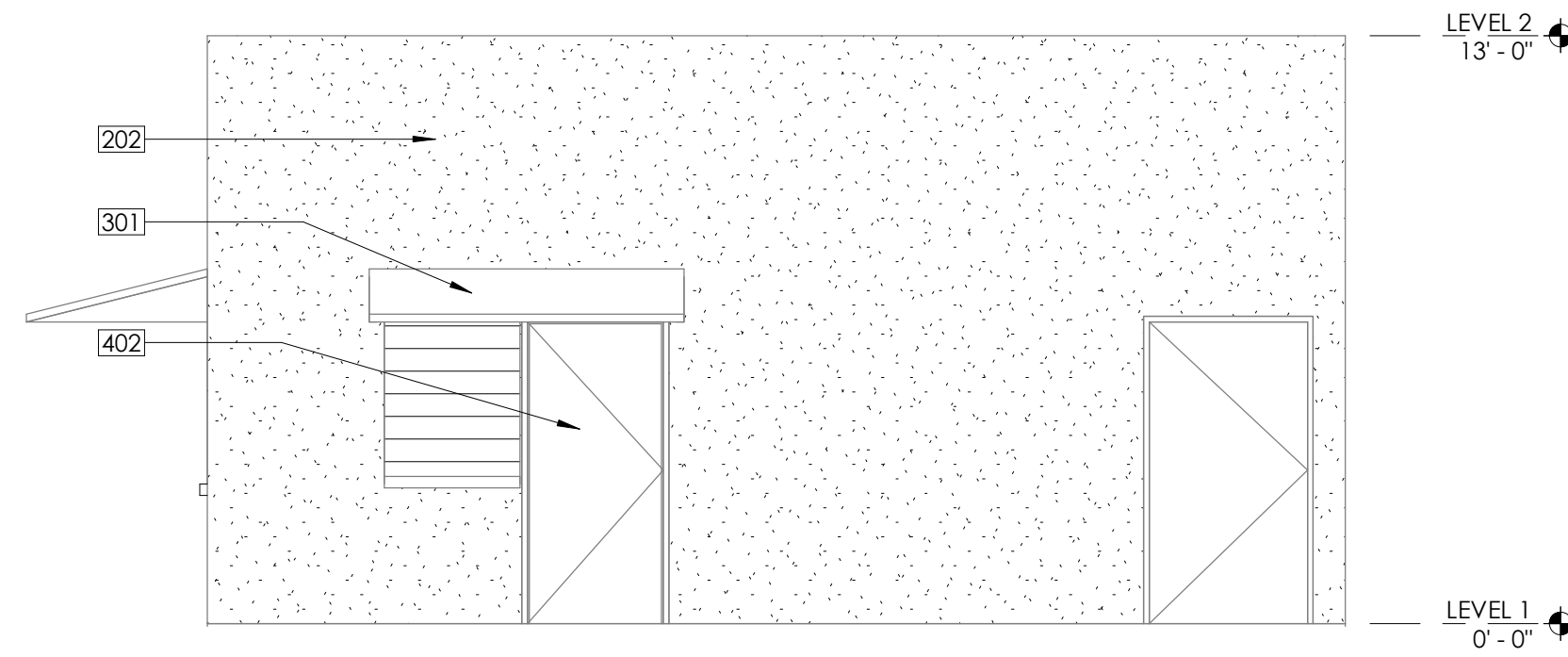
CONTRACT NO.
C02336
52 OF 68
FILE NO. 2022-014



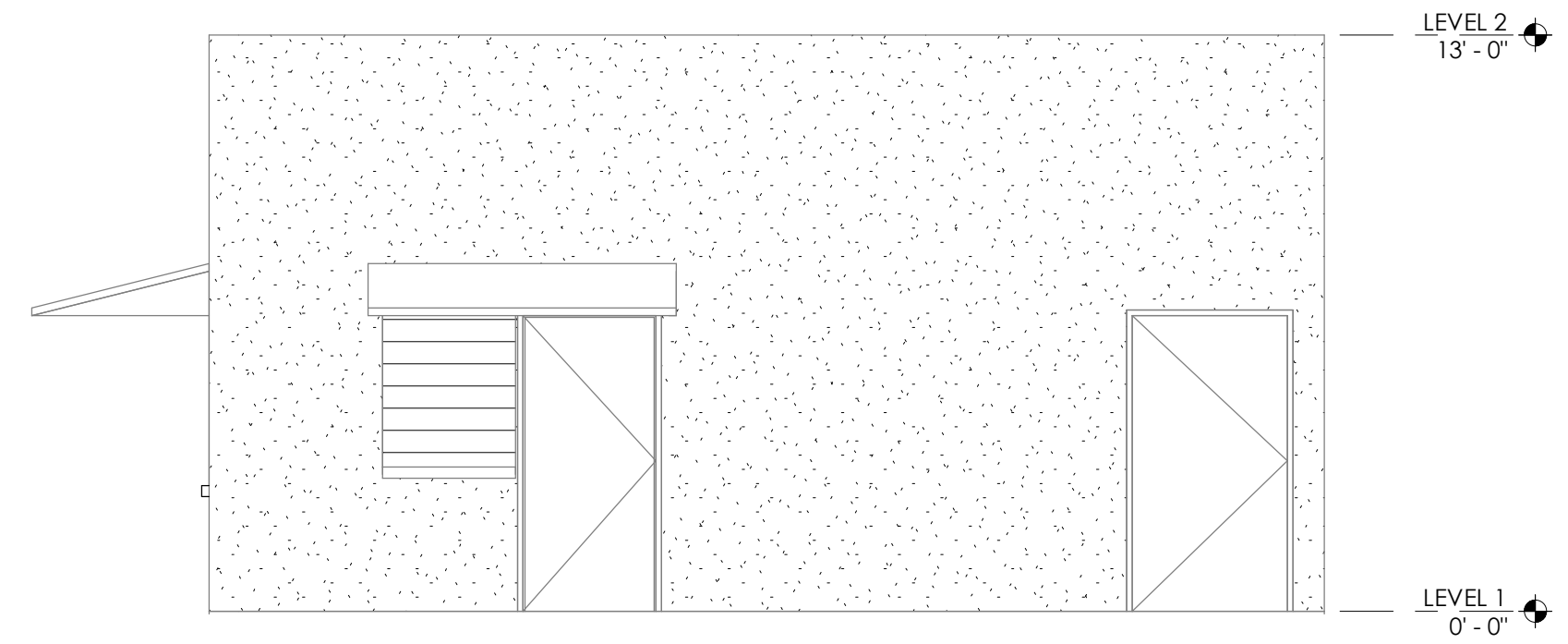
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A1.0 EAST EXISTING CONCESSION ELEVATION
SCALE: 1/4" = 1'-0"



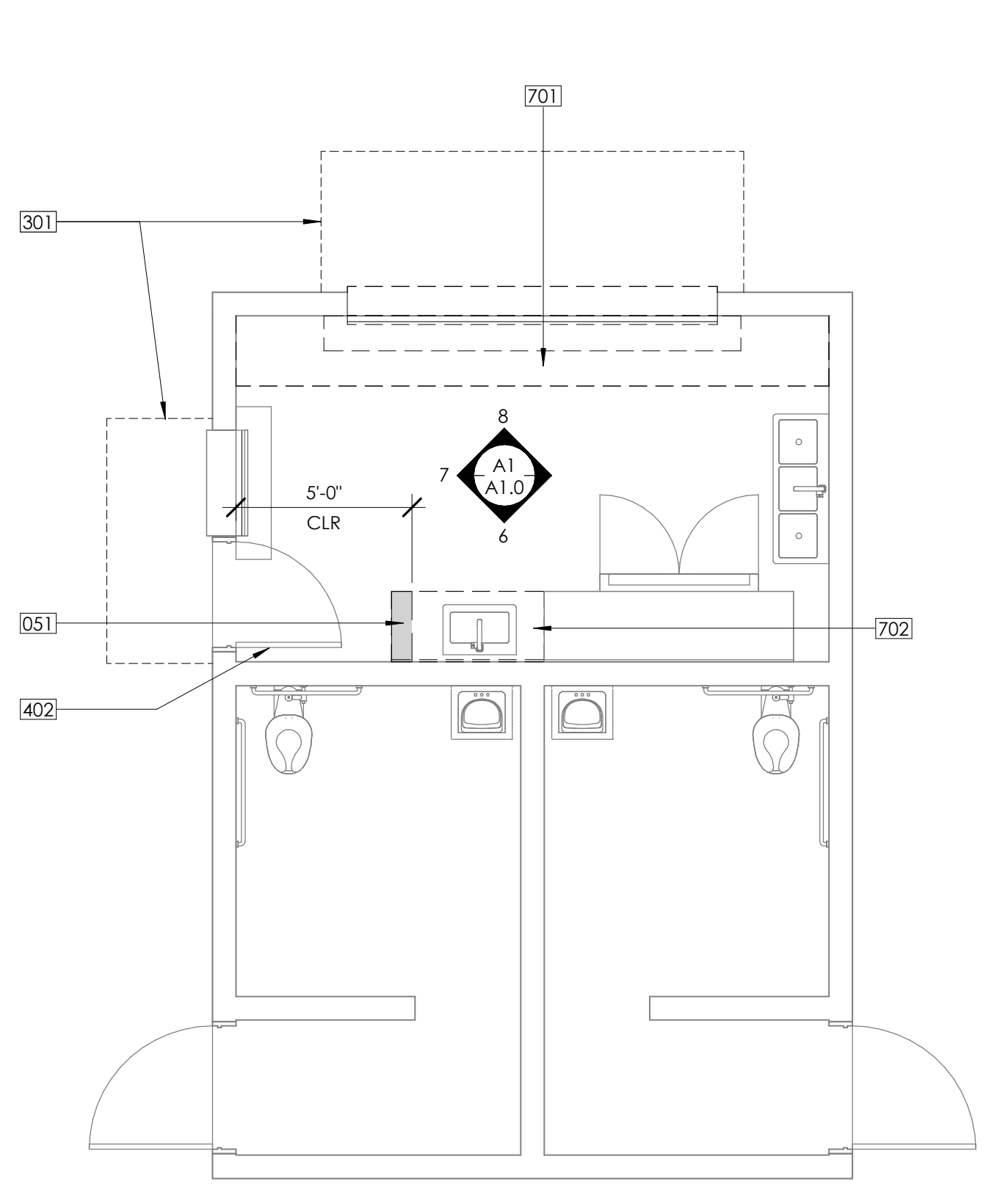
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A1.0 EAST PROPOSED CONCESSION ELEVATION
SCALE: 1/4" = 1'-0"



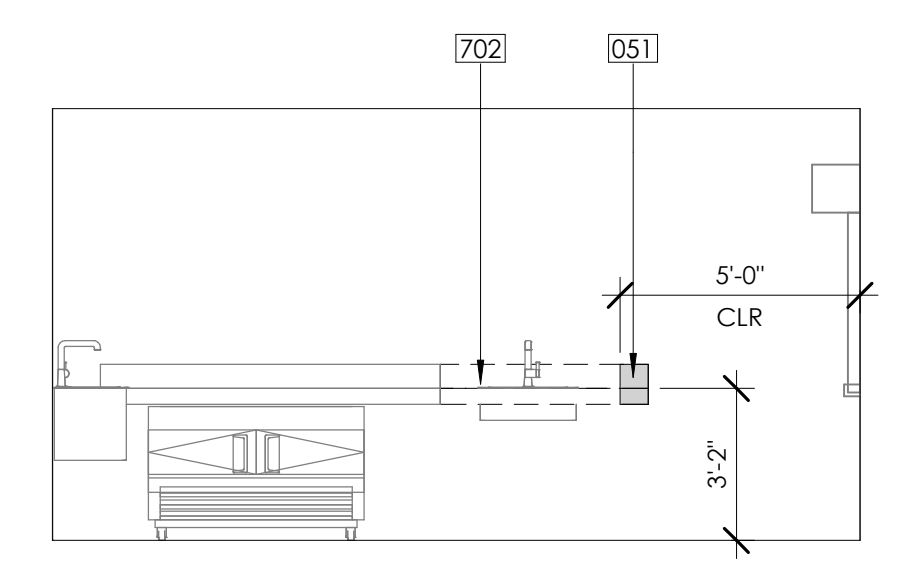
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SCALE: 1/4" = 1'-0"



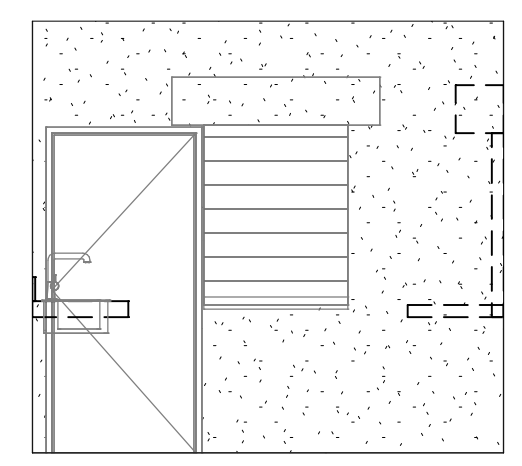
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SCALE: 1/4" = 1'-0"



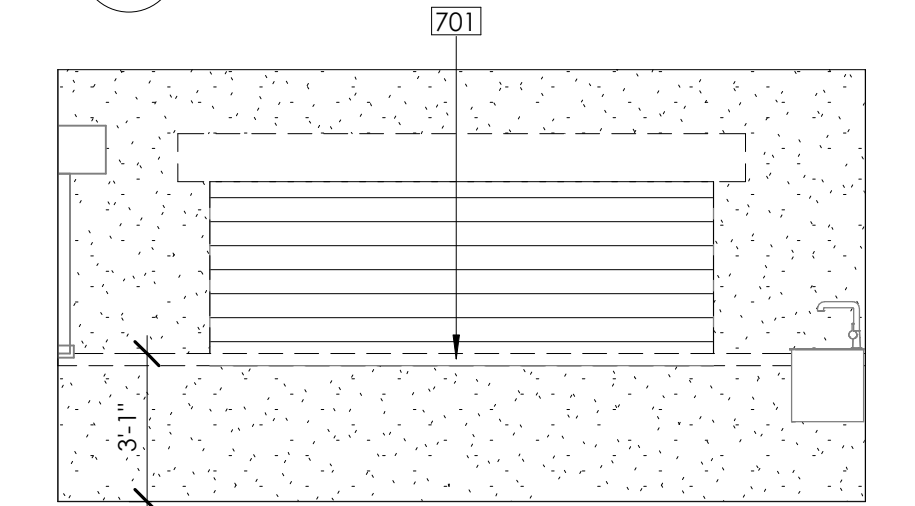
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A1.0 CONCESSION EXISTING FLOOR PLAN
SCALE: 1/4" = 1'-0"



