


ADDENDUM TO THE CONTRACT DOCUMENTS

	ADDENDUM NO. 004
	Project: Solano Community College District Sand Volleyball Courts Project Number: 25-024
	Date: June 9, 2025

Addendum No. 004 – The following clarifications are provided and must be added/considered when completing your bid: Acknowledgement of receipt of this **Addendum No. 004**, is required on the Bid Form. Please clearly note the addendum date and number.

ITEM NO. 1 – GENERAL INFORMATION

This Addendum represents responses raised by various RFI's related to technical questions. It also provides the DSA stamped set of documents (Drawings and Project Manual). Note that, except for the updates noted below for the drawings (revisions identified as delta "A, 06-09-25, Addendum 04") and specifications, the recent DSA approved documents remain the same as those used in the initial Bidding process. No new drawing sheets have been added.

ITEM NO. 2 – SPECIFICATIONS

2.1 Section 31 20 00 – Earth Moving

- The Add related work #1 to item 1.1.D.

2.2 Section 31 23 33 – Trenching, Backfilling and Compaction Technical Standard

- Added related work #4 to item 1.1.B.
- Revised compliance reference in item 1.6.B.
- Revised compliance reference in item 1.7.B.1

ITEM NO. 3 – DRAWINGS

3.1 DSA Approved Drawings

- The drawings have the DSA approval stamp. No other changes were made, except as noted in the following descriptions.

3.2 Sheet G-001 – Title Sheet & Sheet Index

- Added "PC" to abbreviations list.

3.3 Sheet C301 – Site Plan

- Concrete control joint layout added to plan.

3.4 Sheet C501 – Grading Plan

- Revised storm drain routing.

3.5 Sheet C701 – Details

- Detail A has been revised.
- Detail E has been revised.

ITEM NO. 4 - RESPONSES TO QUESTIONS SUBMITTED

RFI C11 **Question:** Sheet G-110 seems to be having formatting issues, making it impossible to review. Please revise and redistribute.

Response: This sheet has now been reprinted to show information that was missing and is included in the DSA approved drawings.

RFI C12 **Question:** There are notes throughout the Civil Drawings concerning Solano Community College Standard Drawings and Specifications. Do these apply to this project? If yes, please provide them directly or indicate where we can find them. The only thing I was able to find online were design standards as part of the Master Plan.

Response: Please refer to the District Standards at the following location:

<https://welcome.solano.edu/measureq/district-standards/>

Review the Standards named “04/03/19 – District Standards – Revised”. The manual provides standards for various elements of the campus. Review the Table of Contents therein. For Civil Standards you are directed to information starting at page #202.

RFI C13 **Question:** There are notes throughout the Civil Drawings concerning alternates, but none are shown on the bid documents. Please clarify if we are to provide alternates in our proposal.

Response: There are no proposed alternates included in this project.

RFI C15 **Question:** Will the district be providing plumbing drawings for the new water fountain shown on G101?

Response: Refer to detail F/C702 for drinking detail.

RFI C16, B4 **Question:** Is the shade structure OFCI? Or is the contractor responsible for it's procurement?

Response: The contractor shall be responsible for procuring the shade structure.

RFI C17 **Question:** Structural Steel note 2 indicates only authorized contractors may install the shade structure. Please provide the list of authorized contractors.

Response: The authorization indicated in structural steel note #2 only requires bidders to be in possession of a verified California Contractor’s License. The shade manufacturer does not require any additional authorization for installers.

RFI C18 **Question:** Please confirm that all structural steel is included by the shade structure vendor.

Response: Confirmed, the shade structure vendor shall include all structural steel.

- RFI C19, B4** **Question:** Is the scoreboard OFCI? Or is the contractor responsible for it's procurement?
Response: The contractor shall be responsible for its procurement.
- RFI C22** **Question:** E100 shows conduit crossing the roadway, under the ADA crosswalk – are we to assume removal & replacement of associated asphalt paving/Concrete in these areas? OR is the intent to bore?
Response: The intent is to bore underneath the existing ADA crosswalk. All existing ADA walkways are to be protected in place. The contractor shall be responsible for maintaining existing accessible slopes and cross slopes.
- RFI C23** **Question:** Please provide data cable requirements for data cables shown on E100.
Response: Data cable shall be Cat6A, exterior type. See Section 27 10 00.2.5.D.9.a for manufacturer.
- RFI C24** **Question:** Please confirm that there are no prequalification requirements for the GC or MEP subcontractors.
Response: Prequalification is not required for General Contractors or Sub-Contractors on this project.
- RFI B1** **Question:** There is no mention of bid alternates on the Notice to Bidders project description nor on the Bid Form, but the plans C301 Site Plan refer to the following as alternates under bid alternate schedule: pre-check shade structure, pre-check digital scoreboard, underground raceways for future site lighting. Are there any alternates on this project, please clarify.
Response: There are no proposed alternates included in this project. The pre-check shade structure and pre-check score board are part of the base scope.
- RFI B5** **Question:** Please provide specs for the concrete paving/curbs.
Response: Refer to sheet C301 for concrete specifications under “Cast-in-Place Concrete Notes.”
- RFI B6** **Question:** Please provide Division 33 Site Utilities – Domestic Water Utilities
Response: See SCCD Standard Division 33 specifications.
- RFI B7** **Question:** Please provide Division 33 Site Utilities – Sanitary Sewer Utilities
Response: See SCCD Standard Division 33 specifications.
- RFI B8** **Question:** Please provide Division 33 Site Utilities – Storm Drainage Utilities
Response: See SCCD Standard Division 33 specifications.

- RFI B9** **Question:** Please provide a detail for the fence mowstrip referenced in callout #2 on sheet C301. We are directed to refer to Architectural Plans, but there is no detail provided in the Architectural drawings.
- Response:** Refer to detail B/C701 for fence mowstrip but refer to C401 "Horizontal Control Plan" for mowstrip widths.
- RFI B10** **Question:** Please provide a detail for the expansion joints within the concrete flatwork, as nothing is shown in detail A/C701 as referenced. If you have a layout of these joints, please also provide, otherwise we will figure 30' OC spacing as stated in general site note 1 on sheet C301
- Response:** See joint layout provided on civil site plan, updated C301 and updated detail A/C701 for joint detail.
- RFI B11** **Question:** Please provide spacing of the "U" reveals shown along the seatwalls in detail F/C701.
- Response:** See updated detail E/C701.
- RFI B12** **Question:** Please provide rebar spacing for the concrete flatwork. This is not shown in detail A/C701.
- Response:** Provide #3 deformed bars @ 18" on center both ways.
- RFI B13** **Question:** Utility trench detail A/C702 shows scarify and compact 12" of subgrade. Please confirm if this is required.
- Response:** The 12" of scarification and compaction at the bottom of the utility trench is not required.
- RFI B14** **Question:** May we please get pictures of the existing restroom's conditions for bidding.
- Response:** Photos of existing restrooms have been uploaded to the District's Bidding Opportunities website. See "Reference Document – Photos Existing Restrms".
- RFI M1** **Question:** Per section 328400 - 2.1 - C, mainline material for pipe size 4" and larger is CL200. However, in sheet L101, irrigation legend shows mainline material to be CL305. Please clarify.
- Response:** Contractor shall use 4" DR-CIS PVC 305 PSI C-900-07.
- RFI M2** **Question:** Per sheet L101, irrigation legend requires drip indicator to be model RAIN BIRD OPENIND. However, in sheet L103 - detail D require model RAIN BIRD XERI-POP MICRO-SPRAY POP-UP. Please clarify.
- Response:** Contractor shall use RAIN BIRD OPENIND for drip indicator.
- RFI M3** **Question:** Per sheet L101, north of the existing restroom building, near the point of connection there is a call out "E" with no description. Please clarify.
- Response:** Note E should state: "EXISTING TRANSITE MAIN LINE IS 5' BELOW GRADE".

RFI M4 **Question:** Per sheet L101, please describe the scope of work required in the existing pump yard.

Response: There is no work required in the existing pump yard.

RFI M5 **Question:** Please provide the specific Landscape and Maintenance Schedule.

Response: The contractor should provide a proposed maintenance schedule as a submittal for review. The schedule should comply with the requirements of Specification 32 90 00 items 3.13 – 3.16.

RFI SB1 **Question:** There is no spec or information provided for the restroom partition scope of work as part of the existing restroom upgrade in the bid documents. Would it be possible to get this information, or pictures of the existing restroom conditions for bidding?

Response: There is no restroom partition scope in this project. Restroom upgrades consist of removing, salvaging, and re-installing existing restroom accessories to comply with current ADA code requirements. See also the response to RFI B14, above.

List of Attachments:

Drawings

- DSA Approved Drawings (6-3-25)
- G-001 – Title Sheet & Index
- C301 – Site Plan
- C501 – Grading Plan
- C701 - Details

Specifications

- DSA Approved Project Manual
- Section 31 20 00 – Earth Moving
- Section 31 23 33 – Trenching, Backfilling, and Compaction Technical Standards

END OF DOCUMENT

SECTION 31 20 00 – EARTH MOVING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This Section includes, but is not necessarily limited to, work necessary or incidental to clearing and grubbing, excavating, grading, filling, and backfilling as shown, described, or reasonably inferred by contract documents.
- B. Geotechnical Investigation Report:
 - 1. A Geotechnical Investigation Report has not been prepared for this project.
- C. Other Investigations:
 - 1. Bidders should visit the site and acquaint themselves with existing conditions.
 - 2. Prior to bidding, bidders may make their own subsurface investigations to satisfy themselves as to site and subsurface conditions, but such investigations shall be performed only under time schedules and arrangements approved in advance by the Architect.
- D. Related Work:
 - 1. Section 01 73 23 - Field Engineering

1.2 PROJECT / SITE CONDITIONS

- A. General
 - 1. Use all means necessary to control dust on or near the site resulting from the performance of the work. Thoroughly moisten all surfaces to prevent dust being a nuisance to the public, adjacent uses, and concurrent work on site.
 - 2. Contractor shall verify existing grades and dimensions before starting any grading operations. If any discrepancy exists, the Engineer shall be notified immediately.
 - 3. Use all means necessary to protect all existing features, products, or items designated to remain, as well as all work of this Section. In the event of damage, repair or replace immediately to the approval of and at no additional cost to the Owner.
 - 4. Protect trees and shrubs, where indicated to remain, by providing a fence around the tree or shrub a sufficient distance away to protect feeder root system and of sufficient height so trees and shrubs will not be damaged in any way as part of this work.
 - 5. All existing benchmarks shall be protected and maintained throughout the course of the work. Monuments or stakes disturbed or destroyed during the course of the work shall be re-established without expense to the Owner.
 - 6. Work shall be conducted as to avoid injury to persons and damage to adjacent property. This includes, but is not necessarily limited to:
 - a) Provide appropriate shoring, bracing, and barriers
 - b) Barricade open depressions and holes occurring as part of this work, and post warning lights on property adjacent to or within public access.
 - c) Operate warning lights during hours from dusk to dawn each day and as otherwise required.

- d) Protect structures, utilities, sidewalks, pavements and other facilities from damage caused by settlement, lateral movement, undermining washout and other hazards created by operations under this Section.
- 7. An effort has been made to define the location of underground facilities within the job site. However, all existing utilities and other underground structures may not be shown on the drawings and their location where shown is approximate. Contractor shall assume sole and complete responsibility for locating all underground utilities and related facilities and for protection of same during the course of the construction. Contact Underground Service Alert U.S.A. of Southern California (800) 642-2444 two working days prior to the start of construction for assistance from the respective utilities. All utilities not a member of U.S.A. must also be notified.
- 8. Any hauling permits required by the local jurisdiction must be obtained and paid for under this contract. Off-site, all local codes and ordinances must be followed.
- 9. Maintain access to the site at all times.
- 10. Erosion control: If the permanent erosion control has not been established before the onset of the rainy season (October 15th) or if the construction occurs during the period between October 15th and April 15th, then erosion control devices shall be provided and available on-site. The contractor is responsible for the placement of such devices, at no cost to the Owner, as directed by the Erosion Control Plan whenever rain is forecast.
- 11. The contractor is responsible for the cost and acquisition of any necessary storm water permits through the Regional Water Quality Control Board and installation and compliance with the permit.

1.3 PROTECTION AND SAFETY

- A. General:
 - 1. Perform all work in accordance with all current regulations, including safety requirements of the California Administrative Code, Title 8, and California Labor Code, Div. 5, Part 3.
 - 2. Comply with all current regulations of the Federal Occupational Safety and Health Act (OSHA).

1.4 QUALITY ASSURANCE

- A. General: Equipment and methods used shall be subject to the Engineer's inspection, test and approval.
- B. Samples: Samples of all materials used shall be supplied and submitted for Engineer's approval wherever specified or as directed by the Engineer.
- C. Testing:
 - 1. The Owner will retain and pay a qualified Geotechnical Engineer to observe performance of work in connection with Site Clearing, Excavation and Fill, Utility Trenching, Subgrade and Roadbed preparation and to perform compaction tests. The Geotechnical Engineer shall take all field samples and do all laboratory testing necessary to ensure compliance of the work to these Specifications or as required by Architect or other regulatory agencies. The Geotechnical engineer shall submit

- results of all testing done during the course of the work to the Owner, Engineer, and Contractor.
- 2. Notify testing lab a minimum of 48 hours in advance of testing required to satisfy requirements of this section.
- 3. Should testing specified above show work which does not satisfy these Specifications, the Contractor shall pay, through the Owner, for all additional tests required to determine the extent of work that is not satisfactory and for all additional tests necessary to demonstrate compliance with these specifications.
- D. Certification Upon Completion of the Work: Contractor shall certify in writing to the Owner and the Engineer that all earthwork was performed in accordance with this specification and as shown on drawings.

1.5 REFERENCES

- A. General
 - 1. In addition to complying with all current, applicable codes and regulations, including Chapter 18 of the 2022 California Building Code, Title 24, Part 2, comply with applicable sections of:
 - a. The geotechnical recommendation of the Geotechnical Investigation Report for this project.
 - 2. All of the above specifications shall be consulted. The most restrictive specification shall apply.

PART 2 - PRODUCTS

2.1 FILL MATERIAL FOR SUB-GRADE PREPARATION

- A. Refer to Section 312333 Trenching, Backfilling, and Compacting.

PART 3 - EXECUTION

3.1 SITE CONDITIONS

- A. Inspection of site: The Contractor shall prior to the bid, visit the site and determine for himself the existing conditions, nature of materials to be encountered and all other facts concerning or affecting the work to be done under the Section.
- B. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper elimination of the work. Do not proceed until unsatisfactory conditions are corrected.
- C. Contractor shall verify, in field, all elevations, flow lines, points of connections. Any discrepancies shall be called to the Architect's attention before proceeding with the work.

