BUTTE COUNTY, CALIFORNIA

ADDENDUM #3

to the

FORMAL BID DOCUMENTS

FOR

The Gridley Sports Complex Ph 1

Rural Recreation and Tourism Grant (TX#04-002)
Project Number 24-02
Contract Number 2024-02

Prepared by
City of Gridley, California

Dave Harden, PE
Contract City Engineer

December 2024

The following addendum and attachments shall be made part of the Contract Documents, and the bidder shall acknowledge receipt thereof on the Bid Form as Attachment 2 and return this package signed with the Bid Forms.

Note: The addendum attachment only include pages from the specifications and plans which have changers related to the addendum. Thes pages shall replace the original page, or a previously issued addendum.

ADDENDUM SECTION 1 – Specifications

A. Notice to Bidders: NTB-1 has been revised.
B. Bid Item List: Pages BIL-1, BIL-2 and BIL-3 reflect changes in quantities.
C. General Conditions: Page GC-10 Section C.12 and page GC-15 section D.2 have been revised.
D. Measure and Payment: Pages MP-4 (Bid Item #4, #4a), MP-7 (Bid Item #13), MP-19 (Bid Item #45), and MP-22 (Bid Item #52, #53) have been revised.
E. Technical Specification 32 84 00 Irrigation Sections 2.03, 3.02, 3.10 have been revised.
F. Technical Specification 32 90 00 Planting Sections 2.06, 2.07, 3.02, and 3.03 have been revised.

ADDENDUM SECTION 2 – Plans

G. Sheets C-1 through C-12, C-16 and C-17 have been revised. An empty revision cloud denotes that a hatch or previous linework has been removed. Changes to the plans include the additional of Alternative Bid #2, ribbon drain callouts to replace Hydraway and detail corrections.
H. Sheet L2.0 and L2.1 have been revised to address valve make and size corrections.
I. Sheet E1.1 has been revised to remove incorrect linework.

ADDENDUM SECTION 3 – Questions

General:

1. Do we need to be prequalified with the City of Gridley to Bid the Sports Complex?
    A. No, you do not. The documents on the City website are for their contractor list which is sent out yearly for informally bid projects.
2. May I have clarification on Item 5 within the Bid Submittal Document List? What are the required certifications, references and proof of knowledge and ability to perform, for all the work herein described? Is there a specific section I should be reading through?
    A. This is a catch all section for any of the items listed which may be required per the Specifications. This may include a bid bond, signed addenda, or other documentation deemed necessary by the bidder to be responsive.
3. Please provide an order of precedence for contract documents if any discrepancy is found in the bid documents.
    A. Project Technical Specifications will take precedence over the Project Plans.
4. Does the pond fill naturally?
    A. Yes, a portion of the Industrial Park drains into the Pond.
5. Can a potential bidder walk the site after the prebid meeting?
    A. Yes, you can walk past the locked entry, or you can call Public Works at 530-846-3631 for vehicular access.
6. Will the City require “Fire Insurance” per D.2 Fire Insurance, also known as Builder Risk Insurance?

   A. The City will not require fire insurance as there is no structure or building being completed as part of this project. See the revised General Conditions.

7. Is the construction staking the responsibility of the Contractor? Conflicting information between the plans and the Specifications.
   A. Construction staking is the responsibility of the Contractor. See the revised General Conditions.
8. Does the City have a manufacturer recommendation for the flagpole? Is there a detail for the flagpole with the size of pole and details for the footing?
   A. The Contractor shall submit a flag pole specification for approval that is a minimum of 25 feet in exposed height with a minimum 6" base diameter. The flag pole shall be made up of aluminum construction and the base shall be installed according to the manufacturer recommendation. If the manufacturer does not have a recommended flag pole base then the footing shall be submitted by the Contractor with the electrical light pole footings for approval.
9. Where would I find the 12,420 Square Feet of Concrete on the plans per Bid Item #17?
   A. Bid Items have been updated to reflect the correct quantities. See BIL 1-3.
10. Bid Item #16 of the bid documents shows 1,560 Square feet of vehicular concrete while plan page C6 shows 1,530 square feet of vehicular concrete. Which is correct?
   A. Bid Items have been updated to reflect the correct quantities. See BIL 1-3.
11. What are we doing with the large sections of open ground surrounding the pond where there are no callouts within the project boundary?
   A. There is no proposed work in those areas, but they may be used for staging. Staging and storage areas shall be determined by the Contractor and encompassed within the SWPPP.
12. Landscape plans call out for a connection to the 4" Backflow, the Civil Sheets show installing a 6" RP BFP. Please confirm that Civil is correct.
   A. Civil plans are correct.
13. Detail 10 on C-17 notes the Handalstone cap to be 11-6" radius. Please confirm that this is incorrect and the seat wall is straight as drawn on plan sheet C-17.
   A. Yes the seat wall layout shall be per the linework on the Civil sheets.

Demolition:

14. For sign removal, are the posts to be removed as well?
   A. Yes, both the sign and the post shall be returned to the City or disposed of as directed on the plans.
15. Is the excavation quantity the total overall material or net?
   A. The excavation quantity provided is a sum of the cut and fill quantities. Overall excavation has a net of 2,584 cubic yards (cut). The Bid Item Description has been revised and a bid item for off haul has been added, refer to Measure and Pay and Bid Item List.
16. What is entailed in the lowering of the water main? How deep is it, and what is included in this bid item?
   A. The contractor can assume that the waterline is approximately 36"-48" deep at this location. It will be on the contractor during staking and rough grading to determine the limits of the irrigation main that would not have sufficient cover after final grading activities are completed. That length of waterline will be confirmed with the project engineer (approximately 65' in length per the plans) and lowered per Detail 1 Irrigation main lowering on Sheet C-2.

17. Who is responsible for removing transformers along north pond edge?
    A. The transformers are marked with demolition note 2 which states that the electrical transformers will be removed by others (the City).
18. How is off haul being handled?
    A. Bid Item description for #4 Excavation has been changed to "off haul of excess soil generated to a ***City Owned*** site no further than 15 miles round trip. Excess soil spoils can be assumed to be no more than 15% of total excavation quantity." Bid Item description for Bid Item #13 SWPPP Measures, Miantenance and Reporting has been changed to include both the project site and the off haul site. See revised Measure & Payment.
19. The asphalt on the northeast side of the pond is not holding up well. Is the contractor still to saw cut this?
    A. The plans have been revised to reflect a full demo of the existing road. Alternate Bid #2 has been added to include a new paved pathway in this location. See changes to the plans, Bid Item List, Measure and Payment.

Irrigation:

20. Gate valve model NIBCO T113 is only available for sizes 3" and smaller. Please provide a model of flanged gate valve for larger mainline size.
    A. Contractor to utilize LEEMCO LMV-BB Series Gate Valves. Plan sheets have been revised.
21. Irrigation legend sheet L2.0 shows master valve size to be 4". However, bid item description no.45 states 3'' master valve. Please confirm which size will be installed.
    A. A 4" Master valve to be installed per the plans. The bid item description has been revised.
22. Irrigation legend sheet L2.0 shows air relief valve size to be 2". However, technical specs section 328400-11/3.10B requires 1" size for mainlines up to 8" diameter. Please clarify.
    A. Contractor to install 2" air relief valve per legend.
23. Irrigation legend sheet L2.0 indicates new 4'' and 6'' mainline shall be PVC C900 DR18 Class 235, but bid item description no.45 specifies PVC class 315. Please clarify.
    A. Contractor to utilize PVC C900 DR18 Class 235 for new 4" and 6" mainline.
24. Please provide trenching depth for lateral line and mainline at living turf sports field areas with flat drain system as stated on specs section 328400-8/3.02.
    A. Mainline shall be 24 inches deep to avoid flat drain system. Specification 32 84 00 has been revised.
25. Please provide model for isolation gate valve model to be installed at valve manifolds.
    A. NIBCO T-113 Gate valves to be used for isolation gate valves on valve manifolds.
26. Each remote control valve has one ball valve included per detail E, L2.13. Note 13 on sheet L2.0 required to install a gate valve at each valve or manifold. Please advise which is required as there is no need for multiple shutoff valves at each valve.
    A. If more than one valve is installed in a location (I.e. a manifold) contractor to install gate valve on submain to isolate entire manifold; contractor to also install ball valve on each individual valve for further isolation. Install per plans.
27. Please provide an irrigation as-built plan for the existing irrigation system to be repaired.
    A. There is no existing irrigation system on site.

Planting:

28. Will imported top soil be required at all landscape planting areas? If so, at what depths?
    A. A correction to Specs Section 2.07.A has been made: On site stripped and stockpiled topsoil may be suitable for planting. Contractor to obtain soil analysis with

recommendations for existing topsoil. Soil amendment to be determined by soil analysis. If existing topsoil is not appropriate for planting even with recommended amendments, then imported soil will be necessary. There is no requirement for minimum soil depth, top soil depth shall be determined by the amount of soil required to meet FG as shown on Civil Grading Plans. Specific amendments and fertilizer amounts will be determined after rough grading operations are complete and soil fertility test results are provided by the Contractor and approved by the Owner's Representative.

29. Planting note 8 on sheet L1.0 indicates to "incorporate compost at a rate of at least 4 cubic yard per 1,000 square feet into landscape areas". However, specs section 329000-7/3.02B.3 requires 3 cubic yards per 1000 sf. Please clarify.
    A. 4 Cubic yards to be used per 1000 square feet is for base bid purposes only. Contractor to obtain soil analysis with recommendations after mass grading is complete to obtain final quantity of soil amendments/modifications.
30. Please provide compost material to be spread at turf areas as specified on specs section 329000-8/3.03C.6.
    A. Compost type to be determined by soil analysis with recommendations.
31. Please provide Concentrated Soil Conditioner material to be spread at turf areas as specified on specs section 329000-8/3.03C.7.
    A. See spec section 32 90 00/2.02.A
32. 32 90 00 2.07C approved suppliers of top soil: One is from Sacramento and one is from San Jose. The closest listed is 1.5 hours away. Please confirm that the landscape engineer will accept top soil for turf areas from providers in the project vicinity.
    A. During the submittal process the contractor can submit for approval top soil from other suppliers as long as the top soil meets the requirements of the specifications for the project.

Drainage:

33. Bid Item #40 refers to 2-6" ribbon drains, however on the plan set there is no mention of where a ribbon drain is installed. Can we assume that the hydraway referred to on the plans is the same as the ribbon drain reference in the specs and bid item #40?
    A. Yes, the Hydraway on the plans is the same as Bid Item #40 2-6" Ribbon Drains. Ribbon Drain that is equal to Hydraway and meets the specification will be accepted. The Plans have been revised.

Electrical:

34. On E-3, Note 5 talks about light pole base "depth as required by structural calculations." I do not see any structural plans. Please provide this info.
    A. The structural calculations shall be provided by the contractor. On the Title sheet there is a box for "Deferred Submittals." It will be the contractor's responsibility to provide structural calculations for the footing and submit them to Butte County for approval.
35. On Sheet E-2, Sports lighting control box, Sports lighting system public address, Sheet E-5, WILL Project Scope and Supplied Materials, WILL Responsibilities #8. Are we to assume that all lighting control and the public address systems are wireless and that the electrical contractor responsibilities for these units are to supply line voltage to the units at the Panel A location?
    A. Lighting controls are wireless. Public address system was not in the electrical scope. Electrical contractor shall provide receptacle adjacent to the lighting control box. The public access pushbutton control is wireless and does not require line voltage.
36. On Sheet E1.1, Shows existing electrical lines shaded (2) from the Tesco switchboard heading N then turning S, (1) from the Tesco switchboard to the 300KVA transformer, and (1) from the

300KVA transformer heading S. Will these conduits be part of the contract or will Gridley Electric be responsible for these conduits?

A. It appears that the conduits (----E----) shown are part of the site background. These are not existing electrical lines, see revised sheet E1.1.
    1. The conduit going south from the 300kVA transformer is the Utility company primary and will be provided by Gridley Electric.
    2. The secondary conduits/conductors from the 300kVA transformer shall be installed by the contractor.
    3. Electrical contractor is to provide the 300KVA transformer pad.
    4. All other conduits/conductors are to be provided by the electrical contractor. Refer to One Line Diagram. (Attached is a revised E1.1 for clarification.)
    5. The Contractor shall be responsible for trench and backfill on all contractor installed conduits.

37. On Sheet E-1.1, numbered note 2. Provide the manufacturers model number for the precast 300KVA utility transformer pad. What are the requirements for preparation of the ground below the transformer pad prior to setting.
    A. Electrical contractor is to coordinate with Gridley Electric. Gridley Electric follows PG&E Greenbook.
38. On Sheet E-6 WILL Pole Information. Do the 2-piece poles need to be welded together? If so, what are the requirements.
    A. WILL Pole's shall be installed per manufacturer's recommendations.
39. Will the City allow Musco Lighting Products to be proposed?
    A. The City will only allow Musco Lighting products if shown to be approved equal or better and if the following conditions are met:
        i. The same number of lights or less are being proposed.
        ii. The proposed pole locations are located outside of the detention basin as shown on E-1.
        iii. The illumination averages are higher than or equal to what is shown on the plans.
        iv. If layout or design changes are required, it shall be the burden of the contractor to produce engineered design plans for approval by the project engineer.
        v. Any additional costs for layout and design changes will not be incurred by the City.
40. Please confirm there are 10 new light pole foundations required. Sheet E-1 shows 10 poles, while the drawing on E-6 shows a quantity of 8 poles.
    A. There are 10 new light poles required. The quantity 8 shown on E-6 refers to the number of anchor bolts per light.
41. Electrical Specification 26 00 00-1.05 A &B state that we are to obtain all permits for work and building dept inspector approval. Please confirm that contractor is not required to pay electrical utility connection fees or building dept permit fees for electrical panels.
    A. The contractor will not be responsible to pay fees associated with utility connections. If a permit is required by the building department (Butte County) the contractor would be responsible for the permit fee.

END OF ADDENDUM #3

Thank you in advance for your Bid.

Dave Harden, PE
City Engineer

I acknowledge receipt of this addendum and all attachments by including a signed copy of this addendum with the bidder's proposal. Failure to do so may subject Bidder to disqualification.

Bidders Signature **Date**

BUTTE COUNTY, CALIFORNIA

ATTACHMENTS for

ADDENDUM #3

to the

FORMAL BID DOCUMENTS

FOR

The Gridley Sports Complex Ph 1

Rural Recreation and Tourism Grant (TX#04-002)
Project Number 24-02
Contract Number 2024-02

Prepared by
City of Gridley, California

Dave Harden, PE
Contract City Engineer

December 2024

NOTICE INVITING BIDS: Sealed proposals will be received at the City Hall of the City of Gridley, 685 Kentucky St., Gridley, California, 95948 until 2:00 pm, December ~~5th~~ 16th , 2024. At that time, all bids will be publicly opened, examined and declared for construction of:

The Gridley Sports Complex Phase 1

The work shall consist of the following: Grading multi-use sports fields and concrete plaza, installing sports lighting, educational signage, drainage system. irrigation system, and planting throughout the park in the City of Gridley.

The City of Gridley will issue a Notice of Award within ~~thirty (30)~~ **sixty (60)** calendar days after the opening of Proposals. Work shall be completed within one hundred and forty (140) calendar days after issuance of the Notice to Proceed by the City. Start date will be negotiated with the contractor and may depend on site conditions.

The contractor is to carefully examine the site of the proposed work and is to make his or her own determination of the scope of the work to be performed, and he or she is to carefully examine all of the Contract Documents.

BID SUBMITTAL REQUIREMENTS: No proposal will be accepted unless it is made on a Proposal forms furnished by the City of Gridley within these Specifications. **To ensure consideration, the Proposal must be enclosed in a sealed envelope, clearly marked BID PROPOSAL which also bears the name of the project and the date and time set for opening of Proposals:**

BID PROPOSAL
The Gridley Sports Complex Phase 1
~~**December 5th, 2024 2:00 pm**~~
December 16th, 2024 2:00 PM

No Proposal will be accepted from a contractor who is not currently licensed in accordance with the provisions of Chapter 9, Division III of the Business and Professions Code. Subcontractors shall also be licensed as required by said code.

Contractor shall obtain a Business License from the City of Gridley prior to commencing any work within the City Limits of the City of Gridley.

An optional pre-bid site walk will be held **November 13th, 2024 10:00am at the intersection of Elaine Way and Independence Place. The nearest address is 1221 Independence Place.**

Please direct all project questions **no later than November 18th, 2024 5:00pm** to the contacts specified below:

To: Dave Harden, dharden@ben-en.com

CC: Ali Holladay, aholladay@ben-en.com

PREVAILING WAGES: Pursuant to Section 1770, and following, of the California Labor Code, the successful bidder shall pay not less than the applicable prevailing rate of per diem wages as

THE GRIDLEY SPORTS COMPLEX PH 1

BASE BID #1			
This work shall consist of the following: Mobilization and Demobilization, regrading of the existing pond, installation of drainage and irrigation piping, installation of utilities and site finishings and paving in the City of Gridley, and all other work as shown on the Plans and Specifications for a complete and total job.			
Item	**Description**	**Unit**	**Quantity**
Site Preparation			
1	Mobilization and Demobilization	LS	1
2	Clearing and Grubbing	LS	1
3	Demolition of Existing Curb, Gutter & Pavement	SF	26,610
4	Excavation	CY	18,980
4a	Off Haul	CY	2847
5	Remove Existing Signage	EA	6
6	Remove Existing Sanitary Sewer Manhole	EA	2
7	Remove Existing Sanitary Sewer Pipe	LF	870
8	Repurpose Existing Water Pipe as Irrigation Pipe	LS	1
9	Remove Existing Fire Hydrant Assembly	EA	2
10	Sawcut	LF	720
11	Abandon Existing Sanitary Sewer Pipe	LS	1
12	Lower Irrigation Main	LF	65
Site Construction			
13	SWPPP Measures, Maintenance and Reporting	LS	1
14	Class 2 Aggregate Base	CY	~~860~~ **750**
15	Hot Mix Asphalt	TON	~~210~~ **190**

16	Vehicular Concrete	SF	1,560
17	Concrete	SF	~~12,420~~ **4,960**
18	Install A1-6 Curb	LF	100
19	Install A2-6 Curb	LF	140
20	Curb, Gutter, and Sidewalk	SF	350
21	Commercial Driveway	SF	210
22	ADA Curb Ramps	SF	270
23	Striping, Curb Painting, and ADA Markings	LS	1
24	Mowband	LF	75
25	Install Rolled Curb Transition	LF	24
Site Furnishings			
26	Install Flagpole	LS	1
27	ADA Parking Signage	LS	1
28	Seat Wall	EA	1
Wet Utilities			
29	Tie Water Main into Irrigation System	LS	1
30	Install 1” PVC Water Service	LF	100
31	Domestic Water Meter	EA	1
32	Irrigation Water Meter Assembly	EA	1
33	Install Backflow Prevention Device	EA	1
34	Adjust Existing Water Valves to Grade	EA	3
35	Install Drop Sanitary Sewer Manhole Connection	EA	1
36	Install 6” Sanitary Sewer Cleanout	EA	2
37	Install 6” PVC Sanitary Sewer Pipe	LF	150
38	Install 48” Precast Drainage Inlet	EA	1
39	Install Sump Pump	LS	1
40	Install 2-6” Ribbon Drain	LF	2,630
Electrical			

41	Install Sports Lighting	LS	1
42	Install Pre-Cast Lighting Bases	LS	1
43	Electrical Distribution	LS	1
Irrigation			
44	Install 6” Pipe from Water Main to Backflow Preventor	LF	50
45	Irrigation System	LS	1
Planting			
46	Planting Package	LS	1
47	Landscape Maintenance - 90 Day	SF	355,981
Alternative Bid #1 – Vehicle Deterrents			
48	Place Wheel Stops (Railroad Ties)	EA	18
49	Install Bollards (Permanent)	EA	16
50	Install Collapsible Bollards	EA	15
51	Install Post and Cable Fencing	LF	1,810
Alternative Bid #2 – Paved Path			
52	**Hot Mix Asphalt for Paved Path**	**TON**	**75**
53	**Class 2 Aggregate Base for Paved Path**	**CY**	**75**

The Contractor shall at all times enforce strict discipline and good order among his employees, and shall not employ on the work any unfit person or anyone not skilled in the work assigned to him. Neither party shall employ or hire any employee of the other party without his consent.

C.11 PLANS, SPECIFICATIONS, AND INSTRUCTIONS: Unless otherwise provided in the Special Conditions, the City will furnish to the Contractor, free of charge, all copies of Plans and Specifications reasonably necessary for the execution of the work. They will also furnish with reasonable promptness additional instructions, either as supplemental drawings or otherwise, as may be necessary for the proper execution of the work. The Contractor shall keep one copy of all Plans and Specifications, including any Addenda and Change Orders, on the work in good order available to the City and their representatives.

Should the Contractor be in doubt as to the meaning of any provision in the Plans and Specifications, or should he find any errors or omissions therein, or should he find any errors or omissions in the layout or staking, he shall immediately notify the City. The City will promptly investigate and will furnish the Contractor with any additional instructions as may be required.

Unless otherwise noted in the Special Conditions, upon completion of all project work, the Contractor shall provide the City with one complete set of Plans and Specifications with all "As Built" changes or modifications marked and annotated.

C.12 CONSTRUCTION STAKING: Construction Staking is ~~not~~ required for this project.

C.13 PERMITS AND REGULATIONS: Permits and licenses of a temporary nature necessary for the prosecution of the work shall be obtained by the Contractor at his expense. Unless otherwise specified in the Special Conditions, permits and licenses for permanent structures or permanent changes in existing facilities will be secured and paid for by the City. Copies of any permits and licenses which are obtained by the City will be on file at his office and will be available for inspection by the Contractor. The Contractor shall acquaint himself with, and abide by, any requirements of these documents. The Contractor shall obtain any supplemental agreements or bonds required by any encroachment permit, and he shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the work. If the Contractor observes that the Plans and Specifications are at variance therewith, he shall promptly notify the City in writing, and any necessary changes shall be adjusted as provided in the Formal Bid Documents for changes in the work. If the Contractor performs any work, knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the City, he shall bear all costs arising therefrom.