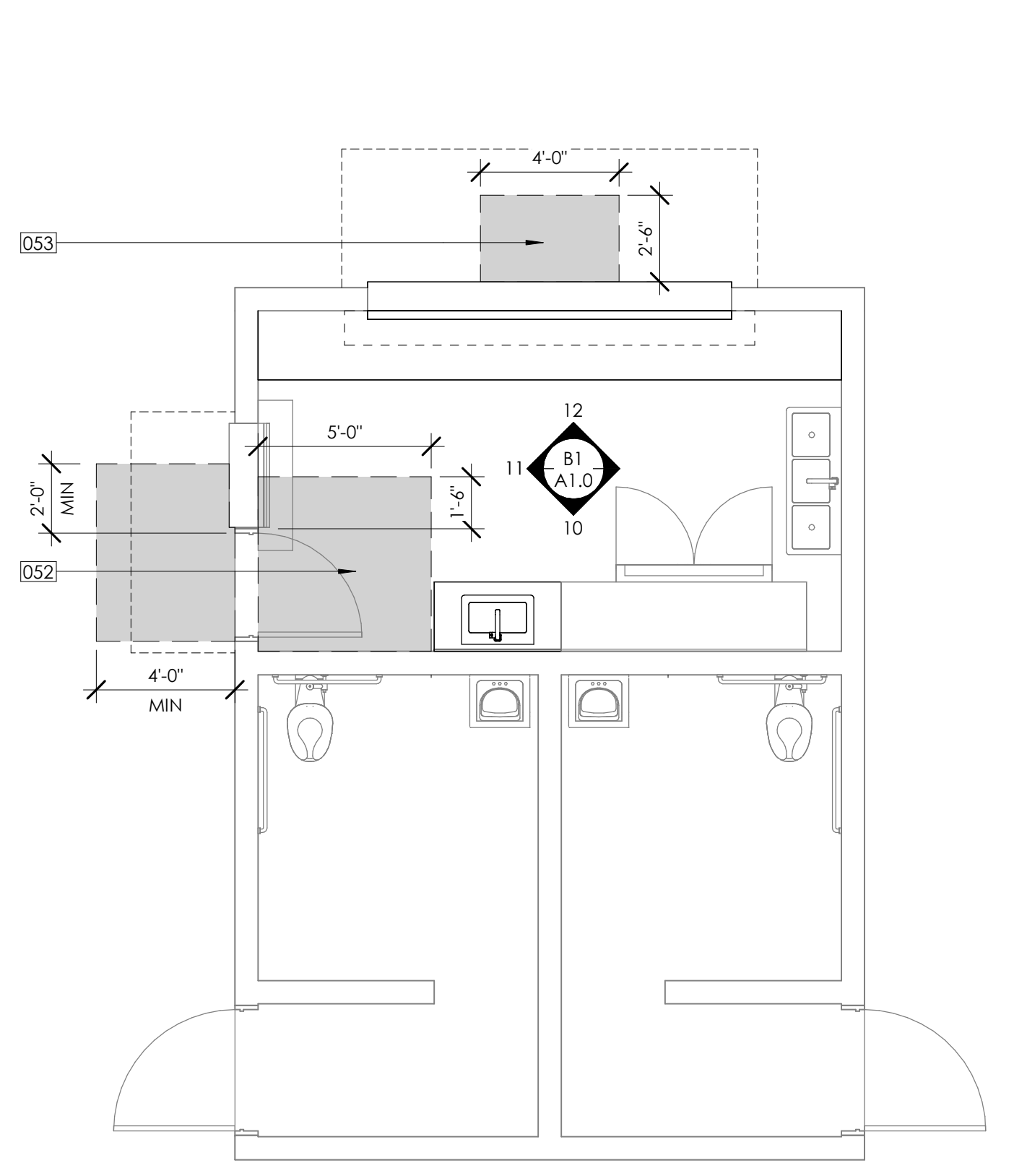
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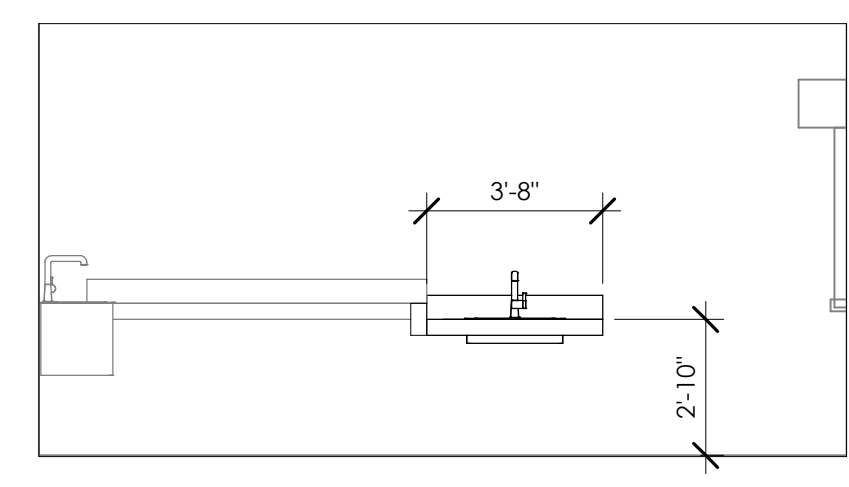
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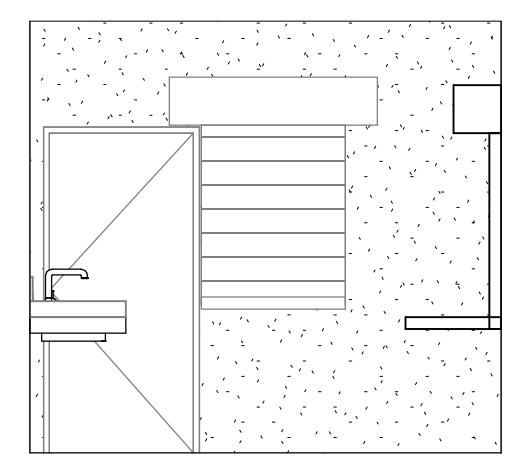
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SCALE: 1/4" = 1'-0"



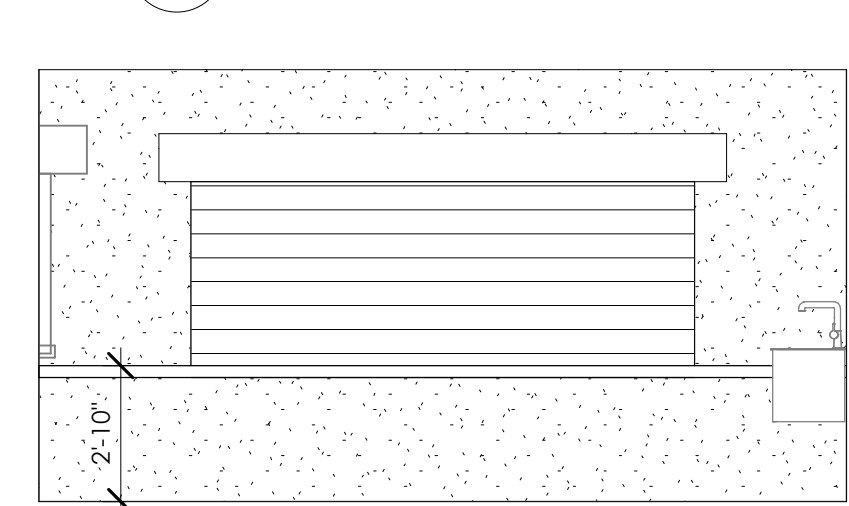
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A1.0 CONCESSION NC FLOOR PLAN
SCALE: 1/4" = 1'-0"



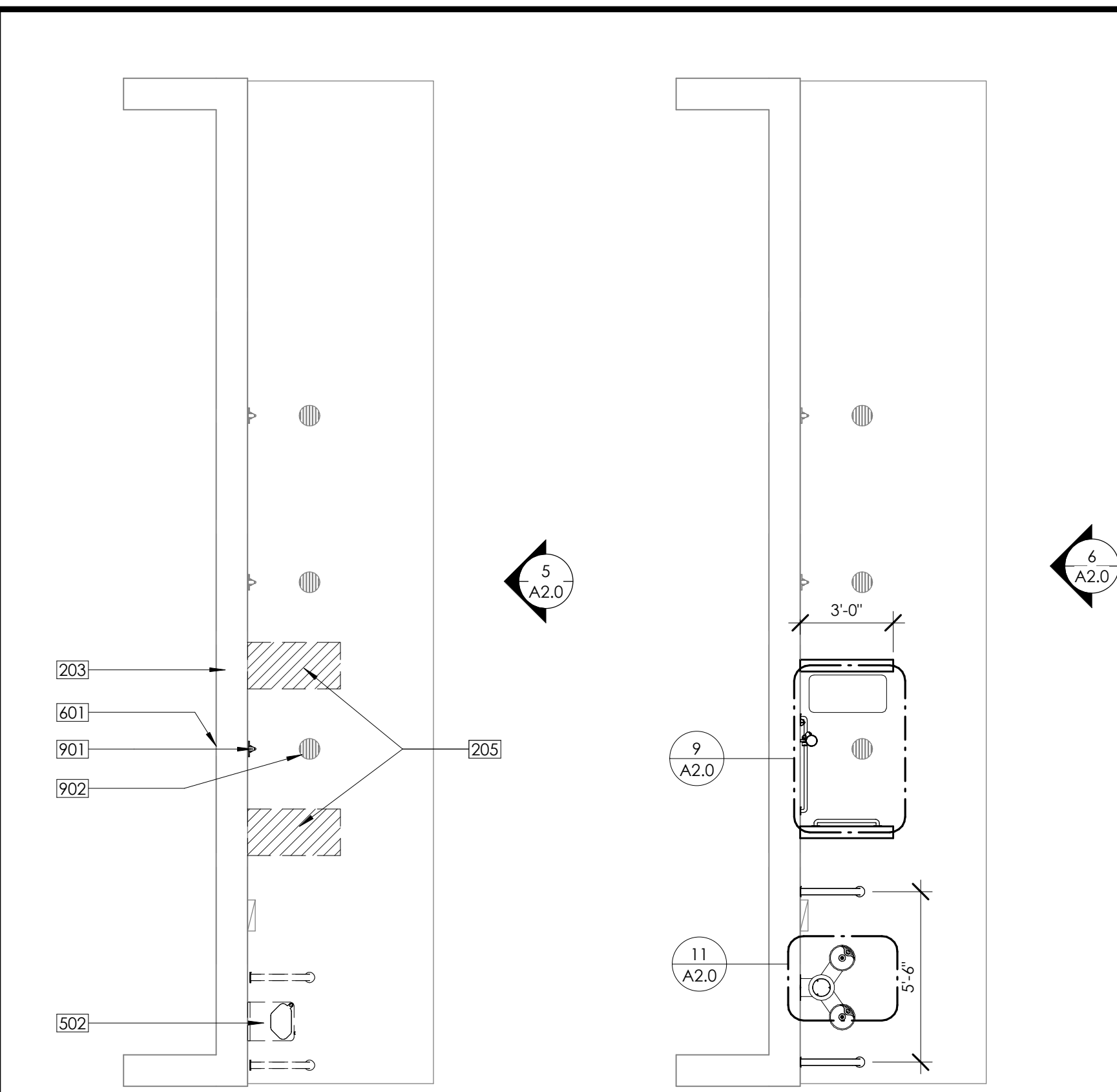
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A1.0 INT ELEV CONCESSION WEST NC
SCALE: 1/4" = 1'-0"



11
A1.0 INT ELEV CONCESSION NORTH NC
SCALE: 1/4" = 1'-0"

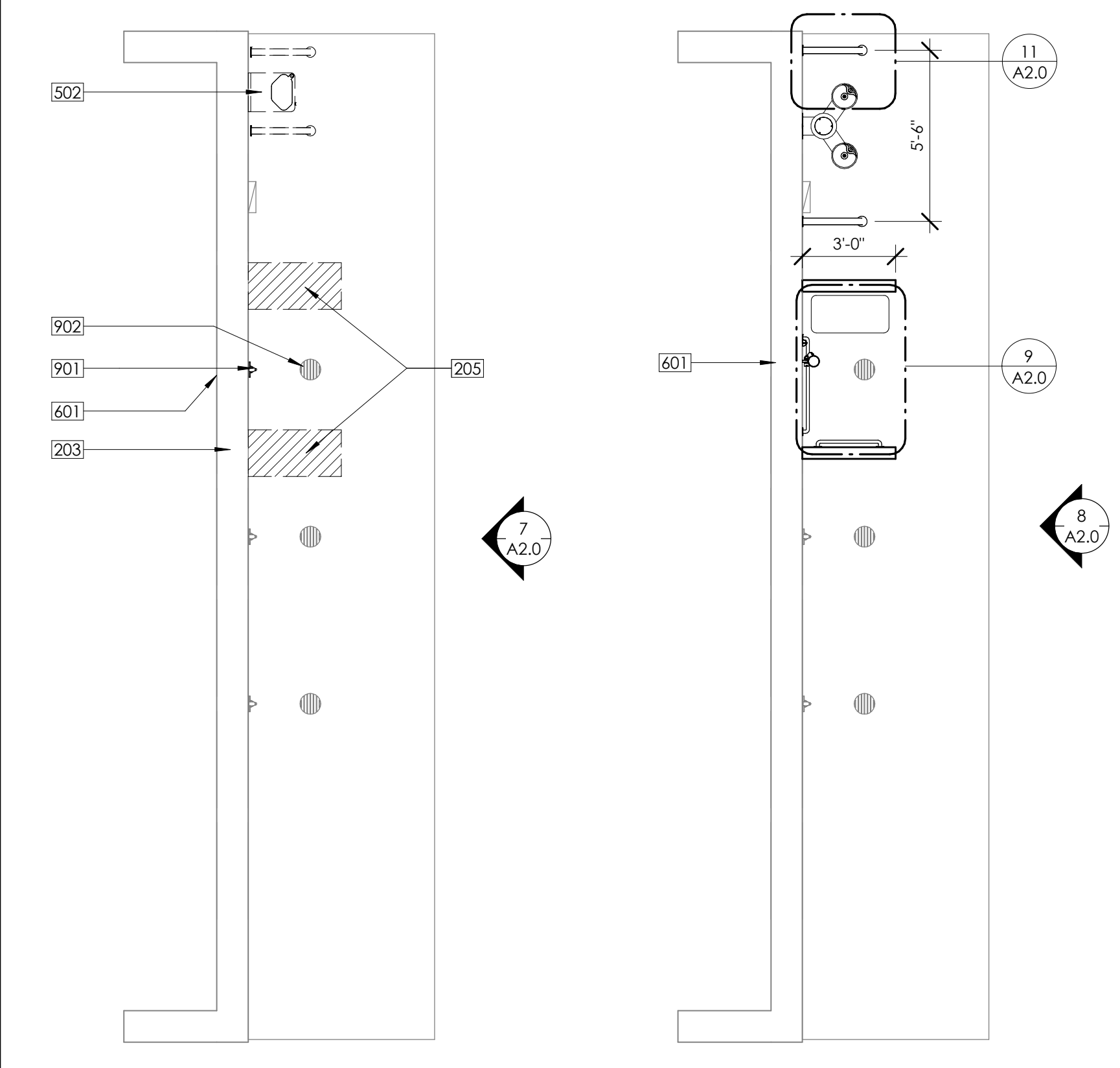


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SCALE: 1/4" = 1'-0"



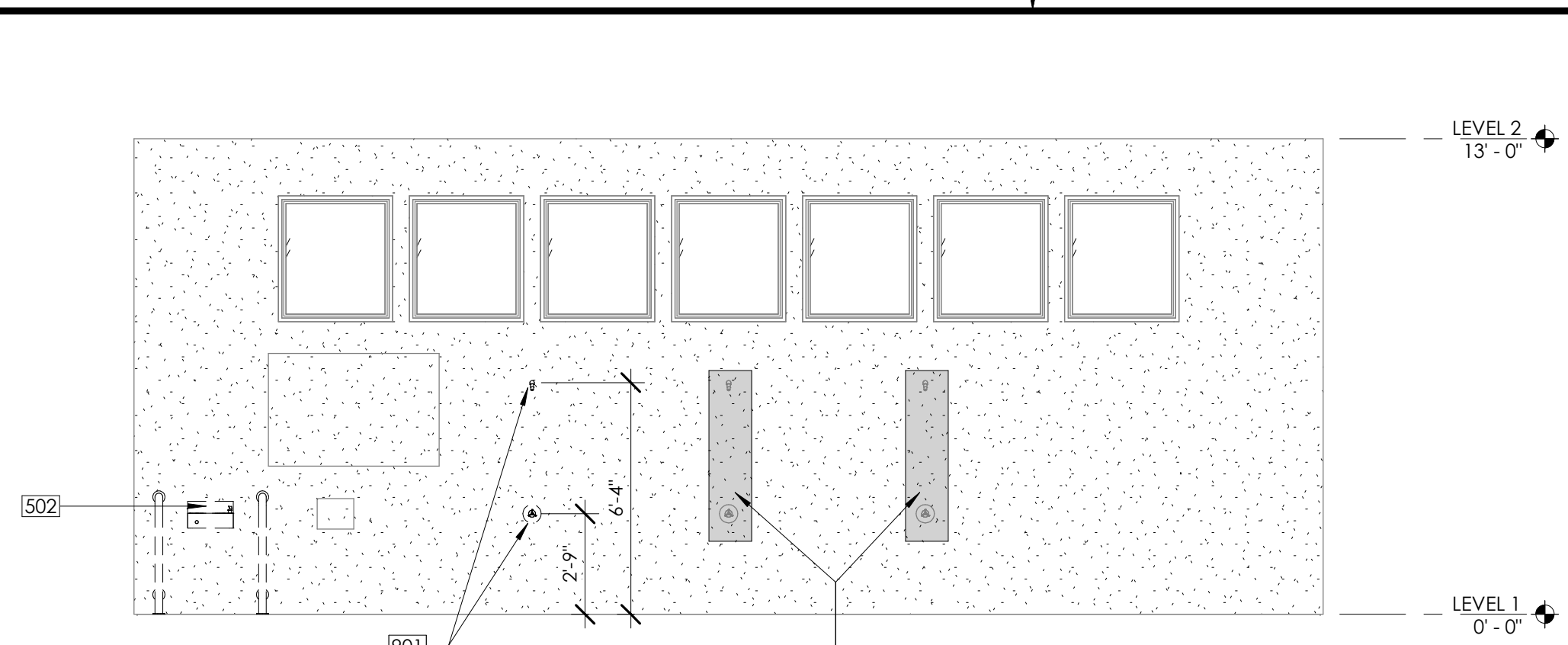
1 MENS EXISTING SHOWER PLAN
SCALE: 1/4" = 1'-0"