3.2 SITE CLEARING

- A. Refer to Section 311000 Site Clearing.

END OF SECTION

SECTION 31 23 33 – TRENCHING, BACKFILLING AND COMPACTING TECHNICAL STANDARD

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide labor, material, equipment, and services necessary to complete the backfilling and compacting as necessary for this project. Section includes, but is not limited to:
 - 1. Select Backfill Material.
 - 2. Aggregate Base.
 - 3. Detectable Tape.
 - 4. Trench Excavation.
 - 5. Pipe Bedding.
 - 6. Trench Backfill.
 - 7. Trench Surfacing.
- B. RELATED SECTIONS
 - 1. Contract General Conditions and Division 1, General Requirements.
 - 2. Section 31 20 00 - Earth Moving
 - 3. Section 33 40 00 - Storm Drainage
 - 4. Section 01 73 23 - Field Engineering

1.2 DEFINITIONS

- A. Engineered Fill:
 - 1. Soil or soil-rock material approved by the Project Manager and transported to the site by the Contractor in order to raise grades or to backfill excavations.
 - 2. Contractor shall provide sufficient tests, and a written statement that all materials brought onto the project site comply with specification requirements.
- B. Excavation: Consists of the removal of material encountered to subgrade elevations.
- C. Subgrade: The uppermost surface of an excavation or the top surface of a fill or backfill immediately below base.
- D. Base: The layer placed between the subgrade and surface pavement in a paving system.
- E. Relative Compaction: In-place dry density of soil expressed as percentage of maximum dry density of same materials, as determined by laboratory test procedure American Society for Testing and Materials (ASTM) D1557.

1.3 SYSTEM DESCRIPTION

- A. Requirements

1. Comply with the recommendations of the Project Engineer.
2. Protect existing trees to remain. No grading is permitted under the drip line of protected trees.
3. Excavations for appurtenant structures, such as, but not limited to, manholes, transition structures, junction structure, vaults, valve boxes, catch basins, thrust blocks, and boring pits, shall be deemed to be in the category of trench excavation.
4. Unless otherwise indicated in the Plans, all excavation for pipelines shall be open cut.

1.4 SUBMITTALS

- A. Comply with provisions of Section 01 32 19 – SUBMITTAL PROCEDURES.
- B. Test Reports: Submit the following report for import material directly to the Project Manager from the Contractor's testing services:
 1. Compaction test reports for aggregate base
- C. Submit description of compactors proposed for use when requesting placement of base material.

1.5 QUALITY ASSURANCE

- A. Requirements of Regulatory Agencies:
 1. Comply with State of California Business and Transportation Agency, Department of Transportation (Caltrans) latest edition of "Standard Specifications." (CSS)
 2. Comply with State of California Code of Regulations (CCR).
 3. Comply with State of California Construction Safety Orders, Latest Edition (CAL/OSHA)
- B. Soil Testing:
 1. District to engage a geotechnical testing agency, to include compaction testing and for quality control testing during fill operations.
 2. Test results will be submitted to the Project Manager.
- C. Codes and Standards:
 1. Perform excavation work in compliance with applicable requirements of authorities having jurisdiction.
 2. California Department of Transportation (CDT):
 - a. Section 19: Earthwork.
 - b. Standard Test Methods: No. 202.
 3. American Society for Testing and Materials (ASTM):
 - a. D1556: Density of Soil by the Sand Cone Method.
 - b. D1557: Moisture Density Relations of Soils and Soil-Aggregate Mixture.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Protect materials before, during and after installation
- B. Comply with provisions of Section 01 50 00 - TEMPORARY FACILITIES AND CONTROLS where necessary to control dust and noise on and near the work caused by operations during construction activities.

1.7 PROJECT CONDITIONS

- A. Environmental Requirements:
 - 1. Protect existing storm drainage system from silt and debris resulting from construction activities. If contamination occurs, remove contamination at no cost to the District.
 - 2. Protect existing streams, ditches and storm drain inlets during work on this project.
- B. Barricade open excavations and post with warning lights.
 - 1. Comply with requirements of Section 01 50 00 - TEMPORARY FACILITIES AND CONTROLS.
 - 2. Operate warning lights and barricades as required.
 - 3. Protect structures, utilities, sidewalks, pavements, and other facilities immediately adjacent to excavations, from damages caused by settlement, lateral movement, undermining, washout, and other hazards.
- C. Protection of Subgrade: Do not allow equipment to pump or rut subgrade, stripped areas, footing excavations, or other areas prepared for project.
- D. Transport all excess soils materials by legally approved methods to disposal areas.
 - 1. Coordinate with the Project Manager.
 - 2. Any additional fill requirements shall be the responsibility of the Contractor.

1.8 EXISTING UTILITIES

- A. Locate existing underground utilities in the areas of work. For utilities that are to remain in place, provide adequate means of protection during excavation operations.
 - 1. Locating of existing underground utilities shall include but not be limited to pot-holing prior to the start of construction.
- B. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult Project Manager, Facilities, and/or utility agency immediately for directions.
 - 1. Cooperate with the Project Manager and public and private utility companies in keeping their respective services and facilities in operation.
 - 2. Repair damaged utilities to the satisfaction of the agency with jurisdiction.

- C. Do not interrupt existing utilities serving facilities occupied and used by the District or others, except when permitted in writing by the Project Manager and then only after acceptable temporary utility services have been provided.

1.9 SEQUENCING AND SCHEDULING

- A. The sequence of operations shall be reviewed by the Project Manager prior to commencement of any work

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General:
1. Import materials will be subject to approval of the Project Engineer.
 2. For approval of imported fill material, notify the Project Manager at least 7 days in advance of intention to import material.

- B. Select backfill material shall be gravel, free of clay or organic matter and shall conform to the following:

<u>Sieve Size</u>	<u>Percent Passing</u>
1 inch	100
¾ inch	90-100
No. 4	35-60
No. 200	2 - 9

- C. For gas pipe and fuel piping select backfill shall be clean, graded building sand conforming to the following gradation:

<u>Sieve Size</u>	<u>Percentage Passing</u>
No. 4	100
No. 200	0 - 5

- D. Water: Clean and free from deleterious amounts of acids, alkalis, salts and organic matter.

2.2 BURIED WARNING AND IDENTIFICATION TAPE

- A. Polyethylene plastic and metallic core or metallic-faced, acid- and alkali-resistant, polyethylene plastic warning tape manufactured specifically for warning and identification of buried utility lines. Provide tape on rolls, 75 mm 3 inch minimum width, color coded as specified below for the intended utility with warning and identification imprinted in bold black letters continuously over the entire tape length. Warning and identification to read, "CAUTION, BURIED (intended service) LINE BELOW" or similar wording. Color and printing shall be permanent, unaffected by moisture or soil.
1. Warning Tape Color Codes.
Red: Electric.
Yellow: Gas, Oil; Dangerous Materials.
Orange: Telephone and Other Communications.
Blue: Water Systems.
Green: Sewer Systems.
White: Steam Systems.
Gray: Compressed Air.
 2. Warning Tape for Metallic Piping: Acid and alkali-resistant polyethylene plastic tape conforming to the width, color, and printing requirements specified above. Minimum thickness of tape shall be 0.003 inch. Tape shall have a minimum strength of 1500 psi lengthwise, and 1250 psi crosswise, with a maximum 350 percent elongation.
 3. Detectable Warning Tape for Non-Metallic Piping: Polyethylene plastic tape conforming to the width, color, and printing requirements specified above. Minimum thickness of the tape shall be 0.004 inch. Tape shall have a minimum strength of 1500 psi lengthwise and 1250 psi crosswise. Tape shall be manufactured with integral wires, foil backing, or other means of enabling detection by a metal detector when tape is buried up to 920 mm 3 feet deep. Encase metallic element of the tape in a protective jacket or provide with other means of corrosion protection.

2.3 BURIED WARNING AND IDENTIFICATION TAPE

- A. Detection wire shall be insulated single strand, solid copper with a minimum of 12 AWG.

PART 3 - EXECUTION

3.1 GENERAL

- A. Prior to commencement of work, become thoroughly familiar with site conditions.
- B. In the event discrepancies are found, immediately notify the Project Manager in writing, indicating the nature and extent of differing conditions.
- C. Backfill excavations as promptly as work permits.

- D. Do not place Engineered fill or backfill until rubbish and deleterious materials have been removed and areas have been approved by the Project Manager.
- E. Place acceptable soil material in layers to required subgrade elevations, for each area classification listed below.
- F. In excavations, use satisfactory excavated or borrow material.
- G. Under grassed areas, use satisfactory excavated or borrow material.

3.2 COMPACTING

- A. Compact by power tamping, rolling or combinations thereof.
 - 1. Where impractical to use rollers in close proximity to walls, stairs, etc., compact by mechanical tamping.
 - 2. Scarify and recompact any layer not attaining compaction until required density is obtained.

3.3 SITE PREPERATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities, which are to remain, from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
- B. Protect existing storm drainage system from silt and debris resulting from construction activities. If contamination occurs, remove contamination at no cost to the District.

3.4 EXISTING UTILITIES

- A. Identity the location of existing utilities.
 - 1. Prior to trenching, the Contractor shall excavate at locations specifically indicated on the Plans, if any, and where new lines cross other utilities of uncertain depth and determine the elevation of the utility in question to ensure that the new line will clear the potential obstruction.
 - 2. The Contractor shall contact Underground Service Alert (USA) at 1-800-227-2600 for assistance in locating existing utilities.
 - 3. If, after the excavation, a crossing utility does present an obstruction, then the line and grade of the new line will be adjusted as directed by the Project Manager to clear the utility
- B. Protect all existing utilities to remain in operation.
- C. Movement of construction machinery and equipment over existing pipes and utilities during construction shall be at Contractor's risk.

- D. Excavation made with power-driven equipment is not permitted within 2 feet of any known utility or subsurface structure.
 - 1. Use hand or light equipment for excavating immediately adjacent to known utilities or for excavations exposing a utility or buried structure.
 - 2. Start hand or light equipment excavation on each side of the indicated obstruction and continue until the obstruction is uncovered or until clearance for the new grade is assured.
 - 3. Support uncovered lines or other existing work affected by excavation until approval for backfill is obtained.
 - 4. Report damage of utility line or subsurface structures immediately to the Project Manager.
- E. Backfill trenches resulting from utility removal in lifts of 8 inches maximum.

3.5 TRENCH EXCAVATION

- A. General
 - 1. Excavation shall include removal of all water and materials that interfere with construction. The Contractor shall remove any water which may be encountered in the trench by pumping or other methods during the pipe laying, bedding and backfill operations. Material shall be sufficiently dry to permit approved jointing.
 - 2. Excavation shall include the construction and maintenance of bridges required for vehicular and pedestrian traffic, support for adjoining utilities.
 - 3. The Contractor shall be responsible to safely direct vehicular and pedestrian traffic through or around his/her work area at all times.
 - 4. The Contractor shall relocate, reconstruct, replace or repair, at his/her own expense, all improvements which are in the line of construction or which may be damaged, removed, disrupted or otherwise disturbed by the Contractor.
- B. Existing Paving and Concrete:
 - 1. Existing pavement over trench shall be sawcut, removed, and hauled away from the job. Existing pavement shall be neatly sawcut along the limits of excavations.
 - 2. Existing concrete over the trench shall be sawcut to a full depth in straight lines either parallel to the curb or at right angles to the alignment of the sidewalk.
 - 3. Boards or other suitable material shall be placed under equipment outrigging to prevent damage to paved surfaces.
- C. Trench Width:
 - 1. The maximum allowable trench widths at the top of the pipe shall be as follows:

<u>Pipe Type</u>	<u>Trench Width (Maximum)</u>
Copper	Outside diameter of barrel plus 18 inches
Plastic	"
Vitrified Clay	"
Ductile-Iron	"
Reinforced Concrete	"

- a. The maximum trench width shall be inclusive of all shoring.
 - b. If the maximum trench width is exceeded, the State's representative may direct the Contractor to encase or cradle the pipe in concrete at no additional charge.
 2. For pipes 3 inch diameter and larger, the free working space on each side of the pipe barrel shall not be less than 6 inches.
- D. Open Trench:
 1. The maximum length of open trench shall be 300 feet or the distance necessary to accommodate the amount of pipe installed in a single day, whichever is greater. No trench shall be left open at the end of the day.
 2. Provisions for trench crossings and free access shall be made at all street crossings, driveways, water gate valves, and fire hydrants.
- E. Excavation Bracing:
 1. The excavation shall be supported and excavation operations shall be conducted in accordance with the California Industrial Accident Commission and CAL/OSHA.
 2. The Contractor shall, at his/her own expense, furnish, put in place, and maintain such sheeting and bracing as may be required to support the sides of all excavations (whether above or below the pipe grade), and to prevent any movement which could in any way diminish the required trench section or otherwise injure or delay the work. The sheeting and bracing shall be withdrawn in a manner such as to prevent any earth movement that might overload the pipe.
- F. Excavation Material:
 1. All excavated material not required for backfill shall be immediately removed and properly disposed of in a legal manner by the Contractor.
 2. Material excavated in streets and roadways shall be laid alongside the trench no closer than 2 feet from the trench edge and kept trimmed to minimize inconvenience to public traffic.
 3. Provisions shall be made whereby all storm and wastewater can flow uninterrupted in gutters or drainage channels.

3.6 PIPE BEDDING

- A. Bedding Excavation: The trench shall be excavated below the grade of the pipe bottom to the following minimum depths:

<u>Pipe Type</u>	<u>Depth</u>
Copper	6 inch
Reinforced Concrete	6 inch
Plastic: 2 inch diameter and smaller	6 inch
Plastic: over 2 inch diameter	6 inch
Ductile Iron	6 inch

1. Stabilization of Trench Bottom: When the trench bottom is unstable due to wet or spongy foundation, trench bottom shall be stabilized with gravel or crushed rock. The State's inspector will determine the suitability of the trench bottom and the amount of gravel or crushed rock needed to stabilize a soft foundation. Soft material shall be removed and replaced with gravel or crushed rock as necessary.
2. Placement of Bedding Material: The trench bottom shall be cleaned to remove all loose native material prior to placing select backfill material. Sufficient select backfill material shall be placed in trench and tamped to bring trench bottom up to grade of the bottom of pipe. The relative compaction of tamped material shall be not less than 90 percent. It is the intention of these requirements to provide uniform bearing under the full length of pipe to a minimum width of 60 percent of the external diameter.