The Contractor shall be required obtain a Business License from the City of Gridley to conduct work on the project.

C.14 LANDS FOR WORK: The City shall provide the lands, easements, and rights-of-way upon which the work is to be done. Unless he specifically makes other arrangements, the Contractor shall confine his operations to the limits of the City's land and to the limits of the easements and rights-of-way. The Contractor shall provide land required for the erection of temporary construction facilities and storage of his material.

The Contractor shall file with the City, immediately after issuance of a Notice of Award, certificates of all insurance. These certificates shall be fully executed and shall state that the policies cannot be canceled until ten (10) calendar days after written notification of such intent of cancellation has been given to the City. All policies shall be with Insurance Companies acceptable to the City.

In case of the breach of any provision of this Article, the City may take out and maintain at the expense of the Contractor such insurance as the City may deem proper and may deduct the cost of such insurance from any monies which may be due or become due the Contractor.

D.2 FIRE INSURANCE: Fire Insurance is not required as part of this project.
~~The Contractor shall take out and maintain fire insurance on the entire structure on which work is to be done. This insurance will be in the amount of one hundred percent (100%) of the insurable value of the structure, including items of labor and materials during construction, and one hundred percent (100%) of the insurable value of the completed structure. The coverage shall be maintained by the Contractor until final acceptance of the work by the City.~~

~~The loss, if any, is to be made adjustable with and payable to the City as Trustee for whom it may concern, except in cases which require payment of all or a portion of said insurance to be made to a mortgagee as his interest may appear.~~

~~The Contractor, on the written request, shall be named jointly with the City in all policies, all of which shall be open to inspection. If the City fails to show them on request, or if they fail to effect or maintain as above, the Contractor may insure their own interests and charge the cost thereof to the City. If the Contractor is damaged by failure of the City to maintain such insurance, they may recover as stipulated in the Formal Bid Documents for recovery of damages.~~

~~The Trustee shall deposit any money received from insurance in an account separate from all their other funds and they shall distribute it in accordance with such agreement as the parties in interest may reach. If after loss no special agreement is made, replacement of injured work shall be ordered and executed as provided for under changes in the work.~~

~~The Trustee shall have power to adjust and settle any loss with the insurers unless the Contractor shall object in writing within three (3) working days of the occurrence of loss, and thereupon arbitrators shall be chosen. The Trustee shall in that case make settlement with the insurers in accordance with the directions of the arbitrators, who shall also, if distribution by arbitration is required, direct such distribution.~~

EXCLUSION: This insurance does not cover any tools owned by mechanics, any tools, equipment, scaffoldings, staging, towers, or supplies, and any temporary structures erected for the Contractor's operations.

D.3 PRESERVATION OF PROPERTY: The Contractor shall take whatever precautions necessary to prevent damage to all existing improvements, including aboveground and underground utilities, trees and shrubbery that are not specifically shown to be removed, fences, signs, mail boxes, survey markers and monuments, building and structures, the City's property, adjacent property and any other improvements or facilities within or adjacent to the work. If such improvements or property are injured or damaged by the Contractor's operations, they shall be replaced or restored, at the

D. Scope of Bid Item: for Excavation includes, but is not limited to the following:
   1. Field activities related to excavation.
   2. Cutting and filling activities.
   3. Removal and off haul of abandoned pipes/conduits or structures encountered.
   4. Stockpiling of materials on site.
   ~~5. Off haul of excess soil generated to a City Owned site no further than 15 miles round trip. Excess soil spoils can be assumed to be no more than fifteen percent (15%) of total excavation quantity.~~

E. All other incidental work necessary to complete for Excavation in accordance with the Contract Documents.

Bid Item No. 4a Off Haul

A. Units: Cubic Yard (CY)

B. Measurement: Partial payment based on Engineer's determination.

C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Off Haul.

D. Scope of Bid Item: for Off Haul includes, but is not limited to the following:
   1. Stockpiling of off haul materials on site.
   2. Off haul of excess soil generated to a City Owned site no further than 15 miles round trip.

E. All other incidental work necessary to complete for Off Haul in accordance with the Contract Documents.

Bid Item No. 5 Remove Existing Signage

A. Units: Each (EA)

B. Measurement: Partial payment based on Engineer's determination

C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Remove Existing Signage.

D. Scope of Bid Item: for Remove Existing Signage includes, but is not limited to the following:
   1. Removal of existing signage.
   2. Disposal of existing signage, unless otherwise specified by the City or Project Engineer.

E. All other incidental work necessary to complete for Remove Existing Signage in accordance with the Contract Documents.

Bid Item No. 6 Remove Existing Sanitary Sewer Manhole

A. Units: Each (EA)

B. Measurement: Partial payment based on Engineer's determination

C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Remove Existing Sanitary Sewer Manhole.

D. Scope of Bid Item: for Remove Existing Sanitary Sewer Manhole includes, but is not limited to the following:
   1. Excavation required to remove existing sanitary sewer manhole.

D. Scope of Bid Item: for Lower Irrigation Main includes, but is not limited to the following:
   1. Excavation and trenching as needed to access existing irrigation main.
   2. Work to verify where the irrigation main needs to be lowered, potholing, exploratory excavation etc.
   3. Installation of Anchor Blocks, restrained lengths, and fittings to obtain minimum cover.
   4. Furnish and installation of 8" C-900 PVC Wate pipe.
   5. Backfill and inspection as required.

E. All other incidental work necessary to complete Lower Irrigation Main in accordance with the Contract Documents.

Bid Item No. 13 SWPPP Measures, Maintenance and Reporting

A. Units: Lump Sum (LS)

B. Measurement: Partial payment based on Engineer's determination.

C. Payment: Payment includes full compensation for all work required to complete the contract requirements for SWPPP Measures, Maintenance and Reporting.

D. Scope of Bid Item: for SWPPP Measures, Maintenance and Reporting includes, but is not limited to the following:
   1. Preparation of SWPPP **for the project site and city owned off haul site.**
   2. Application and monitoring of SWPPP Measures **for the project site and city owned off haul site.**
   3. Annual and Storm Reporting **for the project site and city owned off haul site.**

E. All other incidental work necessary to complete SWPPP Measures, Maintenance and Reporting in accordance with the Contract Documents.

Bid Item No. 14 Class 2 Aggregate Base

A. Units: Cubic Yard (CY)

B. Measurement: Partial payment based on Engineer's determination.

C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Class 2 Aggregate Base.

D. Scope of Bid Item: for Class 2 Aggregate Base includes, but is not limited to the following:
   1. Purchase, hauling, stockpiling and placement of Class 2 Aggregate Base.
   2. Excavation and compaction of Class 2 Aggregate Base related to concrete, curb, building pad, gutter and sidewalk, commercial driveway, ADA Ramps, pavement sections, and trench work.
   3. Over excavation prior to placement of Class 2 Aggregate Base per details on the plans.

E. All other incidental work necessary to Class 2 Aggregate Base in accordance with the Contract Documents.

C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Install 6" Pipe from Water Main to Backflow Preventor.

D. Scope of Bid Item: for Install 6" Pipe from Water Main to Backflow Preventor BFP includes, but is not limited to the following:
   1. Furnish and install 6" PVC Irrigation pipe per the plans.
   2. Excavation and Trenching.
   3. Backfill and Inspection.

E. All other incidental work necessary to Install 6" Pipe from Water Main to Backflow Preventor in accordance with the Contract Documents.

Bid Item No. 45 Irrigation System

A. Units: Lump Sum (LS)

B. Measurement: Partial payment based on Engineer's determination.

C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Irrigation System.

D. Scope of Bid Item: for Irrigation System includes, but is not limited to the following:
   1. Controller assembly, 2-wire
   2. Irrigation booster pump
   3. ~~3"~~ **4"**Master valve & 4" flow sensor
   4. Weather sensor
   5. 2-wire decoder (1 per 2-wire valve)
   6. Controller wire (2-wire)
   7. Air relief valve (mainline system)
   8. Gate valves - 4"
   9. Quick coupling valves- 1"
   10. Remote control valve - 2"
   11. Remote control valve - 1-1/2"
   12. Remote control valve - 1"
   13. Jumbo valve boxes (MV&FS)
   14. Std valve boxes
   15. Jumbo valve boxes
   16. Round valve boxes - 10"
   17. Trenching/backfill - mainline 24"
   18. Trenching/backfill - lateral lines 18"
   19. Mainline - 6" ~~class 315~~ **PVC C900 DR18 Class 235**
   20. Mainline - 4" ~~class 315~~ **PVC C900 DR18 Class 235**
   21. Lateral line - 3" sch 40 PVC
   22. Lateral line - 2-1/2" sch 40 PVC
   23. Lateral line - 2" class 200 PVC
   24. Lateral line - 1-1/2" class 200 PVC
   25. Lateral line - 1" class 200 PVC
   26. Lateral line - 3/4" class 200 PVC
   27. Pipe restraints
   28. Sleeving - 8" sch 40 PVC

B. Measurement: Partial payment based on Engineer's determination.

C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Install Post and Cable Fencing.

D. Scope of Bid Item: for Install Post and Cable Fencing includes, but is not limited to the following:
   1. Furnish and install of all materials to install post and cable fencing per plans.
   2. Sawcutting existing pavement as needed and excavation of existing soil.
   3. Minor concrete work and aggregate base for setting the bollards.
   4. Repaving in areas where the pavement was sawcut.

E. All other incidental work necessary Install Post and Cable Fencing in accordance with the Contract Documents.

Bid Item No. 52 Hot Mix Asphalt for Paved Path

A. Units: Ton (TON)

B. Measurement: Partial payment based on Engineer's determination.

C. Payment: Payment includes full compensation for all work required to complete the contract requirements for Hot Mix Asphalt for Paved Path.

D. Scope of Bid Item: for Hot Mix Asphalt for Paved Path includes, but is not limited to the following:
   1. Purchase, hauling, stockpiling and placement of Hot Mix Asphalt.
   2. Preparation of subgrade.
   3. Minor grading and excavation.

E. All other incidental work necessary to Hot Mix Asphalt for Paved Path .in accordance with the Contract Documents.

Bid Item No. 53 Class 2 Aggregate Base for Paved Path

F. Units: Cubic Yard (CY)

G. Measurement: Partial payment based on Engineer's determination.

H. Payment: Payment includes full compensation for all work required to complete the contract requirements for Class 2 Aggregate Base for Paved Path.

I. Scope of Bid Item: for Class 2 Aggregate Base for Paved Path includes, but is not limited to the following:
   1. Purchase, hauling, stockpiling and placement of Class 2 Aggregate Base.
   2. Excavation and compaction of Class 2 Aggregate Base related to construction of a paved path as shown on the plans.
   3. Over excavation prior to placement of Class 2 Aggregate Base per details on the plans.

J. All other incidental work necessary to Class 2 Aggregate Base for Paved Path in accordance with the Contract Documents.

1.4 CONTRACTOR'S COST BREAKDOWN

1. Elbows shall be long-sweep schedule 40 bell-end, conforming to ANSI/UL 651 and NEMA TC-3
2. Couplings, adapters, and fittings shall conform to UL 514B and NEMA TC-3.

2.02 BACKFLOW ASSEMBLIES

A. Shall be as specified on the drawings, conforming to all codes and local jurisdictional requirements.

2.03 VALVES

A. Isolation (mainline) Valves

1. Valves shall be as specified on the drawings and same size as the pipe they are installed on. An isolation valve shall be installed downstream of the backflow device, or if none, at the point of connection, whether shown on the plans or not. Contractor to utilize Leemco LMV-BB series gate valves for sizes 4" and larger.
2. Shutoff (SO) valves installed immediately upstream of remote-Control Valves (RCV) shall be Schedule 80 PVC with integrated union for sizes 2" and smaller. Shutoff valves immediately upstream of mainlines larger than 2" shall be gate-type bronze valves.

B. Quick Coupling Valves (QC) shall be as specified on the drawings. Valves shall have a brass two-piece body with a minimum working pressure of 125 psi and be operable with a standard quick coupler key.

C. Remote Control Valves (RCV) shall be as specified on the drawings. Valves have a manual flow adjustment and fully potted solenoid.

1. All remote-control valves shall have a schedule 80 compression coupling installed between the valve outlet and downstream lateral. Compression coupling and valve shall be removable without disturbing the valve box.
   a. Spears S110 series; or
   b. A.Y. McDonald Mfg. Co 2072 series; or
   c. American Granby CCC series; or
   d. equal.

D. In-line Check Valves (CV) shall be as specified on the drawings.

E. Mainline Continuous Automatic Air Release Valve(s) shall be as specified on the drawings.

2.04 VALVE BOXES

A. Boxes for isolation valves, quick couplers, air release valve, drip flush valves and drip air relief valves shall be as specified on the drawings. Extension sleeve shall be PVC with a minimum diameter of 6".

B. Boxes for master valve, flow sensor, RCV's, and drip filters shall be as specified on the drawings. Color: Valve boxes and lids shall be green or tan for potable water applications and purple for non-potable water designation.

C. Identification: Remote Control Valve box lids shall be heat-branded with the controller and valve number (e.g.: A13). Mainline Air Release Valve shall be branded "ARV." Quick Coupling Valves shall be branded "QC." Master Valve shall be branded "MV." Isolation Valves shall be branded "IV." Flow sensor shall be branded "FS."

2.05 MASTER VALVE AND FLOW SENSOR

1. Master Valve: shall be as specified on the drawings.
2. Flow Sensor: shall be as specified on the drawings.
3. Flow Sensor communication cable and Master Valve control wiring shall be as specified by

C. Beginning work shall constitute acceptance of the site and suitability of services.

3.02 INSTALLATION

A. Trenching: Provide the following depths for all lines:

1. Mainline and control wiring: 24 inches ~~EXCEPT at living turf sports field area with flat drain system.~~

2. Lateral lines: 18 inches EXCEPT at living turf sports field area with flat drain system. Throughout area with flat drain system, lateral lines shall be installed 24 inches deep to avoid flat drain system.

3. All lines under vehicular pavement: 30 inches

4. All lines under pedestrian pavement: 30 inches

B. Bedding:

1. Mainline bedding as specified on drawings.

C. Backfilling:

1. Backfilling shall not occur prior to all required observations and tests. Any lines covered prior to these shall be exposed at the contractor's expense.

2. Initial backfill for mainline as specified on drawings.

3. Initial backfill for laterals shall be a fine granular material in a layer 6" deep, or covering the pipe to at least 2" in depth, whichever is greater. Native soil may be used for initial backfill, excepting those rocks, clods, and deleterious material 1/2" in diameter or greater shall be screened out.

4. Backfill shall be compacted to a density at least equal to undisturbed soil in planting areas. Settlement of trenches shall be deemed evidence of insufficient compaction and shall be corrected at the contractor's expense, including adjustment of lines, heads, grades, and replacement of plant material.

D. Backfilling Under Paving:

1. Backfill shall consist of 6" of sand, then screened native material in 6" maximum lifts, compacted to 95% relative compaction. All trenches shall be left flush with the adjoining grade. As a part of irrigation work, contractor shall set in place and cap all sleeving under paving prior to paving work. If piping requires joints under paving, all piping shall be laid, capped, and pressure tested prior to paving work.

2. Piping under existing walks shall be done by jacking or boring. Hydraulic driving shall be permitted only under pedestrian paving not exceeding four feet in length. Where cutting and patching is required, concrete shall be removed to the nearest control joint. New concrete shall match existing finish and color.

3.03 PIPING

A. Piping:

1. Initially fill mainline slowly (maximum velocity 1 foot per second). Vent air from the mainline while filling. Thoroughly flush mainline prior to installing valves.

2. Pipe Clearance: all pipes 4" or greater shall have a minimum clearance of 6" from each other. All pipes 3" or less shall have a minimum clearance of 3" from each other.

3. Flushing: all lines shall be flushed prior to installation of emitter assemblies.

4. Deflection for PVC pipe: Do not exceed a longitudinal bending radius of 300 times the pipe outside diameter or the manufacturer's rated deflection, whichever is less, for either solvent welded or gasketed pipe.

3.06 AUTOMATIC CONTROLLER

A. Equipment shall be located outside casual view, but accessible for maintenance operations. Field verify controller locations and confirm with City's Representative prior to installation.

B. Grounding shall be accomplished with grounding plate, as shown in the drawings. Each piece of equipment shall be individually grounded.

C. Assure communication with City's Central Communication Station. Contractor to coordinate all required tests.

3.07 LIGHTNING PROTECTION

A. Materials, devices, and other equipment shall be installed as shown on the drawings, and per equipment manufacturer's requirements.

1. Irrigation Controllers

   a. Install grounding plates per drawings.

   b. Refer to manufacturer's specifications for thickness and quantity of earth contact/ ground enhancement material.

2. Irrigation Control Wiring

   a. Lightning Arrestors shall be installed along the two-wire path at intervals not to exceed 600'. Install grounding rod at each arrestor.

   b. A measured resistance reading of no more than 25 ohms is required at each Lightning Arrestor per ASIC Specifications Section 7.0 – Measuring resistance, item A.

3.08 BOOSTER PUMP

A. Install on a concrete pad a minimum of 4 inches thick, with all required penetrations, and extending 4" beyond pump enclosure on all sides, or as detailed by the manufacturer, whichever is greater. Wrap all penetrations in two layers of pipe wrap where in contact with slab.

B. Install per manufacturer's instructions.

C. Ground per all applicable codes and ordinances.

3.09 FLOW SENSOR

A. Install per manufacturer's instructions. Provide a minimum unobstructed pipe length of 10 times the diameter of the mainline pipe length upstream of the flow sensor, and 5 times the diameter of the mainline downstream of the flow sensor.

3.10 VALVES

A. Remote Control Valve Assemblies, Quick Couplers, and Isolation Valves

1. Install in approximate locations shown on drawings, but in planter areas instead of turf areas wherever possible, and as shown in the details. Valve boxes shall be perpendicular to adjacent walls, walks, or headers, and shall be parallel to each other.

2. Each valve shall be identified with a minimum 2" x 2-3/4" yellow (or purple, for non-potable applications) polyurethane I.D. tag attached to the control wire of the valve.

B. Mainline Air Release Valves

1. Install an automatic air relief valve on all mainlines with vertical elevation difference of 15 feet or more, and on all mainlines exceeding 2,000 linear feet, whether shown on the drawings or not. Air relief valve shall be ~~1"~~ 2" for mainlines up to 8" in diameter. Install at localized high point on mainline and verify location with City's Representative in field prior to installation.

C. Master Valves

1. Install per manufacturer's instructions and as shown on the drawings.

weight and shall be mixed by commercial fertilizer supplier: 16 percent nitrogen, 6 percent phosphoric acid, and 8 percent potash.

2. Turf Starter Fertilizer shall consist of the following percentages by weight: 16 percent nitrogen, 20 percent phosphoric acid, and 0 percent potash.

2.06 LANDSCAPE TOPSOIL

A. On-site stripped and stockpiled topsoil (if any) shall be considered suitable for planting upon receipt of a soil fertility analysis. Contractor to obtain soil analysis with recommendations for existing topsoil. If existing topsoil is not appropriate for planting even with recommended amendments, then imported soil will be necessary. Imported soil shall be of a sandy-loam texture, free of refuse, roots or other un-decomposed whole organic material, parasitic nematodes, rocks, clods, clay, or other deleterious material. A minimum of one soil fertility test shall be supplied for each source prior to import.

B. Particle Size:

CLASS	PARTICLE SIZE	MAX. % WT.	MIN. % WT.
Coarse Sand	0.5-2.0 mm	15	0
Silt Plus Clay	< 0.05 mm	50	25
Silt	0.002 - 0.05 mm	30	10
Clay	0 - 0.002 mm	25	10
Gravel	2 - 13 mm	15	
Rock	> 1/2 inch	10% by volume, none > 1 inch	0
Organic Matter		15	0

C. The pH of saturated paste shall be between 5.5 and 7.5 without high qualitative lime content. The sodium absorption ratio (SAR) shall not exceed 6 and the electrical conductivity (ECe) of the saturation extract of this soil shall not exceed 3.0 milliohms per centimeter at 25 degrees centigrade. The boron content shall be no greater than one part per million as measured on the saturation extract.

2.07 TOPSOIL FOR TURF AREAS

A. On-site stripped and stockpiled topsoil shall ~~not~~ be considered suitable for planting. Contractor to obtain soil analysis with recommendations for existing topsoil. If existing topsoil is not appropriate for planting even with recommended amendments, then imported soil will be necessary.

B. Top 8” of natural turf area imported soil shall be a mix imported material of a sandy loam to a loamy sand texture, free of refuse, roots or other un-decomposed whole organic material, parasitic nematodes, rocks, clods, clay, or other deleterious material. A minimum of one soil fertility test shall be supplied for each source prior to import.

C. Approved Suppliers of Topsoil or equal

1. Cascade Rock, Topsoil

~~a. 65% Sand, 22% Silt and 13% Clay~~

b. Verification submittal through recent testing of % sand is required.

2. TMT Enterprise, Topsoil

a. Verification submittal through recent testing of % sand is required.

2.08 PLANT MATERIAL

A. Plants shall be in accordance with the California State Department of Agriculture's regulation for nursery inspections, rules, and rating. All plants shall have a normal habit of growth and shall be sound, healthy, vigorous, and free of insect infestations, weeds, plant diseases, sun scalds, fresh abrasions of the bark, excessive abrasions, or other objectionable disfigurements. Tree trunks shall be sturdy and have well "hardened" systems and vigorous and fibrous root systems that are not root or pot bound.

a. Nitrogen stabilized organic amendment – ~~3~~ 4 cubic yards
b. Planting fertilizer - 18 lbs.
c. Soil Conditioner – 150 lbs.
d. Gypsum - 200 lbs.
e. Soil sulfur - 20 lbs.
f. Iron – 2 lbs.
g. Calcium carbonate – 2 lbs.
h. For annual color areas, in addition to the above, incorporate 3 cubic yards organic amendment and 20 cubic feet of Perlite.