2 MENS NC SHOWER PLAN
SCALE: 1/4" = 1'-0"

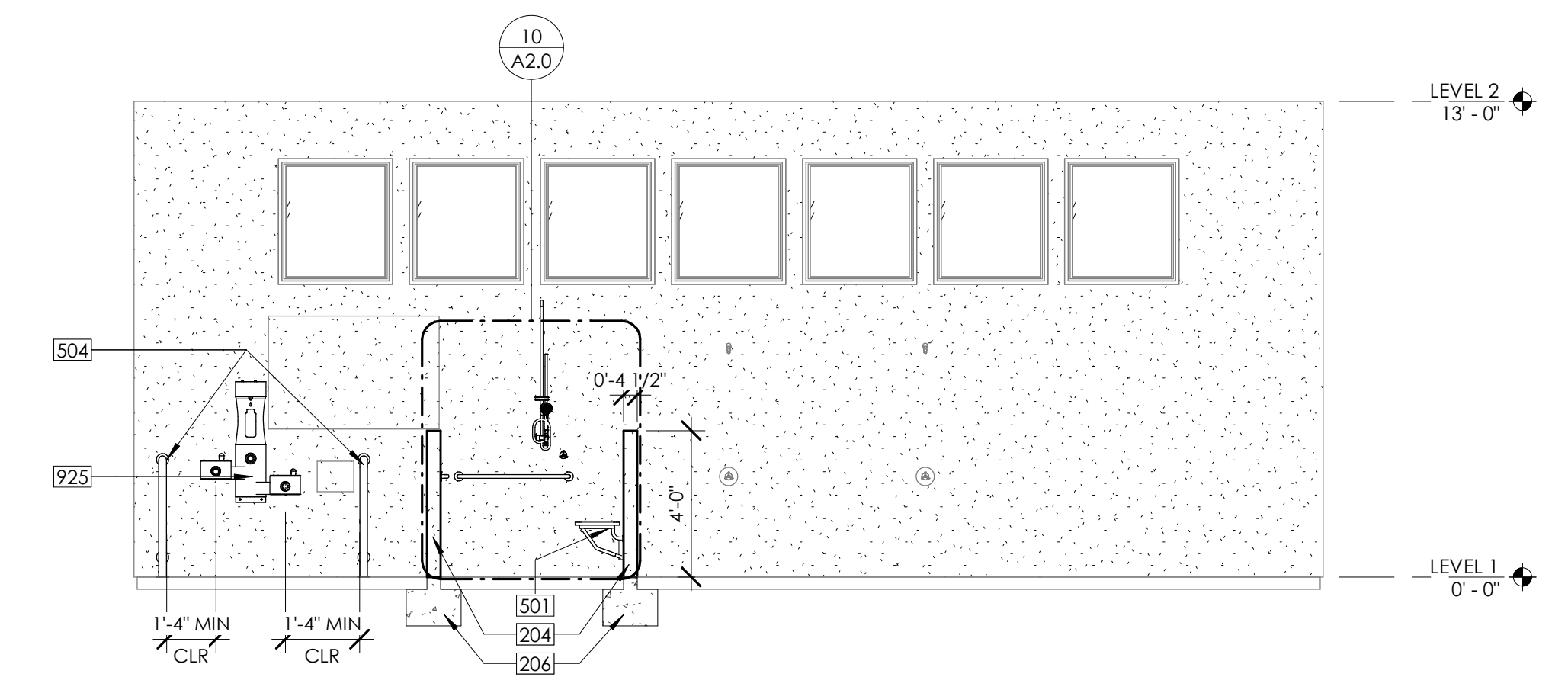


3 WOMENS EXISTING SHOWER PLAN
SCALE: 1/4" = 1'-0"

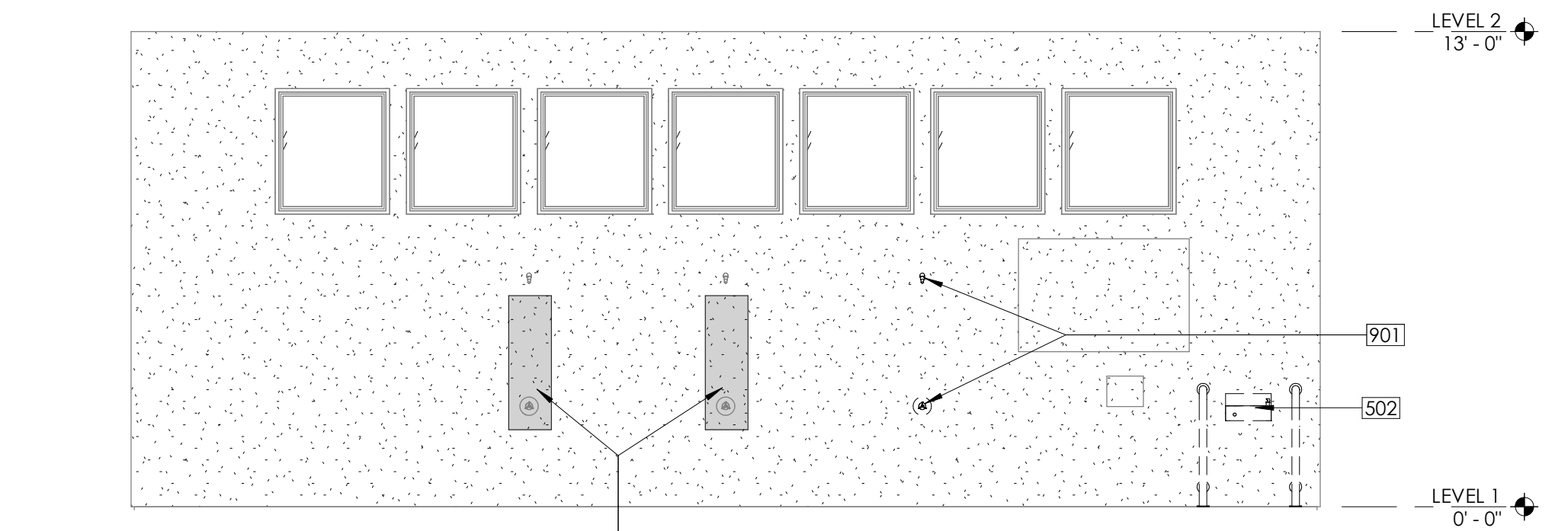
4 WOMENS NC SHOWER PLAN
SCALE: 1/4" = 1'-0"



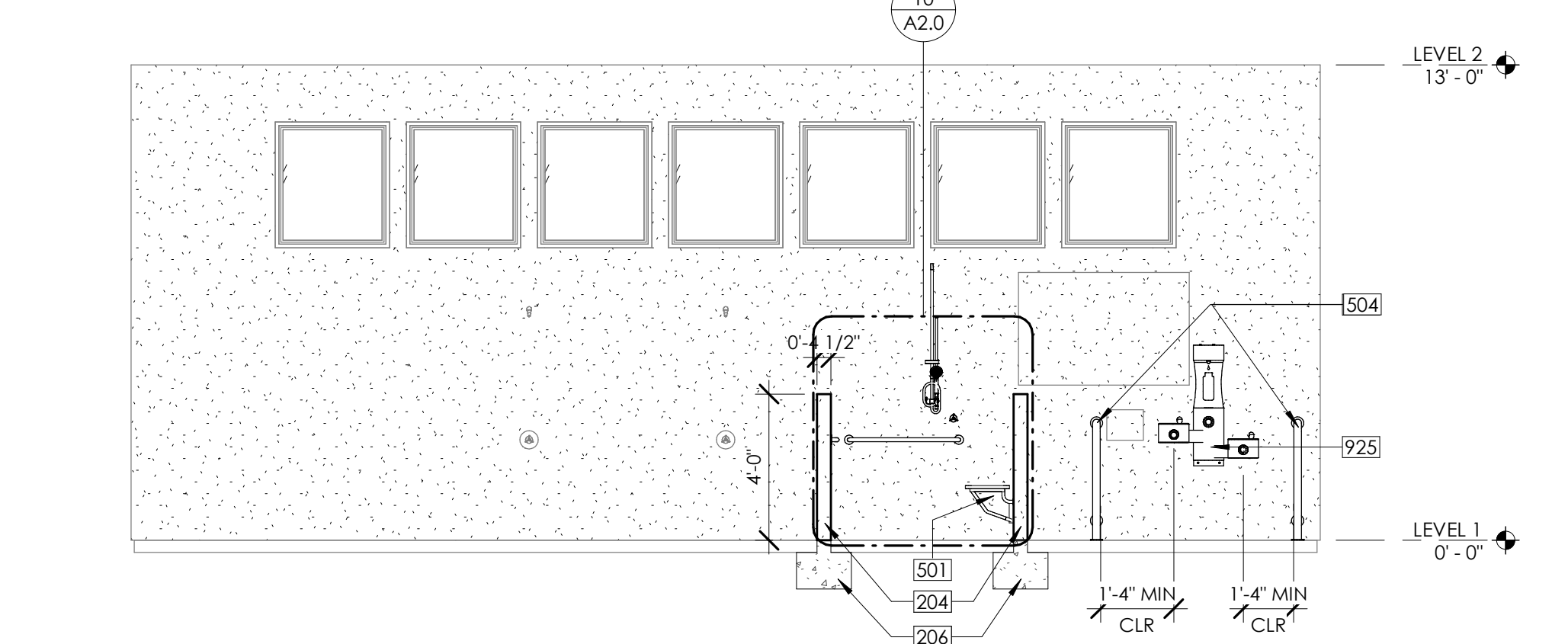
5 MENS EXISTING SHOWERS ELEV
SCALE: 1/4" = 1'-0"



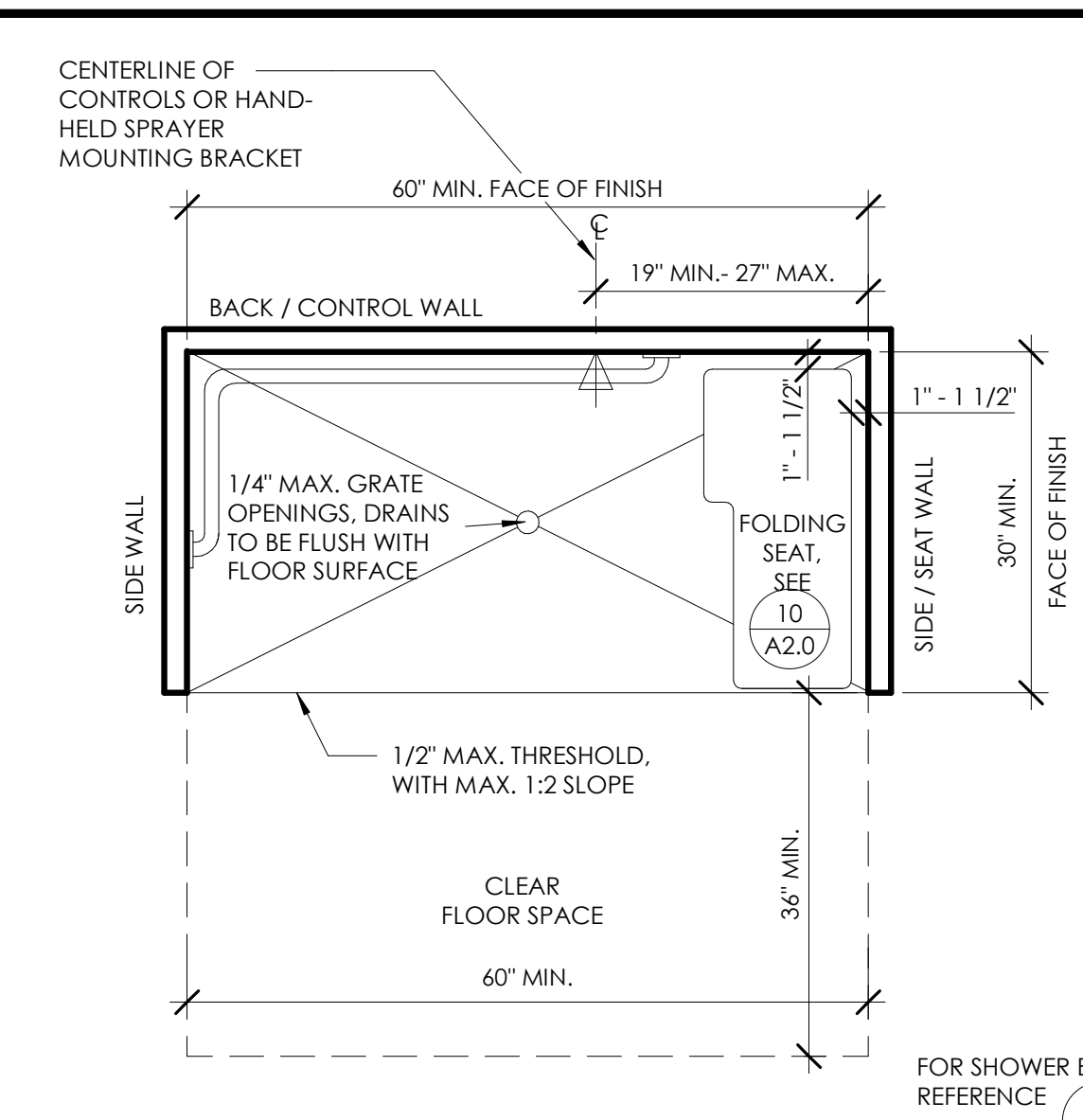
6 MENS NC SHOWER ELEV
SCALE: 1/4" = 1'-0"



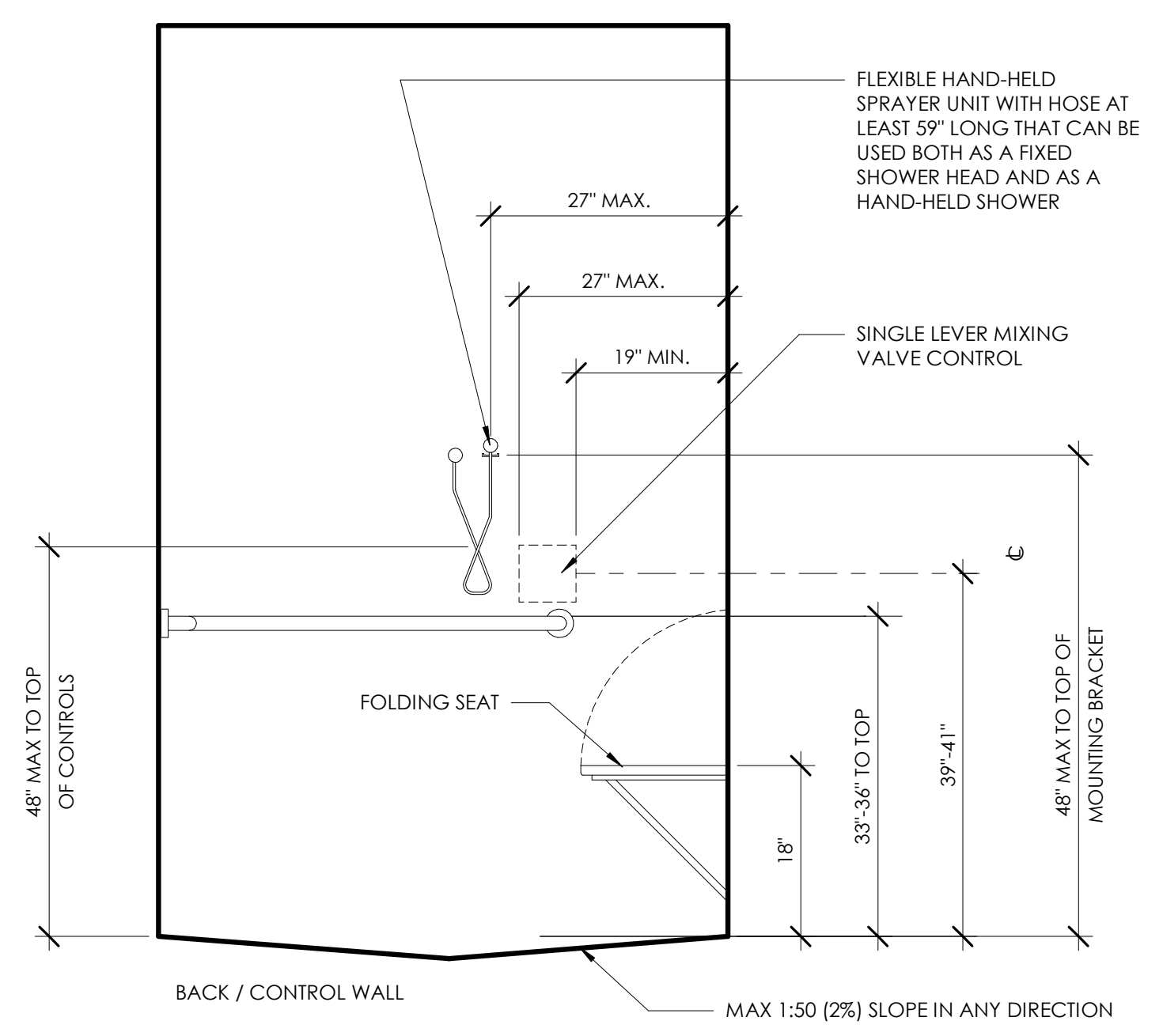
7 WOMENS EXISTING SHOWERS ELEV
SCALE: 1/4" = 1'-0"