3.7 TRENCH BACKFILL

A. Initial Backfill:

1. Prior to trench backfill, the condition of the trench and laying of pipe must be inspected and approved by the Inspector of Record.
2. Select backfill material shall be used for initial backfill. After the pipe has been properly laid and inspected, select backfill material shall be placed on both sides of the pipe and compacted to final depth as follows:

<u>Pipe Type</u>	<u>Depth</u>
Copper	12 inches above top of pipe
Plastic: Less than 3 inches diameter	12 inches above top of pipe
Plastic: 3 inches diameter and larger	12 inches above top of pipe
Ductile Iron	12 inches above top of pipe
Reinforced Concrete	12 inches above top of pipe

3. Compaction: Initial backfill compaction shall be by mechanical means. The initial backfill material shall be hand tamped in layers not exceeding 4 inches in uncompacted depth and shall be brought up uniformly on both sides of the pipe to avoid bending or distortional stress. After hand tamping, the relative compaction of the initial backfill material shall be not less than 90 percent.
4. Pipe Detection: In trenches containing pressurized plastic pipes, tracer wire shall be placed directly above the pipe and shall be connected to all valves, existing exposed tracer wires, and other appurtenances as appropriate.

B. Subsequent Backfill:

1. Above the level of initial backfill, the trench shall be backfilled with non-expansive native material from trench excavation or with imported select backfill material (Contractor's option). Subsequent backfill shall be free of vegetable matter, stones or lumps exceeding 3 inches in greatest dimension, and other unsatisfactory material. The Inspector of Record shall approve the backfill material prior to placement.

2. Subsequent backfill compaction shall be by mechanical means with backfill material placed in layers not exceeding 8 inches in loose depth. Each layer shall be thoroughly compacted before succeeding layers are placed. The use of machine tampers, except manually held types, shall not be permitted.
3. Subsequent backfill shall be compacted to a relative compaction of not less than 90 percent except the relative compaction shall not be less than 95 percent within 2-1/2 feet of finished permanent surface grade or 1-1/2 feet below the finished subgrade, whichever is greater.

C. Jetting and Ponding:

1. Jetting of trench backfill is not permitted.

D. Compaction Testing:

1. Compaction testing shall be in accordance with California Test Method ASTM D1556 or D1557.

3.8 TRENCH SURFACING

A. Unpaved Areas:

1. In unimproved areas, the trench surface shall be restored to its original condition. No mounds of earth shall be left along the trench. Repair and re-establish grades in settled, eroded, and rutted areas to specific tolerances.
2. Where completed compacted areas are disturbed by subsequent construction operation or adverse weather, scarify surface, reshape, compact to required density and provide other corrective work, including retesting, prior to further construction.

B. Temporary Surfacing:

1. Temporary surfacing shall be a minimum of 2 inches of cutback asphalt on 10 inches of Class 2 aggregate base and shall be placed at all trench locations subject to vehicular or pedestrian traffic.
2. Temporary surfacing shall be laid within one day after backfilling (except where the Contractor elects to place permanent surfacing within this time period).
3. Before the trenching area is opened for traffic, all excess dirt, rock, and debris shall be removed, the street surface shall be swept clean and the pavement shall be washed down with a water truck and pressure nozzle.
4. Temporary surfacing shall be maintained to prevent the occurrence of mudholes and prevent the surface from settling below 1 inch or rising more than 1 inch from the existing pavement grade.

3.9 FILL AND COMPACTING

A. General Requirements:

1. Backfill excavations as promptly as work permits.
2. Do not place Engineered fill or backfill until rubbish and deleterious materials have been removed and areas have been approved by the Project Manager.

3. Place acceptable soil material in layers to required subgrade elevations, for each area classification listed below.
 4. In excavations, use satisfactory excavated or borrow material.
 5. Under grassed areas, use satisfactory excavated or borrow material.
- B. After subgrade compaction has been approved by the Inspector of Record, spread the engineered fill materials in 6 to 8 inch loose lifts and uniformly mixed during the spreading operation.
1. Bring non-expansive fill materials to or slightly above the optimum moisture content and compacted to at least 85 percent of the maximum laboratory dry density, per ASTM D1557.
 2. Bring non-expansive aggregate fill materials to or slightly above the optimum moisture content and compacted to at least 95 percent of the maximum laboratory dry density, per ASTM D1557.
 3. Do not compact the top 12 inches of soil in the planting areas.
 4. Fill sections greater than 5 feet in depth shall be compacted to at least 95 percent.
- C. Repeat compaction procedure until proper grade is attained.
- D. Rocks generated during site earthwork may be used in fill when conforming to material specifications.
- 3.10 MOISTURE CONTROL
- A. Do not resume operations until moisture content and fill density are satisfactory to the Inspector.
- 3.11 DISPOSAL OF EXCESS AND WASTE MATERIALS
- A. Testing Services: Allow testing agency to test each backfill layer. Do not proceed until test results for previously completed work verify compliance with requirements.
- B. When testing agency reports that backfills are below specified density, scarify and moisten or aerate, or remove and replace soil to the depth required, recompact and retest until required density is obtained.
- 3.12 DISPOSAL OF EXCESS AND WASTE MATERIALS
- A. Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerances.
- B. Where completed compacted areas are disturbed by subsequent construction operation or adverse weather, scarify surface, reshape, compact to required density and provide other corrective work, including retesting, prior to further construction.
- 3.13 CLEAN-UP
- A. Remove all debris, equipment, tools and materials upon completion prior to final inspections to the satisfactions of the Project Manager.

- B. In unpaved areas without landscaping, cover with straw erosion control blanket. Follow manufacturer's recommendations for installation. Provide and place straw wattles or biodegradable fiber logs across the slope at the midpoint and along the downhill edge of site. NO soil is to be left uncovered at the completion of construction.

END OF SECTION 31 23 33

SOLANO COMMUNITY COLLEGE

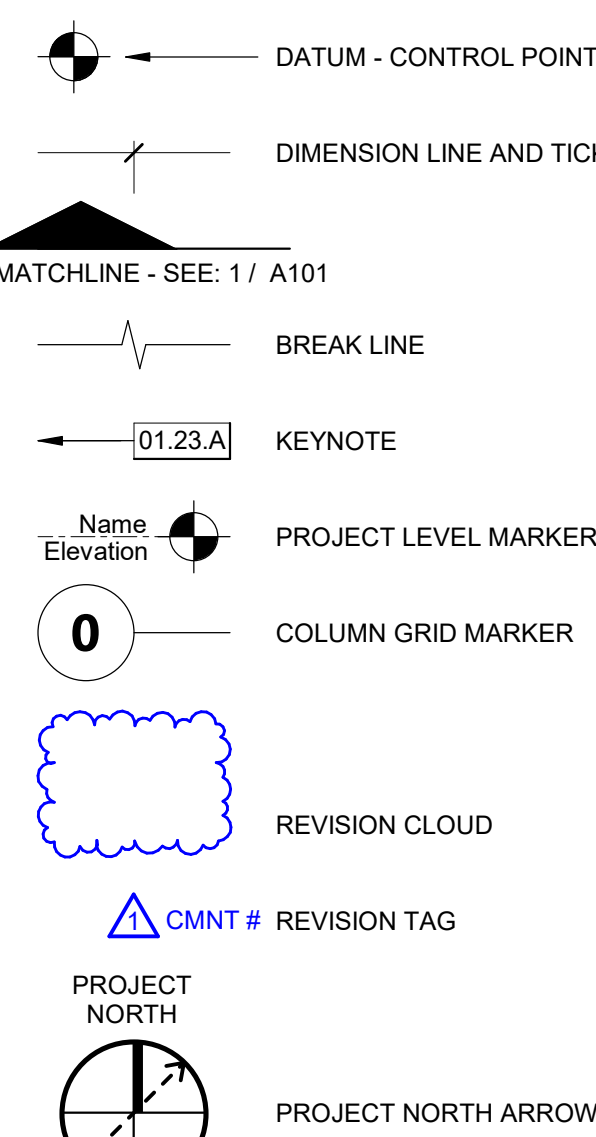
SAND VOLLEYBALL COMPLEX

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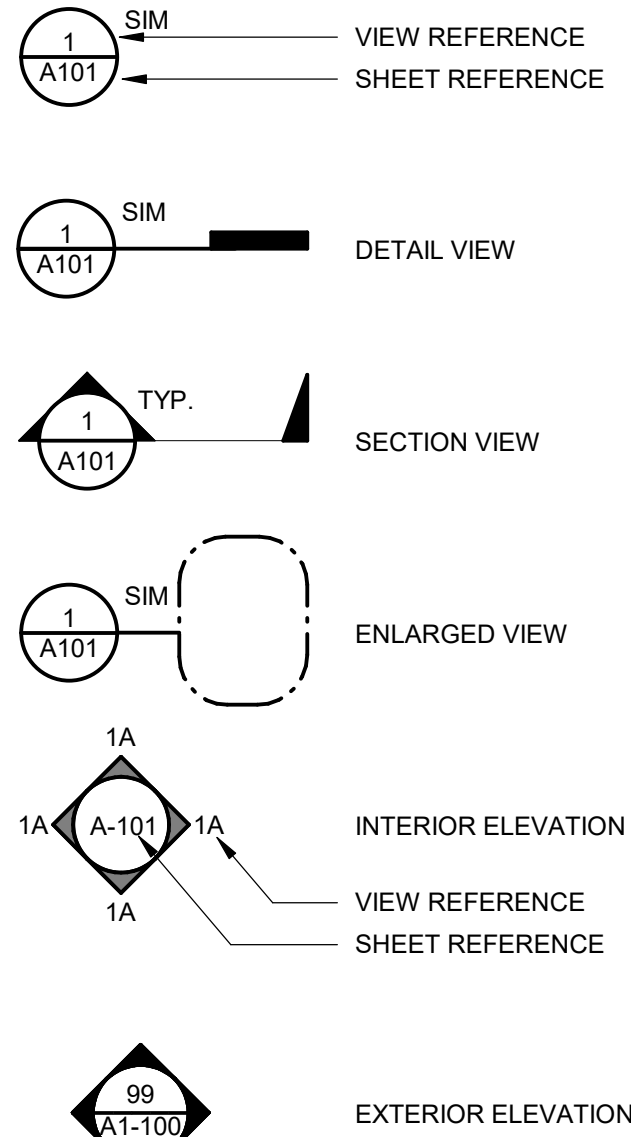
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SYMBOLS

DRAFTING ITEMS



VIEW REFERENCES



ABBREVIATIONS

AT	CENTER LINE	ID	INSIDE DIAMETER
CD	PENNY	INSUL	INSULATION OR INSULATED
LB	POUND	INV	INVERT
LD	PERPENDICULAR	LAV	LAVATORY
AN	ANGLE	MATL	MATERIAL
AB	ANCHOR BOLT	MAX	MAXIMUM
AC	ASPHALTIC CONCRETE	MB	MACHINE BOLT
ACT	ACOUSTICAL CEILING TILE	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MFR	MANUFACTURER OR MANUFACTURING
ALT	ALTERNATE	MH	MAN HOLE
ALUM	ALUMINUM	MIN	MINIMUM
AND	AND APPROXIMATED	MISC	MISCELLANEOUS
ARCH	ARCHITECT	NO	NO OR #
BO	BOARD	NTS	NOT TO SCALE
BLK(G)	BUILDING	OC	ON CENTER
BLOC	BLOCKING	OD	OUTSIDE DIAMETER
BM	BOTTOM OF BEAM	OR	OR
CB	CATCH BASIN	PRE	PRELIMINARY
CL	CAST IRON	PR	PLASTER
CLG	CONSTRUCTION JOINT	PL	PLATE OR PROPERTY LINE
CEILING	CEILING	PL	PLASTER
CL	CLEAR	PLAS	PLASTER LAMINATE
CMU	CONCRETE MASONRY UNIT	PLYWD	PLYWOOD
CO	CLEAN OUT	PNT	PART (NUMBER - SEE SPECS)
CONC	CONCRETE	PTD	PRESSURE TREATED DOUGLAS FIR
CONT	CONTINUOUS	QTY	QUANTITY
CSK	COUNTERSINK	RD	ROUND
CH	COLD WATER	REF	REFRIGERATOR
DEPT	CHANNEL	REIN	REINFORCE OR REINFORCING
DET	DEPARTMENT	RM	ROOM
DF	DETAIL	RO	ROUGH OPENING
DIA	DIAMETER	RWD	REDWOOD
DN	DOWN	SCH	SCHEDULE
DS	DOWN	SD	STORM DRAIN
DWG	DOWNSPOUT	SHR	SHOWER
E	DRAWING	SHT	SHEET
ET	EAST	SHTG	SHEATHING
EB	EXISTING	SIM	SIMILAR
EJ	EXPANSION BOLT	SMACNA	THE ARCH SHEET METAL MANUAL
ELEV	ELEVATION	SPEC	SPECIFICATION
ELEC	ELECTRICAL	SO	SQUARE
EQ	EDGE OF PAVING	SSTL	STAINLESS STEEL
EQU	EQUAL	STD	STANDARD
EQP	EQUIPMENT	STL	STEEL
FE(C)	FIRE EXTINGUISHER (8 CABINET)	SUSP	SUSPENDED
FF	FINISHED FLOOR	SYM	SYMMETRICAL
FG	FINISHED GRADE	TBC	TOP OF CURB OR TOP OF CONCRETE
FN	FINISH	TCD	TOP OF CATCH BASIN
FLG	FLOW LINE	TEL	TELEPHONE
FLR	FLASHING	TEMP	TEMPERATURE OR TEMPERED
FLO	FLOOR	TG	TONGUE & GROOVE
FOF	FACE OF CONCRETE	TP	TOP OF PAVING
FOM	FACE OF FINISH	TV	TELEVISION
FOS	FACE OF MASONRY	TWP	TOP OF WALL
FRP	FIBERGLASS REINFORCED PANEL	UN	UNLESS OTHERWISE NOTED
FT	FOOT OR FEET	VCT	VINYL COMPOSITION TILE
GA	GAUGE	VERT	VERTICAL
GALV	GALVANIZED	VGDF	VERTICAL GRAIN DOUGLAS FIR
GB	GRAB BAR, GRADE BREAK	VTR	VENT THRU ROOF
GYP	GLUE LAMINATED BEAM	WC	WATER CLOSET
GWB	GYPSPUM	WD	WOOD
HB	GYPSPUM WALL BOARD	WF	WIDE FLANGE
HDR	HOSE BIBB	WH	WATER HEATER
HCT	HEADER	WP	WATERPROOF
HORIZ	HORIZONTAL	WS	WOOD SCREW
HTR	HEATER	WSC	WANSOT
HVAC	HEATING/VENTILATING/AIR CONDITIONING	WWF	WELDED WIRE FABRIC
		W/	WITH
		W/O	WITHOUT