C. Final Grades:

1. Remove all rocks, whole organic materials (roots, stumps, etc.), construction debris, or other deleterious materials 1" or greater from the top 6" of soil in planting areas.
2. Fine grades below adjacent paved areas, sidewalks, valve boxes, headers, clean-outs, drains, manholes, etc. shall be as follows: hydroseeded areas, ½ inch; sodded areas, one inch; shrub and groundcover planting areas, 1/2 inch plus the depth of mulch indicated on Drawings below adjacent improvements.
3. Final grading shall ensure proper drainage of the site, with positive surface flow to all catchment inlets, areas, and structures. Surface drainage shall be away from all building foundations.
4. All planting areas shall be compacted and settled by application of heavy irrigation or light roller to a minimum depth of twelve inches.
5. Minor excess soil may be incorporated into planting areas to form minor berms not exceeding slopes of 12:1 without prior approval. Dispose of any unacceptable materials or excess soil legally at an offsite location at no additional expense to the owner.

3.03 TURF AREA SOIL PREPARATION AND SOIL AMENDMENT

A. Irrigation

1. Irrigation system installation must be inspected and approved by a representative of the City or the Landscape Architect prior to the backfill of the trenched area and proceeding to the next.
   a. All irrigation lateral lines, main lines and swing joints are to be installed prior to amending of the soils.
      i. Where the swing joints attach, cap the fitting, drill a 1/4" hole in the cap, and point it upward.
   b. Bury swing joints a min of 12" below finish grade, to be deeper than the rototilling machine will reach.

B. Sand and Soil Import

1. Laser grade the field subgrade to 8.5" below final grade shown on plans.
2. Import and evenly spread 6" (Compacted depth measurement) of approved turf area topsoil. Topsoil to be wheel rolled and Laser grade to be 0,5" below finish grade.

C. Soil Amendment

1. Limit preparation to areas which will be planted promptly after preparation.
2. Laser grade new turf areas in preparation of scheduled amendments.
3. Spread approved Gypsum at the rate of 38 lbs./1000 sq. ft. evenly over the field.
4. Spread the approved Potassium at the rate of 16 lbs./1,000 s. ft. evenly over the field.
5. Mix Approved liquid nitrogen with enough water to cover the field at a rate of .5 (1/2) gallon per 1,000 sf.

6. Spread compost at the rate of 8 cubic yards per 1,000 sq. ft for living turf areas. Compost type to be determine by soil analysis with recommendations.
7. Spread Concentrated Soil Conditioner over the area at the rate of 13 cubic yards per acre with the top dresser for even distribution (no front-end loaders or manual spreading).
    a. Dry spreader for spreading bagged fertilizer material (can be sling type or drop type-1000 lbs. or larger).
    b. Top dresser with a minimum of 4 yards capacity. There is a Speed dresser that holds 8 cubic yards of material or 9 tons, is an 8 ft. wide drop spreader and it can spread 90 tons per hour or 900 tons per day. Nearly dust free
8. Mix the Microbes Food liquid with enough water to apply .5 gallons per acre and spray evenly over the turf area.
9. Mix the dry THI Microbial Starter with enough water to apply 160 lbs per acre evenly over the turf area.

D. Rototilling
1. Turf areas will be roto-tilled at 8” in depth.
2. Two passes in different directions will be required. Rototill approximately 7.5” deep or 1/2" of subgrade on second pass so as not to pick up or disturb subgrade.
3. Rototill with primary equipment as close to edges and valve boxes as can be done safely. Use hand-operated equipment to roto-till adjacent hardscape, valve boxes, and other obstructions.

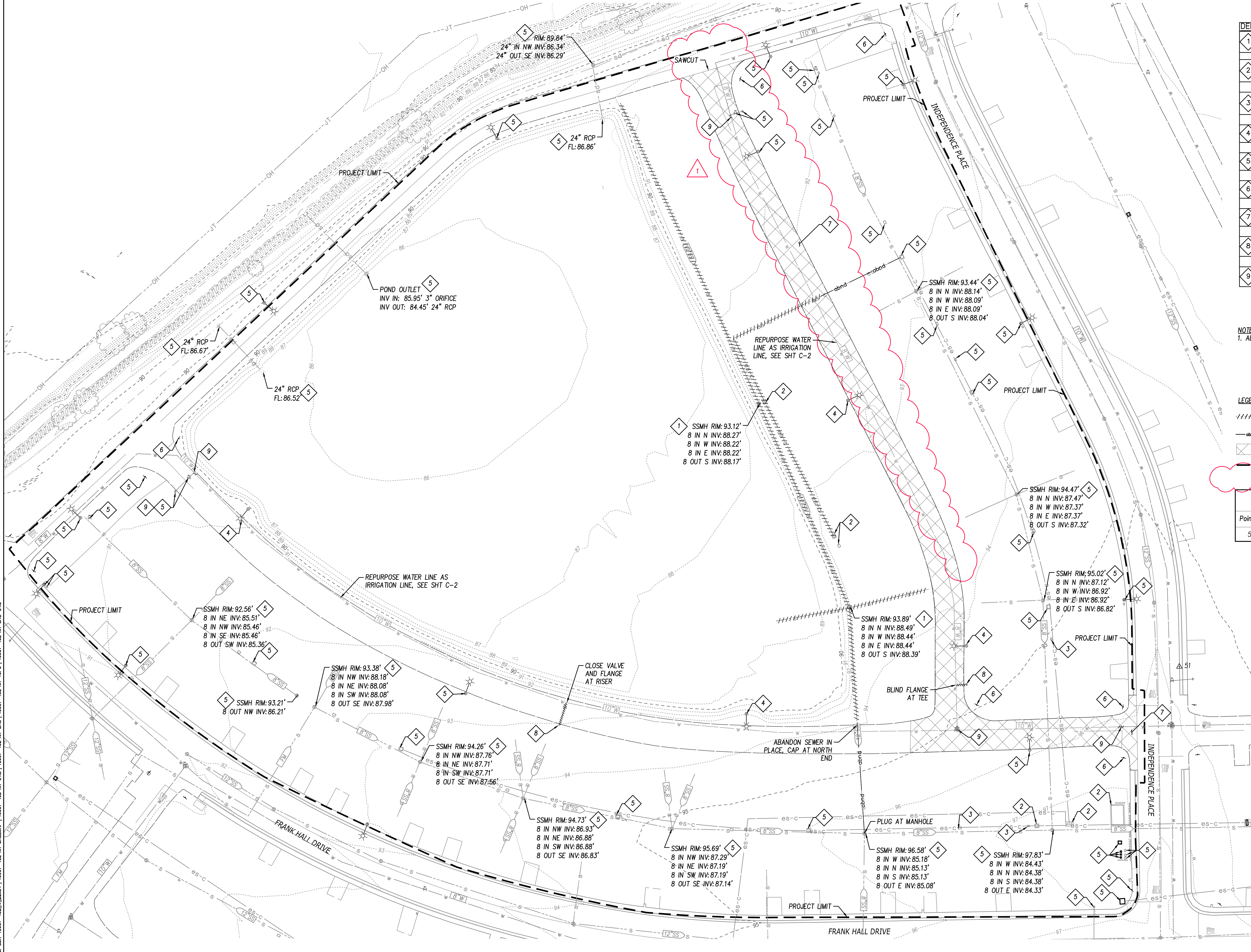
F. Irrigation
1. Turn on the irrigation system zone by zone and mark each wet spot with flags before moving to the next zone.
2. Carefully remove soil at the wet spot and place it on a tarp next to the hole. Keep amended soil separate from subgrade material and replace in the order removed. Install irrigation equipment, and then dry tamp (moisture will compact this material) the soil around the head and swing joint. Settling shall be evidence of incomplete or incorrect installation and shall be repaired at no additional cost to the City.
3. Conduct irrigation coverage test and verify that no areas of puddling are present. Irrigation system shall be run until the turf area is saturated to verify that no localized ponding occurs within turf areas. Test shall be conducted in the presence of the City’s Representative.

3.04 PLANT INSTALLATION

A. Only as many plants as can be planted and watered on that same day shall be distributed in a planting area.

B. Layout of Major Plantings: Locations for trees and outlines of areas to be planted shall be marked on the ground by Contractor before any plant pits are dug. All such locations shall be approved by the City’s Representative. If underground construction or a utility line is encountered during excavation of planting pits, other locations for planting may be selected by the City’s Representative. Layout shall be accomplished with flagged grade stakes indicating plant names and specified container size on each stake.

C. Planting of Trees and Shrubs:
1. Planting Pit Preparation
    a. Excavation for planting shall include the stripping and stacking of all acceptable topsoil encountered within the areas to be excavated for trenches, tree holes, plant pits and planting beds.
    b. Protect all areas from excessive compaction when trucking plants or other material to the planting site.



DEMOLITION NOTES:

1	REMOVE EXISTING SANITARY SEWER MANHOLE
2	EXISTING ELECTRICAL TRANSFORMERS AND LARGE CABINET TO BE REMOVED BY OTHERS
3	REMOVE EXISTING TEMPORARY SERVICE CONNECTION POSTS, AND RETURN PANELS TO THE CITY
4	EXISTING UTILITY POLE AND LIGHT TO BE REMOVED BY OTHERS
5	PROTECT EXISTING STRUCTURE, SIGN OR UTILITY IN PLACE, SEE CIVIL PLANS FOR GRADE ADJUSTMENTS
6	REMOVE EXISTING SIGN, AND RETURN TO THE CITY
7	DEMOLISH EXISTING PAVEMENT
8	REMOVE EXISTING FIRE HYDRANT PER DTL 12 SHT C-17, RETURN TO CITY
9	DECOMMISSION WATER LINE FOR IRRIGATION USE, SEE SHT C-2

NOTES:
1. ALL ELECTRICAL DEMO TO BE COMPLETED BY THE CITY.

LEGEND:

- REMOVE EXISTING UTILITY PIPE/CONDUIT
- ABANDON EXISTING UTILITY PIPE/CONDUIT
- LIMITS OF PAVEMENT REMOVAL
- PROJECT LIMITS

Point Table

Point #	Elevation	Northing	Easting	Description
51	95.88	2254724.52	6648651.20	MAG

GRIDLEY CALIFORNIA

NO.	REVISIONS	BY	DATE
1	ADDENDUM #3	JG	11/25/24

SUBCONSULTANT

BEN|EN TRUSTED ENGINEERING ADVISORS

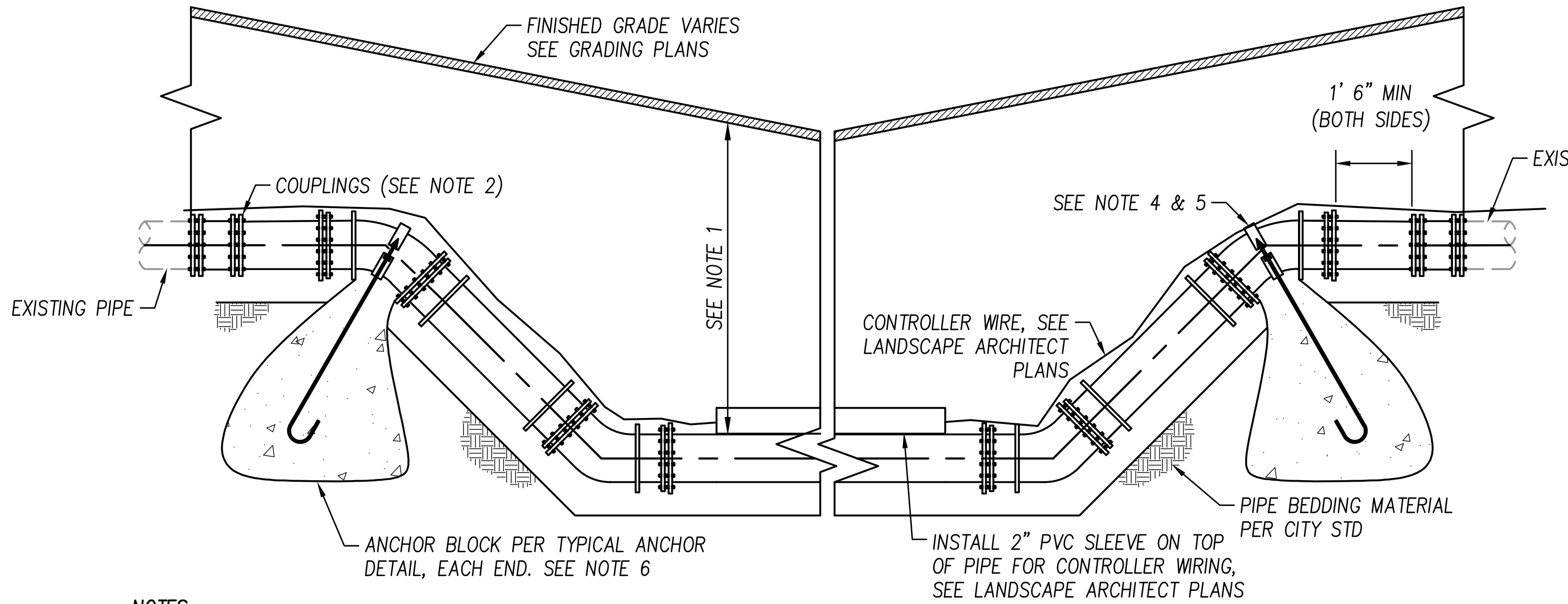
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

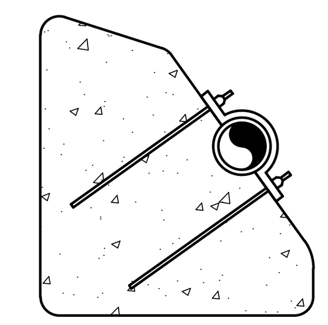
DESIGN BY : A. HOLLADAY
DRAWN BY : J. GINNEVER
CHECKED BY : D. HARDEN
SCALE : 1"=50'
DATE : 10/01/2024
PROJ NO. : 16607-402

GRIDLEY SPORTS COMPLEX PH 1
DEMOLITION & ABANDONMENT PLAN
CITY OF GRIDLEY CALIFORNIA

C-1
03 OF 53

Login Name: jginnever
Plot Date: November 25, 2024 - 4:42 pm; Plot Style: ####
File Name: P:\Proj\16607-402-Gridley-RRT Sports Complex\03-PLANS\MASTERS\SHEETS\16607-402_03 C-1 - EX COND DEMO.dwg
XREFS: BDR-16607-402_V_22x34 | 16607-402 XR-BASEMAP | 16607-402 XR-UTIL | 16607-402 XR-SITE | 16607-402 XR-TOPO | 16607-402 XR-SITE-UTIL

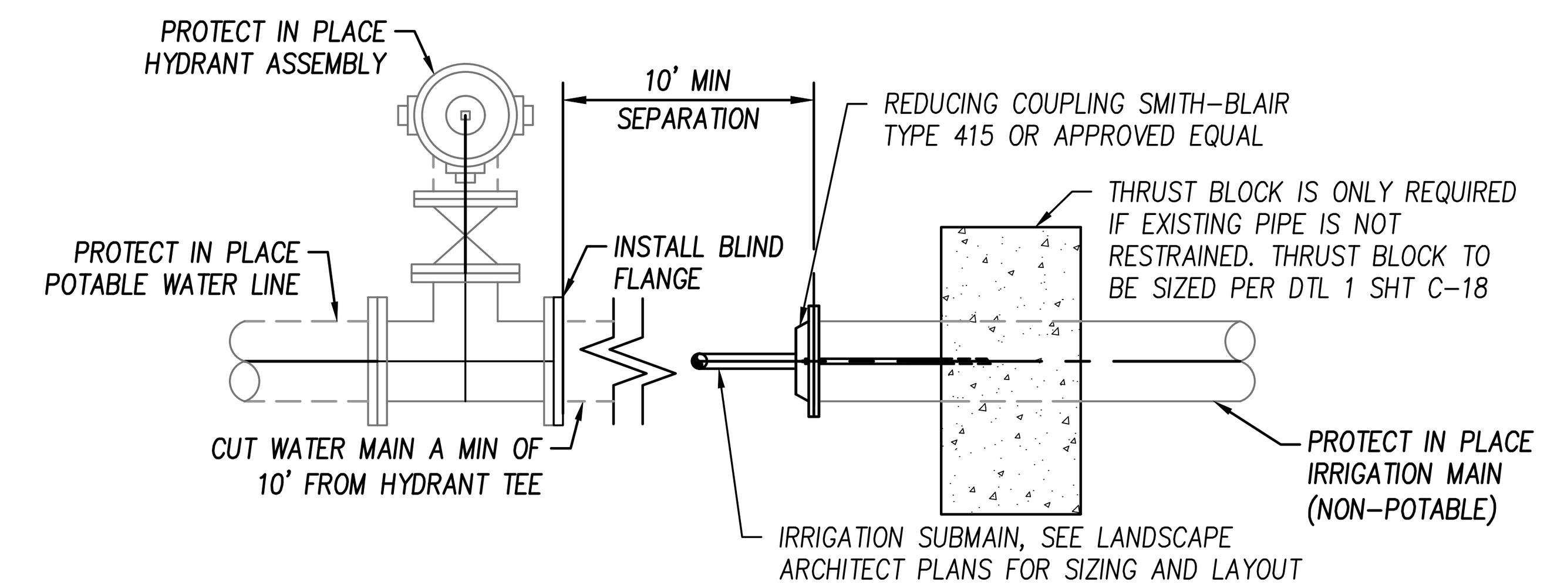




TYPICAL ANCHOR DETAIL

NOTES:
1. CONTRACTOR TO LOWER MAIN TO MAINTAIN MINIMUM COVER OF 36" IN PARKING LOTS AND ROADS OR 24" IN LANDSCAPED AREAS..
2. WHEN CONNECTING TO AN EXISTING MAIN, CONNECTIONS TO CAST IRON, DUCTILE IRON, OR PVC PIPE SHALL BE MADE WITH MECHANICAL JOINT SOLID SLEEVES WITH RESTRAINT GLANDS. APPROVED "WIDE RANGE" COUPLINGS SHALL BE USED WHEN COUPLINGS, AS SHOWN, ARE NOT REQUIRED.
3. ALL NEW PIPING SHALL BE A RESTRAINED JOINT SYSTEM, IF ANCHOR BLOCKS ARE REQUIRED, NOTES 4, 5, AND 6 APPLY.
4. WHEN USING ANCHORS, USE TWO CLAMPS (UPPER AND LOWER) PER FITTING. AFTER NUTS ARE TIGHTENED, DRY OFF ANY MOISTURE AND COAT NUTS AND THREADS PER CITY STANDARDS.
5. 6" PIPE WILL USE 5/8" ANCHOR BOLTS AND 3" X 1/4" STEEL CLAMPS, 8" PIPE WILL USE 3/4" ANCHOR BOLTS AND 3 1/4" X 1/4" STEEL CLAMPS, 10" PIPE WILL USE 1 1/8" ANCHOR BOLTS AND 4" X 1/2" STEEL CLAMPS
6. WHEN WATER MAIN LOWERING IS PART OF A LARGER INSTALLATION, AND WHEN OTHERWISE PRACTICAL, THE NEW SYSTEM SHALL BE DESIGNED AS A "RESTRAINED JOINT SYSTEM", IN LIEU OF OR IN ADDITION TO ANCHOR BLOCKS, AND PER CITY STANDARDS. SEE CITY STANDARDS FOR ADDITIONAL INFORMATION AND REQUIREMENTS ON RESTRAINED JOINT SYSTEMS.