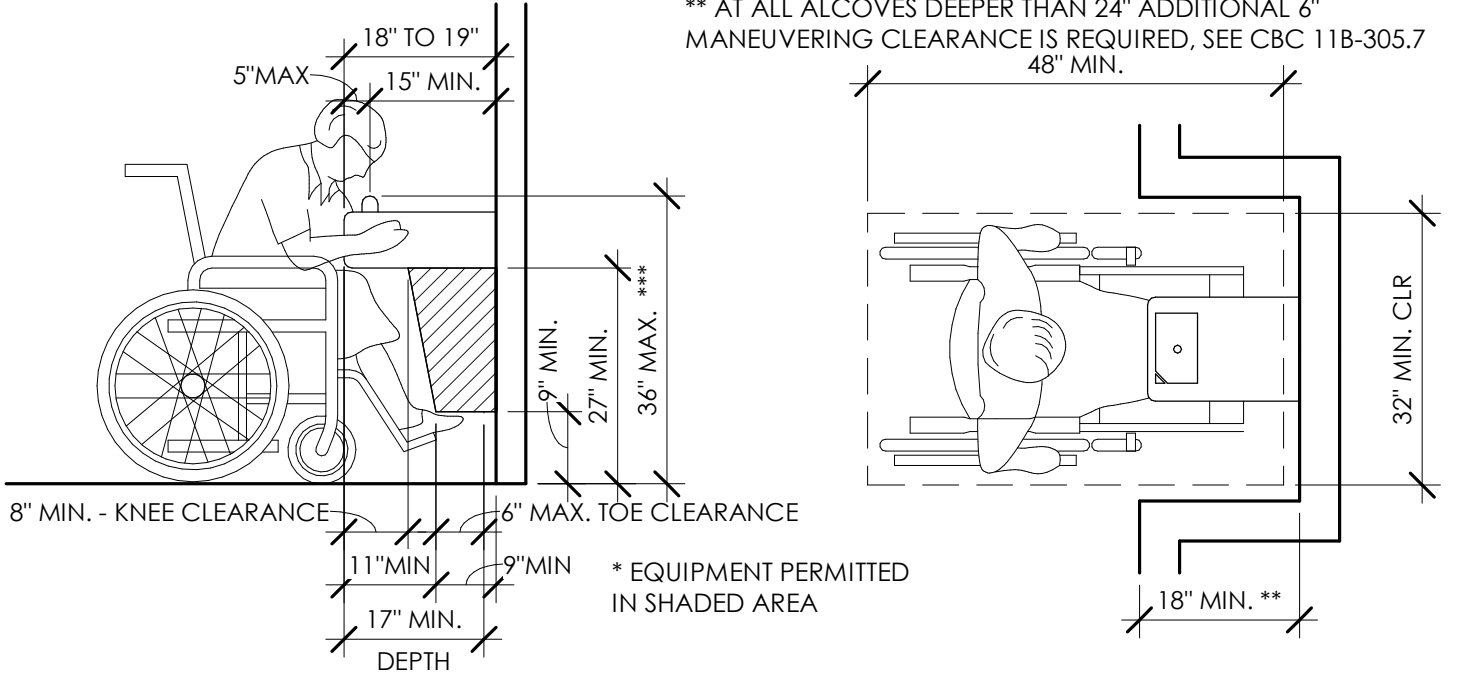
8 WOMENS NC SHOWER ELEV
SCALE: 1/4" = 1'-0"



9 ACCESSIBLE 30 X 60 ROLL-IN SHOWER-
SCALE: 3/4" = 1'-0"



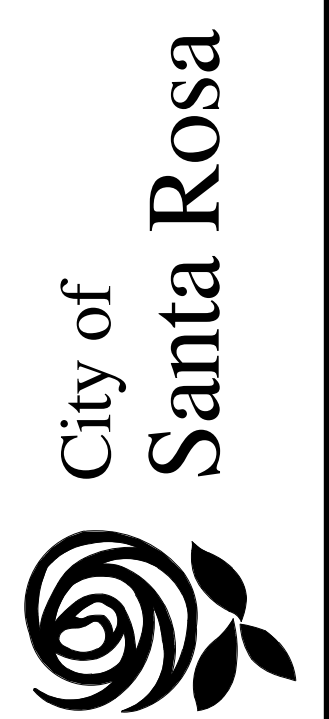
10 ACCESSIBLE 30 X 60 ROLL-IN SHOWER - ELEVATION-
SCALE: 3/4" = 1'-0"



11 DRINKING FOUNTAIN
SCALE: 1/2" = 1'-0"

CONSTRUCTION NOTES SHOWER

- 203 (E) CONCRETE WALL FURRED AT INTERIOR FACE.
- 204 (N) REINFORCED CONCRETE WALL SMOOTH FINISH TO MATCH (E) WALL. LIGHTLY SANDBLASTED. APPLY CLEAR PENETRATING SEALER. SEE 1/S1.2.
- 205 REMOVE (E) CONCRETE SLAB AS REQUIRED BY (N) WALL FOOTING; REPLACE SLAB TO MATCH (E). SEE 1/S1.2
- 206 (N) CONCRETE FOOTINGS PER STRUCTURAL. SEE 1/S1.2
- 501 FOLDING SEAT IN DOWN POSITION
- 502 (E) DRINKING FOUNTAIN. REMOVE AND PREP PLUMBING FOR HI-LO. ACCESSIBLE DRINKING FOUNTAIN.
- 504 (N) DRINKING FOUNTAIN PROTECTION BARS AT EACH SIDE. SS ASI MODEL NUMBER 3800 TYPE 75.
- 601 REMOVE AND RESTORE WALL FINISH/TILE AS NECESSARY FOR PLUMBING ADJUSTMENTS.
- 901 REMOVE (E) SHOWER HEAD AND VALVE AND PATCH REMAINING OPENINGS.
- 902 (E) DRAIN TO REMAIN.
- 903 (E) SHOWER HEAD AND VALVE TO REMAIN.
- 925 ELKAY OUTDOOR WALL MOUNT BOTTLE FILLER AND DUAL FOUNTAIN, BLUE. LK4409BFLU.



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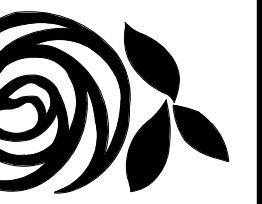
NO.	DATE	REVISION	BY

DWN BY: JW	CHK BY: DZ	DATE: 6/9/2023	SCALE: AI
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FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT
A2.0
SHOWER DRAWINGS