GENERAL PROJECT NOTES - COMUNITY COLLEGE

- ALL WORK SHALL CONFORM TO THE BUILDING CODES LISTED IN THESE DOCUMENTS AND ALL CURRENT REVISIONS AND REGULATIONS AS INSTITUTED BY THE AUTHORITY HAVING JURISDICTION (A/H).
- THE PROJECT MANUAL AND SPECIFICATIONS IN CONJUNCTION WITH THESE DRAWINGS AND REFERENCES SHALL FORM A PART OF THE CONTRACT AND SHALL BE REFERRED TO AS THE "DOCUMENTS". THE DOCUMENTS DEFINE THE WORK TO BE PERFORMED AS AGREED TO IN THE CONTRACT.
- CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS.
- A DSA CERTIFIED INSPECTOR WITH CLASS 2 SHALL BE EMPLOYED BY THE DISTRICT AND SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS. THE PROJECT INSPECTOR SHALL BE CERTIFIED BY DSA TO INSPECT.
- APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWING SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO ENSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE ARCHITECT WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK. SEE NOTE 3 FOR DSA INSPECTION REQUIREMENTS.
- ANY DAMAGE DONE TO THE EXISTING CONSTRUCTION DURING THE COURSE OF THIS WORK SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- NOT USED.
- NOT USED.
- NOT USED.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE NEW CONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE THOROUGHLY FAMILIARIZE WITH THE DOCUMENTS. ALL DISCREPANCIES, CONFLICTS OR OMISSIONS WITHIN THE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION. FAILURE TO INFORM THE ARCHITECT PRIOR TO THE START OF WORK SHALL CONSTITUTE ACCEPTANCE OF THE DISCREPANCIES, CONFLICTS OR OMISSIONS BY THE CONTRACTOR AND THE WORK SHALL BE COMPLETED AS DEFINED IN THE DOCUMENTS WITHOUT ADDITIONAL COST OR TIME DUE TO THE DISCREPANCIES, CONFLICTS OR OMISSIONS.
- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE ACQUAINTED WITH THE WORK OF OTHER TRADES WHOSE ACTIVITIES WILL ADJOIN OR BE AFFECTED BY THEIR WORK. THEY SHALL CONSULT WITH THESE OTHER CONTRACTORS OR WORKERS AND STUDY THEIR SHOP DRAWINGS IN ORDER TO COORDINATE THEIR EFFORT TOWARD AVOIDING MISTAKES, OMISSIONS, DISPUTES OR DELAYS.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT AND CONSULTANTS SHALL NOT INCLUDE INSPECTIONS OF THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURE'S REQUIRED, WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL REVIEW STRUCTURAL, ELECTRICAL, DRAWINGS FOR CURBS, PADS FOR SIZE, LOCATION AND APPLICABLE DETAILS. VERIFY FINAL ITEMS WITH SELECTED SUPPLIERS. ALL SUCH WORK IS A PART OF THE WORK.
- ALL DIMENSIONS SHOWN ARE TAKEN TO GRID LINES, THE FACE OF STUD, FACE OF MASONRY OR FACE OF CONCRETE UNLESS NOTED OTHERWISE. VERIFY ALL DIMENSIONS AT THE SITE.
- DO NOT SCALE DRAWINGS, DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE.
- REFERENCE TO ANY PARTICULAR DETAIL OR DRAWING IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT THE APPLICATION OF SUCH DETAIL OR DRAWING. NOTES AND DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS NOTED OTHERWISE.
- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL MAKE FIELD MEASUREMENTS NECESSARY FOR THIS WORK, AND BE RESPONSIBLE FOR THEIR ACCURACY. VERIFY ALL DIMENSIONS, GRADES AND CONDITIONS OF THE WORK BEFORE AND DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL PROTECTIVE WALLS, FENCES AND BARRIERS TO SAFEGUARD THE PUBLIC FROM THE CONSTRUCTION WORK FOR THE ENTIRE TIME THE CONSTRUCTION IS IN PROGRESS.
- THE LOCATION OF ALL STAGING, PARKING, LOADING AND STORAGE OF MATERIALS, EQUIPMENT AND EMPLOYEES ON THE SITE SHALL BE VERIFIED WITH AND APPROVED IN WRITING BY THE OWNER.
- THE CONTRACTOR SHALL DETERMINE LOCATION OF UTILITY SERVICES IN THE AREA OF WORK PRIOR TO BEGINNING EXCAVATION.
- NOT USED.
- NOT USED.
- NOT USED.
- NOT USED.
- FACILITIES: THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SANITARY TOILET FACILITIES ON SITE FOR THE ENTIRE TIME THAT CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL MAINTAIN THE SITE, BUILDING(S) AND ADJACENT STREETS CLEAN AND FREE OF ACCUMULATION OF CONSTRUCTION DEBRIS.
- NOT USED.
- EMERGENCY VEHICLE ACCESS ROADS AND ON-SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTIBLE MATERIALS.

PROJECT DESCRIPTION

THE PROPOSED PROJECT CONSISTS OF A NEW, FOUR - COURT BEACH VOLLEYBALL FACILITY, A (1) PRE-CHECK DIGITAL SCOREBOARD, (1) PRE-CHECK SHADE STRUCTURE, AND ASSOCIATED SITE WORK AND FENCING.

DEFERRED SUBMITTALS

- N/A

EXEMPT ITEMS FROM SPECIAL INSPECTION

PLEASE REFER TO DSA 103 FORM. ITEMS EXEMPTED FROM SPECIAL INSPECTION ARE AS FOLLOWS:

- CONCRETE/MASONRY:
 - POST-INSTALLED ANCHORS FOR THE FOLLOWING: A) EXEMPT NON-STRUCTURAL COMPONENTS (E.G., MECHANICAL, ELECTRICAL, PLUMBING EQUIPMENT - SEE ITEM 7 FOR "WELDING" IN THE APPENDIX BELOW) GIVEN IN CBC SECTION 1617A.1.18 (WHICH REPLACES ASCE 7-16, SECTION 13.1.4) OR B) INTERIOR NONSTRUCTURAL ALL PARTITIONS MEETING CRITERIA LISTED IN EXEMPT ITEM 3 FOR "WELDING" IN THE APPENDIX BELOW
- CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED FOR ITEMS GIVEN IN CBC SECTION 1705A.3.3.2 SUBJECT TO THE REQUIREMENTS AND LIMITATIONS IN THAT SECTION.
- EPOXY SHEAR DOWELS IN SITE FLATWORK AND/OR OTHER NON-STRUCTURAL CONCRETE.
- REINFORCING BAR TESTING FOR ITEMS LISTED IN AND COMPLYING WITH CBC SECTION 1910A.2.
- FREESTANDING SITE WALLS AND RETAINING WALLS PER DSA IR 21-1.

APPLICABLE CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023:
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1
2022 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3
(2021 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4
(2021 APMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5
(2021 APMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6
2022 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 8
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 10
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11
2022 CALIFORNIA REFERENCED STANDARDS CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 12
(PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS)
2022 ASME A17.1/CSA B44-19 SAFETY CODE FOR ELEVATORS AND ESCALATORS
(PER 2022 CBC PART 2 CH 35)
CALIFORNIA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADDITION

PARTIAL LIST OF APPLICABLE STANDARDS
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80. SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

NFPA 13-22- STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
NFPA 14-19- STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
NFPA 10-21- STANDARD FOR PORTABLE FIRE EXTINGUISHERS
NFPA 12-15- STANDARD ON CARBON DIOXIDE EXTINGUISHING SYSTEMS
NFPA 12A-18- STANDARD ON HALON 1301 FIRE EXTINGUISHING SYSTEMS
NFPA 13-22- STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED)
NFPA 17-21- STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS
NFPA 20-21- STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS
NFPA 24-19- STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
NFPA 24-19- STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (AS AMENDED)
NFPA 72-22- NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)
NFPA 80-19- STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES
UL 300-2005(R2010)- STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT
UL 464-03- AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES
UL 521-89- STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS
UL 1971-2002(R2010)- STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED
ICC 300-17- STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS
*ALL PARTS OF THE 2022 TITLE 24 HAVE AN EFFECTIVE DATE OF JANUARY 1, 2023 EXCEPT:
2022 CALIFORNIA ADMINISTRATIVE CODE -EFFECTIVE MARCH 5, 2022

SHEET INDEX

SHEET #	SHEET NAME	REV #	DATE
1	OVERALL GENERAL INFORMATION		
G-000	COVER SHEET		
G-001	TITLE SHEET		
G-101	CODE SITE PLAN		
G-102	LOCAL FIRE AUTHORITY PLAN		
G-110	ENLARGED CODE SITE PLAN		
GENERAL SHEETS TOTAL: 5			
2	CIVIL ENGINEERING		
C101	TOPOGRAPHIC SURVEY		
C201	DEMOLITION PLAN		
C301	SITE PLAN		
C401	HORIZONTAL CONTROL PLAN		
C501	GRADING PLAN		
C601	UTILITY PLAN		
C701	DETAILS		
C702	DETAILS		
C703	DETAILS		
CIVIL SHEETS TOTAL: 9			
3	LANDSCAPE ARCHITECTURE		
L101	IRRIGATION PLAN		
L102	IRRIGATION DETAILS		
L103	IRRIGATION DETAILS		
L201	PLANTING PLAN		
L202	PLANTING DETAILS		
LANDSCAPE ARCHITECTURE SHEETS TOTAL: 5			
4	ARCHITECTURAL DRAWINGS		
A-111	SITE PLAN & DETAILS		
A-112	SITE PLAN & DETAILS		
A-501	ENLARGED RESTROOM		
A-923	SIGNAGE DETAILS		
ARCHITECTURAL SHEETS TOTAL: 4			
8	ELECTRICAL ENGINEERING		
E000	GENERAL INFORMATION		
E100	SITE PLAN OVERALL		
E800	DETAILS		
ELECTRICAL SHEETS TOTAL: 3			
9	FABRIC SHADE STRUCTURE DSA P.C. 04-121917		
T-1.0	TITLE SHEET		
T-2.0	UNIT SELECTION		
T-3.0	T&I FORMS		
11.1-1000	PRODUCT INFORMATION		
11.2-2000	SPECIFICATIONS		
SHEETS TOTAL: 5			
10	SCOREBOARD DSA P.C. 04-122194		
SHEET1	SCOREBOARD PC COVER SHEET		
SHEET2	DSA 103 SPECIAL INSPECTION FORM		
SHEET3	DSA 103 SPECIAL INSPECTION FORM (CONT.)		
SHEET4	EQUIPMENT MOUNTING DETAILS (WITHOUT VIDEO DISPLAY)		
SHEET9	TWO-COLUMN STRUCTURE DETAILS WITH PIER FOUNDATIONS		
SHEETS TOTAL: 5			
OVERALL SHEET TOTAL: 36			

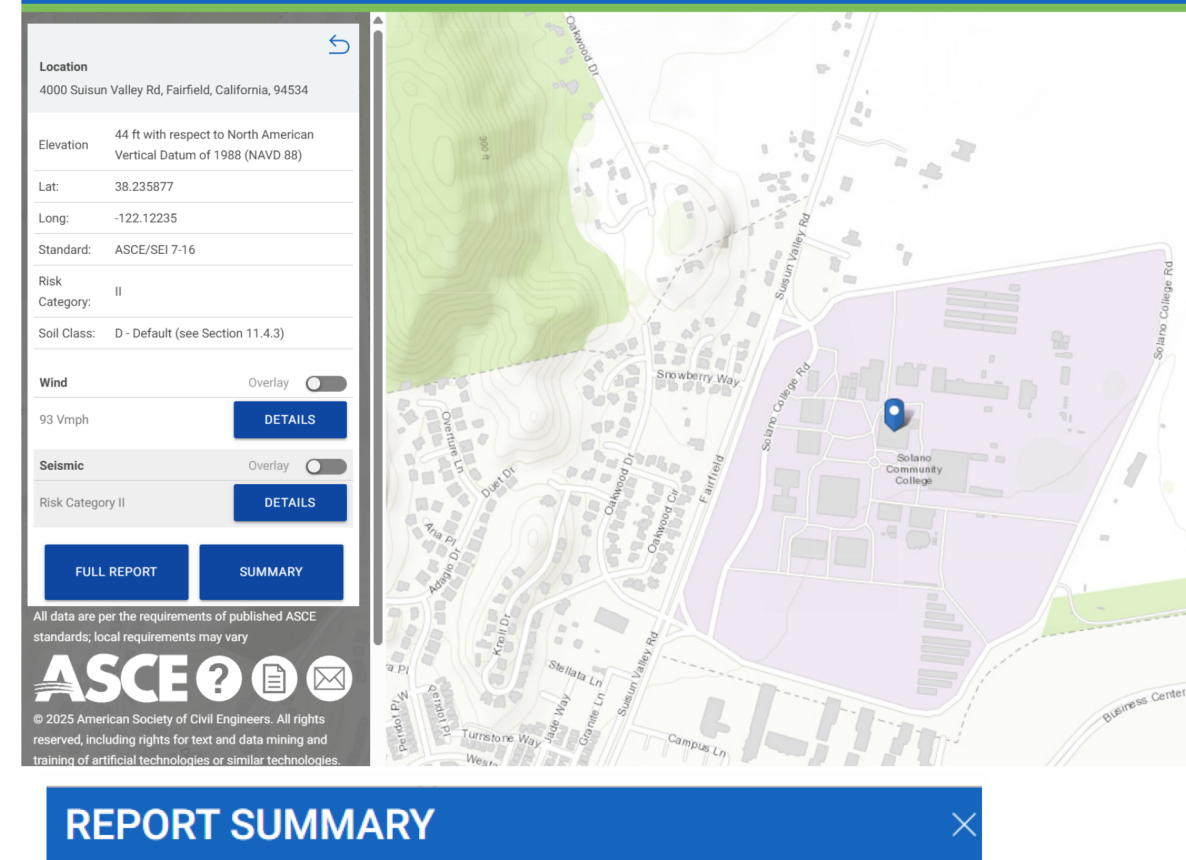
PROJECT LOCATION

SOLANO COMMUNITY COLLEGE



SITE DATA

ASCE HAZARD TOOL



Wind	
Wind Speed	93 Vmph
10-year MRI	64 Vmph
25-year MRI	70 Vmph
50-year MRI	75 Vmph
100-year MRI	79 Vmph
Seismic	
S _g	1.516
S ₁	0.6
F _a	1.2
F _v	N/A
S _{MS}	1.82
S _{M1}	N/A
S _{PS}	1.213
S _{P1}	N/A
T _l	8
PGA	0.602
PGA _{adj}	0.722
FRGA	1.2
I _e	1
C _v	1.403
NO SEISMIC SPECTRUM	Design and MCE _a spectrum data not available for this location
Note	Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

STATEMENT OF GENERAL CONFORMANCE

THE PG AUTHORIZED SHEETS LISTED BELOW ON THE SHEET INDEX OF THIS COVER HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

- DESIGN INTENT, AND IT APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND COORDINATION WITH MY PLANS AND SPECIFICATIONS, AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.


THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17002 AND 81138 OF EDUCATION CODE, AND SECTIONS 4-336, 4-341 AND 4-334 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317 (B))."

I FIND THAT: ☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

☐ THIS DRAWING OR PAGE

☒ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND

☒ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

 10/23/2024
DATE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE:
Francis Chan
PRINT NAME
C-7519 12/31/25
LICENSE NUMBER EXPIRATION DATE

AGENCY APPROVAL DSA# 02-122861

185 CLARA STREET, SUITE 101A
SAN FRANCISCO, CA 94107
TEL 628.212.9200

CONSULTANTS

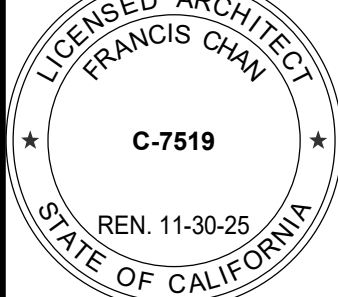
CIVIL ENGINEER
BLAIR, CHURCH & FLYNN
451 CLOVIS AVENUE, SUITE 200
CLOVIS, CA 93612
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ELECTRICAL ENGINEER
ATUM ENGINEERING
3533 YORK LANE
SAN RAMON, CA 94582
TE (913) 961-1658

ARCHITECT STAMP

CONSULTANT STAMP



REVISIONS

NO.	DATE	DESCRIPTION
A	06-09-25	ADDENDUM 04

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PROJECT OWNER & TITLE

SOLANO COMMUNITY COLLEGE
4000 Suisun Valley Rd
Fairfield, CA 94534

SAND VOLLEYBALL COMPLEX

4000 Suisun Valley Rd, Fairfield, CA 94534

SHEET TITLE

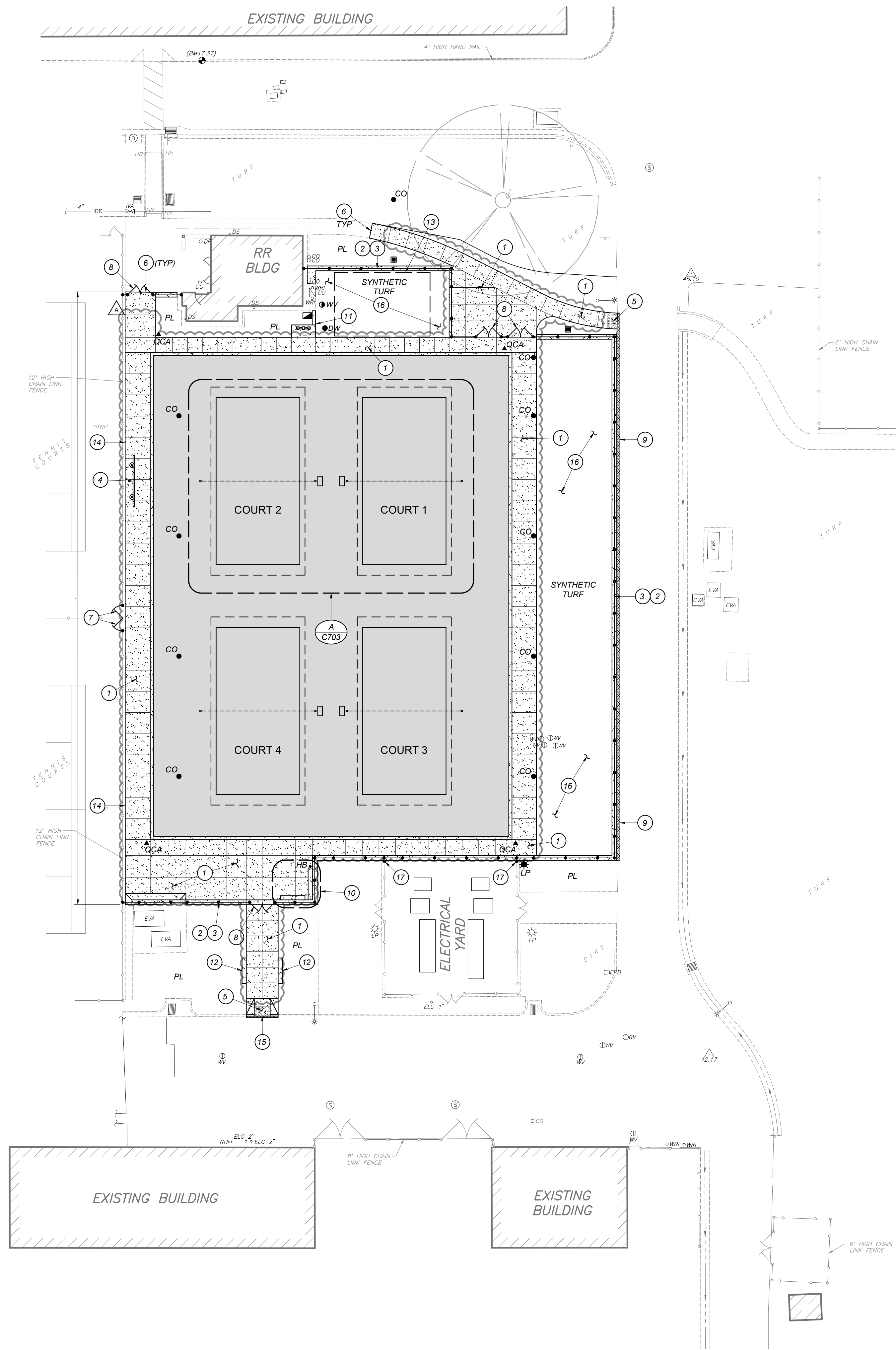
TITLE SHEET

DRAWN BY: XX JOB NUMBER: 24056

SHEET NO.

G-001

DATE: FEBRUARY 14, 2025



SITE LEGEND:

- DETAIL DESIGNATION
DETAIL REFERENCE
SHEET LOCATION
- [A/C701] [DETAIL DESIGNATION / SHEET LOCATION]
- LIMITS OF CONCRETE IMPROVEMENTS
- LIMITS OF ASPHALT PLUG IMPROVEMENTS
- LIMITS OF BEACH VOLLEYBALL COURT SAND BASE
- CHAIN LINK FENCING PER THE ARCHITECTURAL PLANS
- NEW CHAIN LINK GATES PER THE ARCHITECTURAL PLANS. SEE HORIZONTAL CONTROL PLAN FOR WIDTH, HEIGHT TO MATCH ADJACENT FENCE UNLESS NOTED OTHERWISE
- CLEANOUT. SEE GRADING PLAN
- DRINKING FOUNTAIN. SEE UTILITY PLAN
- DRYWELL. SEE UTILITY PLAN
- RELOCATED SITE LIGHT POLE. SEE ELECTRICAL PLANS
- QUICK COUPLER. SEE UTILITY PLAN
- WATER VALVE. SEE UTILITY PLANS
- PLANTER. SEE PLANTING PLANS
- CONCRETE WALK PER DETAIL [A/C701]
- CONCRETE FENCE MOWSTRIP. REFER TO ARCHITECTURAL PLANS
- CHAIN LINK FENCING. SEE ARCHITECTURAL PLANS
- ELECTRICAL AND LIGHTING CONTROL PANELS AND BACKBOARD PER ELECTRICAL PLANS
- DETECTABLE WARNING SURFACE PER DETAIL [H/C701]
- DOWEL PROPOSED CONCRETE TO EXISTING CONCRETE PER DETAIL [C/C701]
- SINGLE SWING GATE. SEE ARCHITECTURAL PLANS
- DOUBLE SWING GATE. SEE ARCHITECTURAL PLANS
- ASPHALT PLUG PER DETAIL [D/C701]
- WASH-DOWN AREA. SEE ENLARGEMENT DETAIL [E/C701]
- CONCRETE MOWSTRIP PER DETAIL [B/C701]
- 8' LONG CONCRETE SEAT WALL PER DETAIL [F/C701]
- 20' x 30' SHADE STRUCTURE. SEE ARCHITECTURAL PLANS
- FINISH CONCRETE SIDEWALK FLUSH WITH ASPHALT TENNIS COURT PAVING TO PROVIDE A SMOOTH TRANSITION AND CONTINUATION OF EXISTING DRAINAGE PATTERN
- CONCRETE CURB RAMP PER DETAIL [G/C701]
- SYNTHETIC TURF, BLUE, CORK INFILL. PER DETAIL [H/C703]
- PROVIDE NEW FENCE END-POST FOR EXISTING FENCE

BID ALTERNATE SCHEDULE:

- PRE-CHECK SHADE STRUCTURE
- PRE-CHECK DIGITAL SCOREBOARD
- UNDERGROUND RACEWAYS FOR FUTURE SITE LIGHTING

SPECIFICATIONS:

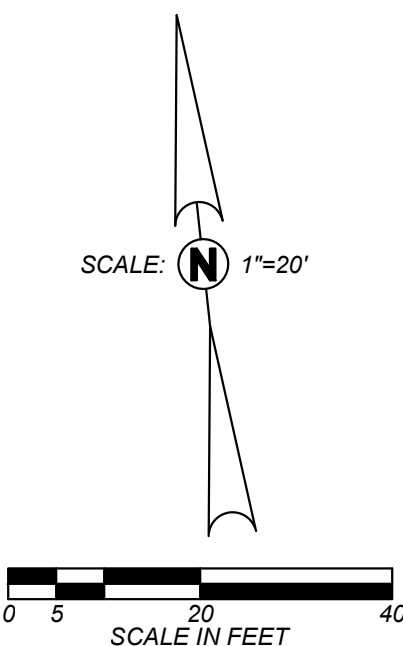
CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS BOOK AND THE SOLANO COMMUNITY COLLEGE STANDARD SPECIFICATIONS AND DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN THE SPECIFICATIONS BOOK AND THE SCC STANDARD SPECIFICATIONS AND DRAWINGS, THE CONTRACTOR SHALL BRING THE DISCREPANCY TO THE ATTENTION OF THE DESIGN TEAM.

GENERAL SITE NOTES:

- ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/C701]
- INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [C/C701]
- NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.
- ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.
- ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.
- 2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-442-2444
- ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE
- ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [B/C702]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS WITHIN VEHICULAR AREAS.

CAST-IN-PLACE CONCRETE NOTES:

- ALL CAST-IN-PLACE CONCRETE SHALL BE PROVIDED TO THE FOLLOWING STANDARDS:
 - CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS, LATEST EDITION
 - ACI 304, 305, 306, 308, 309, 318, AND 347
 - ASTM C-33, C-39, C-94, C-136, C-143, C-150, AND C-309
 - SOLANO COMMUNITY COLLEGE DISTRICT STANDARD 32 12 33 AND 32 32 13
- SUBMIT PROPOSED CONCRETE MIX, POUR PLAN, AND CURING METHODOLOGY TO THE ENGINEER ON RECORD FOR REVIEW AT LEAST 7 DAYS PRIOR TO CONCRETE DELIVERY. SUBMIT LOAD TAGS FOR DELIVERED MATERIAL
- CONCRETE CYLINDER STRENGTH TESTING SHALL BE COMPLETED AT A RATE OF ONE SET OF CYLINDERS FOR EVERY 10 CUBIC YARDS OF PLACED CONCRETE
- CONCRETE MIX DESIGN AND PROPORTIONS SHALL BE IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS
 - MIX DESIGNS WITH FLY ASH CONTENT NO GREATER THAN 15 PERCENT OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS SHALL BE PROPORTIONED PER THE CALTRANS STANDARD SPECIFICATIONS
 - PROVIDE A MAXIMUM OF 4.5 PERCENT AIR ENTRAINMENT, UNLESS NOTED OTHERWISE
 - ALL CONCRETE USED FOR SEATWALLS SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS
 - STRENGTH: 4,000 PSI AT 28 DAYS
 - MAXIMUM AGGREGATE SIZE: 1-INCH
 - CEMENT TYPE: TYPE II
 - CEMENT CONTENT: 6.5 SACKS/YD MINIMUM
 - MAXIMUM WATER/CEMENT RATIO: 0.44 (NON-AIR-ENTRAINED) 0.35 (AIR-ENTRAINED)
 - ADMIXTURE: PER CALTRANS STD SPEC
 - ALL CONCRETE USED FOR SITE FLATWORK SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS
 - STRENGTH: 3,000 PSI AT 28 DAYS
 - MAXIMUM AGGREGATE SIZE: 3/4-INCH
 - CEMENT TYPE: TYPE II
 - CEMENT CONTENT: 5.5 SACKS/YD MINIMUM
 - MAXIMUM WATER/CEMENT RATIO: 0.50
 - ADMIXTURE: PER CALTRANS STD SPEC
 - SAND-CEMENT SLURRY USED FOR EARTHWORK/TRENCH BACKFILL SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS
 - MAXIMUM AGGREGATE SIZE: 3/8-INCH
 - CEMENT TYPE: TYPE II
 - CEMENT CONTENT: 2.0 SACKS/YD MINIMUM
- CONCRETE SHALL BE PLACED TO GRADES AND LINES WITHIN 1/8" TOLERANCE OF DESIGN
- CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEPARATION OF AGGREGATES; MAXIMUM UNCONFINED DROP OF CONCRETE SHALL NOT EXCEED FIVE (5) FEET
- CONCRETE SHALL BE VIBRATED WITH A GRID OF METAL BARS; TIME OF VIBRATION SHALL ENSURE THAT ALL AIR VOIDS ARE ELIMINATED BUT SHALL BE LIMITED TO PREVENT AGGREGATE FROM FALLING OUT OF SUSPENSION
- CONCRETE SHALL BE WETTED AND CURED IN ACCORDANCE WITH ACI STANDARDS
- WHERE CONCRETE IS BEING INSTALLED ADJACENT TO OR NEAR EXISTING CONCRETE IMPROVEMENTS, MATCH THE FINISH OF SIMILAR CONCRETE SURFACES (I.E. NEW SIDEWALKS SHALL MATCH EXISTING SIDEWALKS, NEW CURBS SHALL MATCH EXISTING CURBS, ETC.)
- SIDEWALKS AND MOWSTRIPS: MEDIUM SWEAT FINISH OR MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL
- CURBS: TROWEL SMOOTH AND FINISH WITH A LIGHT BRUSH
- GUTTERS: MEDIUM BROOM FINISH PARALLEL WITH CURB OR DIRECTION OF FLOW
- DRIVE APPROACHES AND WHEELCHAIR RAMPS: MEDIUM BROOM FINISH, PERPENDICULAR TO THE DIRECTION OF TRAVEL



AGENCY APPROVAL DSAP

19.6

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4000 Suisun Valley Rd, Fairfield,
CA 94534