1 / - IRRIGATION MAIN LOWERING
SCALE: NTS

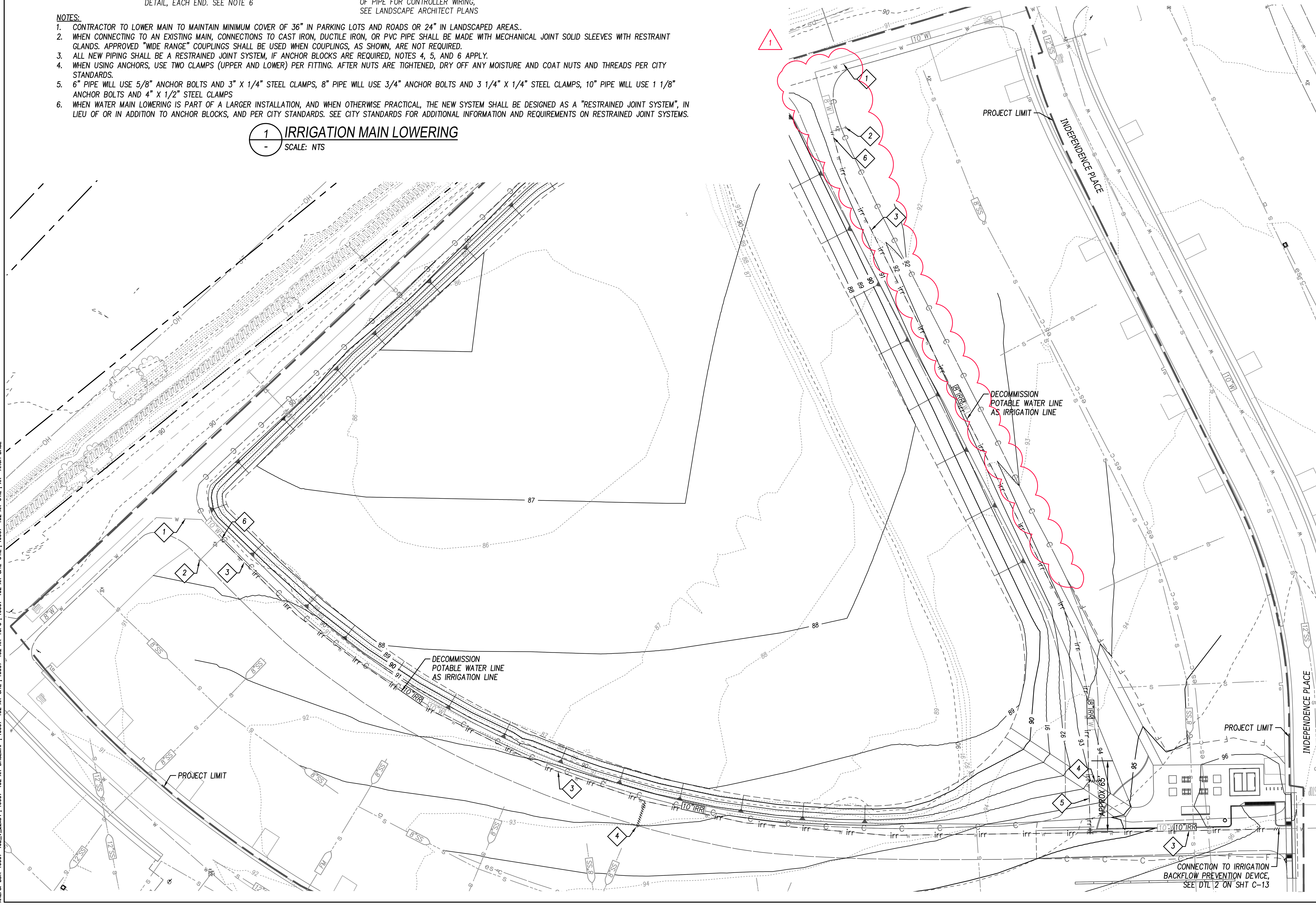


2 / - DECOMMISSION DETAIL AT HYDRANT
SCALE: NTS

DECOMMISSIONING NOTES:

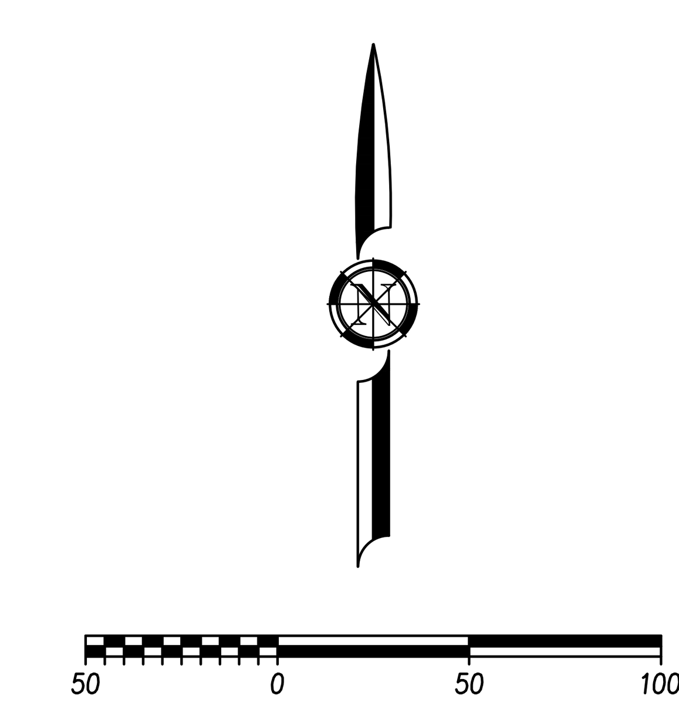
1	PROTECT IN PLACE AS POTABLE WATER MAIN
2	PROTECT IN PLACE AS POTABLE HYDRANT
3	PROTECT IN PLACE AS IRRIGATION MAIN
4	REMOVE/ABANDON EXISTING FIRE HYDRANT ASSEMBLY PER DTL 12 SHT C-17
5	LOWER IRRIGATION MAIN TO MEET MINIMUM COVER REQUIREMENTS AS AFFECTED BY GRADING, PER DTL 1, THIS SHT. CONTRACTOR TO VERIFY
6	DECOMMISSIONING IRRIGATION MAIN FROM POTABLE WATER MAIN PER DTL 2, THIS SHT

NOTE:
THIS IS A DEMOLITION PLAN FOR THE WATER AND IRRIGATION LINE ONLY. SEE SHT C-1 FOR A FULL DEMOLITION PLAN.



LEGEND:

///////	REMOVE/ABANDON EXISTING UTILITY PIPE/CONDUIT
— — irr —	IRRIGATION LINE
————	EDGE OF PAVEMENT
— —	PROJECT LIMITS



GRIDLEY
CALIFORNIA

NO.	REVISIONS	BY	DATE
1	ADDENDUM #3	JG	11/25/24

SUBCONSULTANT

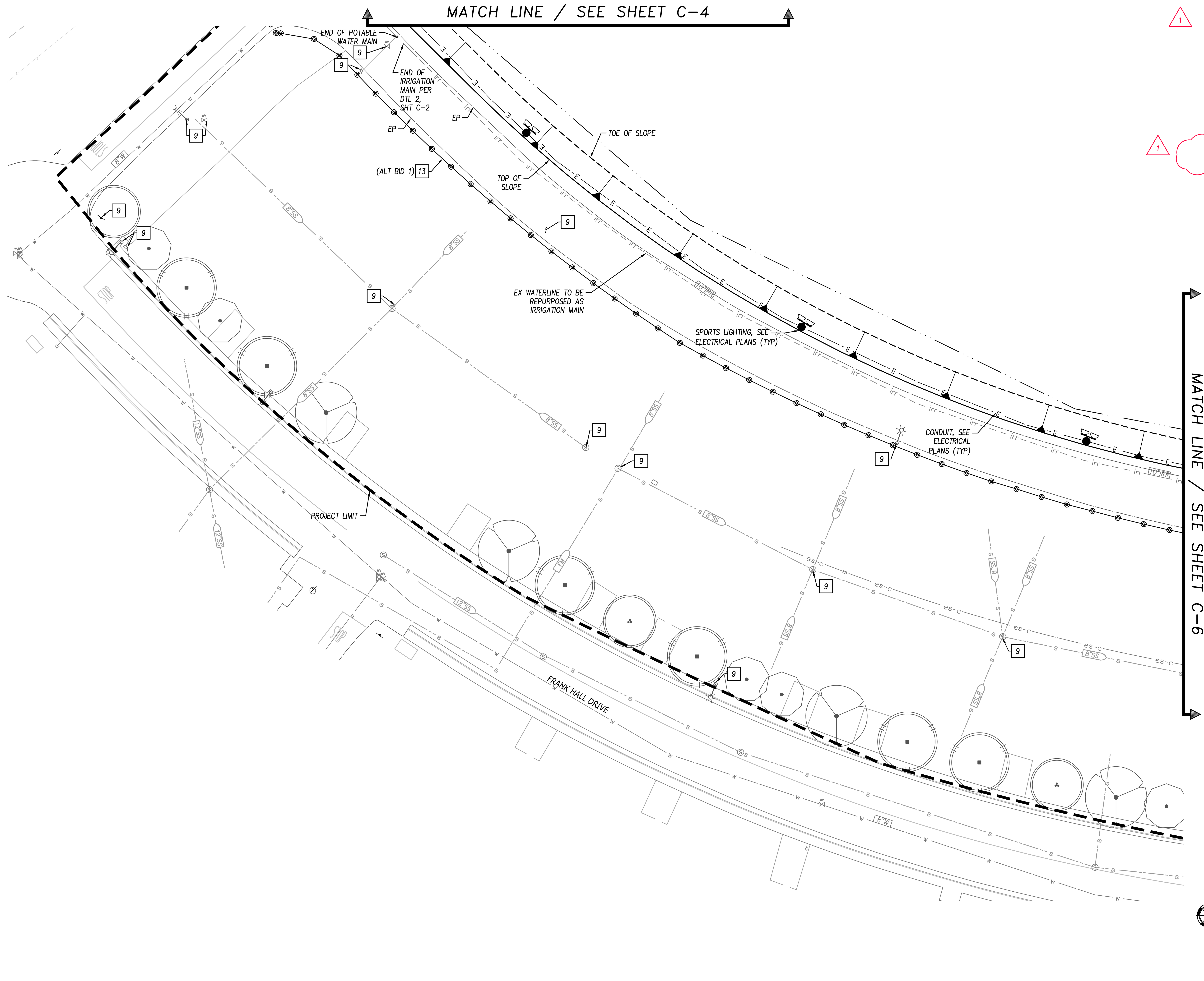
BEN|EN
TRUSTED ENGINEERING ADVISORS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DESIGN BY : A. HOLLADAY
DRAWN BY : J. GINNEVER
CHECKED BY : D. HARDEN
SCALE : 1"=50'
DATE : 10/01/2024
PROJ NO. : 16607-402

GRIDLEY SPORTS COMPLEX PH 1
WATERLINE DECOMMISSIONING PLAN
CITY OF GRIDLEY CALIFORNIA

C-2
04 OF 53



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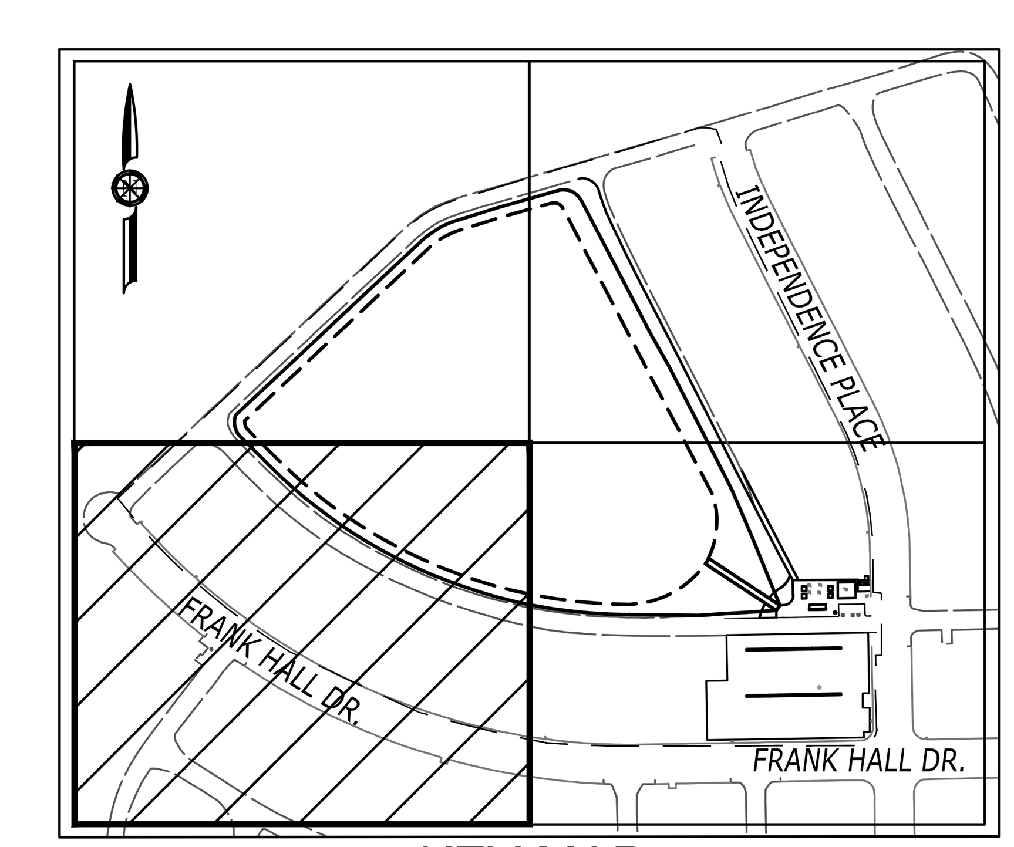

KEY MAP
NTS

LEGEND:

	PROJECT LIMITS
	2-6" RIBBON DRAINS
	SAWCUT
	EDGE OF PAVEMENT
	POST & CABLE FENCE (ALT BID 1)
	ANCHOR POST (ALT BID 1)
	PERMANENT BOLLARD (ALT BID 1)
	COLLAPSIBLE BOLLARD (ALT BID 1)
	PAVED PATH PER DTL 2 SHT C-17 (ALT BID 2)
	PEDESTRIAN CONCRETE PER DTL 3 SHT C-17
	VEHICULAR CONCRETE PER DTL 4 SHT C-17
	DRIVE AISLE PER DTL 5 SHT C-17
	PARKING LOT PER DTL 6 SHT C-17
	AB PAD PER DTL 9 SHT C-16
	PLANTER AREA, SEE LANDSCAPE ARCHITECT PLANS

CONSTRUCTION NOTES:

1. RESTROOM AND CONCESSION STAND, BY OTHERS
2. INSTALL TYPE A4 CURB GUTTER AND SIDEWALK PER DTL 5 AND 7 SHT C-16
3. INSTALL 8' MIN PAVED PATH PER DTL 2 SHT C-17 (ALT BID 2)
4. INSTALL SSCO PER STD DTL SS-04 SHT C-14
5. CONSTRUCT COMMERCIAL DRIVEWAY, WITH ADA RAMPS PER DTL 6 SHT C-16
6. CONSTRUCT ADA PARKING PER CALTRANS DTL A90A
7. CONSTRUCT CURB RAMP CASE G PER CALTRANS DTL A88A
8. INSTALL RAILROAD WHEELSTOPS PER DTL 8 SHT C-17 (ALT BID 1)
9. PROTECT IN PLACE
10. CONSTRUCT 10' WIDE ACCESSIBLE PATH
11. ADJUST TO GRADE
12. INSTALL RIBBON DRAINS PER DTL 1 AND 2 ON SHT C-16
13. ~~INSTALL POST AND CABLE FENCING PER DTL 7 SHT~~ C-17 (ALT BID 1)
14. INSTALL COLLAPSIBLE BOLLARDS PER DTL 4 SHT C-16 (ALT BID 1)
15. PICNIC TABLES, BY OTHERS
16. ACCESSIBLE PICNIC TABLE, BY OTHERS
17. INSTALL SEAT WALL, SEE DTL 10 SHT C-17
18. TREE WELLS, SEE LANDSCAPE ARCHITECT PLANS
19. INSTALL CURB CUT, SEE DTL 3 SHT C-16
20. INSTALL MOWBAND PER DTL 1 ON SHT C-17
21. INSTALL TYPE A2 CURB AND GUTTER PER DTL 7 SHT C-16
22. BIKE RACK, BY OTHERS
23. INSTALL BOLLARDS PER DTL 8 SHT C-16 (ALT BID 1)
24. CONSTRUCT ROLLED CURB TRANSITION FOR VEHICLE ACCESS PER DTL 9 SHT C-17
25. CURB TO BE PAINTED GREEN FOR LOADING ZONE
26. INSTALL A1-6 BARRIER CURB PER DTL 7 SHT C-16
27. INSTALL FLAG POLE PER MANUFACTURER INSTRUCTIONS.

GRIDLEY
CALIFORNIA

NO.	REVISIONS	BY	DATE
1	ADDENDUM #3	JG	11/25/24
2			
3			
4			
5			
6			

SUBCONSULTANT

REGISTERED PROFESSIONAL ENGINEER DAVID P. HARDEN NO. C84216 CIVIL STATE OF CALIFORNIA

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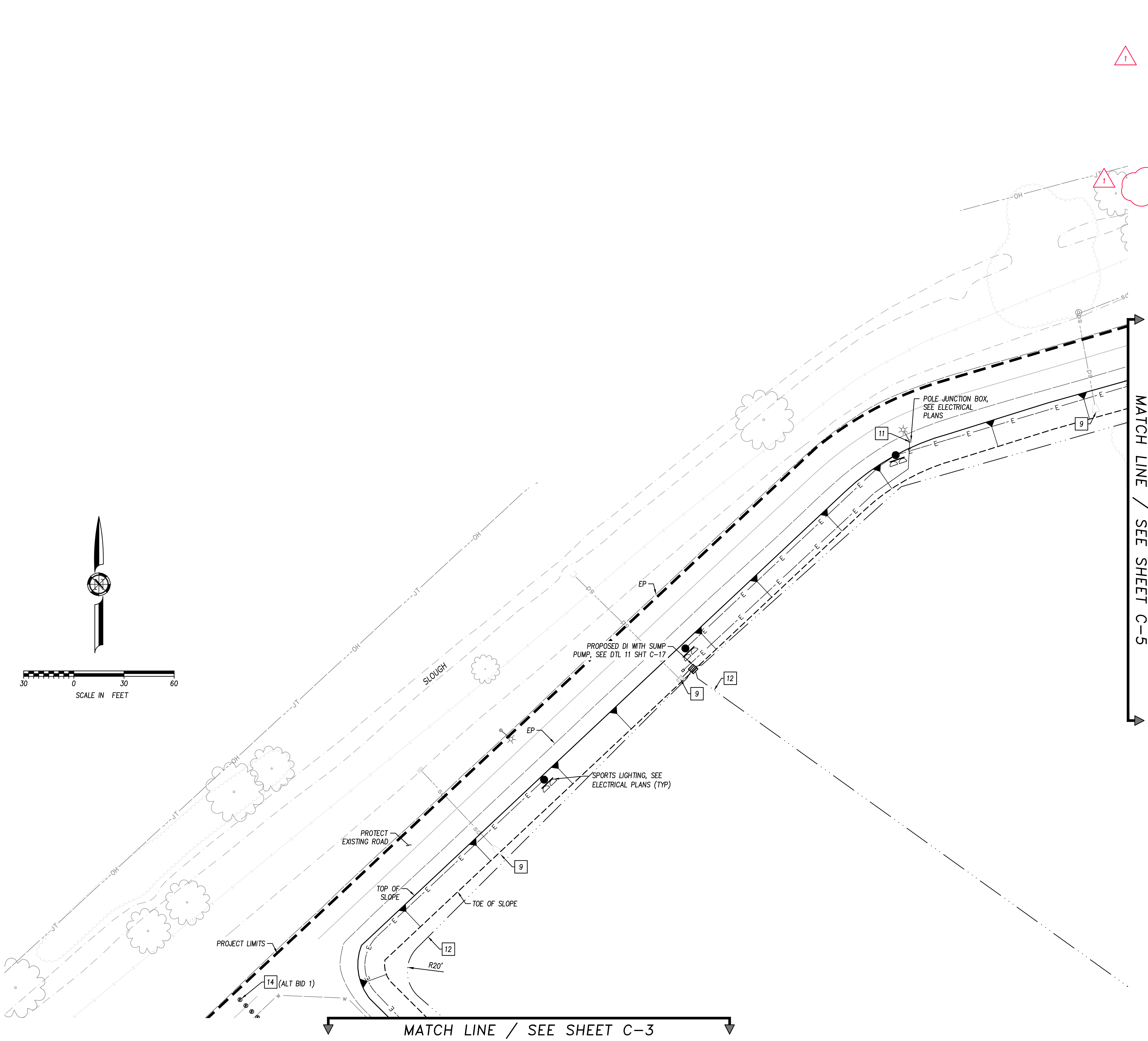
DRAWN BY : J. GINNEVER
CHECKED BY : D. HARDEN
SCALE : 1"=30'
DATE : 10/01/2024
PROJ NO. : 16607-402

GRIDLEY SPORTS COMPLEX PH 1
SITE PLAN I
CITY OF GRIDLEY CALIFORNIA

C-3
05 OF 53



LEGEND:

- PROJECT LIMITS
- 2-6" RIBBON DRAINS
- SAWCUT
- EDGE OF PAVEMENT
- POST & CABLE FENCE (ALT BID 1)
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- PERMANENT BOLLARD (ALT BID 1)
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- PAVED PATH PER DTL 2 SHT C-17 (ALT BID 2)
- PEDESTRIAN CONCRETE PER DTL 3 SHT C-17
- VEHICULAR CONCRETE PER DTL 4 SHT C-17
- DRIVE AISLE PER DTL 5 SHT C-17
- PARKING LOT PER DTL 6 SHT C-17
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CONSTRUCTION NOTES:

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15. PICNIC TABLES, BY OTHERS
16. ACCESSIBLE PICNIC TABLE, BY OTHERS
17. INSTALL SEAT WALL, SEE DTL 10 SHT C-17
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19. INSTALL CURB CUT, SEE DTL 3 SHT C-16
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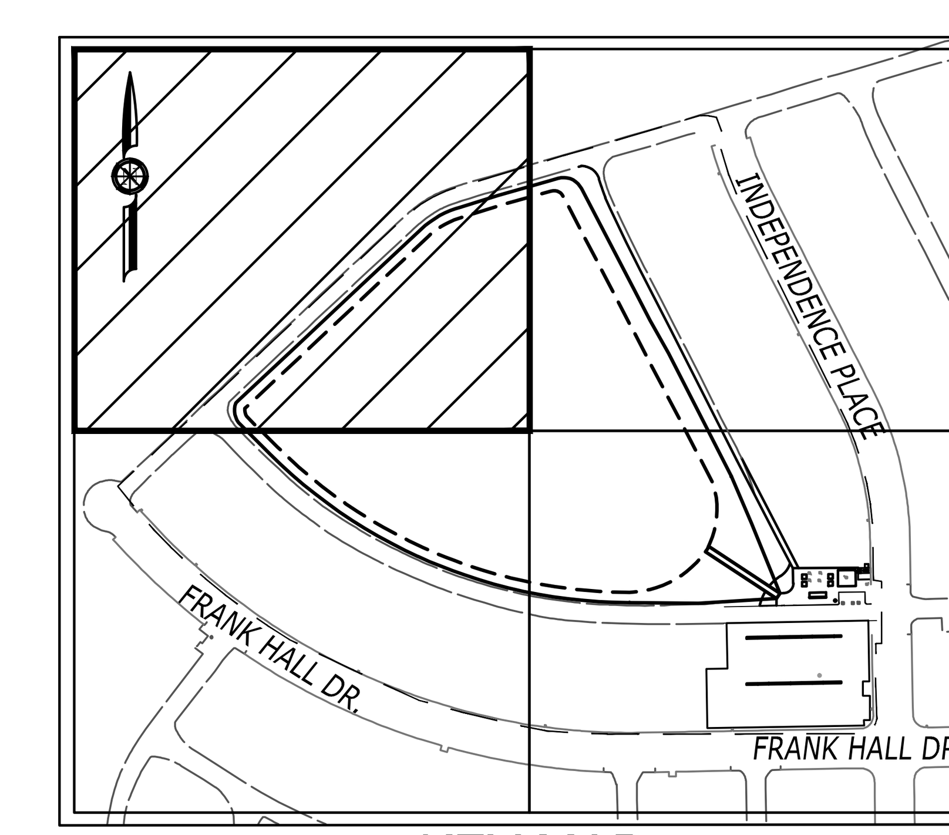
26. INSTALL A1-6 BARRIER CURB PER DTL 7 SHT C-16
27. INSTALL FLAG POLE PER MANUFACTURER INSTRUCTIONS.