City of Santa Rosa

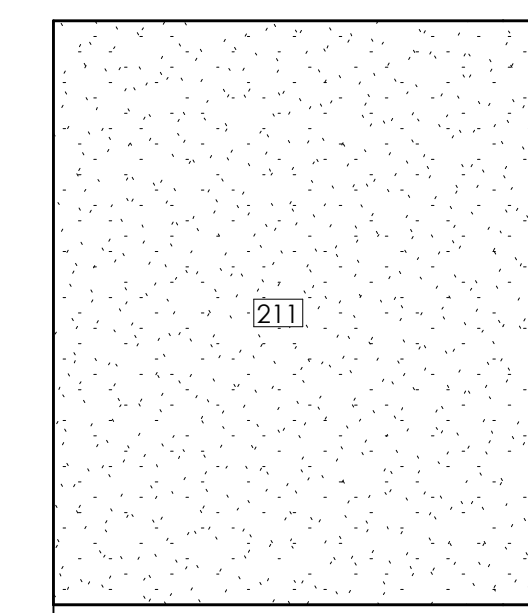
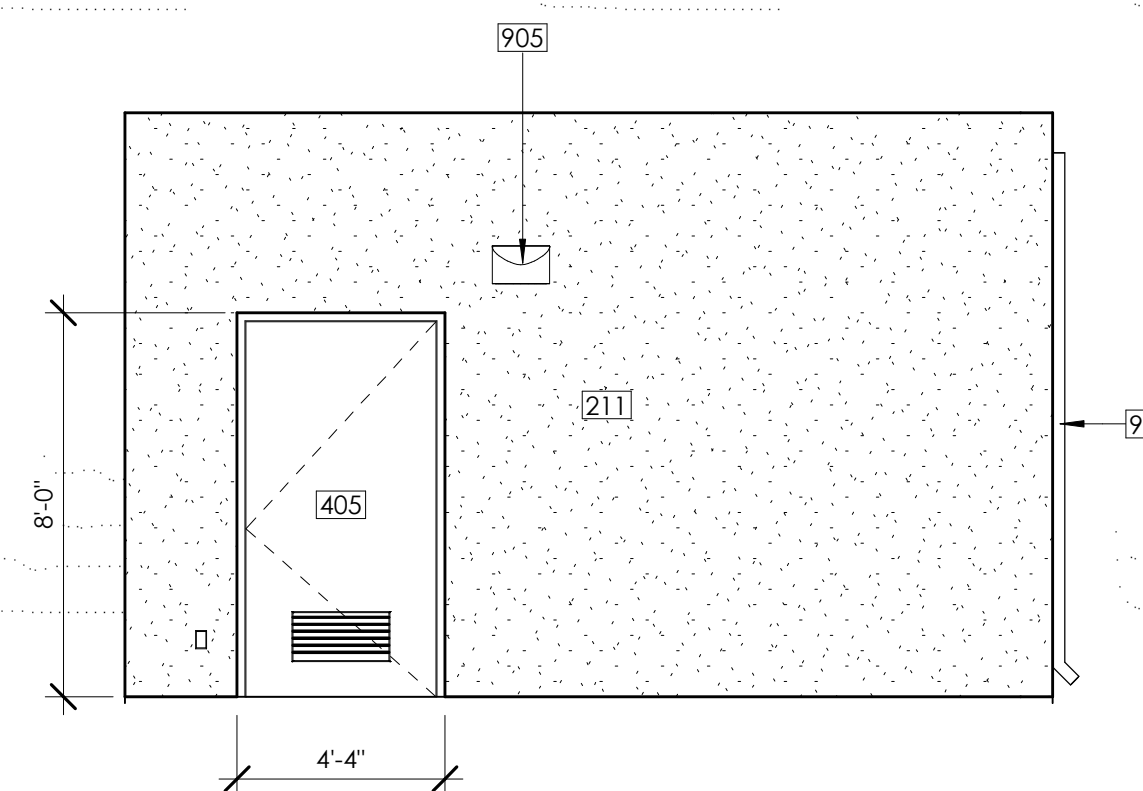
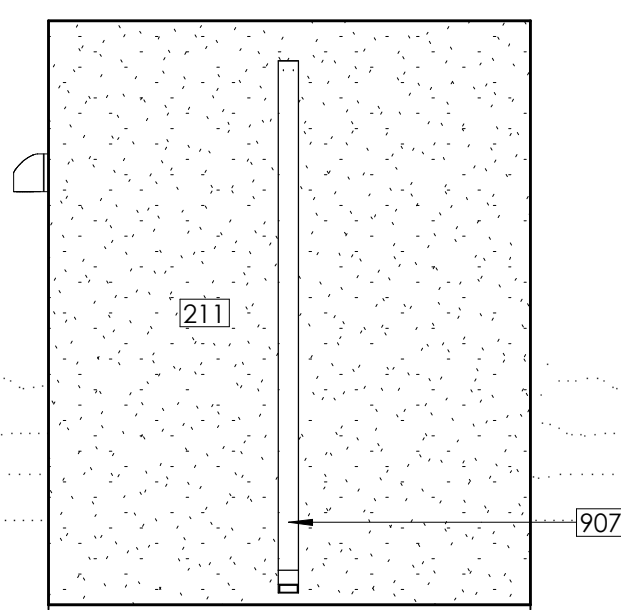
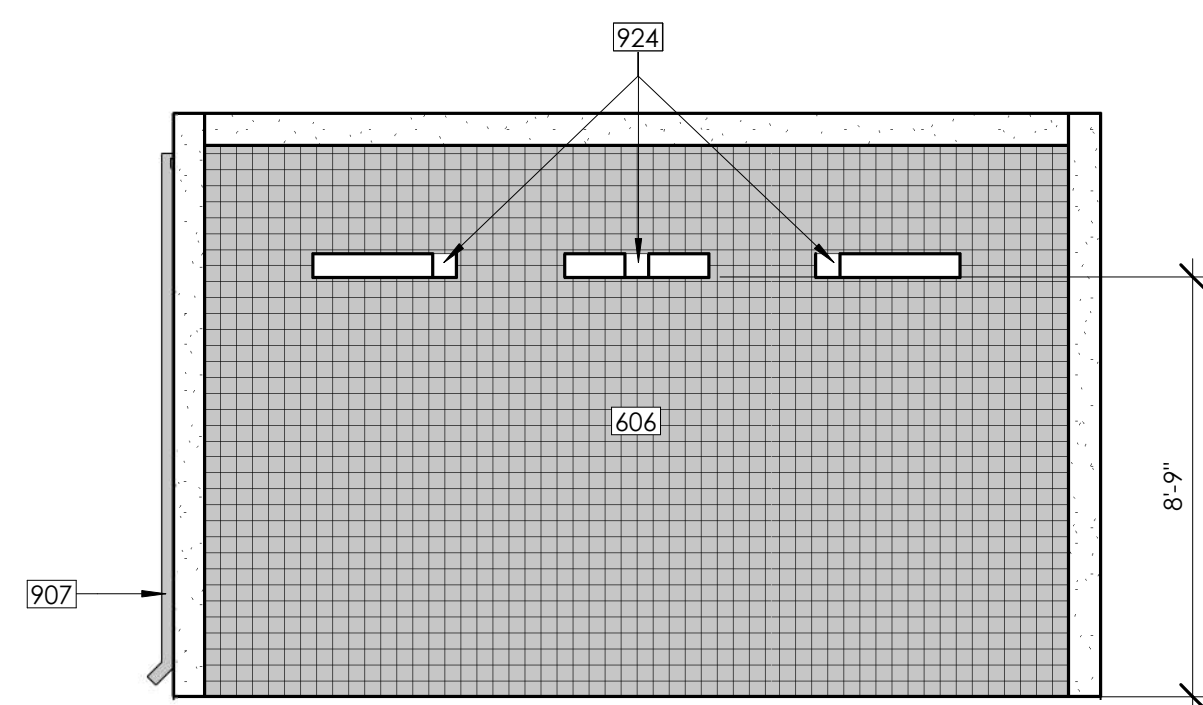
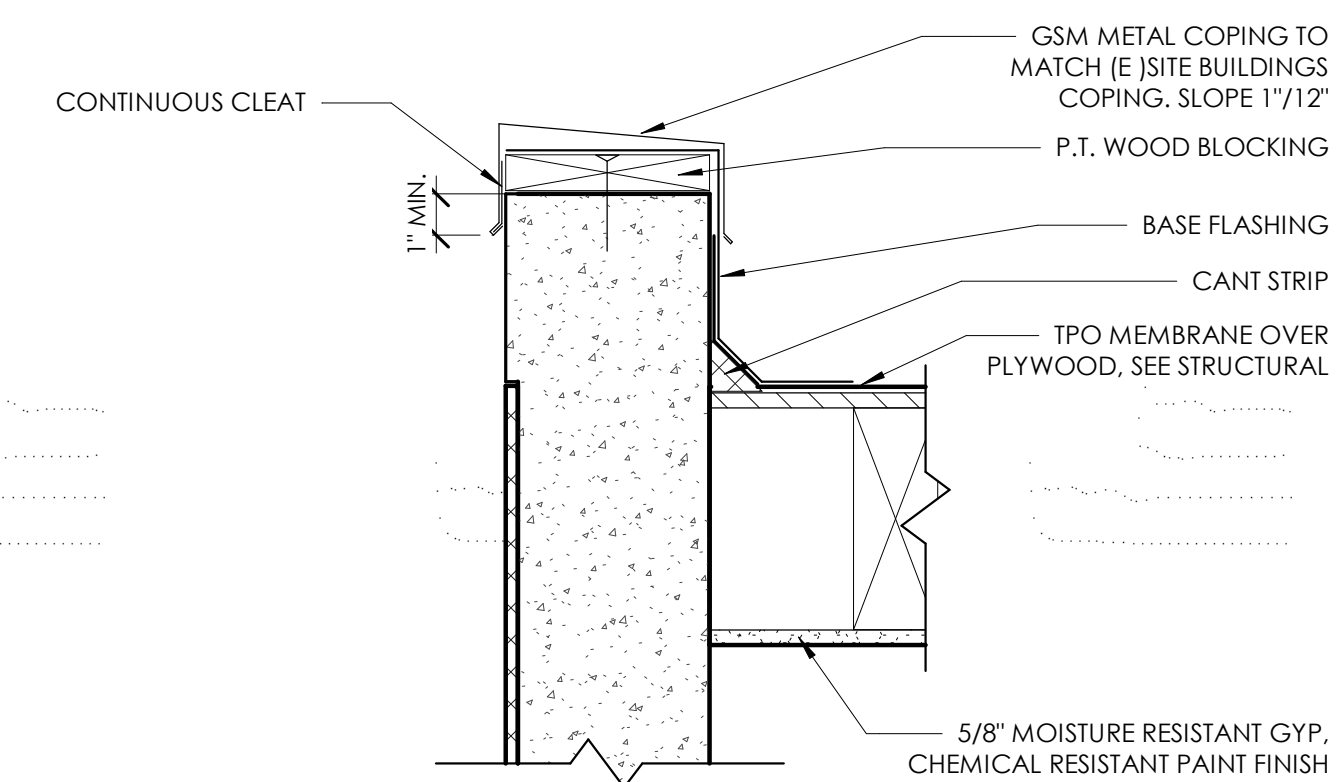
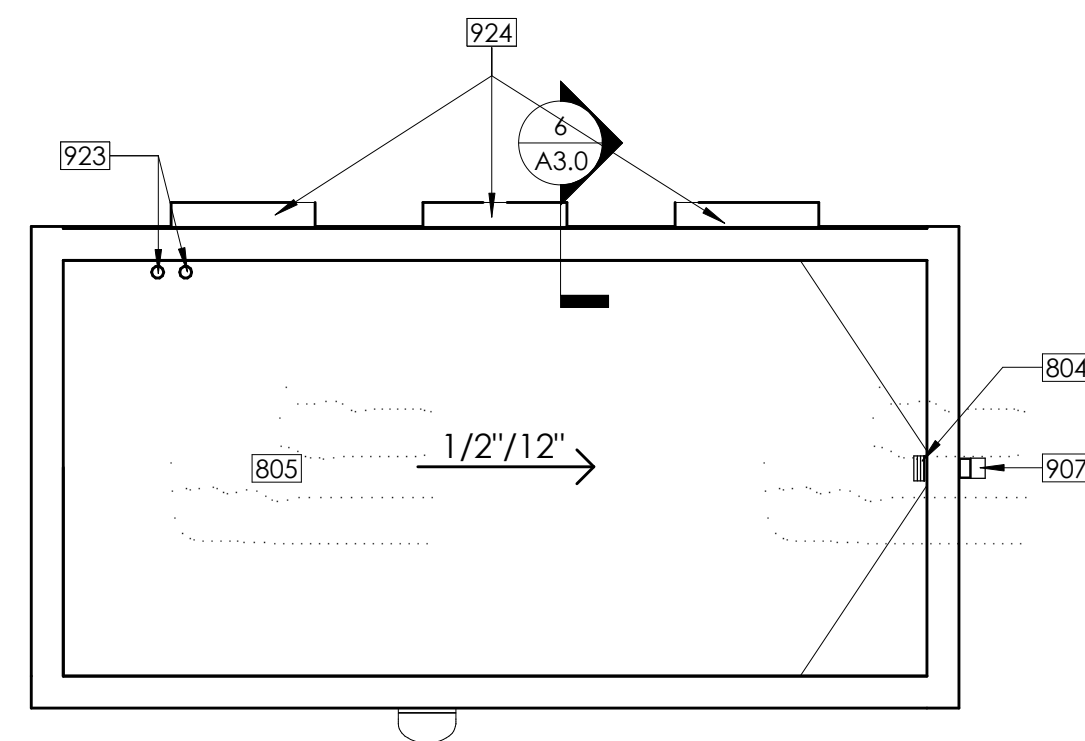
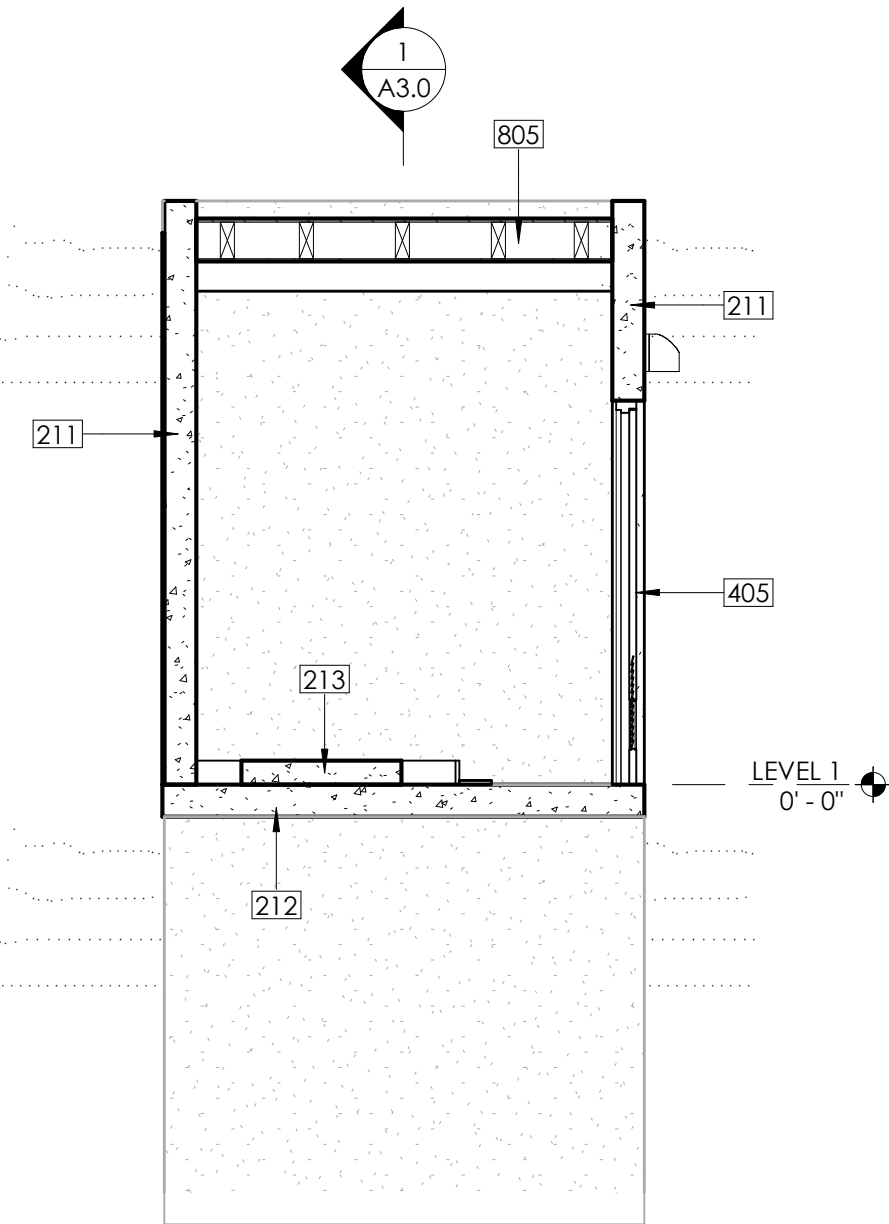
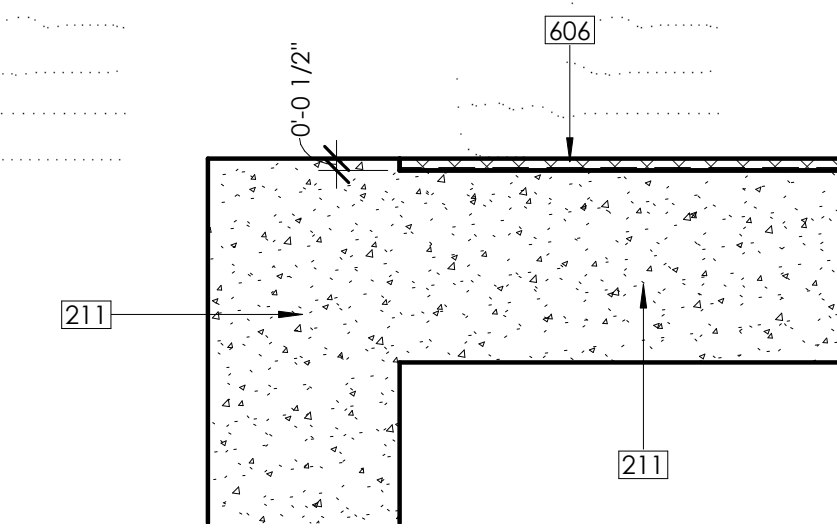
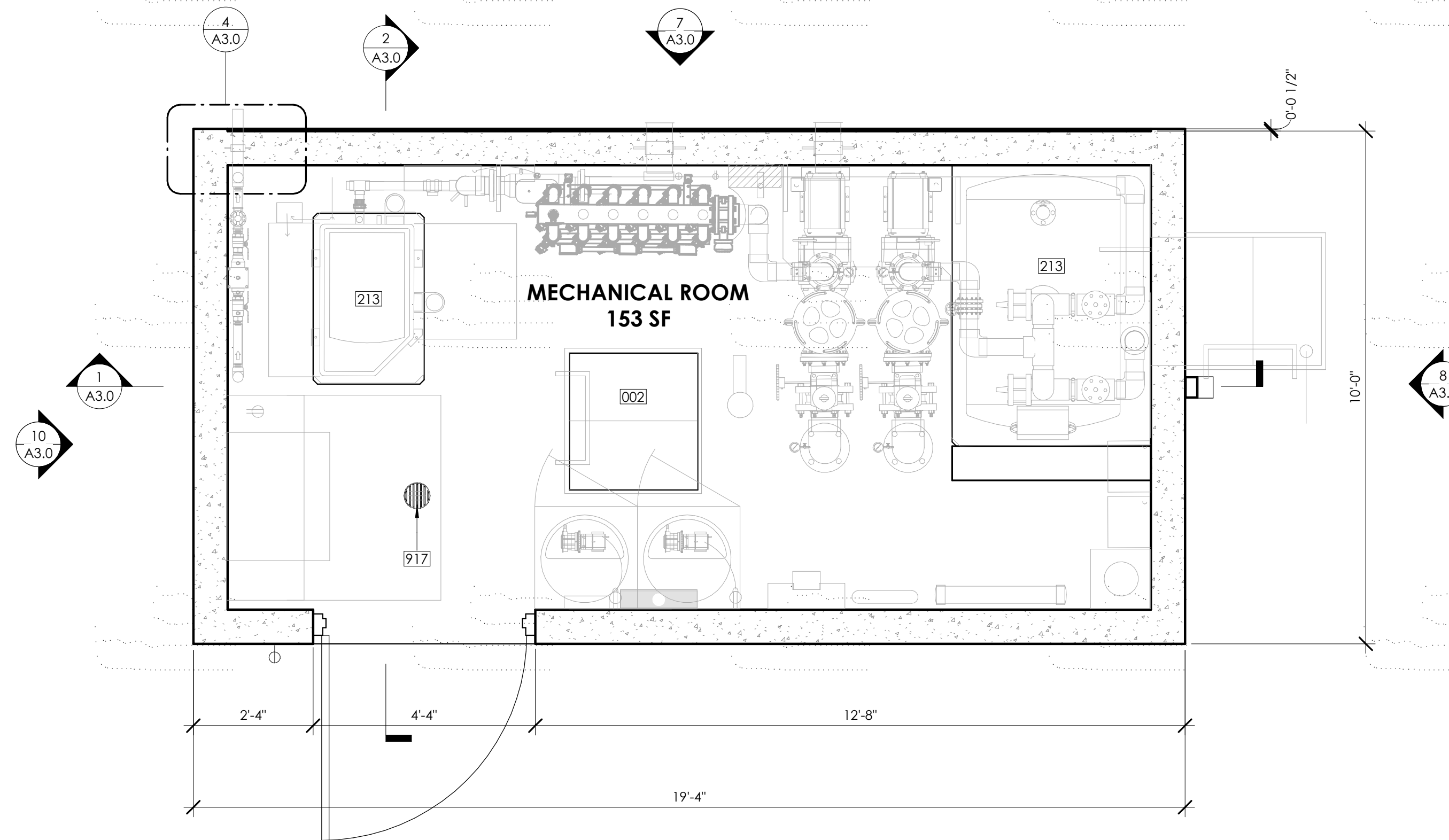
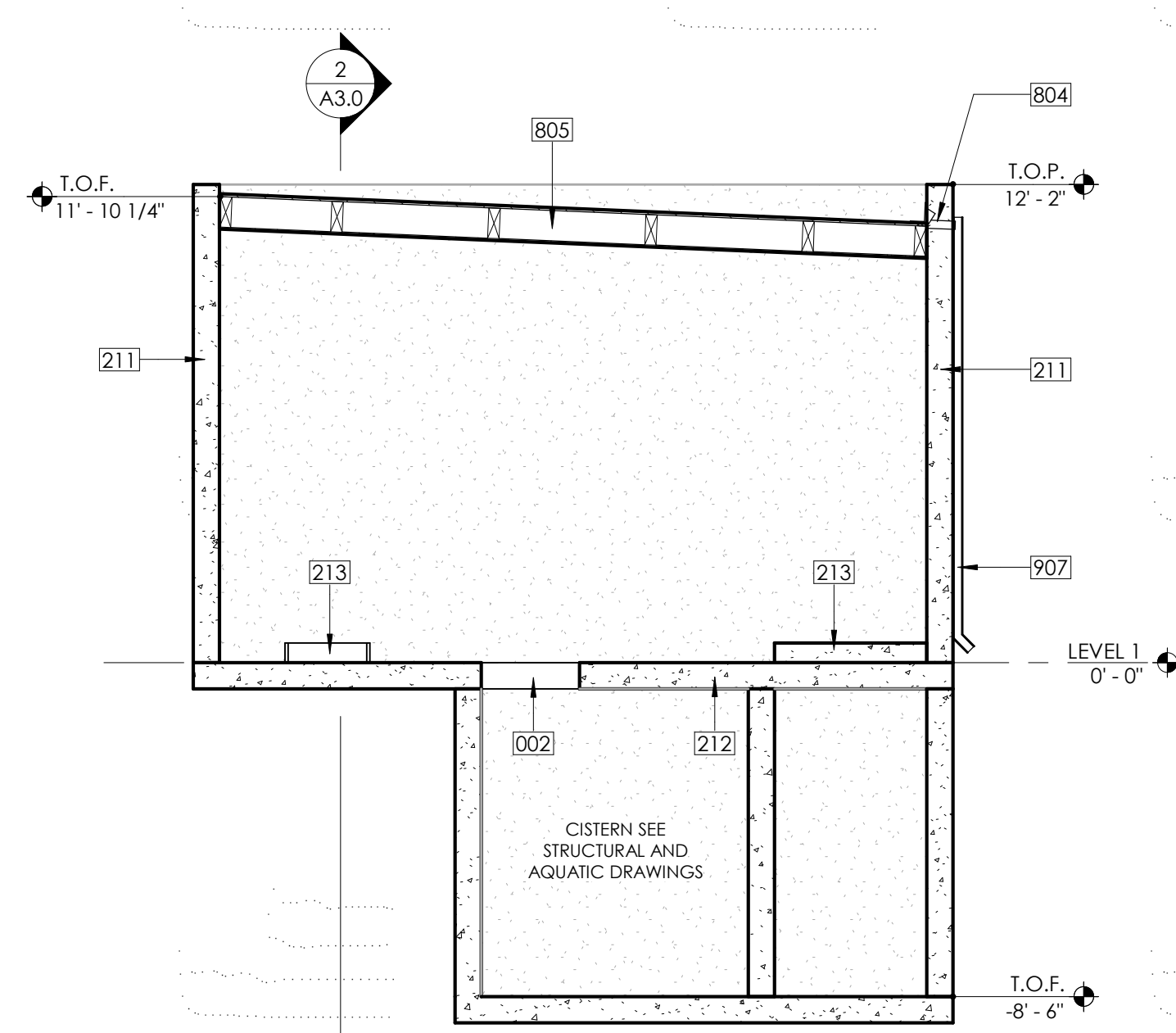


JKA
jeff katz
ARCHITECTURE

300 E STREET, SANTA ROSA, CA 95404
419.498.9177 | www.jkakatzy.com

CONSTRUCTION NOTES

- 002 SCUTTLE TO BACKWASH PIT AND CISTERN
- 211 C.I.P. CONCRETE WALL SEE STRUCTURAL. INTEGRAL COLOR AND FINISH TO MATCH EXISTING AQUATIC CENTER BUILDING. LIGHTLY SANDBLASTED. SEAL EXTERIOR WALL SURFACES WITH PENETRATING CLEAR CONCRETE WATER REPELLANT. DO NOT SEAL MOSAIC TILED AREAS
- 212 C.I.P. CONCRETE SLAB. SEE STRUCTURAL
- 213 CONCRETE EQUIPMENT PAD. SEE STRUCTURAL
- 405 FRP DOOR AND FRAME WITH LOUVERS. STAINLESS STEEL HARDWARE
- 606 DECORATIVE TILE OVER ISOLATION MEMBRANE. SEE LANDSCAPE FOR PRODUCT AND LAYOUT. NOTE: ALTERNATE OPTION FOR A PAINTED MURAL OVER A SMOOTH FINISH INSTEAD OF A RECESSED DECORATIVE TILE TO BE DIRECTED BY CITY DURING CONSTRUCTION.
- 804 THROUGH WALL SCUPPER
- 805 WOOD FRAMED ROOF WITH TPO MEMBRANE. SEE STRUCTURAL
- 905 EXTERIOR WALL MOUNTED SCONCE. SEE ELECTRICAL
- 907 ROUTE BUILDING DOWNSPOUT TO STORM DRAIN SEE CIVIL AND PLUMBING DRAWINGS. MATCH DOWNSPOUT TO EXISTING SITE BUILDINGS
- 917 FLOOR DRAIN. SEE PLUMBING
- 923 SS VENT PIPE PENETRATIONS THROUGH ROOF. SEE PLUMBING. VENTS TO BE HIDDEN BY PARAPET
- 924 3" WIDE STAINLESS STEEL SCUPPER COORDINATE WITH PLUMBING

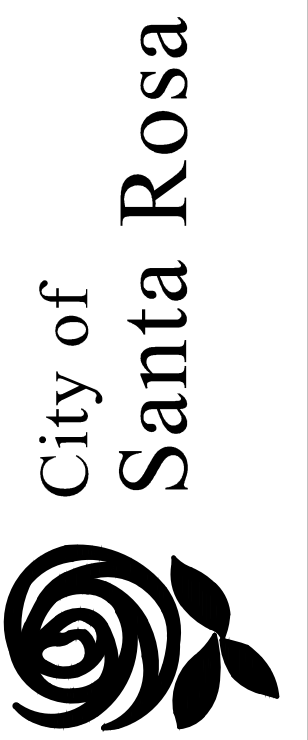


NO.	DATE	REVISION	BY

DWN BY: JW	CHK BY: DZ	DATE: 6/9/2023	SCALE: AI
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FINLEY AQUATIC CENTER
 SPRAY GROUND AND
 RENOVATION PROJECT
A3.0
MECHANICAL BUILDING