SHEET TITLE

SITE PLAN

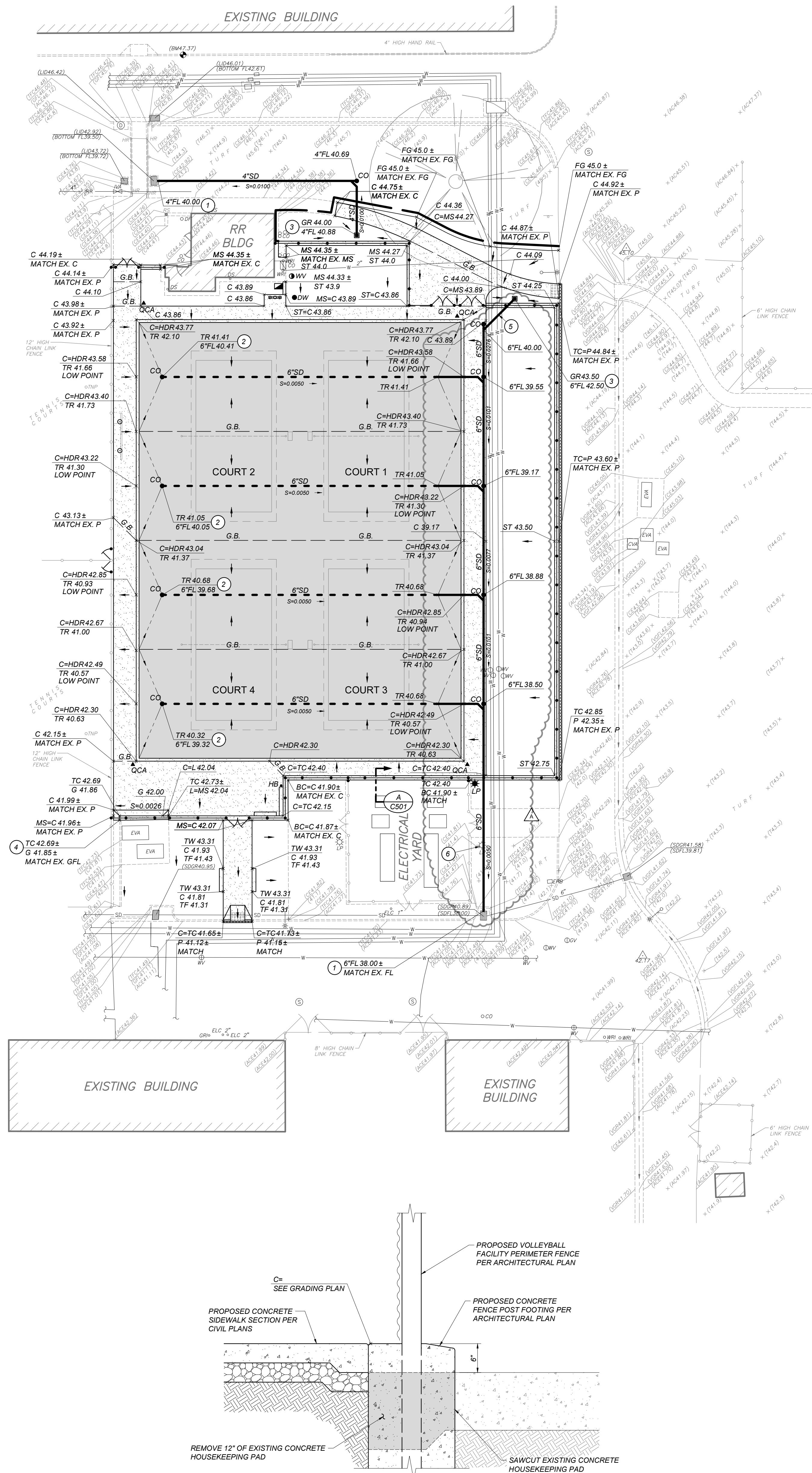
DRAWN BY: TJ

JOB NUMBER: 24056

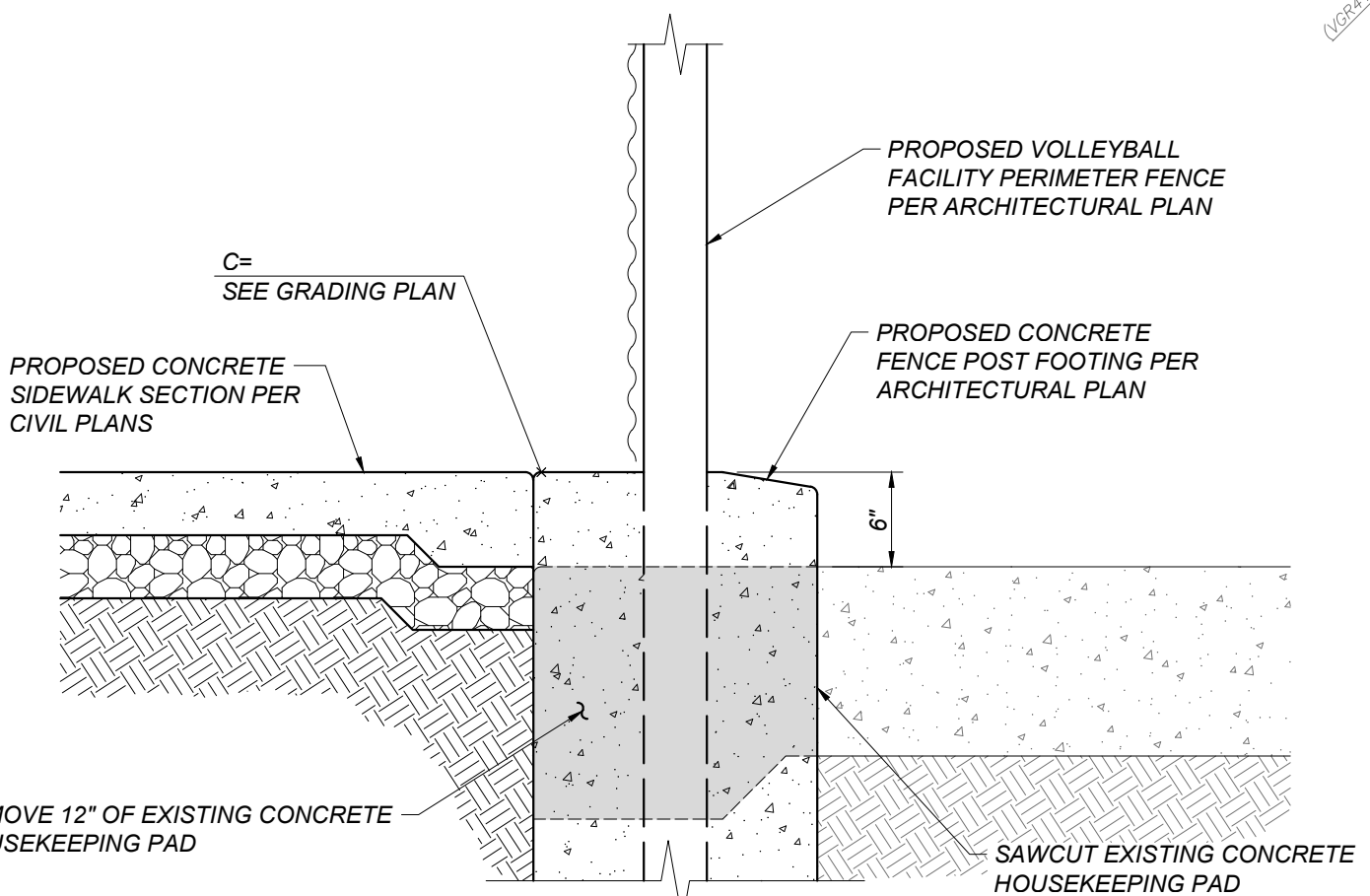
SHEET NO.

C301

DATE: FEBRUARY 10, 2025



A
C501
FENCE CURB TRANSITION TO SUBSTATION YARD
NOT TO SCALE



GRADING AND DRAINAGE

LEGEND:

- BC BOTTOM OF CURB
- C CONCRETE
- FG FINISHED GRADE
- FL FLOWLINE
- G GUTTER FLOWLINE
- GR STORM DRAIN GRADE
- HDR CONCRETE HEADER
- L LIP OF GUTTER
- MS MOWSTRIP
- ST SYNTHETIC TURF SURFACE
- TC TOP OF CURB
- TR TOP OF ROCK LAYER UNDER SAND
- (344.9) EXISTING ELEVATION
- 328.78 NEW FINISHED GRADE
- DIRECTION OF SURFACE DRAINAGE
- G.B. GRADE BREAK
- LIMITS OF GRADING
- CO SURFACE CLEANOUT PER DETAIL [D/C702]
- 6"SD PVC SDR-35 STORM DRAIN PIPELINE: SIZE AS NOTED ON PLANS. TRENCH AND BACKFILL PER DETAIL [G/C703]
- 6"SD PERFORATED PVC SDR-35 STORM DRAIN PIPELINE: SIZE AS NOTED ON PLANS. TRENCH AND BACKFILL PER DETAIL [G/C703]
- S=0.0020 FLOWLINE SLOPE AND DIRECTION OF FLOW
- S=0.0099 PIPE SLOPE AND DIRECTION OF FLOW
- ① CONNECT TO EXISTING STORM DRAIN WITH A WATER-PROOF CONNECTION
- ② SET TOP OF CLEANOUT AT BOTTOM OF SAND LAYER
- ③ PS STORM DRAIN INLET PER DETAIL [E/C702]
- ④ DRAIN NEW GUTTER PAN TO EXISTING GUTTER PAN
- ⑤ CONTRACTOR TO POT HOLE AND VERIFY STORM DRAIN CROSSING AT EXISTING HYDROCNIC LINES
- ⑥ FIELD ADJUST STORM DRAIN AROUND LIGHT POLE FOOTING AS NECESSARY

EROSION AND SEDIMENT CONTROL NOTES:

- THE CONTRACTOR, SUB-CONTRACTORS, AND OWNER ARE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL IMPLEMENTATION OF BMPs, AND CONSEQUENCES OF ANY AND ALL VIOLATIONS.
- ALL MATERIALS FOR THE PROJECT, INCLUDING THE NATIVE SOIL (SEDIMENT) ARE CONSIDERED POLLUTANTS. THE POLLUTANTS SHALL NOT LEAVE THE SITE VIA DRAINAGE, WHEEL TRACKING AND/OR BY WIND. ALL MATERIALS INCLUDING WASTE ARE TO LEAVE THE SITE IN ADEQUATELY SECURED CONTAINERS.
- ALL WASTE AND STORAGE CONTAINERS SHALL BE KEPT COVERED AT ALL TIMES TO PREVENT LEACHING OF THE WASTE & MATERIALS FROM ESCAPING THEIR CONTAINER AND ONTO THE SITE. HAZARDOUS WASTE (PAINTS, STAINS, GLUES, ADHESIVES, ETC) SHALL BE STORED IN COVERED AREAS WITH SECONDARY CONTAINMENT FOR LIQUID MATERIALS IN CASE OF ACCIDENTAL LEAKAGE/SPILLAGE.
- THE CONTRACTOR SHALL MAINTAIN BOTH SEDIMENT AND EROSION CONTROL BMPs THROUGHOUT THE LIFE OF THE PROJECT. PERIMETER BARRIERS MAY INCLUDE SILT FENCE, SANDBAGS, FIBER ROLLS, BERMS, SWALES ETC.
- STREET SURFACES SHALL BE SWEEP BY THE CONTRACTOR PER CASQA SET 1. VISIBLE SEDIMENT TRACKING SHALL BE SWEEPED OR VACUUMED ON A DAILY BASIS.
- DUST CONTROL PRACTICES SHALL CONFORM WITH THE SOLANO COUNTY AND CALIFORNIA REQUIREMENTS.
- CONTRACTOR SHALL FOLLOW ALL EROSION AND SEDIMENT CONTROL PRACTICES REQUIRED BY THE SOLANO COMMUNITY COLLEGE DISTRICT.

SPECIFICATIONS

CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS BOOK AND THE SOLANO COMMUNITY COLLEGE STANDARD SPECIFICATIONS AND DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN THE SPECIFICATIONS BOOK AND THE SCC STANDARD SPECIFICATIONS AND DRAWINGS, THE CONTRACTOR SHALL BRING THE DISCREPANCY TO THE ATTENTION OF THE DESIGN TEAM.

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

- CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALLS AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).
- CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:
 - ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2%.
 - ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5%.
 - RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%.
 - ACCESSIBLE WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH.
 - ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 - LANDINGS AT THE TOP AND BOTTOM OF ACCESSIBLE RAMPS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 - GUTTERS AND ROAD SURFACES DIRECTLY ADJACENT TO AND WITHIN 2 FEET OF A CURB RAMP SHALL HAVE A COUNTER SLOPE NOT TO EXCEED 5%.
- CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.
- GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.
- DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.
- ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.
- AS A FIRST ORDER OF WORK, THE CONTRACTOR SHALL POT HOLE THE EXISTING UTILITY LINES AT THE POINT OF CONNECTION TO VERIFY THE LOCATION, SIZE, PIPE MATERIAL, AND ELEVATION SO THAT THE ENGINEER CAN MAKE ELEVATION AND/OR ALIGNMENT ADJUSTMENTS IF NECESSARY. SHOULD POT HOLE DISCOVER ANY DISCREPANCIES, CONTACT THE ENGINEER AND OBTAIN WRITTEN DIRECTION BEFORE PROCEEDING.
- ADJUST UTILITY LIDS WITHIN NEW CONSTRUCTION AREA TO FINISHED GRADE PER DETAIL [B/C702]. REPLACE ALL BROKEN LIDS WITH NEW. PROVIDE TRAFFIC RATED LIDS AND BOXES WITHIN AREAS SUBJECT TO VEHICULAR TRAFFIC.
- MINIMUM SLOPE ON IMPERVIOUS SURFACES PERPENDICULAR TO ADJACENT STRUCTURE(S), WITHIN ADA PATH, SHALL BE 1% MINIMUM AND 2% MAXIMUM, WHERE DOOR AND GATE LANDINGS OCCUR THE CROSS SLOPE SHALL BE 2% MAXIMUM IN ALL DIRECTIONS.