KEY MAP
NTS

GRIDLEY CALIFORNIA

NO.	REVISIONS	BY	DATE
1	ADDENDUM #3	JG	11/25/24

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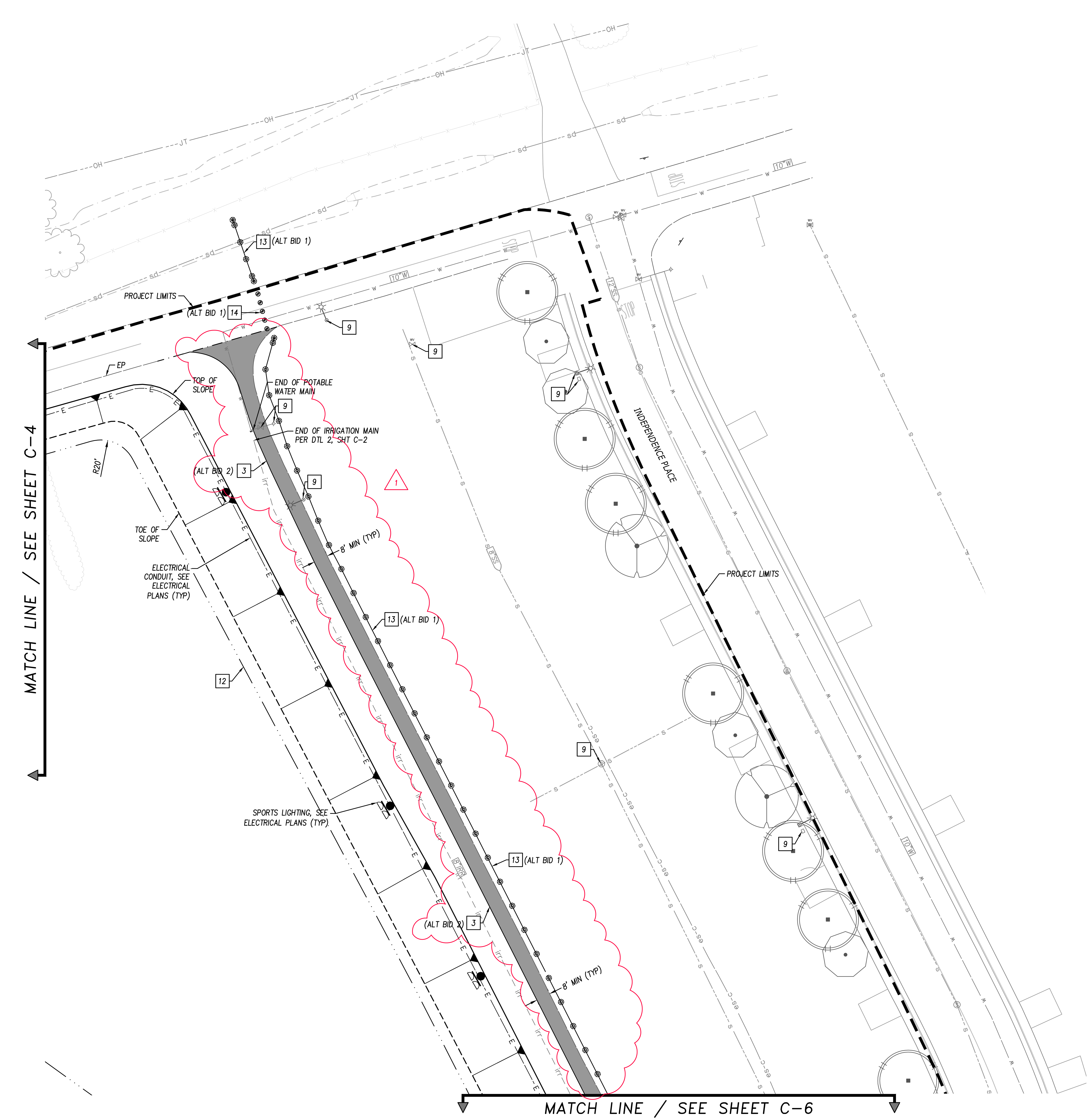
GRIDLEY SPORTS COMPLEX PH 1

SITE PLAN II

CITY OF GRIDLEY CALIFORNIA

C-4 06 OF 53



LEGEND:

- PROJECT LIMITS
- 2-6" RIBBON DRAINS
- SAWCUT
- EDGE OF PAVEMENT
- POST & CABLE FENCE (ALT BID 1)
- ANCHOR POST (ALT BID 1)
- PERMANENT BOLLARD (ALT BID 1)
- COLLAPSIBLE BOLLARD (ALT BID 1)
- PAVED PATH PER DTL 2 SHT C-17 (ALT BID 2)
- PEDESTRIAN CONCRETE PER DTL 3 SHT C-17
- VEHICULAR CONCRETE PER DTL 4 SHT C-17
- DRIVE AISLE PER DTL 5 SHT C-17
- PARKING LOT PER DTL 6 SHT C-17
- AB PAD PER DTL 9 SHT C-16
- PLANTER AREA, SEE LANDSCAPE ARCHITECT PLANS

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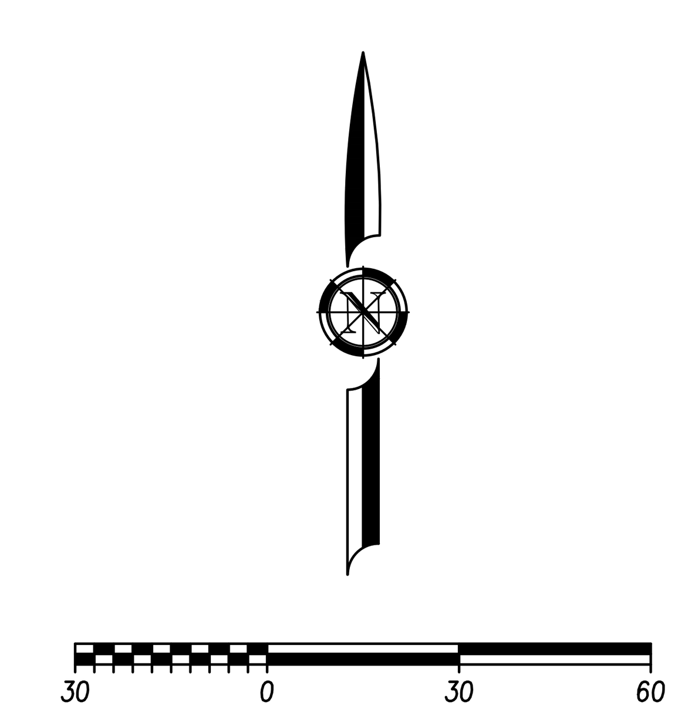
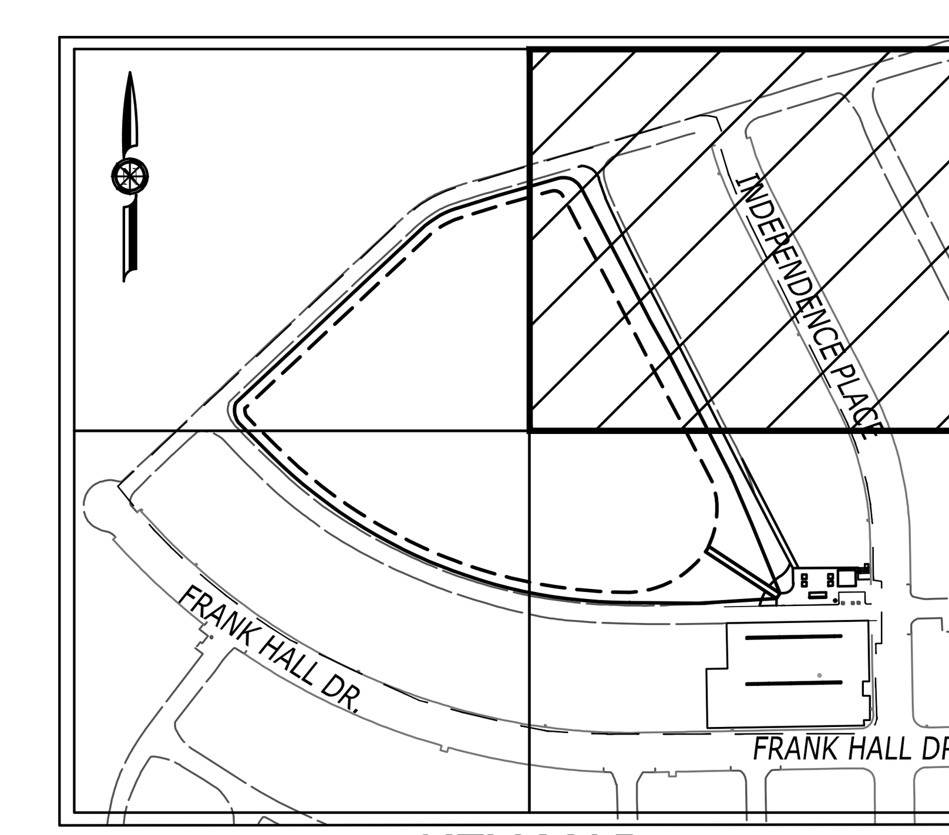
27. INSTALL FLAG POLE PER MANUFACTURER INSTRUCTIONS.





KEY MAP
NTS

GRIDLEY CALIFORNIA

NO.	REVISIONS	BY	DATE
1	ADDENDUM #3	JG	11/25/24

SUBCONSULTANT

REGISTERED PROFESSIONAL ENGINEER DAVID P. HARDEN NO. C84216 CIVIL STATE OF CALIFORNIA

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CHECKED BY : D. HARDEN
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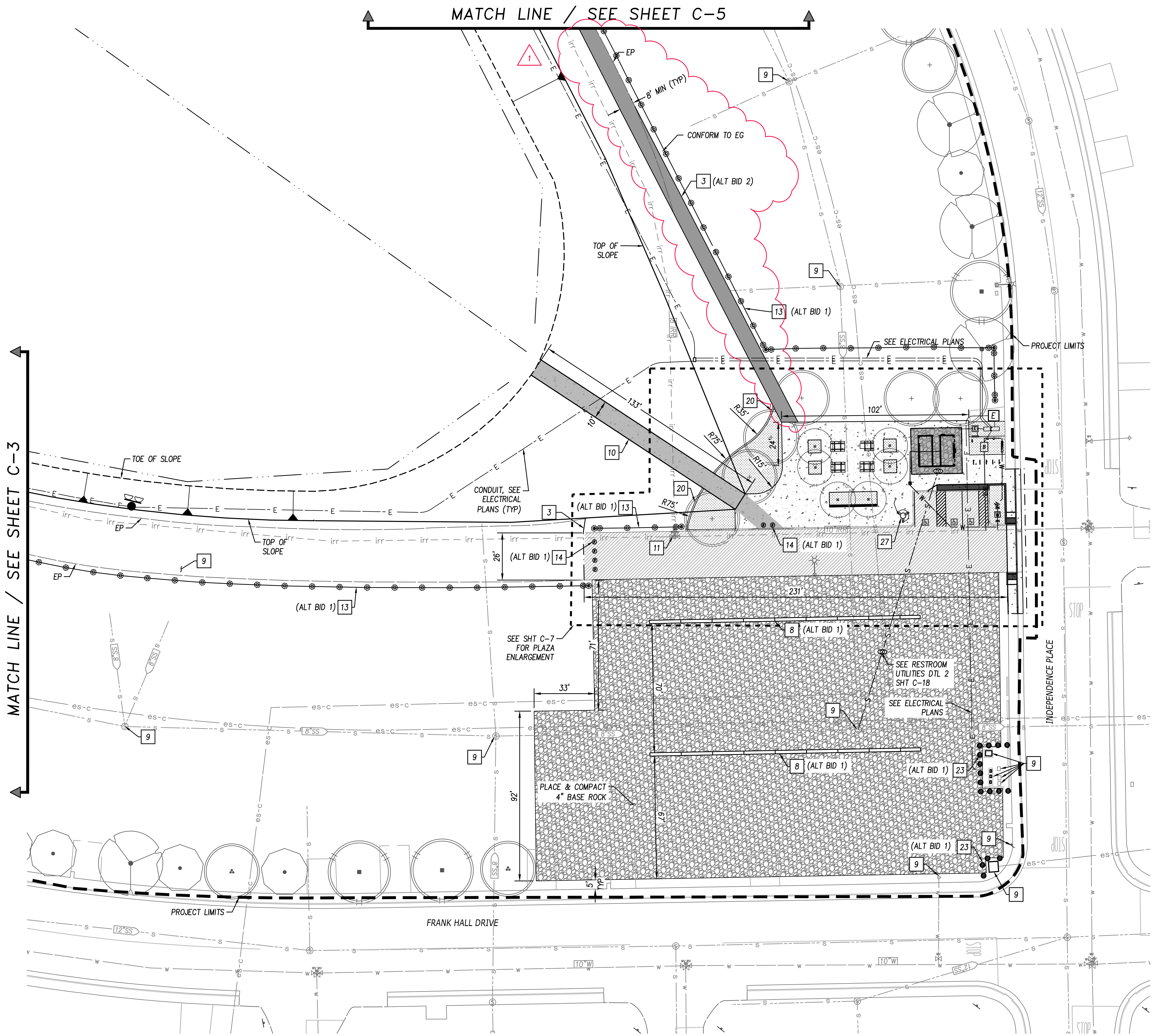
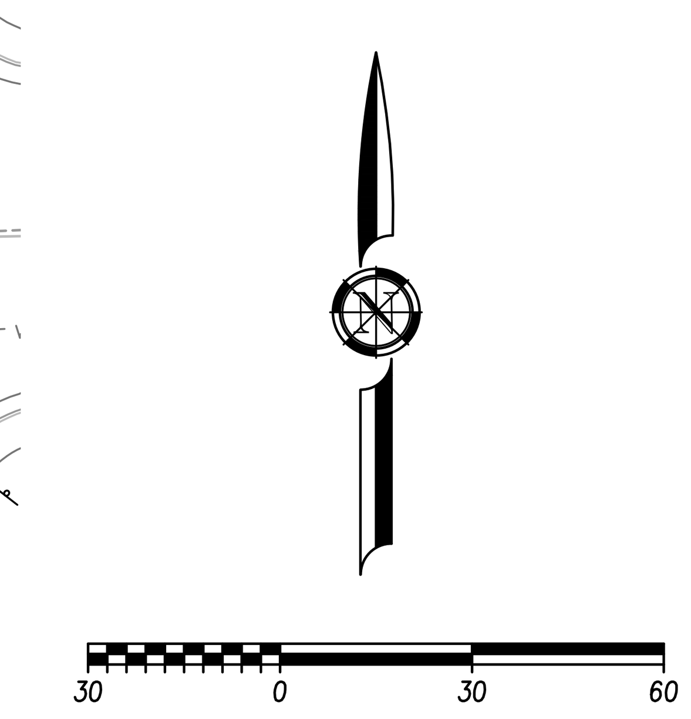
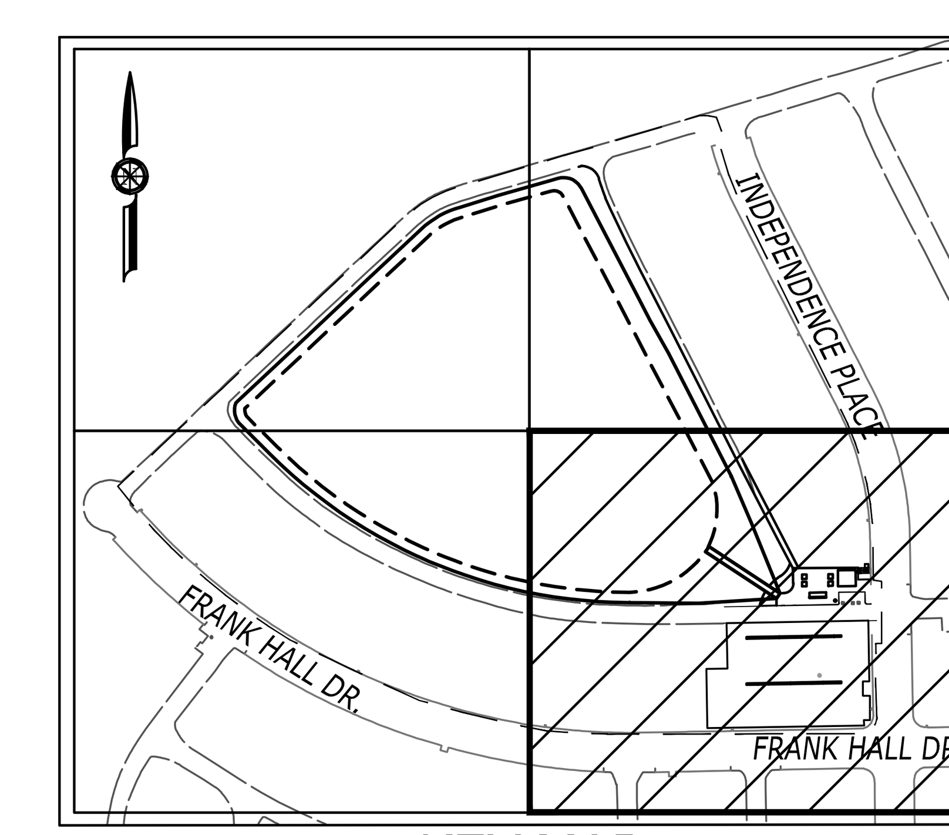
PROJ NO. : 16607-402

GRIDLEY SPORTS COMPLEX PH 1
SITE PLAN III
CITY OF GRIDLEY CALIFORNIA

C-5
07 OF 53







KEY MAP

NTS

LEGEND:

- PROJECT LIMITS
- 2-6" RIBBON DRAINS
- SAWCUT
- EDGE OF PAVEMENT
- POST & CABLE FENCE (ALT BID 1)
- ANCHOR POST (ALT BID 1)
- PERMANENT BOLLARD (ALT BID 1)
- COLLAPSIBLE BOLLARD (ALT BID 1)
- PAVED PATH PER DTL 2 SHT C-17 (ALT BID 2) (APPROX 5,992 SQ FT)
- PEDESTRIAN CONCRETE PER DTL 3 SHT C-17 (APPROX 4,960 SQ FT)
- VEHICULAR CONCRETE PER DTL 4 SHT C-17 (APPROX 1,560 SQ FT)
- DRIVE AISLE PER DTL 5 SHT C-17 (APPROX 6,670 SQ FT)
- PARKING LOT PER DTL 6 SHT C-17 (APPROX 38,400 SQ FT)
- AB PAD PER DTL 9 SHT C-16 (APPROX 692 SQ FT)
- PLANTER AREA, SEE LANDSCAPE ARCHITECT PLANS

CONSTRUCTION NOTES:

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7. CONSTRUCT CURB RAMP CASE G PER CALTRANS DTL A88A
8. INSTALL RAILROAD WHEELSTOPS PER DTL 8 SHT C-17 (ALT BID 1)
9. PROTECT IN PLACE
10. CONSTRUCT 10' WIDE ACCESSIBLE PATH
11. ADJUST TO GRADE
12. INSTALL RIBBON DRAINS PER DTL 1 AND 2 ON SHT C-16
13. INSTALL POST AND CABLE FENCING PER DTL 7 SHT C-17 (ALT BID 1)
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19. INSTALL CURB CUT, SEE DTL 3 SHT C-16
20. INSTALL MOWBAND PER DTL 1 ON SHT C-17
21. INSTALL TYPE A2 CURB AND GUTTER PER DTL 7 SHT C-16
22. BIKE RACK, BY OTHERS
23. INSTALL BOLLARDS PER DTL 8 SHT C-16 (ALT BID 1)
24. CONSTRUCT ROLLED CURB TRANSITION FOR VEHICLE ACCESS PER DTL 9 SHT C-17
25. CURB TO BE PAINTED GREEN FOR LOADING ZONE
26. INSTALL A1-6 BARRIER CURB PER DTL 7 SHT C-16
27. INSTALL FLAG POLE PER MANUFACTURER INSTRUCTIONS.