CONTRACT NO.
C02336
54 OF 68
FILE NO. 2022-014



NO.	DATE	REVISION	BY

DWN BY: --
 CHK BY: --
 DATE: 6/9/2023
 SCALE: --

FINLEY AQUATIC CENTER
 SPRAY GROUND AND RENOVATION
 PROJECT
E0.2
SCHEDULES - ELECTRICAL

CONTRACT NO.
 C02336
 E02 56 OF 68
 FILE NO. 2022-014

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	DRIVER/ POWER SUPPLY	LIGHT SOURCE	INPUT WATTS	VOLTAGE	MFG/CATALOG #	NOTES
S1	TREE UPLIGHT/DOWNLIGHT, 2 OFF EACH AT EACH TREE	DIE CAST ALUMINUM	POLYCARBONATE LENS	MOUNTED AT 14' ON TREE STRAP, FINAL LOCATION VERIFIED IN FIELD	TO BE ADVISED BY ARCHITECT	WET LISTED	STANDARD WITH REMOTE DIRECT BURIAL TRANSFORMER	UPLIGHT; LED 280 LUMENS, 2700K DOWNLIGHT; LED 344 LUMENS, 2700K	UPLIGHT; 10W DOWNLIGHT; 10W	120V WITH TRANSFORMER	FX LUMINAIRE UPLIGHT :NP-6LED-BZ DOWNLIGHT:DE-9LED-BZ TRANSFORMER:MODEL 600DB DIRECT BURIAL UNIQUE LIGHTING SYSTEMS.TREE STRSP:FX LUMINAIRE TR-24-6P-BZ OR APPROVED EQUIVALENT	
S2	STRING LIGHTS FOR EXTERIOR COURTYARD	UV STABLE EXTERIOR ANODIZED STEEL AND ALUMINUM WITH EMBEDDED STAINLESS WIRE IN CENTER OF CUSTOM CABLE WITH 10 GAUGE CONDUCTORS INSIDE	POLYCARBONATE GLASS LENS	TEGAN MOUNTING BRACKETS FOR POLE MOUNTING AT VARIOUS HEIGHTS	BLACK	IP65	TEGAN REMOTE POWER SUPPLY WITH 0-10V DIMMING	LED. 500 LUMENS, 2700K,82-85 CRI	5W/HEAD	UNV	DOWNLIGHT:EX5-K-C-DL-AL-BK , EX-PF BLACK POWER FEED, EX-BLK POWER CABLE, REMOTE POWER SUPPLY, Direct Burial IP68 Q-Vault Qset-4LED-1x100w-UNV-24VDC-0-10V OR APPROVED EQUIVALENT	1.PROVIDE ALL NECESSARY APPURTENUNCES FOR A COMPLETE SYSTEM. 2.COORDINATE EXACT LOCATION OF REMOTE DRIVER WITH ARCHITECT PRIOR TO PROCUREMENT. 3. PROVIDE SHOP DRAWINGS
A	POOL EQUIPMENT ROOM LIGHTING ANTI-CORROSION	FIBERGLASS	ACRYLIC LENS	SURFACE	WHITE	ANTI CORROSION, HAZARDOUS,WET	STANDARD	LED 5000 LUMENS, 3000K	47W	277V	HUBBELL HEM 4 30 ML DFA E U OR APPROVED EQUIVALENT	
B	EXTERIOR WALL MOUNTED SCONCE	SINGLE PIECE DIE-CAST ALUMINUM	LENS	WALL MOUNTED BRACKET	DARK BRONZE	IP66	0-10V DIMMING	LED 1690 LUMENS, 2700K, 90CRI	15W	UNV	LITHONIA WDGE1 LED, WDGE1-LED-P2-27K-90CRI-VF-MVOLT-SRM-DOBTDX OR APPROVED EQUIVALENT	

NOTES:

- THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
- DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.
- COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.
- SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
- PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND DIMMABLE LED DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
- REMOTE DRIVERS: UL LISTED FOR THEIR APPLICATION. DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.
- PROVIDE COMMISSIONING OF THE LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH CALIFORNIA TITLE 24 LIGHTING COMMISSIONING REQUIREMENTS.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

ZONE	CONTROL
PUMP ROOM	ON/OFF SWITCH AT DOOR
EXTERIOR LIGHTING	EXTERIOR LIGHTING CONTROLLED BY ASTRONOMICAL TIMECLOCK TO BE "ON" AT DUSK AND "OFF" AT DAWN. TREE LIGHTS ON SEPARATE ZONE TO STRING LIGHTS. PROVIDE MANUAL OVERRIDE DIMMER SWITCH FOR EACH ZONE IN EXISTING ELECTRICAL ROOM NEXT TO EXISTING CONTROLS. EXSITING CONTROLS TO REMAIN.

GENERAL NOTES:

- REFER TO SPECIFICATION SECTION 26 09 43 IN CONJUNCTION WITH THIS SCHEDULE
- LIGHTING CONTROLS TO COMPLY WITH CALIFORNIA TITLE 24 2019
- PROVIDE INITIAL START UP TRAINING WITH OWNER AND DESIGN TEAM, AND AN ADDITIONAL VISIT FOR ADJUSTMENTS ONCE AFTER OCCUPANCY.
- BASIS OF DESIGN N-LIGHT FRESCO PANEL WITH TIMECLOCK

STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: FINLEY COMMUNITY PARK
Project Address: 2060 W College Ave
Date Prepared: 7/18/2022

Table with 5 columns: 01 Project Location (city), 02 Climate Zone, 03 Occupancy Types Within Project, 04 Total Conditioned Floor Area (ft²), 05 Total Unconditioned Floor Area (ft²), 06 # of Stories (Habitable Above Grade).

Table with 5 columns: 01 Scope of Work, 02 Calculation Method, 03 Area (ft²), 04 Calculation Method, 05 Area (ft²). Includes rows for New Lighting System and Existing Lighting System.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft

STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: FINLEY COMMUNITY PARK
Project Address: 2060 W College Ave
Date Prepared: 7/18/2022

Table with 9 columns: 01 Lighting in conditioned and unconditioned spaces, 02-04 Allowed Lighting Power per §140.6(b), 05 Adjusted Lighting Power per §140.6(a), 06-08 Compliance Results.

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Table with 10 columns: 01 Name or Item, 02 Complete Luminaire Description, 03 Modular (Track) Fixture, 04 Small Aperture & Color Change, 05 Watts per luminaire, 06 How is Wattage determined, 07 Total Luminaire, 08 Excluded per §140.6(a)(3), 09 Design Watts, 10 Field Inspector.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft

STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: FINLEY COMMUNITY PARK
Project Address: 2060 W College Ave
Date Prepared: 7/18/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE
*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(5) is adjusted to be 75% of their rated wattage.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

Table with 12 columns: 04 Area Description, 05 Complete Building or Area Category Primary Function Area, 06 Area Controls §130.1(a), 07 Multi-Level Controls §130.1(b), 08 Shut-Off Controls §130.1(c), 09 Primary/Sky Light Daylighting §130.1(d), 10 Secondary Daylighting §140.6(d), 11 Interlocked Systems §140.6(a)(1), 12 Field Inspector.

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)(2)

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft

STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: FINLEY COMMUNITY PARK
Project Address: 2060 W College Ave
Date Prepared: 7/18/2022

Table with 6 columns: 01 Area Description, 02 Complete Building or Area Category Primary Function Area, 03 Allowed Density (W/ft²), 04 Area (ft²), 05 Allowed Wattage (Watts), 06 Additional Allowance / Adjustment.

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

Table with 10 columns: 01 Area Description, 02 Primary Function Area, 03 Applicable Qualifying Lighting System from Table 140.6-C, 04 Allowed Density (W/ft² or W/ft or W/unit), 05 Ltg Area, Length of ATM/Mirror (ft², ft, or #), 06 Extra Allowance (Watts), 07 Luminaire Name or Item Tag, 08 Watts per Luminaire, 09 Number of Luminaires, 10 Total Design Watts.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft

STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: FINLEY COMMUNITY PARK
Project Address: 2060 W College Ave
Date Prepared: 7/18/2022

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft

STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: FINLEY COMMUNITY PARK
Project Address: 2060 W College Ave
Date Prepared: 7/18/2022

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table with 4 columns: Yes, No, Form/Title, Field Inspector (Pass/Fail).

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table with 4 columns: Yes, No, Form/Title, Field Inspector (Pass/Fail).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft

STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: FINLEY COMMUNITY PARK
Project Address: 2060 W College Ave
Date Prepared: 7/18/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft

STATE OF CALIFORNIA
Outdoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: FINLEY COMMUNITY PARK
Project Address: 2060 W College Ave
Date Prepared: 7/18/2022

Table with 5 columns: 01 Project Location (city), 02 Climate Zone, 03 Outdoor Lighting Zone per Title 24 Part 1 §10.114, 04 Total Illuminated Hardscape Area (ft²), 05 Total Illuminated Area (ft²).

B. PROJECT SCOPE

Table with 5 columns: 01 New Lighting System, 02 Must Comply with Allowances from §140.7, 03 Altered Lighting System, 04 Is your alteration increasing the connected lighting load (Watts)?, 05 Yes/No.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft

STATE OF CALIFORNIA
Outdoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: FINLEY COMMUNITY PARK
Project Address: 2060 W College Ave
Date Prepared: 7/18/2022

C. COMPLIANCE RESULTS

Table with 9 columns: 01 General Hardscape Allowance, 02 Per Application §140.7(d)(2), 03 Sales Frontage §140.7(d)(2), 04 Ornamental §140.7(d)(2), 05 Per Specific Area §140.7(d)(2), 06 Existing Power Allowance §141.0(b)(2), 07 Total Allowed (Watts), 08 Total Actual (Watts), 09 Compliance Results.

D. EXCEPTIONAL CONDITIONS

E. ADDITIONAL REMARKS

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft

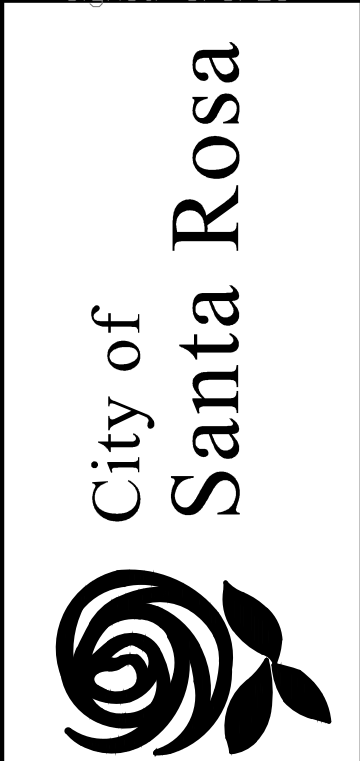
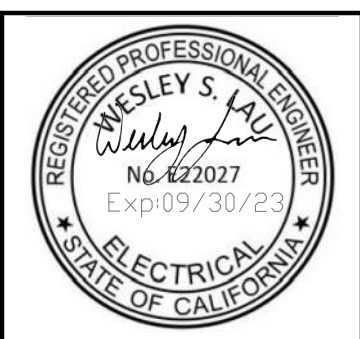


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Table with 2 columns: DWN BY, CHK BY, DATE, SCALE.

FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION PROJECT
E0.3
TITLE 24 - ELECTRICAL

CONTRACT NO. C02336
E03 57 OF 68
FILE NO. 2022-014



Sheet: 6/6/23

City of Santa Rosa



INTERFACE ENGINEERING PROJECT CONTACT Wesley Lau 49 Stevenson Street, Suite 660 Santa Rosa, CA 95405 TEL: 415-489-7240 www.interfaceengineering.com

Table with 3 columns: NO., DATE, REVISION. Includes a 'BY' column for the revision.

DWN BY: -- CHK BY: -- DATE: 6/9/2023 SCALE: --

FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION PROJECT E0.4 TITLE 24 - ELECTRICAL

CONTRACT NO. C02336 E04 58 OF 68 FILE NO. 2022-014

STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTO-E FINLEY COMMUNITY PARK Report Page: NRCC-LTO-E (Page 3 of 7) Project Name: 2060 W College Ave Date Prepared: 7/18/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE Table with columns: Q1-Q10, Name or Item Tag, Complete Luminaire Description, Watts per luminaire, How is Wattage determined, Total number luminaires, Luminaire Status, Excluded per §140.7(a), Design Watts, Cutoff Req. > 6,200 Initial lumen output §130.2(b), Field Inspector Pass/Fail.

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a status; EXCEPTION 2 to §130.2(b) FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) ...

G. CUTOFF REQUIREMENTS (BUG) This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-07-18 10:54:00

STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTO-E FINLEY COMMUNITY PARK Report Page: NRCC-LTO-E (Page 4 of 7) Project Name: 2060 W College Ave Date Prepared: 7/18/2022

H. OUTDOOR LIGHTING CONTROLS Table with columns: Q1-Q5, Area Description, Shut-Off §130.2(c)(1), Auto-Schedule §130.2(c)(2), Motion Sensor §130.2(c)(3), Field Inspector Pass/Fail.

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Not permitted by health & safety to be turned off; EXCEPTION 2 to §130.2(c) Outdoor Exception 1 to Section 130.2(c)(3); Less than 40W per fixture.

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-07-18 10:54:00

STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTO-E FINLEY COMMUNITY PARK Report Page: NRCC-LTO-E (Page 5 of 7) Project Name: 2060 W College Ave Date Prepared: 7/18/2022

I. LIGHTING POWER ALLOWANCE (per §140.7) Table with columns: Q2-Q10, Area Description, Surface Type, Illuminated Area (ft²), Allowed Density (W/ft²), Area Allowance (Watts), Perimeter Length (ft), Allowed Density (W/ft), Linear Allowance (Watts), Total General AWA + LWA (Watts).

J. LIGHTING ALLOWANCE: PER APPLICATION This section does not apply to this project. K. LIGHTING ALLOWANCE: SALES FRONTAGE This section does not apply to this project. L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project. M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-07-18 10:54:00

STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTO-E FINLEY COMMUNITY PARK Report Page: NRCC-LTO-E (Page 6 of 7) Project Name: 2060 W College Ave Date Prepared: 7/18/2022

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Table with columns: Yes/No, Form/Title, Field Inspector Pass/Fail.

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Table with columns: Yes/No, Form/Title, Field Inspector Pass/Fail.

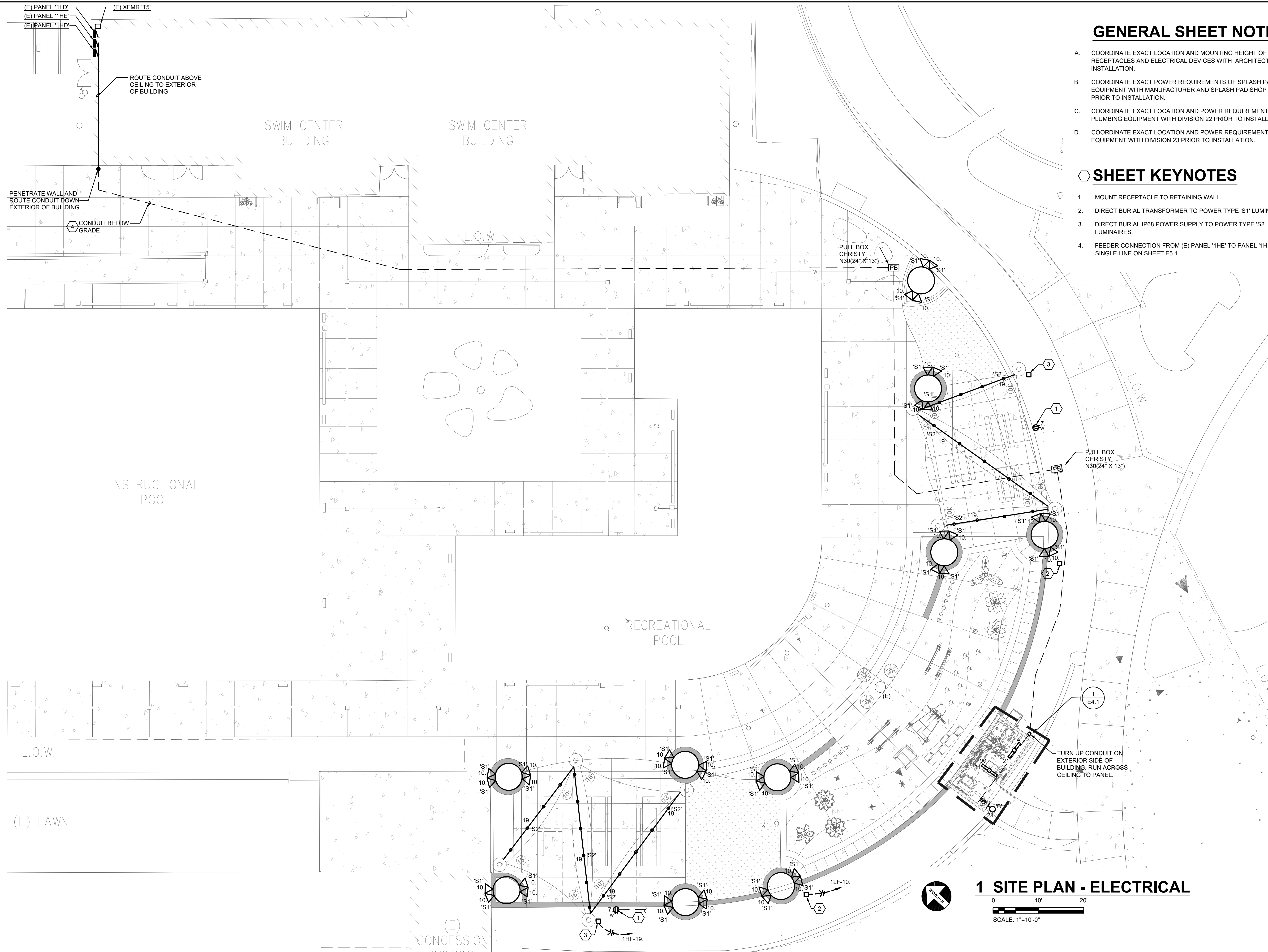
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STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTO-E FINLEY COMMUNITY PARK Report Page: NRCC-LTO-E (Page 7 of 7) Project Name: 2060 W College Ave Date Prepared: 7/18/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Wesley Lau Signature Date: 2022-07-18

RESPONSIBLE PERSON'S DECLARATION STATEMENT I verify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) ...