SITE BENCHMARK:

CHISELED "X" ON TOP OF CURB APPROXIMATELY 55' NORTH OF RESTROOM BUILDING AND APPROXIMATELY 12' EAST OF RAMP.
ELEV = 47.37 NAVD88 DATUM

BID ALTERNATE SCHEDULE:

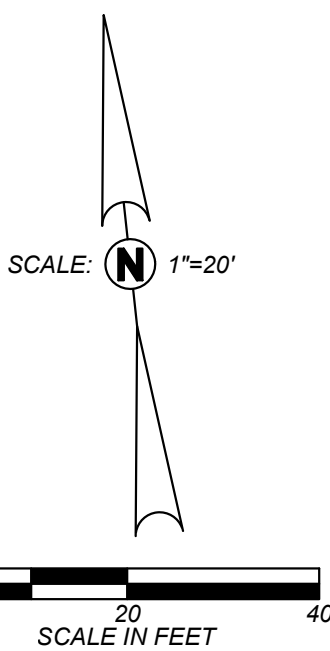
- PRE-CHECK SHADE STRUCTURE
- PRE-CHECK DIGITAL SCOREBOARD
- UNDERGROUND RACEWAYS FOR FUTURE SITE LIGHTING

FLOOD HAZARD ZONE INFORMATION:

- FLOOD ZONE DESIGNATION: ZONE X, AREA OF MINIMAL FLOOD HAZARD
- FIRM PANEL DESIGNATION: MAP # 0609SC0451E
- FIRM EFFECTIVE DATE: MAY 4, 2009
- BASE FLOOD ELEVATION: N/A

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

NPDES NOI DATE: N/A
WQID #: N/A
PROJECT SIZE: 35,900 SF (0.82 ACRES)



19.6

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SHEET TITLE

GRADING PLAN

DRAWN BY: JC

JOB NUMBER: 24056

SHEET NO.

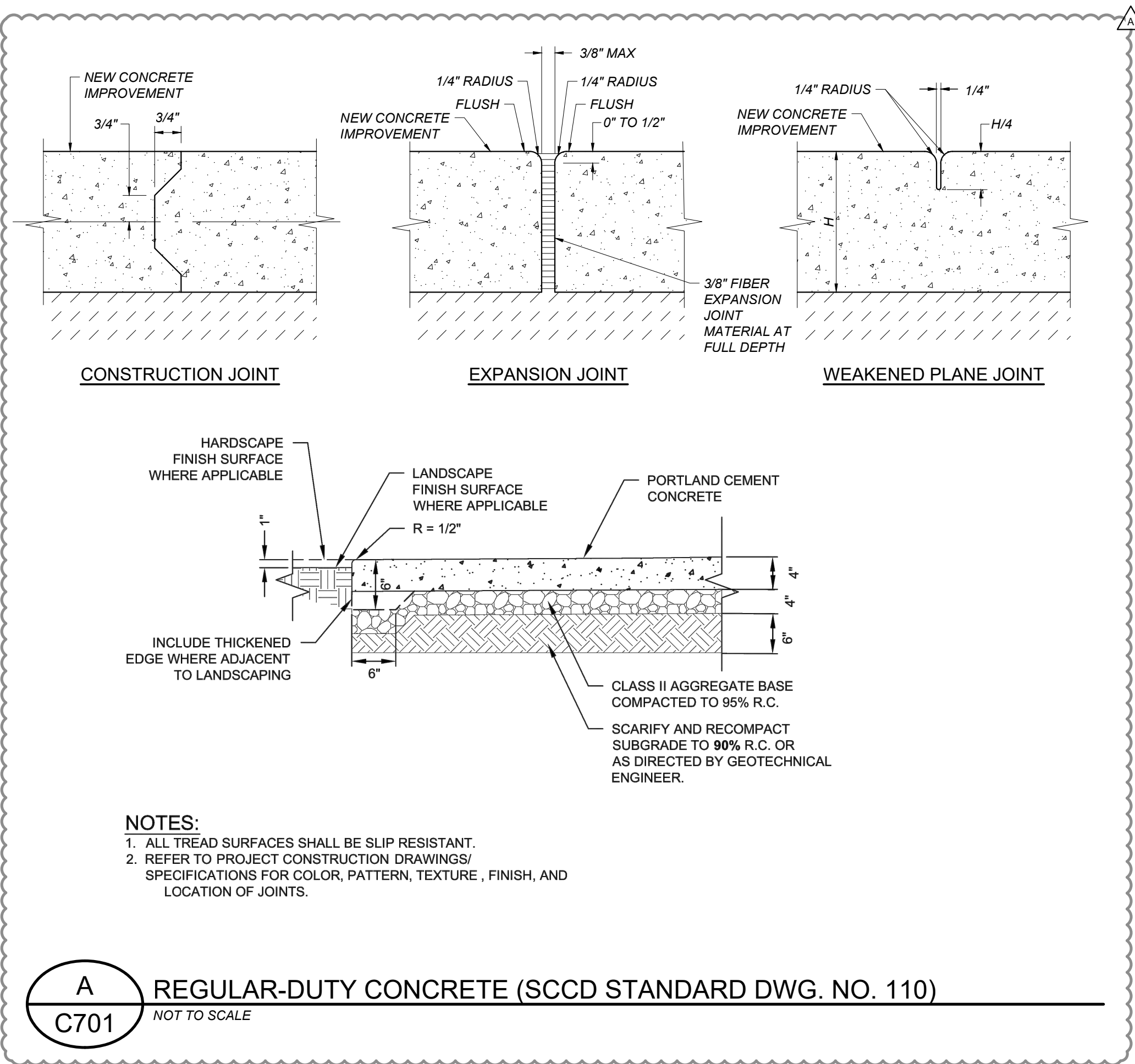
C501

DATE: FEBRUARY 10, 2025

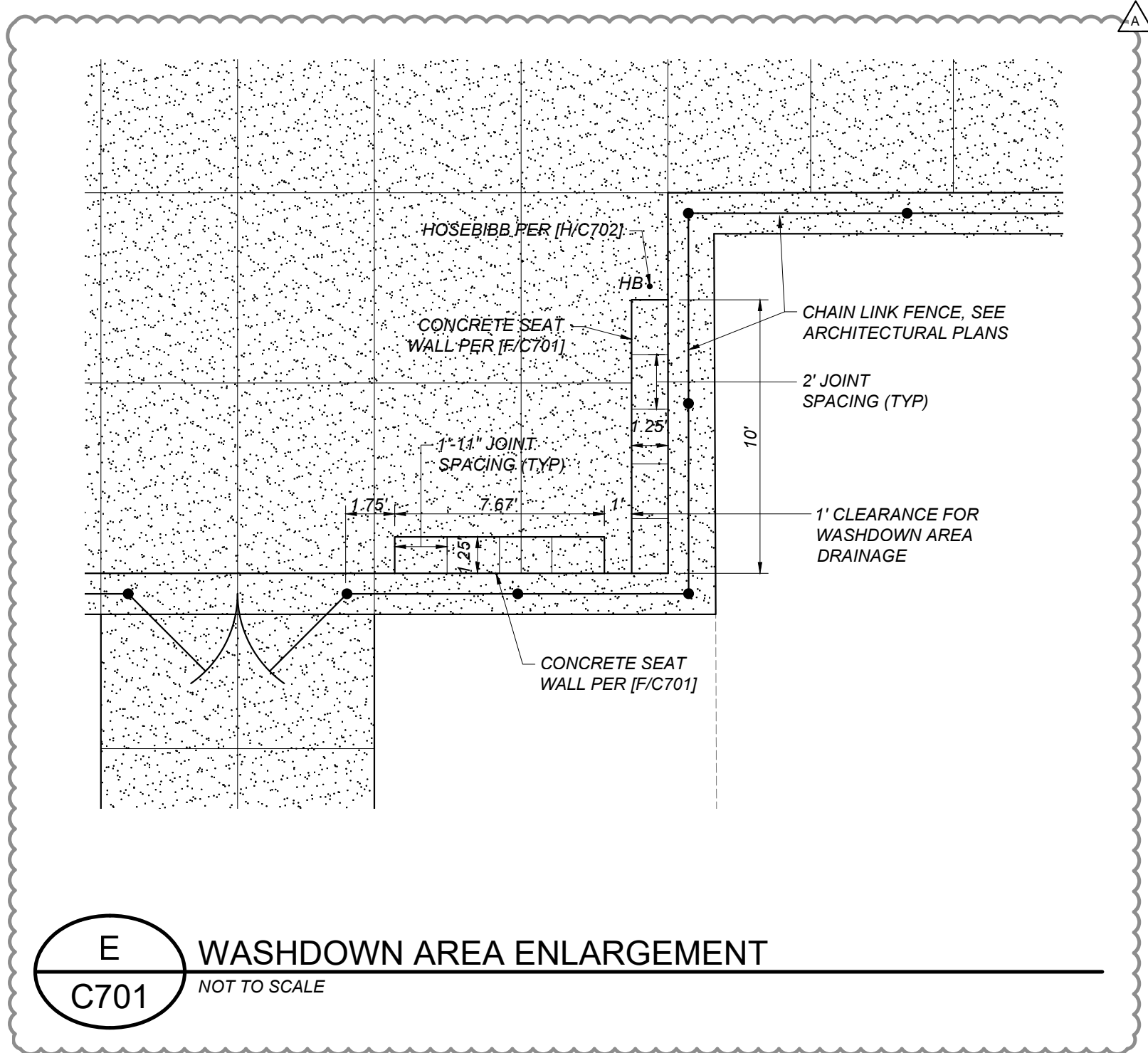
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PLOT BY: JIM FLYNN

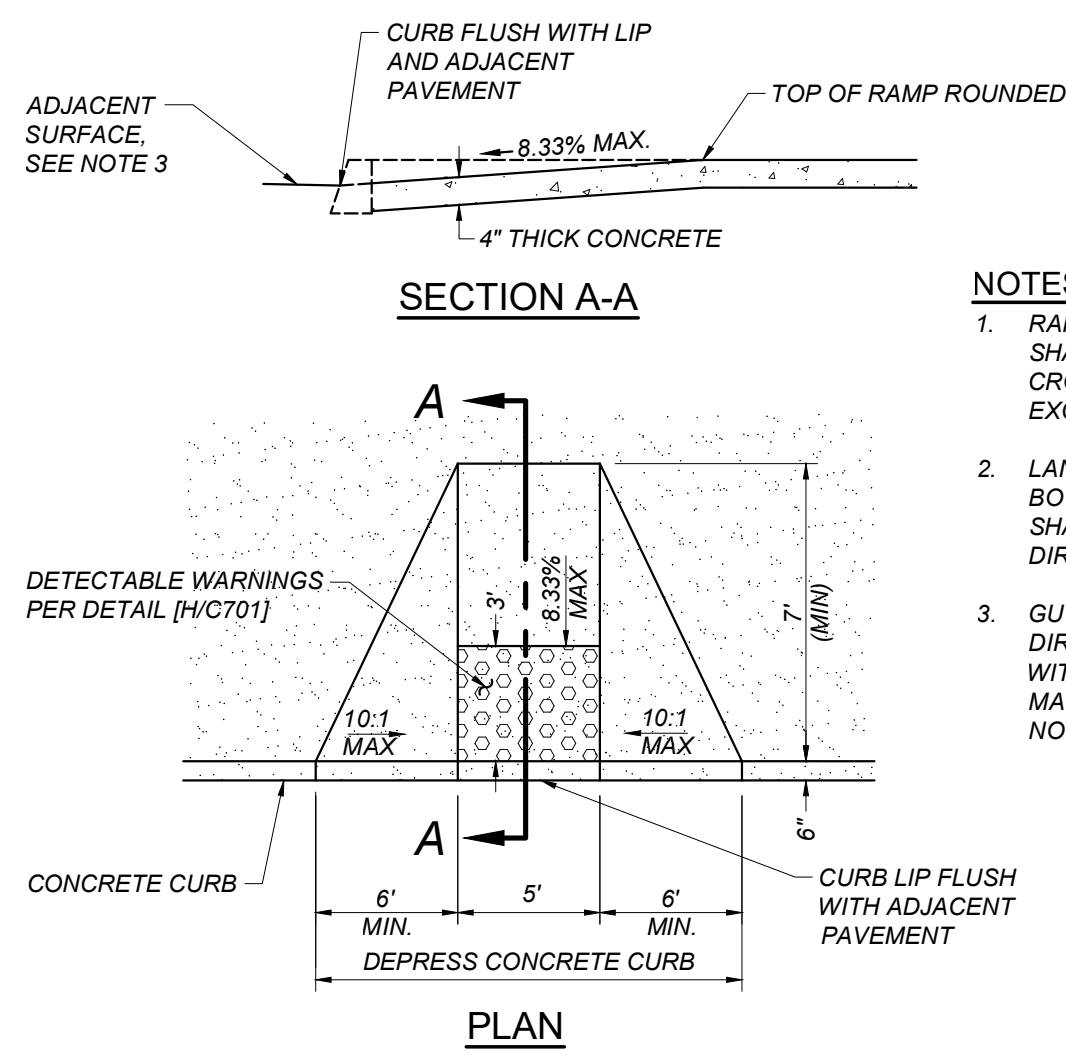
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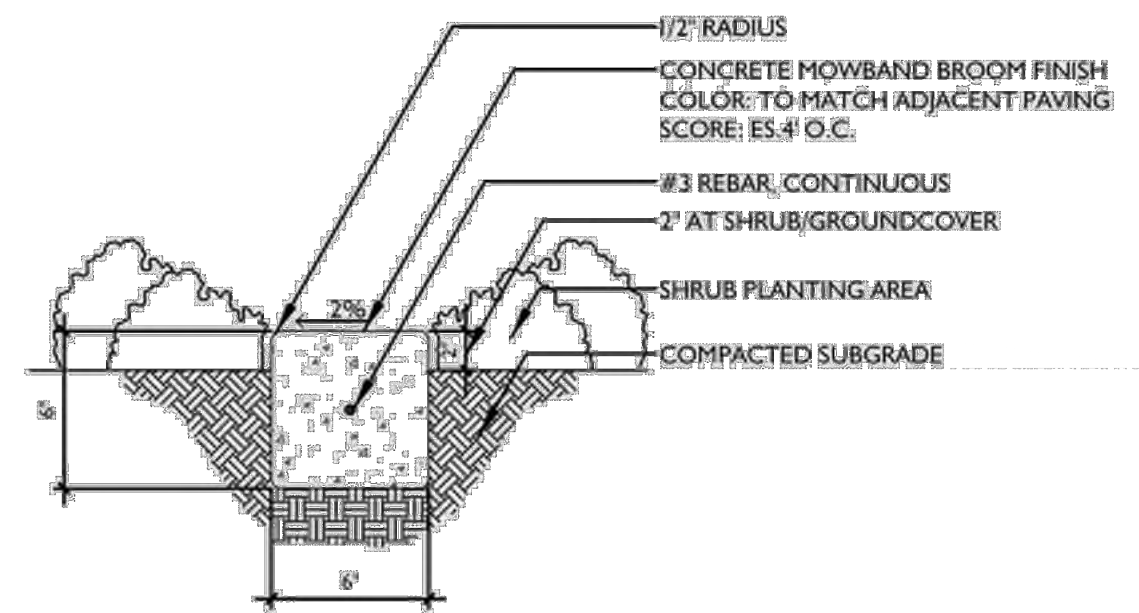
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C701 REGULAR-DUTY CONCRETE (SCCD STANDARD DWG. NO. 110)
NOT TO SCALE