GRIDLEY CALIFORNIA

NO.	REVISIONS	BY	DATE
1	ADDENDUM #3	JG	11/25/24

SUBCONSULTANT

BENEN TRUSTED ENGINEERING ADVISORS

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DRAWN BY : J. GINNEVER
CHECKED BY : D. HARDEN
SCALE : 1"=30'
DATE : 10/01/2024
PROJ NO. :16607-402

GRIDLEY SPORTS COMPLEX PH 1

SITE PLAN IV

CITY OF GRIDLEY CALIFORNIA

C-6

LEGEND:

- PROJECT LIMITS
- 2-6" RIBBON DRAINS
- SAWCUT
- EDGE OF PAVEMENT
- POST & CABLE FENCE (ALT BID 1)
- ANCHOR POST (ALT BID 1)
- PERMANENT BOLLARD (ALT BID 1)
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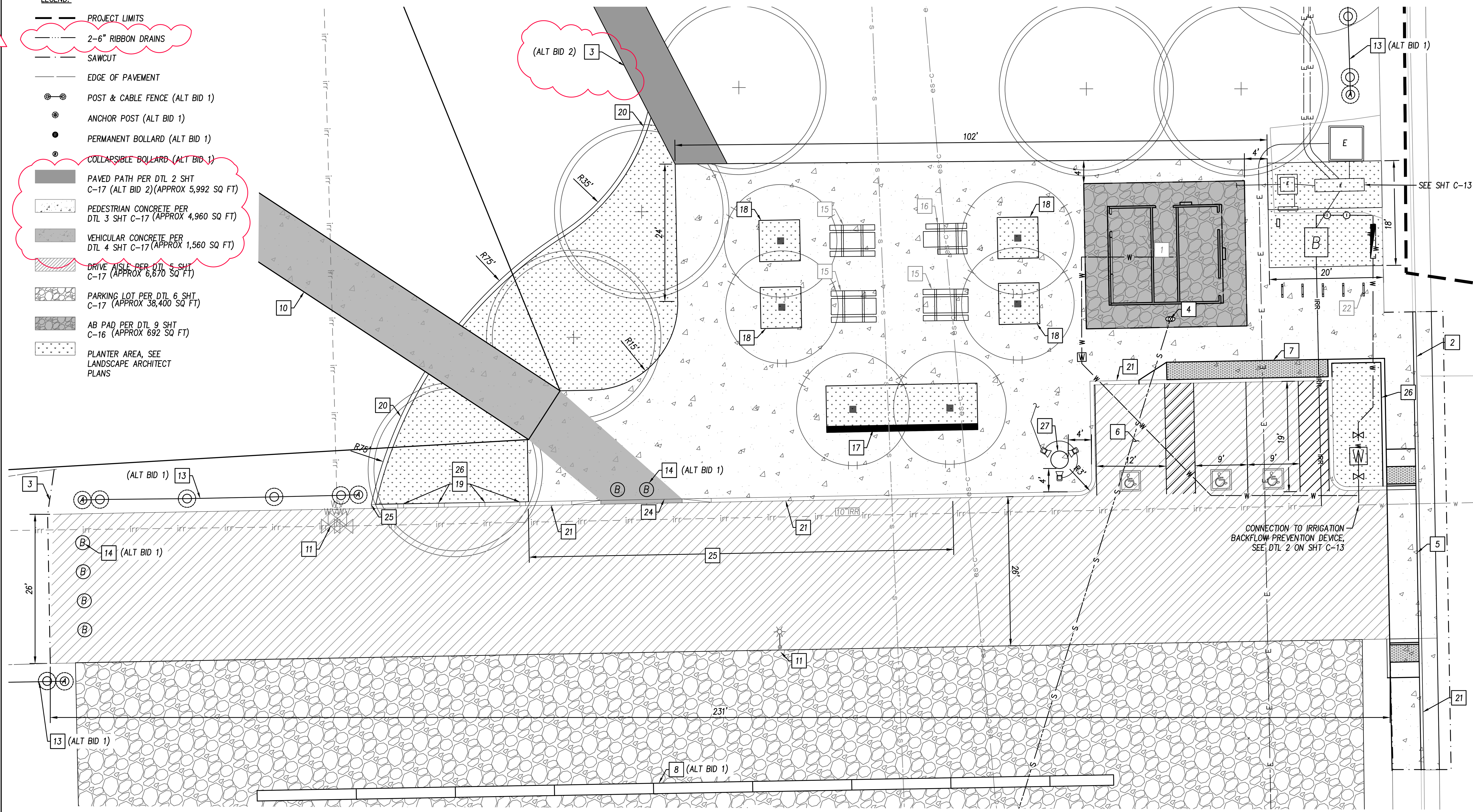

1 PLAZA ENLARGEMENT DETAIL
SCALE: 1"=10'

CONSTRUCTION NOTES:

1. RESTROOM AND CONCESSION STAND, BY OTHERS
2. INSTALL TYPE A4 CURB GUTTER AND SIDEWALK PER DTL 5 AND 7 SHT C-16
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11. ADJUST TO GRADE
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26. INSTALL A1-6 BARRIER CURB PER DTL 7 SHT C-16
27. INSTALL FLAG POLE PER MANUFACTURER INSTRUCTIONS.

SCALE IN FEET: 10 0 10 20

GRIDLEY CALIFORNIA

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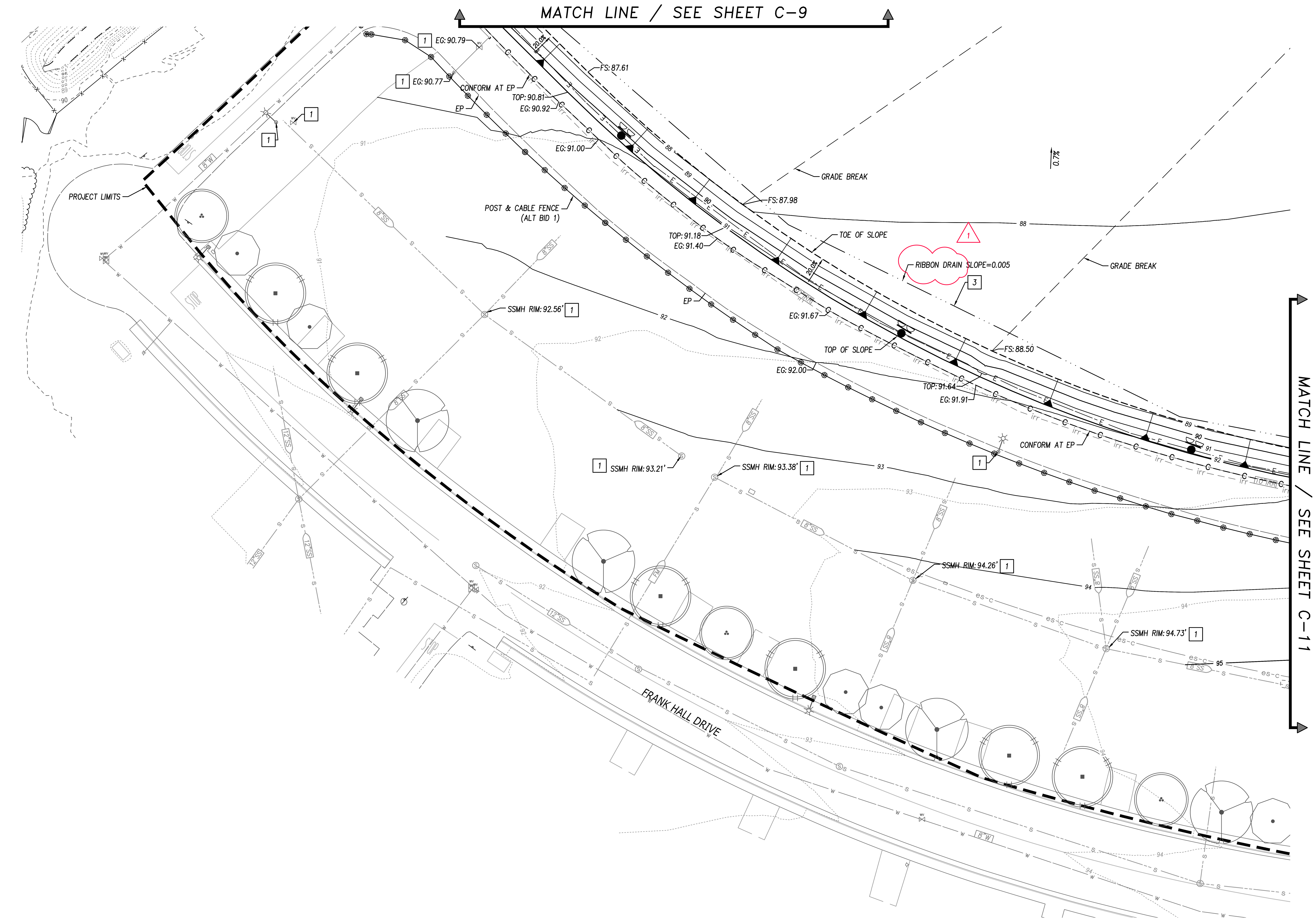
GRIDLEY SPORTS COMPLEX PH 1
PLAZA ENLARGEMENT
CITY OF GRIDLEY CALIFORNIA

C-7 09 OF 53



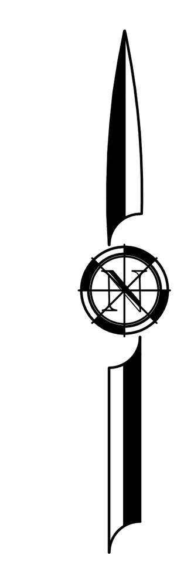
GRADING AND DRAINAGE NOTES:

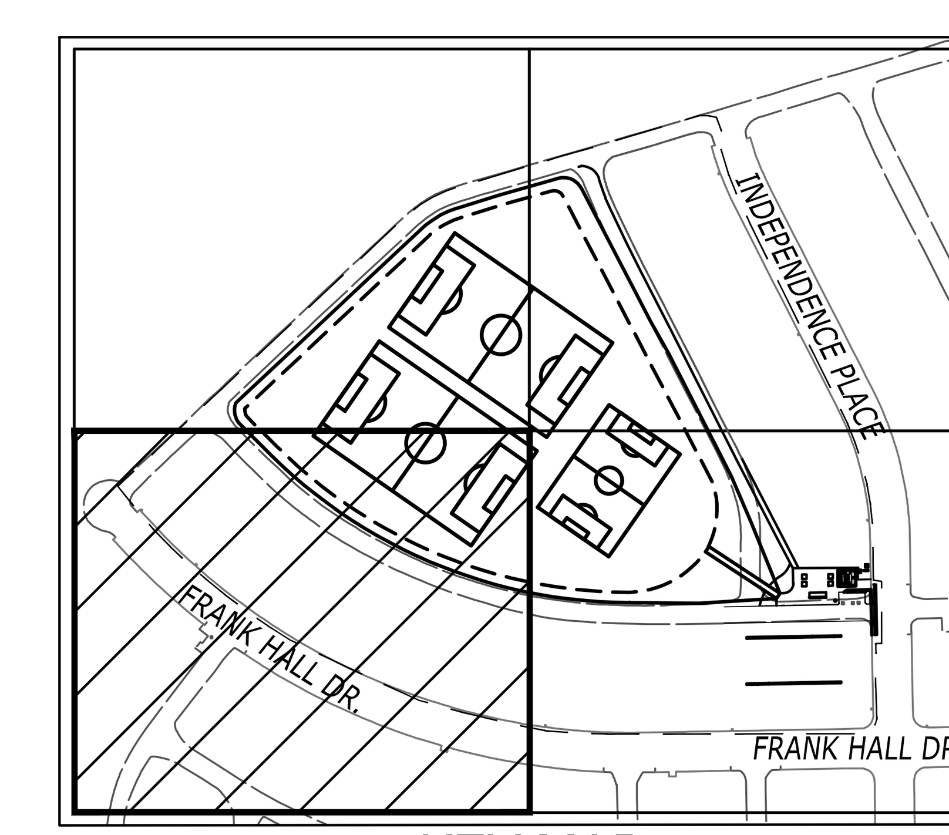
1. PROTECT IN PLACE
2. ADJUST TO GRADE
3. INSTALL RIBBON DRAINS PER DTL 1 AND 2 ON SHT C-16
4. CONNECT RIBBON DRAINS TO PROPOSED 48" X 48" DI PER DTL 1 ON SHT C-16

NOTES:
1. ENTIRE SITE SHALL BE GRADED TO DRAIN.
2. MAXIMUM SLOPES SHALL NOT EXCEED 20%

LEGEND:

— — —	PROJECT LIMITS
—— · · ——	2-6" RIBBON DRAIN
— — —	GRADEBREAK
—— F ——	CONFORM TO EG (FILL)
—— C ——	CONFORM TO EG (CUT)
— · — · —	SAWCUT
0.7%	SLOPES ARE APPROXIMATE AND ARE FOR REFERENCE ONLY (POINT ELEVATIONS GOVERN)





KEY MAP

NTS

GRIDLEY CALIFORNIA

NO.	REVISIONS	BY	DATE
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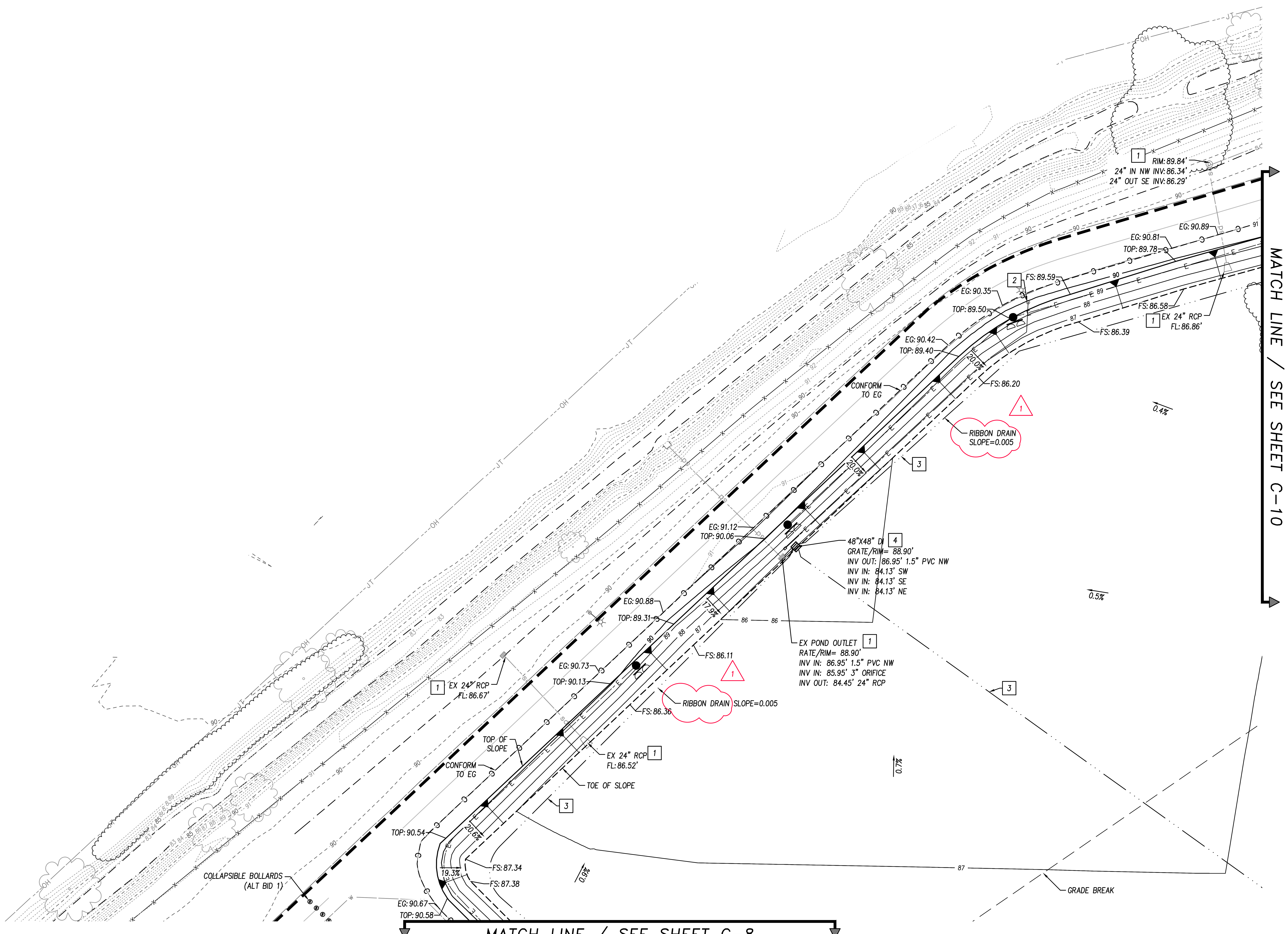
GRIDLEY SPORTS COMPLEX PH 1

GRADING AND DRAINAGE I

CITY OF GRIDLEY CALIFORNIA

C-8

10 OF 53



GRADING AND DRAINAGE NOTES:

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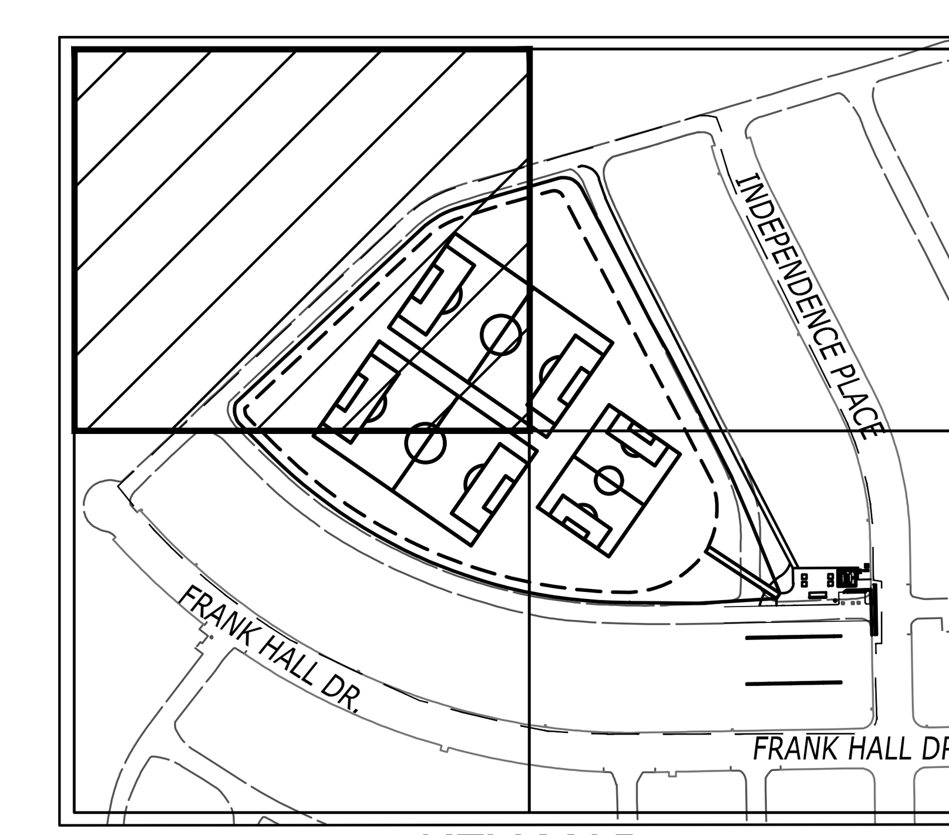
— · — · —	SAWCUT
0.7%	SLOPES ARE APPROXIMATE AND ARE FOR REFERENCE ONLY (POINT ELEVATIONS GOVERN)

30 0 30 60
SCALE IN FEET



KEY MAP
NTS

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SCALE : 1"=30'
DATE : 10/01/2024
PROJ NO. : 16607-402

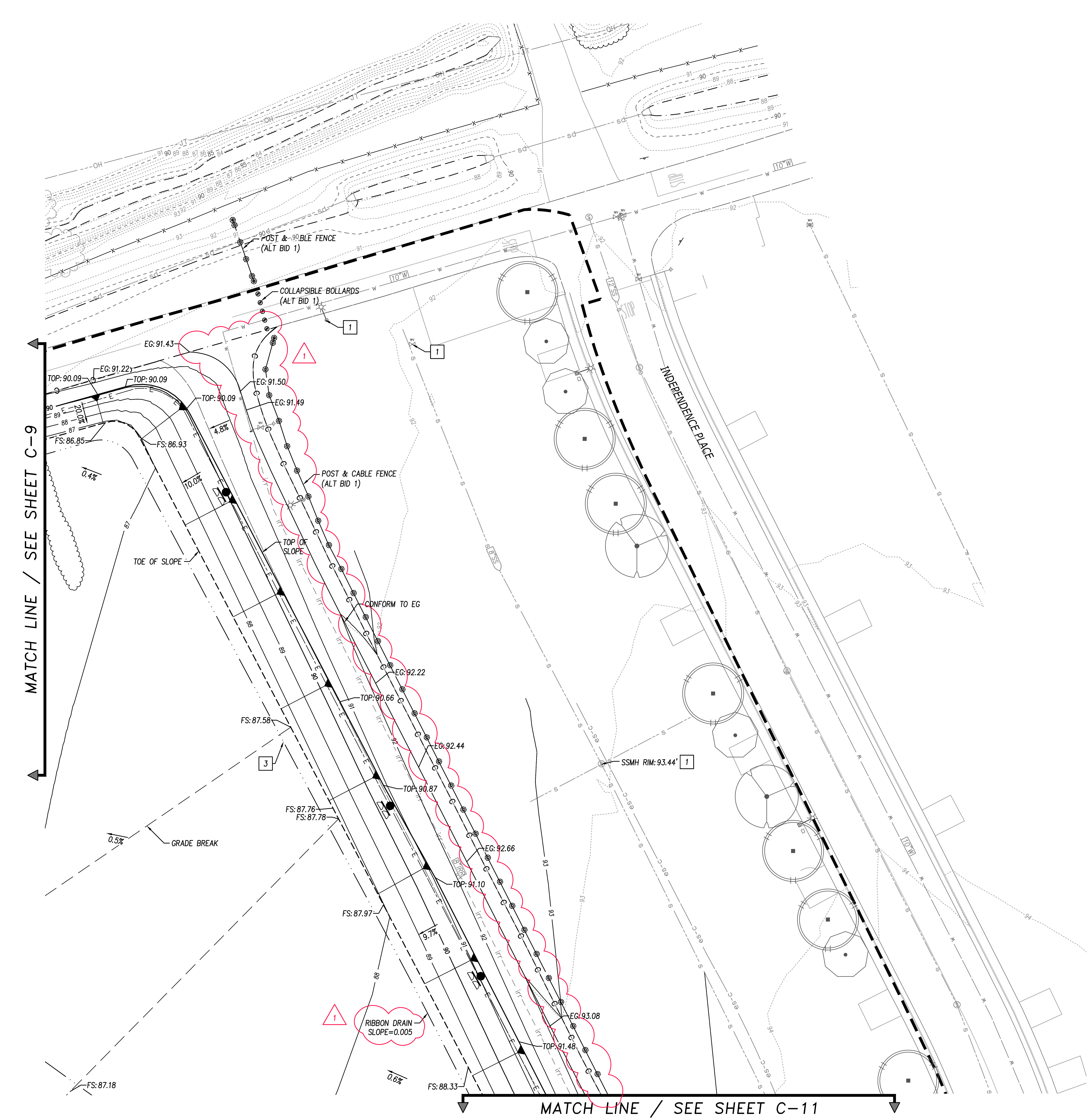
GRIDLEY SPORTS COMPLEX PH 1
GRADING AND DRAINAGE II
CITY OF GRIDLEY CALIFORNIA

C-9
11 OF 53

GRADING AND DRAINAGE NOTES:

1. PROTECT IN PLACE
2. ADJUST TO GRADE
3. INSTALL RIBBON DRAINS PER DTL 1 AND 2 ON SHT C–16
4. CONNECT RIBBON DRAINS TO PROPOSED 48" X 48" DI PER DTL 1 ON SHT C–16