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-07-18 10:54:00



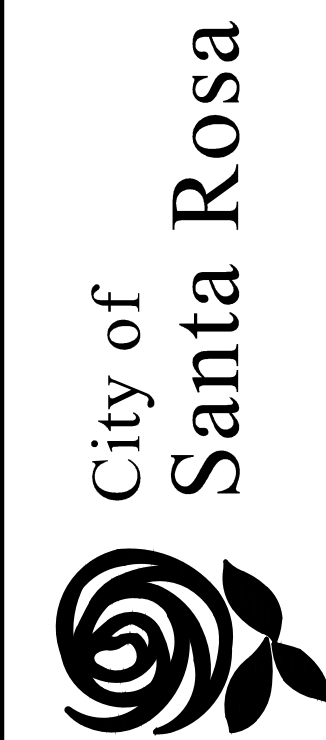
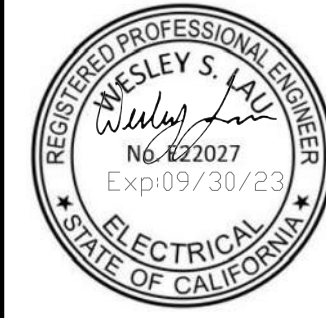
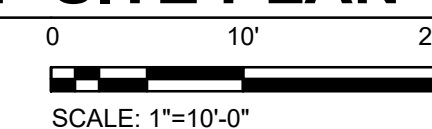
GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- B. COORDINATE EXACT POWER REQUIREMENTS OF SPLASH PAD EQUIPMENT WITH MANUFACTURER AND SPLASH PAD SHOP DRAWINGS PRIOR TO INSTALLATION.
- C. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF PLUMBING EQUIPMENT WITH DIVISION 22 PRIOR TO INSTALLATION.
- D. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC EQUIPMENT WITH DIVISION 23 PRIOR TO INSTALLATION.

SHEET KEYNOTES

- 1. MOUNT RECEPTACLE TO RETAINING WALL.
- 2. DIRECT BURIAL TRANSFORMER TO POWER TYPE 'S1' LUMINAIRES.
- 3. DIRECT BURIAL IP68 POWER SUPPLY TO POWER TYPE 'S2' LUMINAIRES.
- 4. FEEDER CONNECTION FROM (E) PANEL '1HE' TO PANEL '1HF'. SEE SINGLE LINE ON SHEET E5.1.

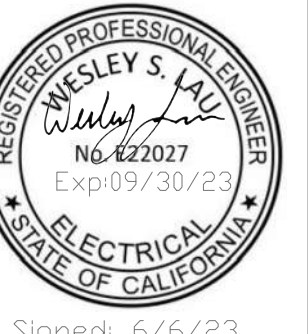
1 SITE PLAN - ELECTRICAL



INTERFACE
ENGINEERING
PROJECT: 2021-0108
CONTACT: Wesley Lau
89 Stevenson Street, Suite 660
Santa Rosa, CA 95405
TEL: 415-483-7240
www.interfaceengineering.com

NO.	DATE	REVISION	BY

DWN BY: --	CHK BY: --	DATE: 6/9/2023	SCALE: --
FINLEY AQUATIC CENTER SPRAY GROUND AND RENOVATION PROJECT E1.1 SITE PLAN - ELECTRICAL			
CONTRACT NO. C02336			
E11 59 OF 68			
FILE NO. 2022-014			



City of
Santa Rosa



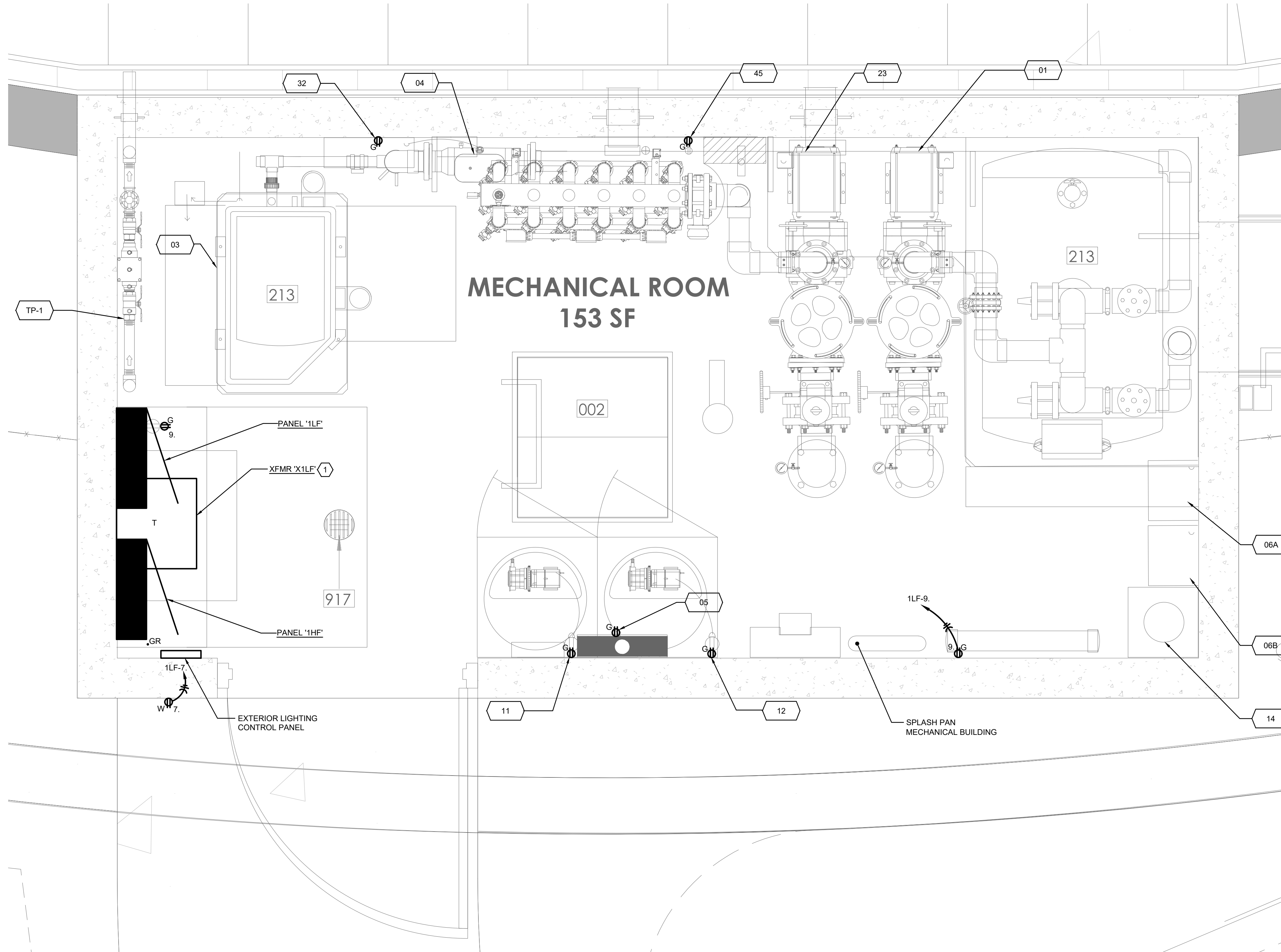
INTERFACE
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GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- B. COORDINATE EXACT POWER REQUIREMENTS OF SPLASH PAD EQUIPMENT WITH MANUFACTURER AND SPLASH PAD SHOP DRAWINGS PRIOR TO INSTALLATION.
- C. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF PLUMBING EQUIPMENT WITH DIVISION 22 PRIOR TO INSTALLATION.
- D. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH DIVISION 23 PRIOR TO INSTALLATION.
- E. COORDINATE REQUIREMENTS WITH "POOL EQUIPMENT ELECTRICAL SCHEMATIC" ON 5/AQ9-1.

SHEET KEYNOTES

- 1. TRANSFORMER SHALL BE WALL-MOUNTED. PROVIDE WALL-MOUNTED BRACKET BY MANUFACTURER EATON WMB05 OR EQUAL. REFER TO STRUCTURAL DETAIL 12/S1.1 FOR MORE INFORMATION.



EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	VOLTS / PHASE	LOAD	CONNECTION TYPE	WIRE / CONDUIT	CIRCUIT	NOTES
01	RECIRCULATION PUMP				203		1
03	GAS POOL HEATER	120/1	5.0 A	DIRECT	202	1LF-1.	
04	UV SANITIZER	120/1	390.0 W	DIRECT	202	1LF-3.	
05	AUTOMATED CONTROLLER	120/1	10.0 A	RECEPTACLE	202	1LF-5.	
06A	VFD - RECIRCULATION PUMP	480/3	5.0 HP	DIRECT	203	1HF-7,9,11.	
06B	VFD - FEATURE PUMP	480/3	5.0 HP	DIRECT	203	1HF-13,15,17.	
11	ACID STORAGE TANK	120/1	500.0 W	RECEPTACLE	202	1LF-2.	
12	CHLORINE STORAGE TANK	120/1	500.0 W	RECEPTACLE	202	1LF-4.	
14	EXHAUST FAN	120/1	53.0 W	DIRECT	202	1LF-6.	
23	FEATURE PUMP				203		1
32	FEATURE CONTROLLER	120/1	15.0 A	RECEPTACLE	202	1LF-8.	
45	WTSBO CONTROLLER	120/1	10.0 A	RECEPTACLE	202	1LF-11.	
TP-1	TRAP PRIMER	120/1	1.0 A	DIRECT	202	1LF-12.	

GENERAL EQUIPMENT CONNECTION SCHEDULE NOTES

- A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INTALLATION OF WIRING.
- B. INCLUDE THERMAL OVERLOAD PROTECTION WITH MANUAL MOTOR STARTERS.
- C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

EQUIPMENT CONNECTION SCHEDULE NOTES

- 1 PUMP IS CONNECTED VIA VFD (EQUIPMENT 06).

WIRE / CONDUIT SCHEDULE

- 202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.
- 203 3 #12 CU, 1 #12 CU GND., IN 3/4" C.

NO.	DATE	REVISION	BY

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FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT
E4.1
ENLARGED PLANS -
ELECTRICAL

CONTRACT NO. C02336
E41 60 OF 68
FILE NO. 2022-014

1 ENLARGED FLOOR PLAN - POWER
SCALE: 1"=1'-0"

MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BHP	BRAKE HORSEPOWER
CD	CEILING DIFFUSER
CONT.	CONTINUATION
D	DROP
DB	DECIBEL
DIA	DIAMETER
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATING
EF	EXHAUST FAN
EFF	EFFICIENT
ELECT	ELECTRICAL
EXH	EXHAUST
F	FAHRENHEIT
FLA	FULL LOAD AMPS
FT	FEET
HP	HORSEPOWER
ID	INSIDE DIAMETER
IN	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS.	POUNDS
MA	MIXED AIR
MAX	MAXIMUM
MBH	THOUSAND BTU'S PER HOUR
MIN	MINIMUM
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PH	PHASE
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
R	RISE
RA	RETURN AIR
RET	RETURN
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SF	SQUARE FEET
SP	STATIC PRESSURE
T, TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENCE
TH	TOTAL HEAT
TP	TOTAL PRESSURE
V	VOLT
W/	WITH
W	WATT
WC	WATER COLUMN

Diffusers and Grilles

	EXHAUST AIR
	RETURN AIR
	SUPPLY AIR
	DIFFUSER OR GRILLE IDENTIFICATION

Ductwork Fittings

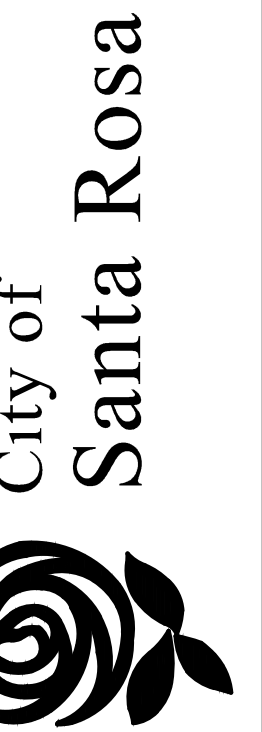
	ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
	CONCENTRIC SQUARE TO ROUND
	CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
	MITERED ELBOW WITH TURNING VANES
	RADIUSED ELBOW
	ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
	FLEXIBLE CONNECTION
	RECTANGULAR DUCT DROP
	RECTANGULAR DUCT RISER
	RECTANGULAR OFFSET LESS THAN 15°
	RECTANGULAR OFFSET MORE THAN 15°
	ROUND DUCT DROP
	ROUND DUCT RISER

General

	RECTANGULAR DUCT SIZING
	ROUND DUCT SIZING
	EQUIPMENT ITEM NUMBER

GENERAL MECHANICAL NOTES

- A. PROVIDE MISCELLANEOUS METALS AND MATERIALS FOR A COMPLETE INSTALLATION (IE. SUPPORT, BRACING, ETC.)
- B. PROVIDE SUBMITTAL FOR REVIEW, IN ACCORDANCE WITH THE SPECIFICATIONS. DO NOT DELIVER TO THE JOB SITE ANY PRODUCTS WITHOUT PRIOR REVIEW BY THE ARCHITECT. ENGINEER WILL PROVIDE MAXIMUM OF TWO REVIEWS OF SUBMITTAL PACKAGE. ARRANGE FOR ADDITIONAL REVIEWS AND/OR EARLY REVIEW OF LONG-LEAD ITEMS AND BEAR COSTS OF THESE ADDITIONAL REVIEWS AT ENGINEER'S STANDARD HOURLY RATES. SUBSTITUTION REQUESTS WILL NOT BE REVIEWED AFTER AWARD OF CONTRACT.
- C. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS TO SEAL WEATHER TIGHT (SEE ARCHITECTURAL ROOFING DETAILS AND SPECIFICATIONS).
- D. EQUIPMENT, HVAC DUCTS, PIPING AND OTHER DEVICES AND MATERIALS INSTALLED OUTDOORS OR EXPOSED TO WEATHER SHALL BE WEATHER-PROOF. SEE EQUIPMENT SCHEDULES FOR BRANCH PIPE SIZES TO EQUIPMENT, WHERE PIPE SIZES ARE NOT SHOWN ON PLANS.



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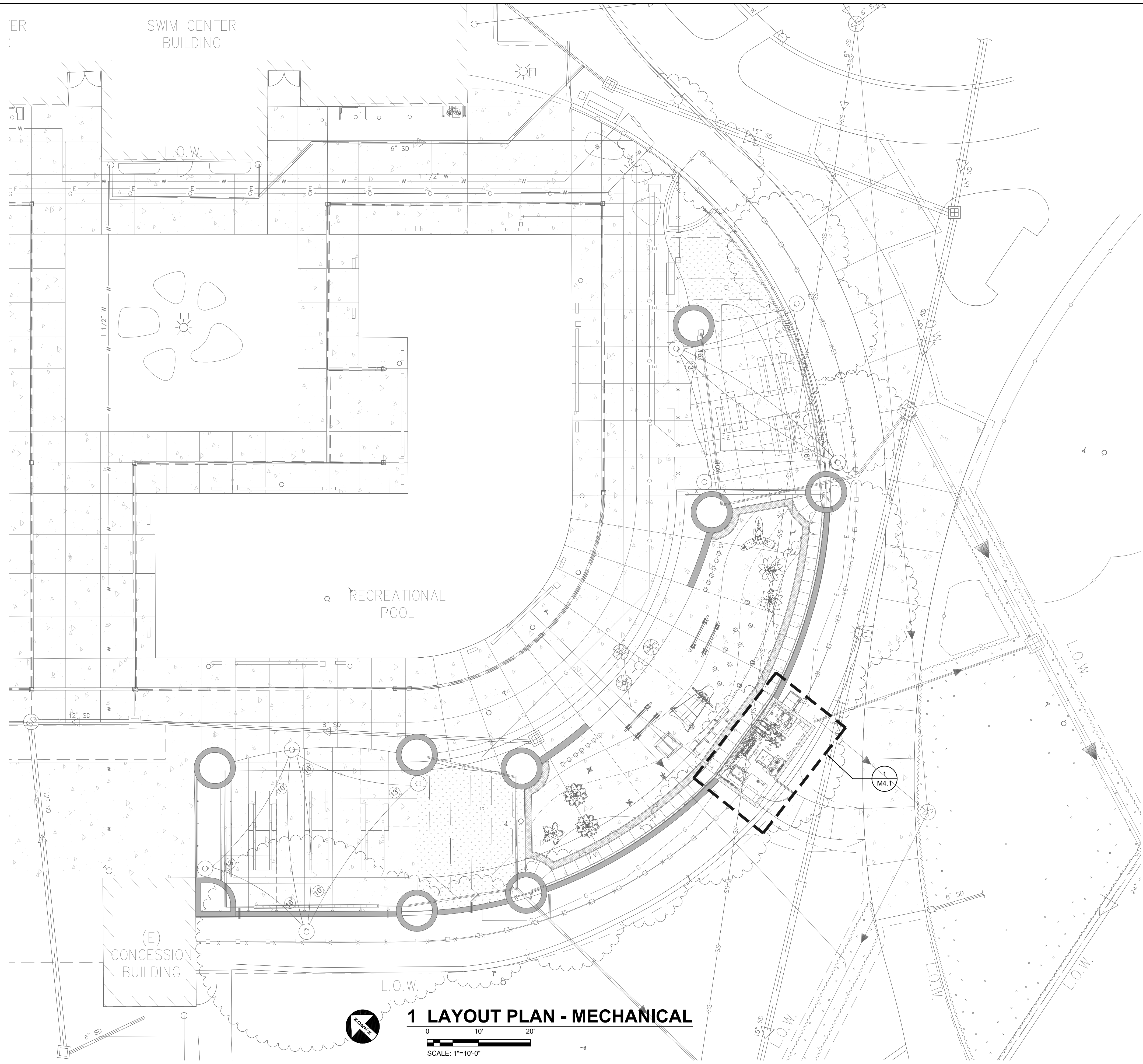
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FINLEY AQUATIC CENTER
 SPRAY GROUND AND RENOVATION PROJECT
M0.1
SYMBOLS LIST AND GENERAL NOTES - MECHANICAL