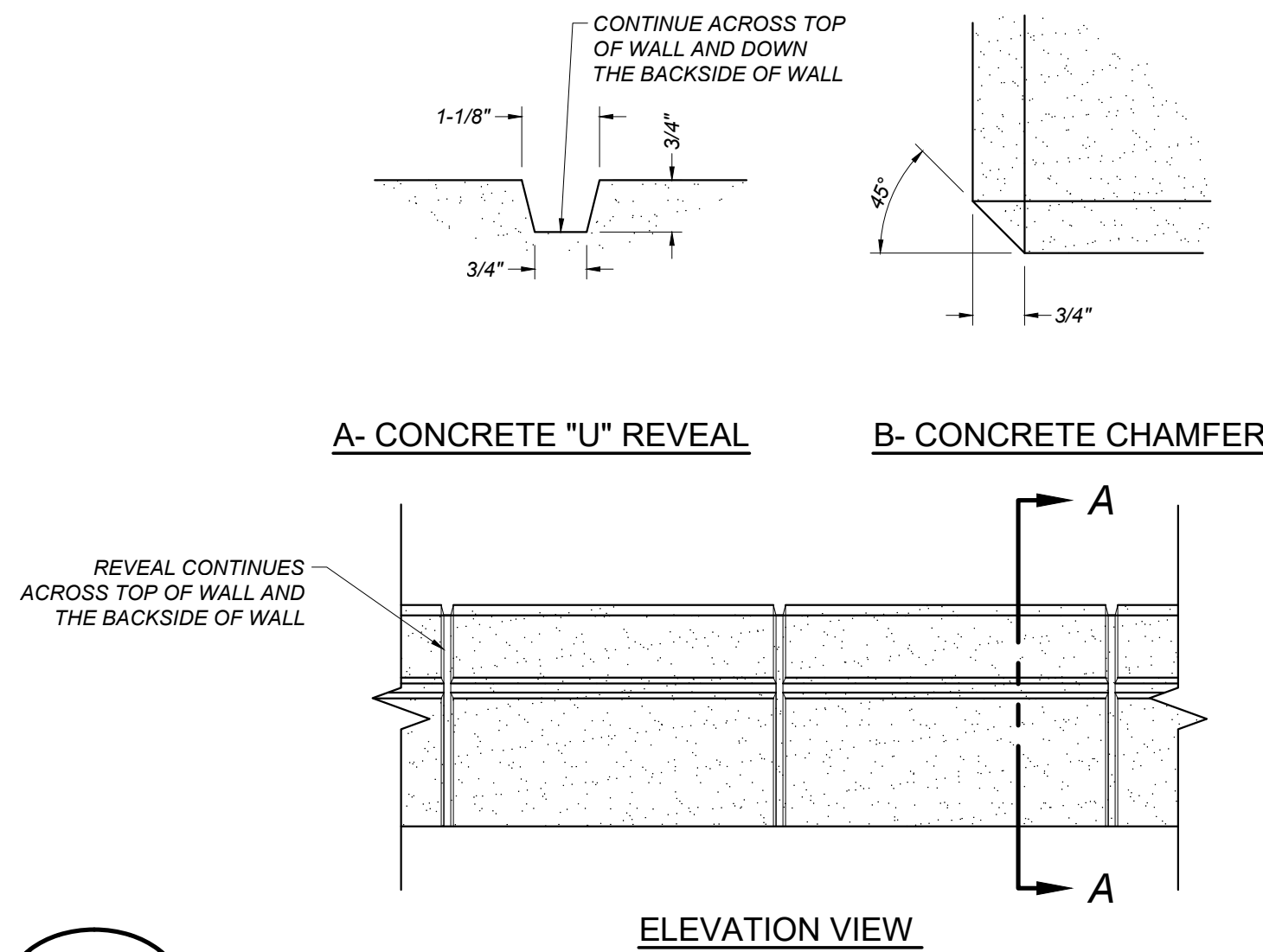
E
C701 WASHDOWN AREA ENLARGEMENT
NOT TO SCALE



G
C701 CONCRETE CURB RAMP
NOT TO SCALE

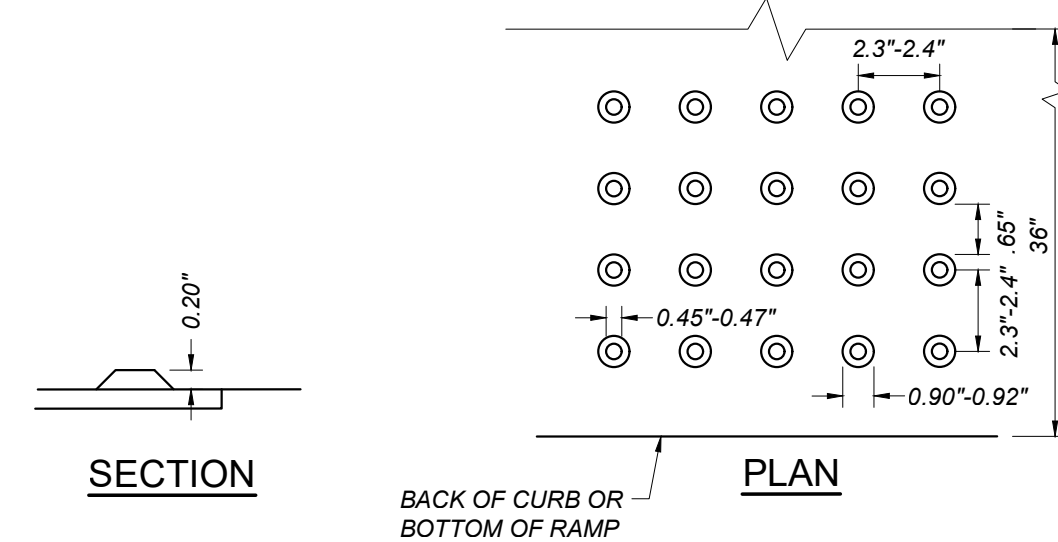


B
C701 CONCRETE MOWSTRIP (SCCD STANDARD 32 12 00)
NOT TO SCALE



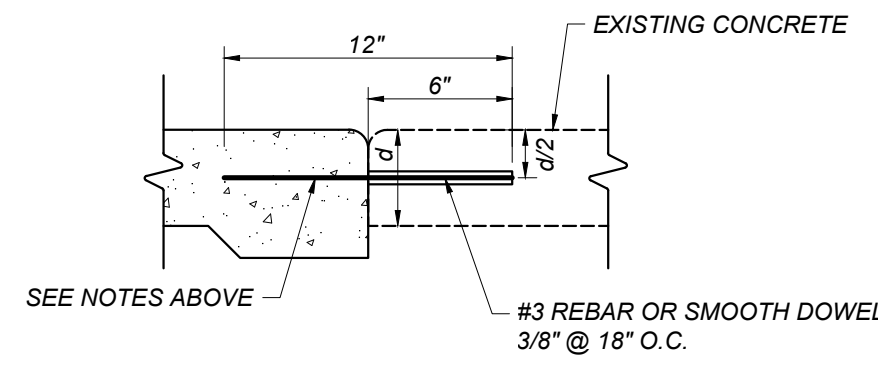
F
C701 SEAT WALL
NOT TO SCALE

- NOTES:**
- THE DETECTABLE WARNING SURFACE SHALL BE FEDERAL YELLOW AND APPROXIMATE FS 33538 OF SAE AMSSTD-595A.
 - WHERE DETECTABLE WARNING SURFACE DOES NOT PROVIDE A 70% CONTRAST WITH ADJACENT WALKING SURFACES, A 1-INCH WIDE MINIMUM VISUALLY CONTRASTING SURFACE SHALL SEPARATE THE DETECTABLE WARNING FROM THE ADJACENT SURFACE.
 - THE DOMES SHALL BE MANUFACTURED BY ARMOR TILE INC. OR APPROVED EQUAL.
 - ONLY APPROVED DSA/AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, CHAPTER 5, ARTICLES 2, 3 AND 4.

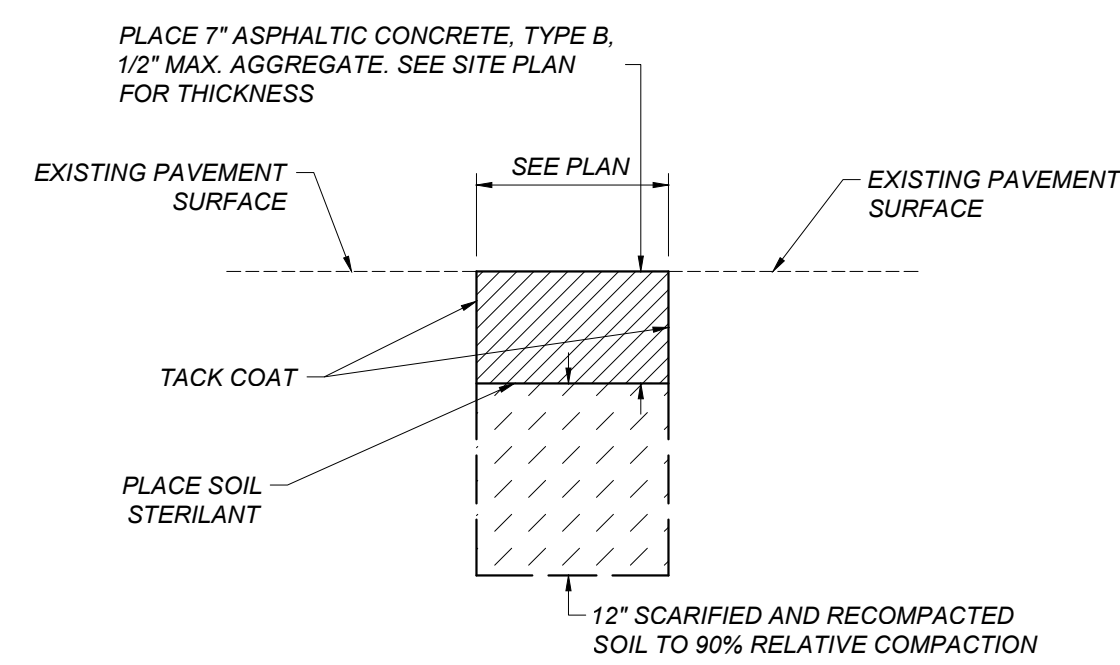


H
C701 DETECTABLE WARNINGS
NOT TO SCALE

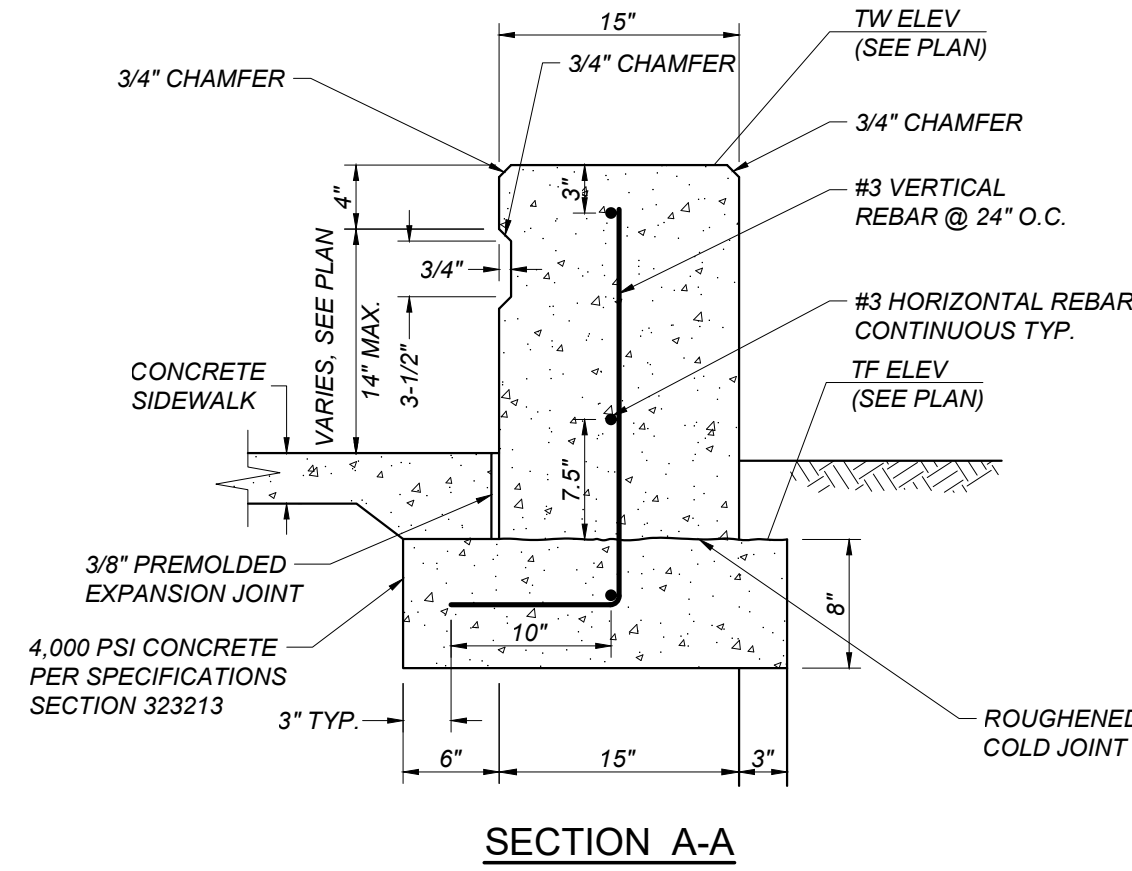
- NOTES:**
- DRILL HOLE 1/8\"
 - CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.
 - FILL HOLE WITH APPROVED ADHESIVE BEFORE INSERTING DOWEL INTO EXISTING CONCRETE.
 - WHERE SMOOTH DOWEL IS USED, APPLY BOND BREAKER TO SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.
 - WHERE DEFORMED REBAR DOWEL IS USED, PROVIDE APPROVED WRAP ON SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.



C
C701 DOWEL BAR
NOT TO SCALE



D
C701 ASPHALT CONCRETE PLUG
NOT TO SCALE



SECTION A-A

AGENCY APPROVAL DSAF

196

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REVISIONS

NO.	DATE	DESCRIPTION
A	06-09-25	ADDENDUM 04

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

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DETAILS

DRAWN BY: TJ

JOB NUMBER: 24056

SHEET NO.

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DATE: FEBRUARY 10, 2025



CONSTRUCTION DOCUMENTS