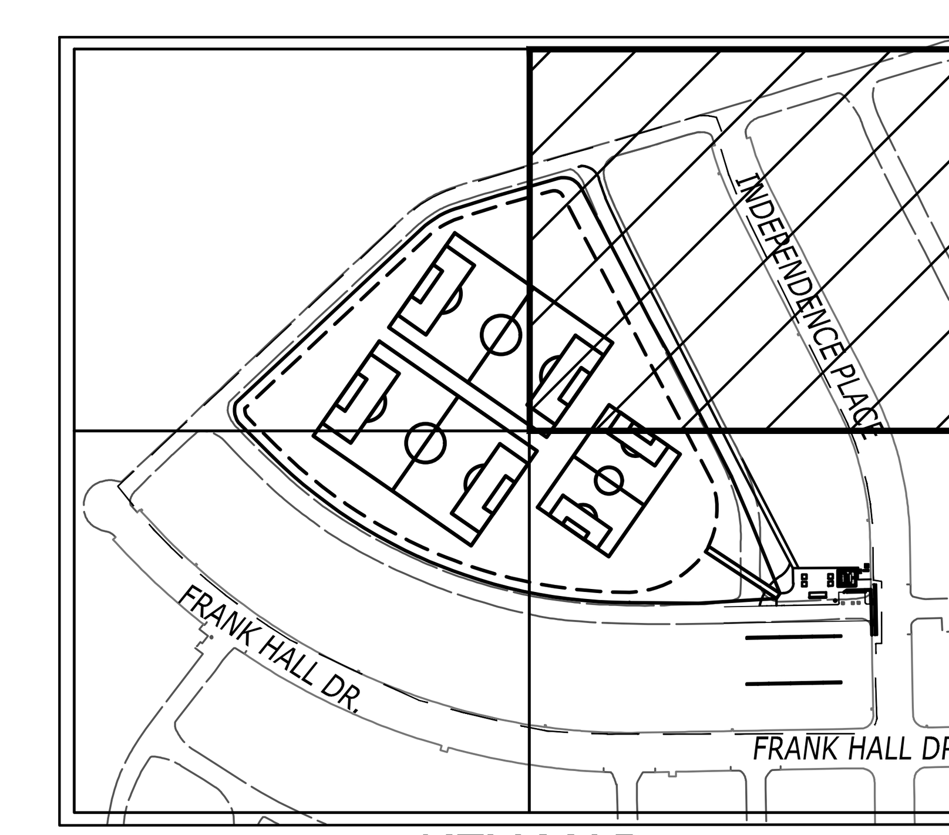
NOTES:
1. ENTIRE SITE SHALL BE GRADED TO DRAIN.
2. MAXIMUM SLOPES SHALL NOT EXCEED 20%



LEGEND:

Symbol	Description
— — —	PROJECT LIMITS
—— · · · ——	2–6" RIBBON DRAIN
— — — —	GRADEBREAK
—— F ——	CONFORM TO EG (FILL)
—— C ——	CONFORM TO EG (CUT)
—— · ——	SAWCUT
0.7%	SLOPES ARE APPROXIMATE AND ARE FOR REFERENCE ONLY (POINT ELEVATIONS GOVERN)

30 0 30 60
SCALE IN FEET



KEY MAP
NTS

GRIDLEY CALIFORNIA

NO.	REVISIONS	BY	DATE
1	ADDENDUM #3	JG	11/25/24

SUBCONSULTANT

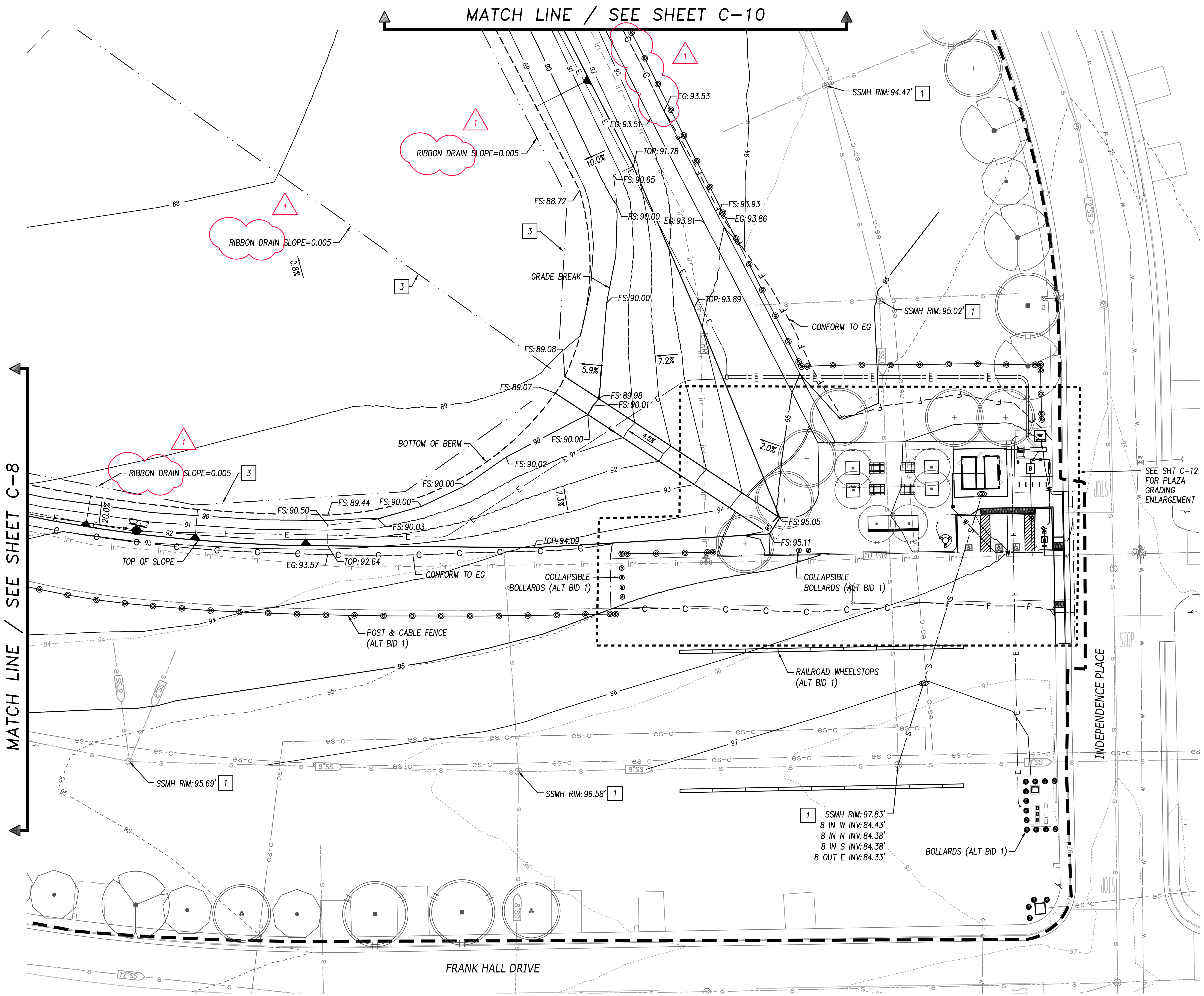
BEN|EN TRUSTED ENGINEERING ADVISORS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DESIGN BY : A. HOLLADAY
DRAWN BY : J. GINNEVER
CHECKED BY : D. HARDEN
SCALE : 1"=30'
DATE : 10/01/2024
PROJ NO. : 16607–402

GRIDLEY SPORTS COMPLEX PH 1
GRADING AND DRAINAGE III
CITY OF GRIDLEY CALIFORNIA

C–10 12 OF 53



GRADING AND DRAINAGE NOTES:

1. PROTECT IN PLACE
2. ADJUST TO GRADE
3. INSTALL RIBBON DRAINS PER DTL 1 AND 2 ON SHT C-16
4. CONNECT RIBBON DRAINS TO PROPOSED 48" X 48" DI PER DTL 1 ON SHT C-16

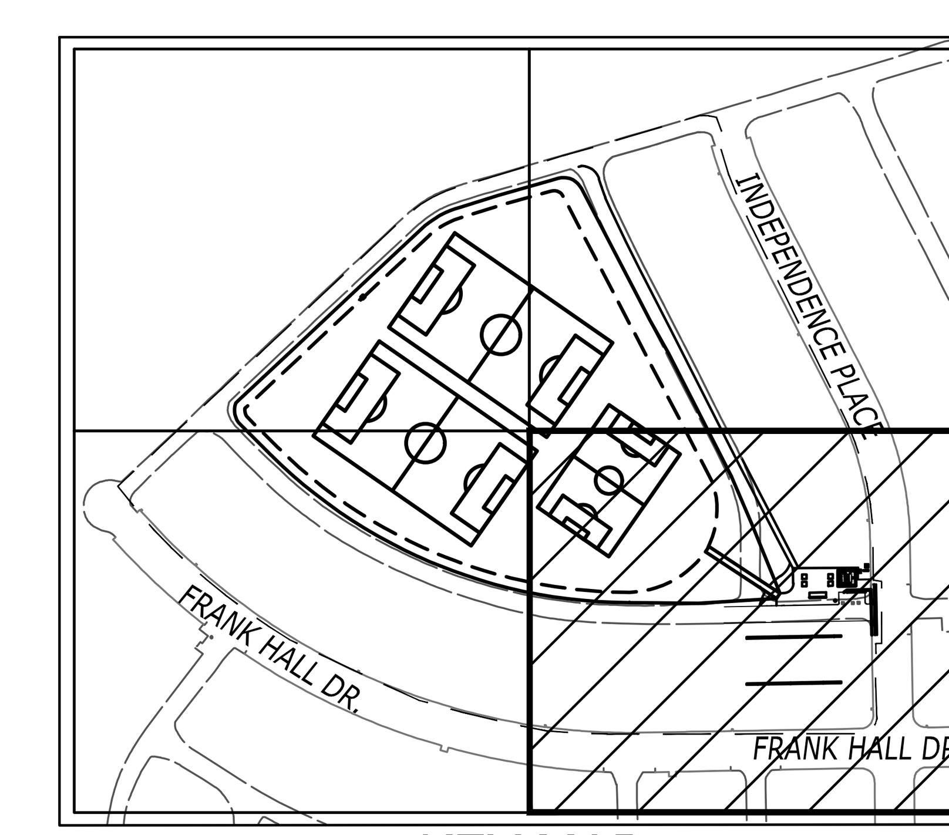
NOTES:

1. ENTIRE SITE SHALL BE GRADED TO DRAIN.
2. MAXIMUM SLOPES SHALL NOT EXCEED 20%

LEGEND:

- PROJECT LIMITS
- 2-6" RIBBON DRAIN
- GRADEBREAK
- CONFORM TO EG (FILL)
- CONFORM TO EG (CUT)
- SAWCUT
- 0.7% — SLOPES ARE APPROXIMATE AND ARE FOR REFERENCE ONLY (POINT ELEVATIONS GOVERN)

SCALE IN FEET (30 0 30 60)



KEY MAP
NTS

GRIDLEY CALIFORNIA

NO.	REVISIONS	BY	DATE
3	ADDENDUM #3	JG	11/25/24

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VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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DESIGN BY : A. HOLLADAY
DRAWN BY : J. GINNEVER
CHECKED BY : D. HARDEN
SCALE : 1"=30'
DATE : 10/01/2024
PROJ NO. : 16607-402

GRIDLEY SPORTS COMPLEX PH 1
GRADING AND DRAINAGE IV
CITY OF GRIDLEY CALIFORNIA

C-11

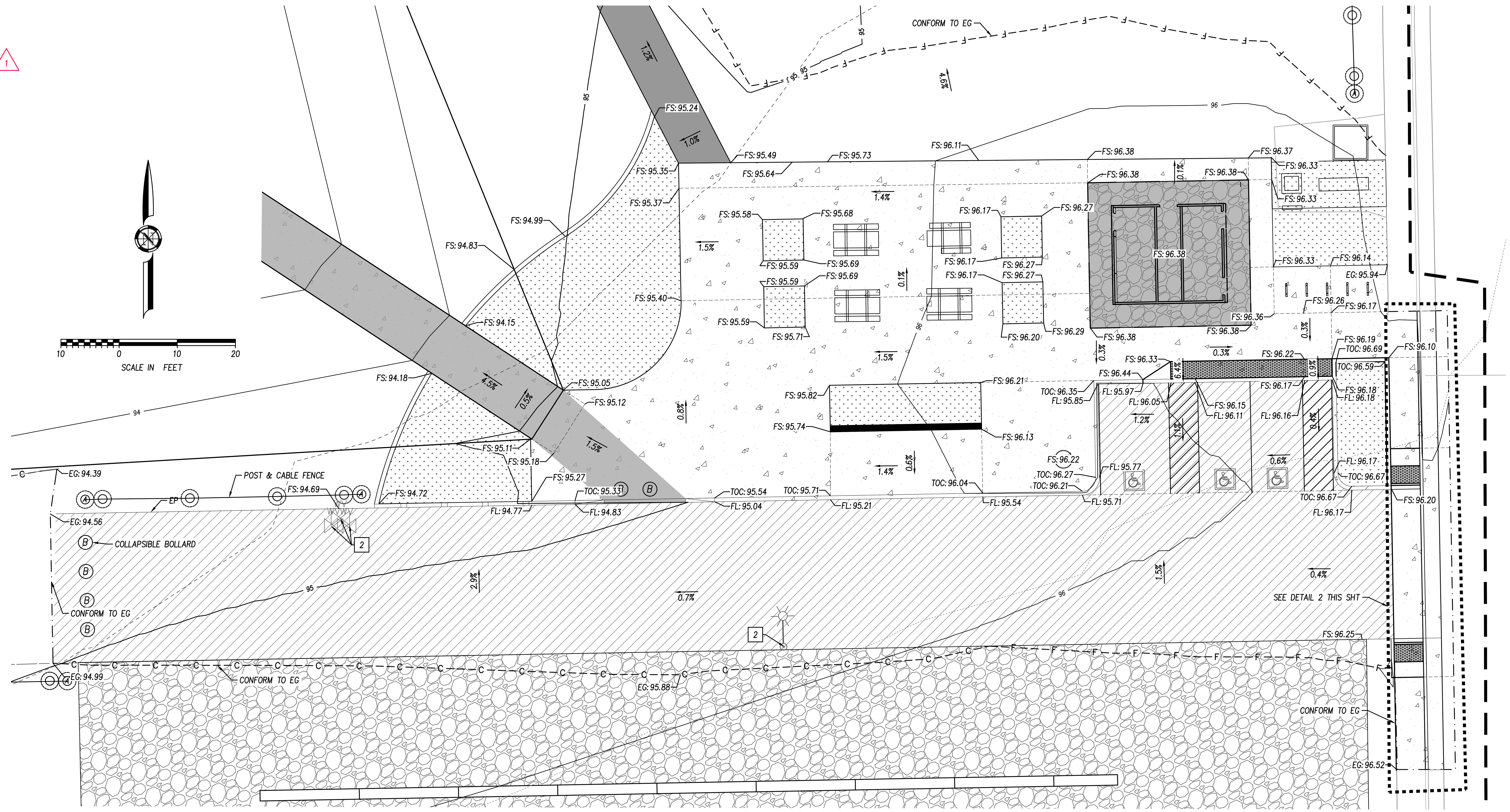
GRADING AND DRAINAGE NOTES:

1. PROTECT IN PLACE
2. ~~ADJUST TO GRADE~~
3. INSTALL RIBBON DRAINS PER DTL 1 AND 2 ON SHT C-16
4. CONNECT RIBBON DRAINS TO PROPOSED 48" X 48" DI PER DTL 1 ON SHT C-16

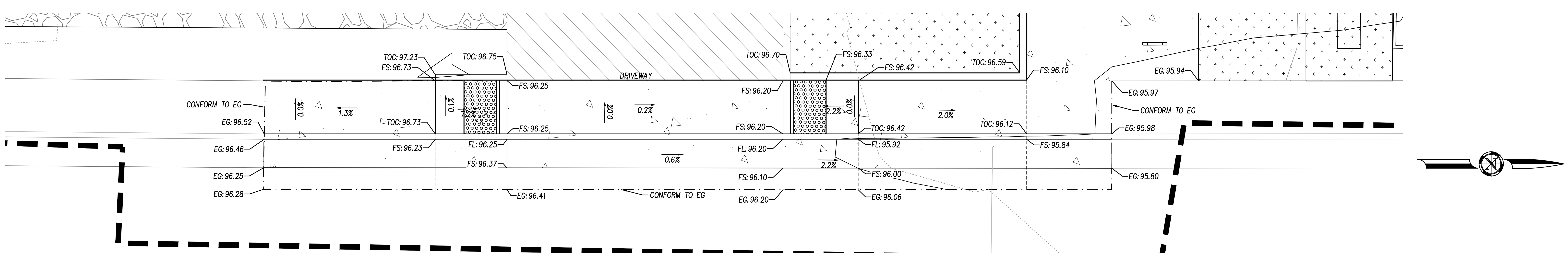
LEGEND:

- PROJECT LIMITS
- 2-6" RIBBON DRAINS
- GRADEBREAK
- CONFORM TO EG (FILL)
- CONFORM TO EG (CUT)
- SAWCUT
- REPUPOSED IRRIGATION
- PROPOSED IRRIGATION

SCALE IN FEET: 10 0 10 20



1 PLAZA GRADING DETAIL
SCALE: 1"=10'



2 DRIVEWAY DETAIL
SCALE: 1"=5'

SCALE IN FEET: 5 0 5 10

GRIDLEY CALIFORNIA

NO.	REVISIONS	BY	DATE
1	ADDENDUM #3	JG	11/25/24

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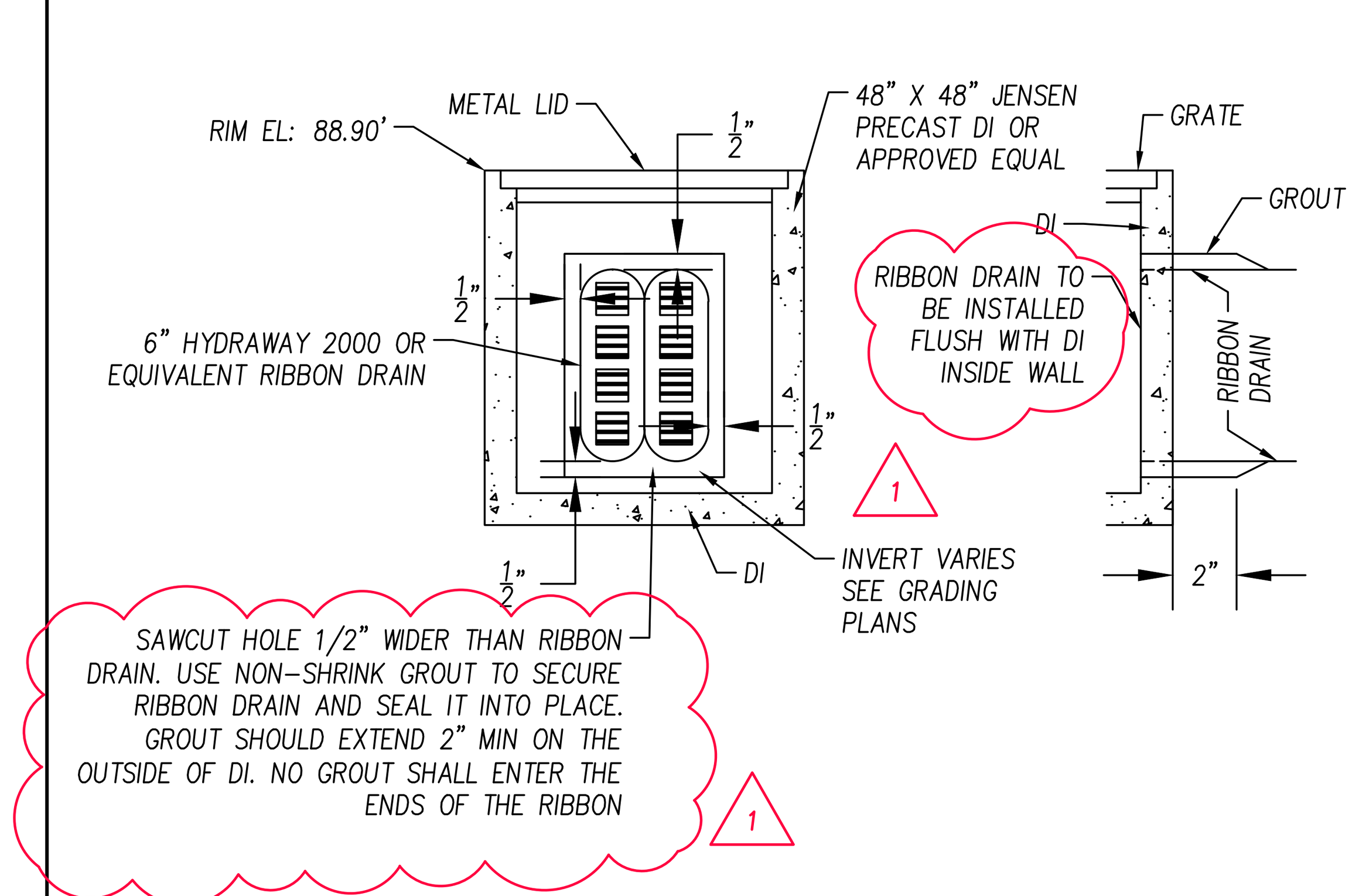
VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