SHEET INDEX

M0.1	SYMBOLS LIST AND GENERAL NOTES - MECHANICAL
M2.1	SITE PLAN - MECHANICAL
M4.1	ENLARGED PLANS AND DETAILS - MECHANICAL

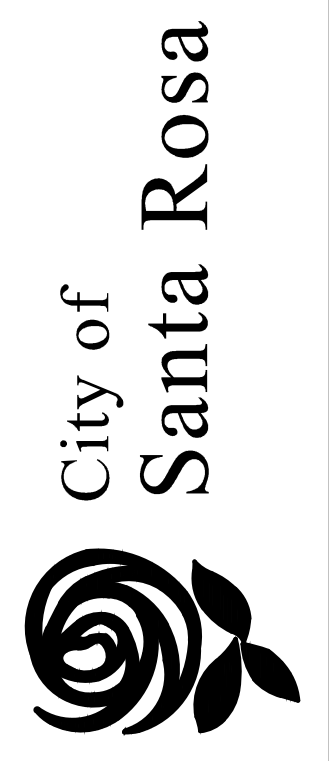
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1 LAYOUT PLAN - MECHANICAL

0 10' 20'

SCALE: 1"=10'-0"



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**FINLEY AQUATIC CENTER
 SPRAY GROUND AND RENOVATION
 PROJECT**

**M2.1
 SITE PLAN - MECHANICAL**

CONTRACT NO. C02336
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BOILER SCHEDULE															
ITEM	AREA SERVED	BASIS OF DESIGN		MAX. GROSS INPUT (MBH)	GAS CONN SIZE (IN.)	AIR INLET SIZE (IN.)	FLUE SIZE (IN.)	MIN FLOW RATE (GPM)	MAX FLOW RATE (GPM)	WATER CONN SIZE (IN.)	ELECTRICAL		APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
		MFR	MODEL								VOLTS	FLA			
3	SPLASH PAD	RAYPAK	S-R410	399	3/4	4	4	40	125	2	120	5	45x22x32	300	1

NOTES:
1 BOILER PROVIDED BY POOL CONSULTANT. INFORMATION PROVIDED FOR REFERENCE ONLY. SEE AQM2-1 FOR MORE INFORMATION.

GENERAL SHEET NOTES

A. REFER TO AQM2-1 FOR MECHANICAL ROOM VENTILATION.

SHEET KEYNOTES

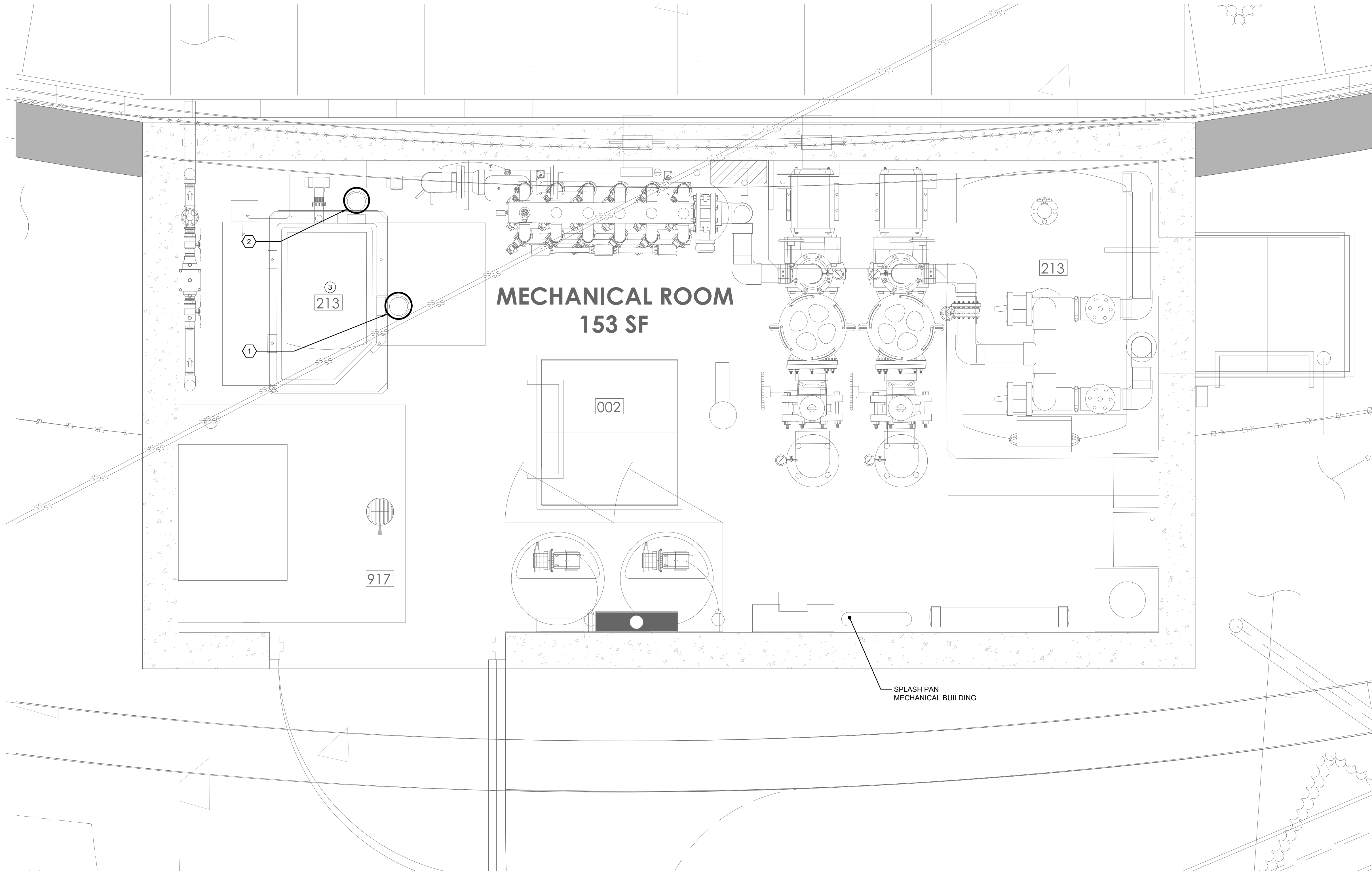
- 4" AL29-4C STAINLESS STEEL DUCT FOR BOILER COMBUSTION AIR INTAKE CONNECTION. SEE POOL CONSULTANT DRAWINGS FOR EXACT LOCATIONS. TERMINATE COMBUSTION AIR INTAKE THROUGH ROOF OF PUMP BUILDING WITH GOOSENECK PER MANUFACTURERS RECOMMENDATIONS. PROVIDE INSECT SCREEN AT INLET.
- 4" AL29-4C STAINLESS STEEL BOILER FLUE. SEE POOL CONSULTANT DRAWINGS FOR EXACT LOCATION. TERMINATE FLUE THROUGH ROOF OF PUMP BUILDING WITH CAT IV FLUE TERMINATION PER MANUFACTURERS RECOMMENDATIONS.



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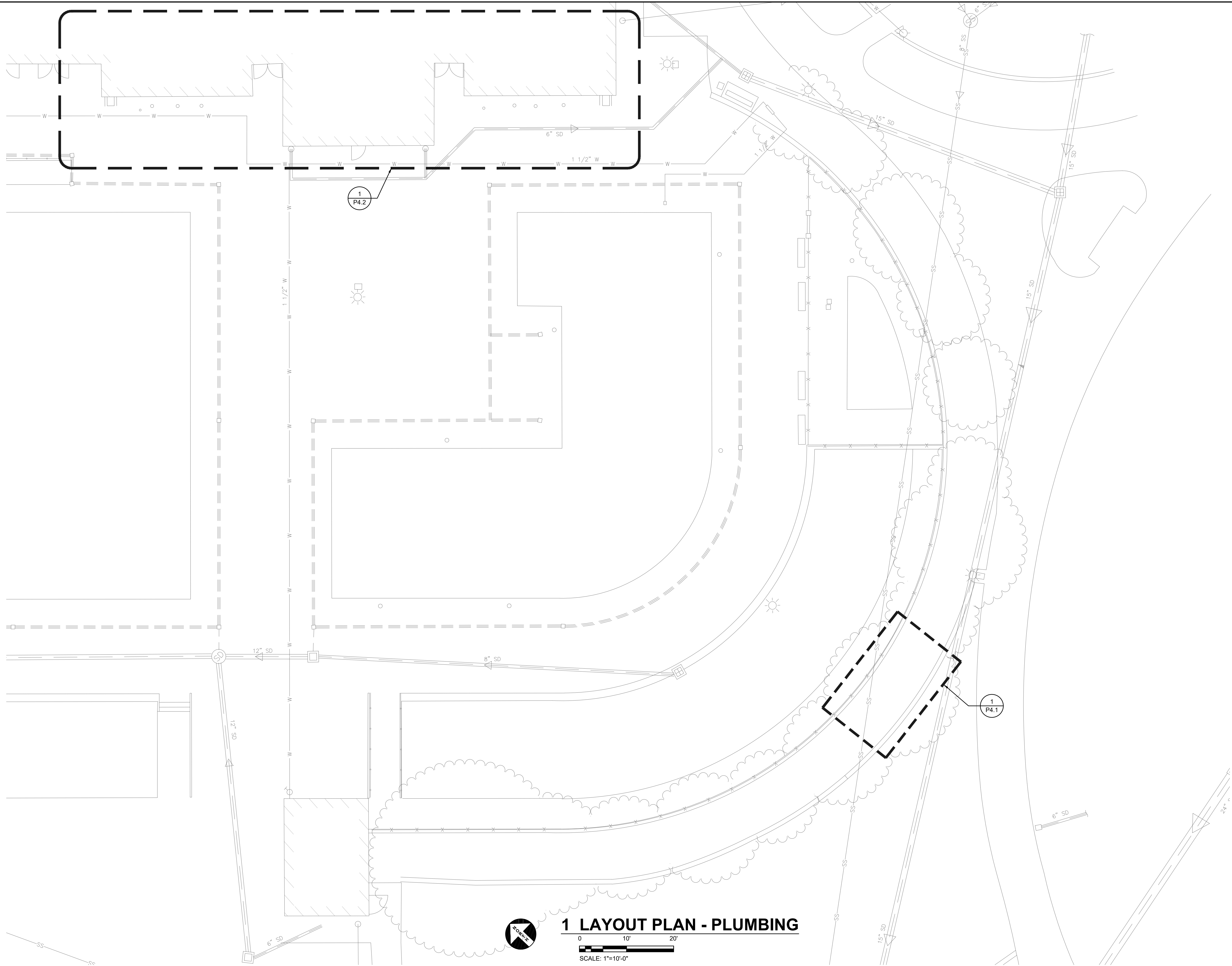


1 ENLARGED FLOOR PLAN - MECHANICAL
 SCALE: 1"=1'-0"

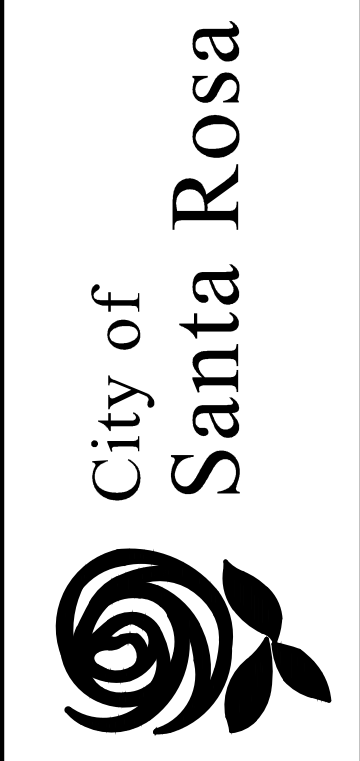
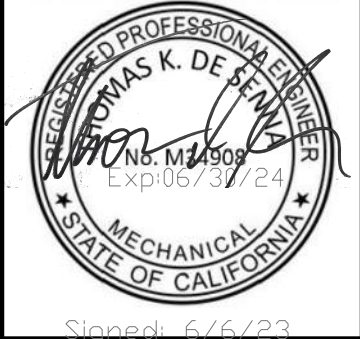
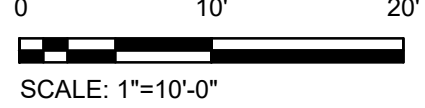
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 M4.1
 ENLARGED PLANS AND DETAILS - MECHANICAL

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1 LAYOUT PLAN - PLUMBING



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SPRAY GROUND AND RENOVATION
PROJECT
P2.1
SITE PLAN - PLUMBING

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SHEET KEYNOTES

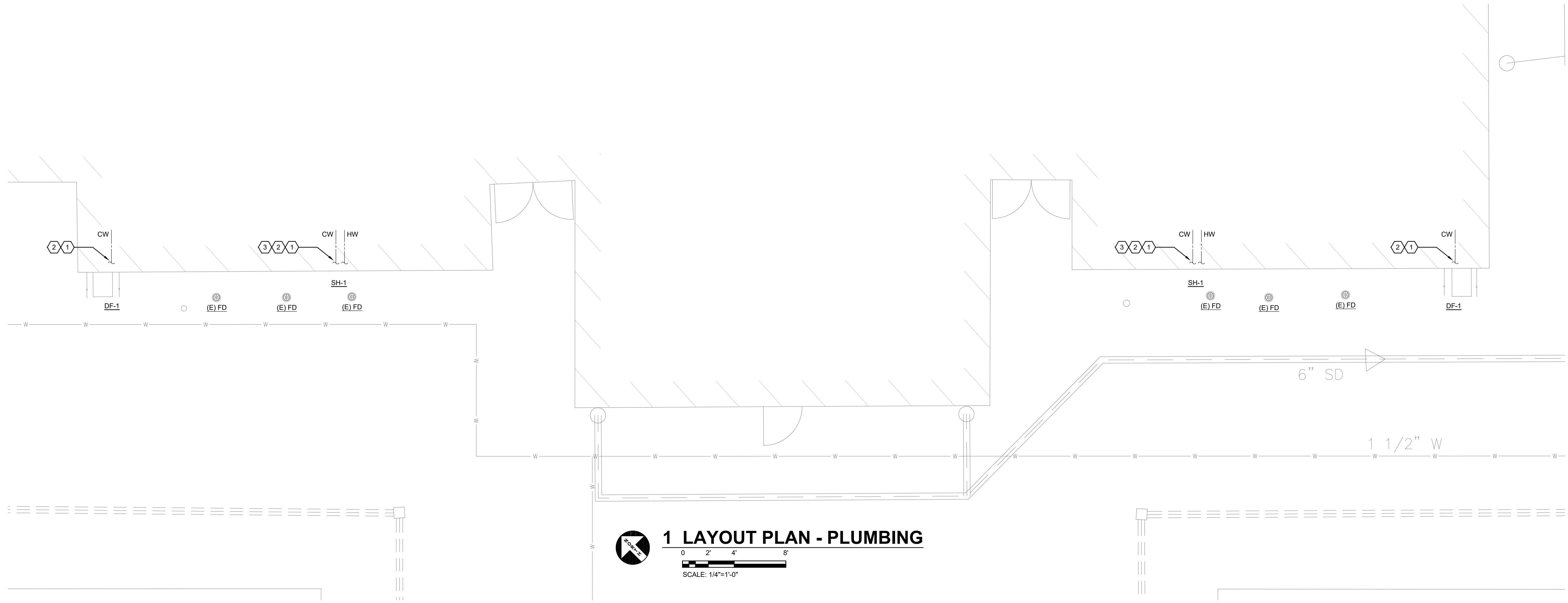
- DEMOLISH EXISTING FIXTURE AND CAP EXISTING CW AND HW LINES FOR FUTURE USE. CONTRACTOR TO FIELD VERIFY EXACT PIPE LOCATIONS.
- RECONNECT EXISTING CAPPED CW AND HW LINES TO NEW FIXTURE.
- UTILIZE EXISTING SHOWER HEAD WALL PENETRATION FOR THE (N) SHOWER HAND SPRAY SUPPLY WALL ELBOW. UTILIZE EXISTING SHOWER VALVE WALL PENETRATION FOR THE (N) SHOWER VALVE. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS.



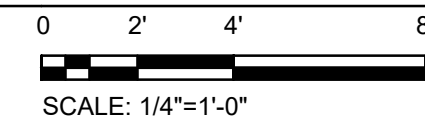
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1 LAYOUT PLAN - PLUMBING



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FINLEY AQUATIC CENTER
SPRAY GROUND AND RENOVATION
PROJECT
P4.2
ENLARGED PLANS -
PLUMBING

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