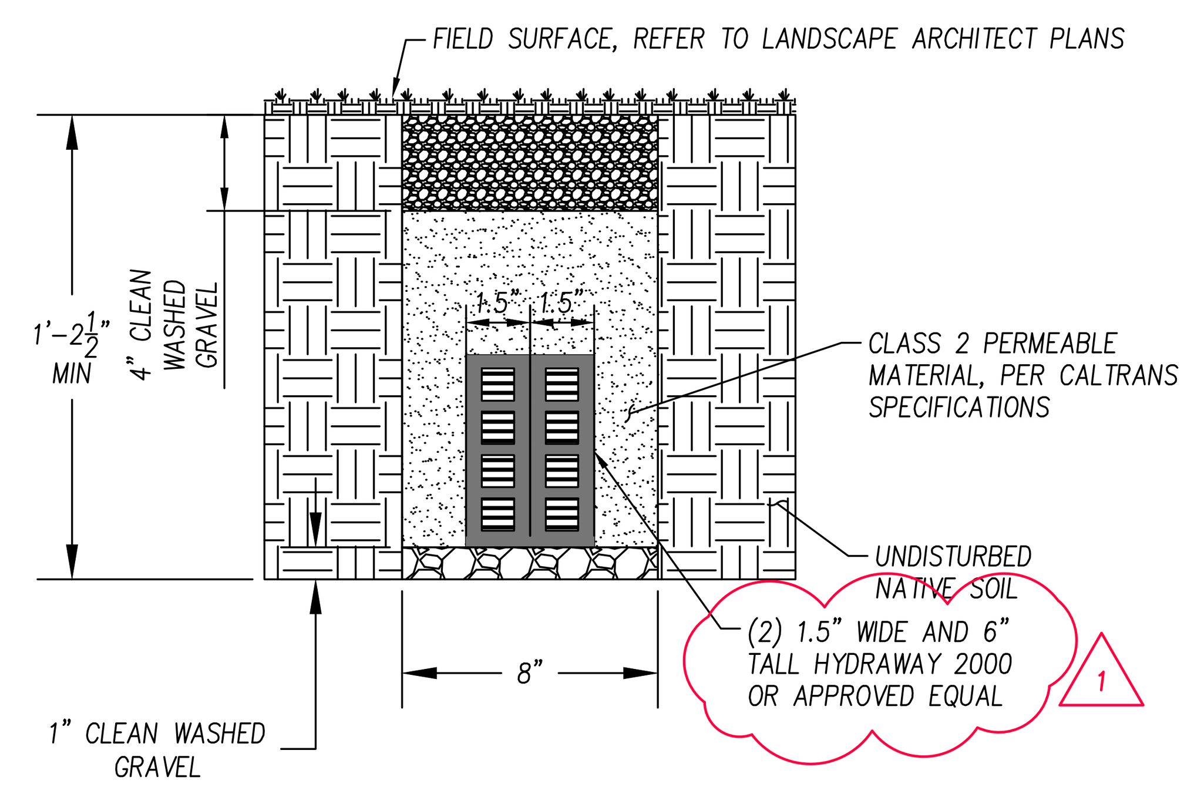
DESIGN BY : A. HOLLADAY
DRAWN BY : J. GINNEVER
CHECKED BY : D. HARDEN
SCALE : AS SHOWN
DATE : 10/01/2024
PROJ NO. : 16607-402

GRIDLEY SPORTS COMPLEX PH 1
GRADING DETAILS
CITY OF GRIDLEY CALIFORNIA

C-12 14 OF 53



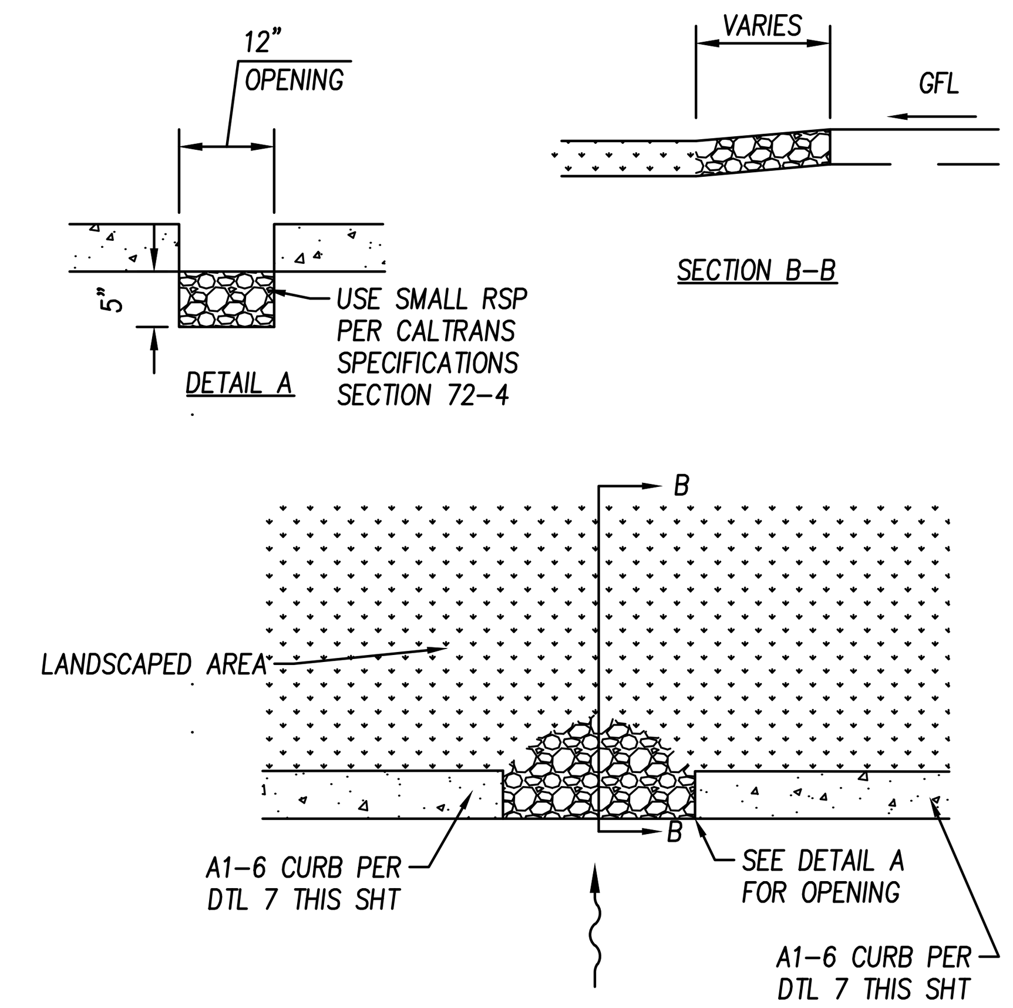
1 RIBBON DRAIN CONNECTION DETAIL
SCALE: NTS



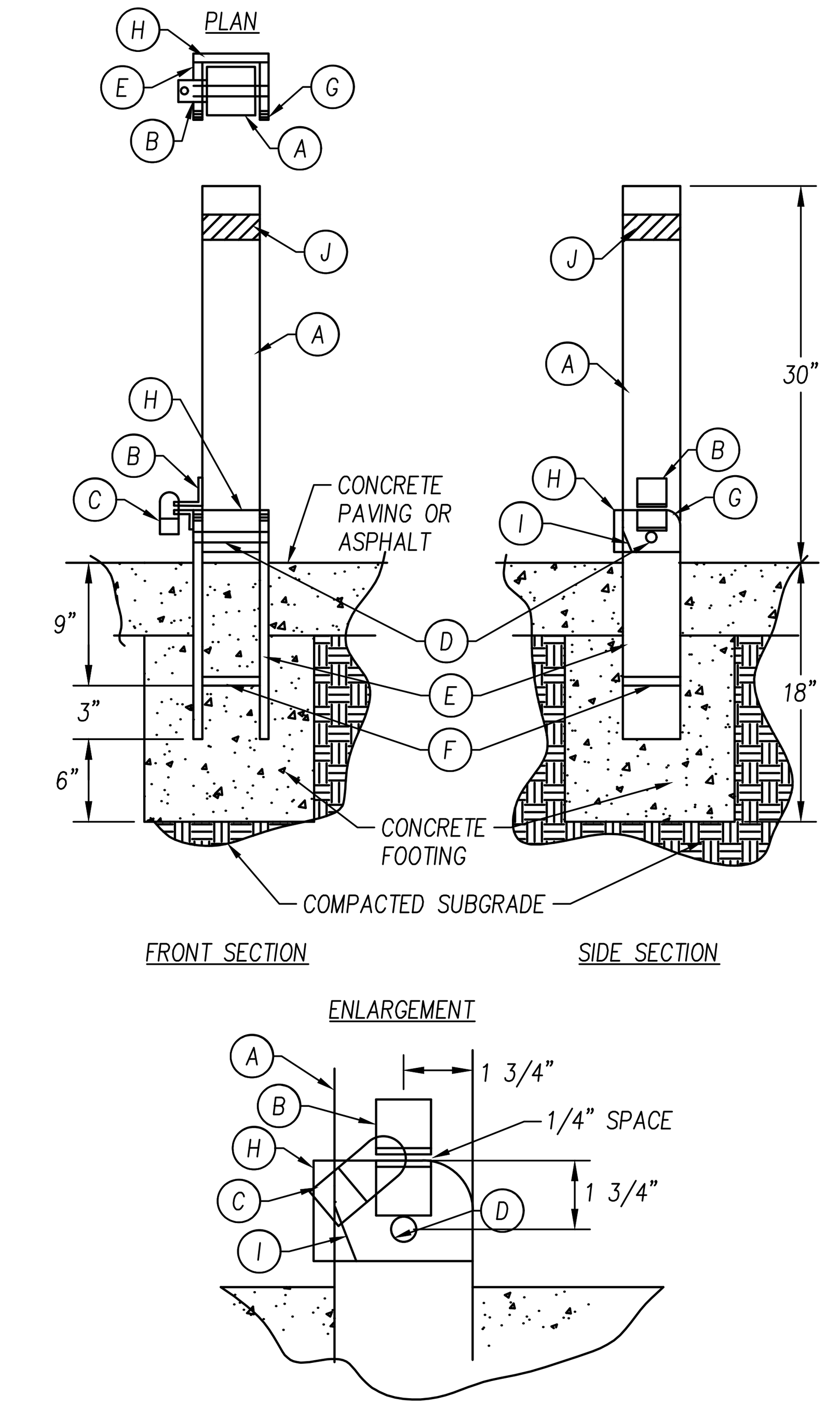
NOTES:

1. DRAINAGE TRENCH SHALL NOT ENCROACH INTO STRUCTURAL PRISM OF ANY LIGHT POLE OR ANY OTHER STRUCTURAL ELEMENT, CONTRACTOR SHALL CONSULT WITH STRUCTURE MANUFACTURER FOR SEPARATION REQUIREMENTS PRIOR TO EXCAVATING TRENCH. DRAIN SHALL MAINTAIN 0.3% SLOPE MINIMUM.
2. CLEAN WASHED GRAVEL SHALL CONSIST OF 3/8" CLEAN WASHED PEA GRAVEL.

2 RIBBON DRAIN TRENCH DETAIL
SCALE: NTS



3 CURB CUT DETAIL
SCALE: NTS



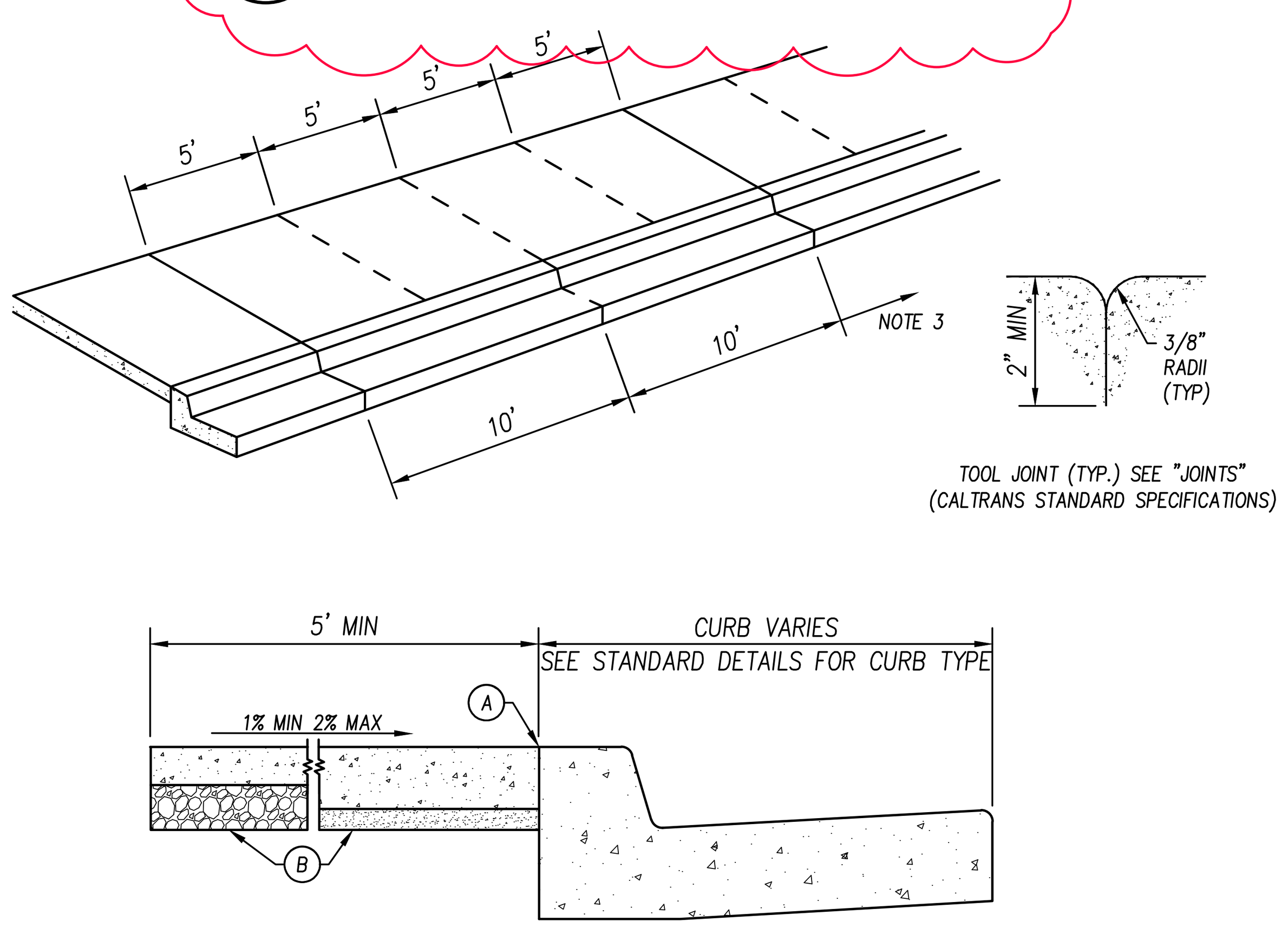
LEGEND

A. 3 1/2" O.D. 1/4" WALL STEEL TUBE WITH CAP WELDED ON TOP, 3/4" HOLES FOR SWIVEL ROD. EASE ALL EDGES OF STEEL TUBE.
B. 1 1/2" X 1 1/2" ANGLE IRON (2) WELDED TO TUBE AND BASE. PLACE 1/2" HOLE DRILLED 1/4" FROM END OF ANGLE IRON. ANGLE IRON ON BASE SIZE AS NECESSARY TO EQUAL LENGTH OF ANGLE IRON ON TUBE.
C. PADLOCK, TO BE PROVIDED BY CITY.
D. 5/8" DIA. STEEL SWIVEL ROD, WELD SWIVEL ROD TO SIDE PLATES.
E. 3/8" x 16" x 4" STEEL BASE PLATE WITH 1 1/2" RADIUS CORNERS. EASE ALL EDGES.
F. 3/8" STEEL BRACE. FILET WELD BOTH SIDES TO BASE PLATES.
G. 1 1/2" RADIUS CORNERS, TYP.
H. 4" X 4" x 3/8" STEEL BACK PLATE WELDED TO BASE PLATE.
I. FISH MOUTH GRIND AT BOTTOM BACK CORNER OF TUBE.
J. PLACE 2" WHITE REFLECTIVE TAPE.

NOTES

1. ALL TUBING SHALL BE BLACK STEEL PIPE.
2. ALL JOINTS SHALL BE WELDED IN ACCORDANCE WITH CA STATE STANDARD SPECIFICATIONS FOR WELDING STRUCTURAL STEEL AND GROUND SMOOTH.
3. ALL PARTS (EXCEPT PADLOCK) SHALL BE PAINTED WITH TWO COATS ZINC CHROMATE PRIMER AND TWO COATS EXTERIOR ENAMEL. COLOR: YELLOW
4. BOLLARD SHALL BE INSTALLED SUCH THAT IT LAYS FLAT WHEN FOLDED.
5. CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 90-2 OF THE CALTRANS STANDARD SPECIFICATIONS.

4 COLLAPSIBLE BOLLARD (ALT BID 1)
SCALE: NTS



LEGEND:

A. 1/8" DEEP SCORE MARK OR COLD JOINT
B. SUBGRADE PROCESSED TO 95% RELATIVE COMPACTION. ALL SIDEWALK HAS OPTION OF 4" CONCRETE ON 4" AGGREGATE BASE, OR 6" CONCRETE ON 2" AGGREGATE BASE OR SAND.

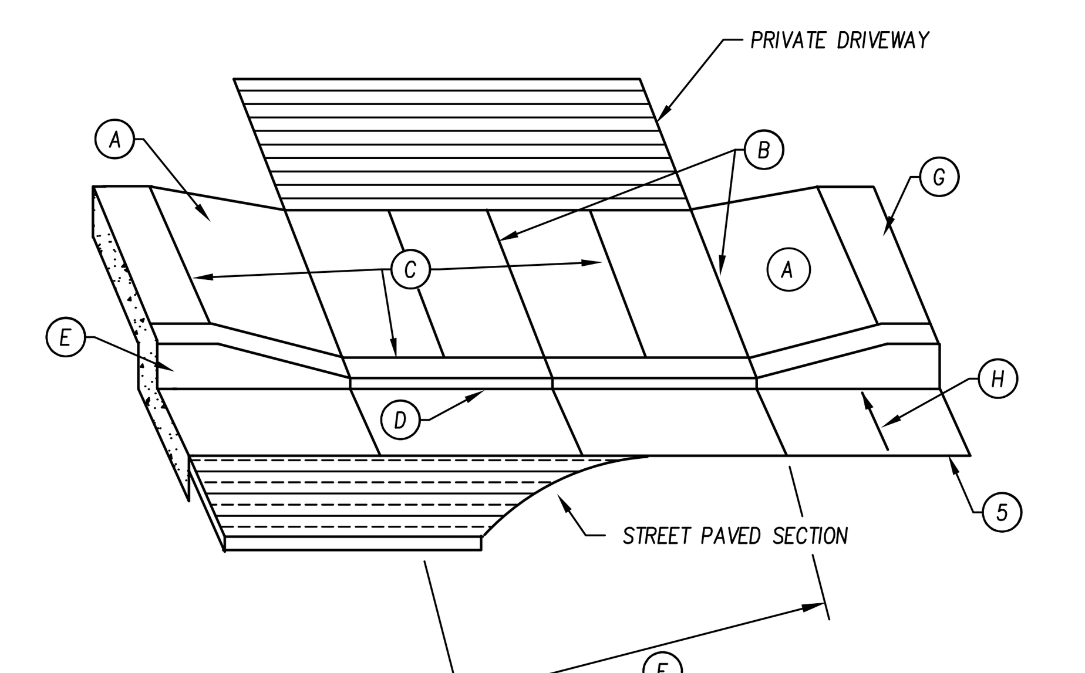
NOTES:

1. DISTANCE BETWEEN SCORE LINES NOT TO EXCEED 5' IN LONGITUDINAL & TRAVERSE DIRECTION IN SIDEWALK.
2. TOOL JOINTS AT 20' INTERNAL FOR SIDEWALK.
3. TOOL JOINTS AT 60' INTERNAL FOR CURB & GUTTER.
4. JOINTS IN SIDEWALK TO BE ADJACENT TO JOINTS IN CURB & GUTTER.
5. CURB & GUTTER TO HAVE 1" SCORE AT 10' INTERVALS.
6. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX, IN FRONT OF A CURB RAMP ACCESS.
7. ADJOINING SIDEWALK, CURB AND GUTTER MAY BE POURED MONOLITHICALLY.

5 CURB AND GUTTER WITH SIDEWALK
SCALE: NTS

LEGEND:

A. SLOPE SHALL NOT EXCEED 7.5% FOR 6" CURB AND 5% FOR 8" CURB. MAX LENGTH SHOULD BE 15'.
B. "TOOL JOINT" SEE DETAIL 5 THIS SHT.
C. SCORE MARKS EVERY 5 FEET FOR SIDEWALK
D. 1 INCH HIGH LIP AT 45 DEGREE BATTER.
E. "A2" CURB AND GUTTER DTL 7 THIS SHT
F. DRIVEWAY WIDTH PER THE APPROVED PLAN. (MIN. 24' AND MAX 40' FOR COMMERCIAL, MIN 12' AND MAX 24' FOR RESIDENTIAL)
G. ADJACENT SIDEWALK.
H. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX.



NOTES:

1. SIDEWALK CROSS GRADE THROUGH THE ENTIRE DRIVEWAY SHALL BE 1% MINIMUM, 2% MAXIMUM.
2. FOR COMMERCIAL DRIVEWAY: SIDEWALK, APRON AND GUTTER PAN SHALL BE 6" THICK WITH NO.4, GRADE 60 REBAR ON 18" CENTER EACH WAY. USE 3" DOBIES (REBAR SPACERS) AT 3' INTERVALS. FOR RESIDENTIAL: WALK, APRON, AND GUTTER PAN SHALL BE 6" THICH NONREINFORCED. FOR COMMERCIAL AND RESIDENTIAL, SIDEWALK, APRON AND GUTTER PAN SHALL BE PLACED MONOLITHICALLY. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN CALTRANS STANDARD SPECIFICATIONS.
3. BASE FOR CONCRETE SHALL BE NATIVE SOIL OR CLASS 2, 3/4 INCH AGGREGATE BASE, EITHER PROCESSED 6 INCHES THICK TO 95% RELATIVE COMPACTION.
4. AC PATCH ADJACENT TO GUTTER LIP SHALL CONFORM TO "ASPHALT CONCRETE" SECTION OF CALTRANS STANDARD SPECIFICATIONS.
5. FROM 8' TO 20' BACK OF SIDEWALK, RAISE PRIVATE PAVING/LANDSCAPING TO A MINIMUM HEIGHT OF THE HIGHEST TOP OF CURB ELEVATION AT THE DRIVEWAY.

6 DRIVEWAY APRON WITH ATTACHED SIDEWALK
SCALE: NTS

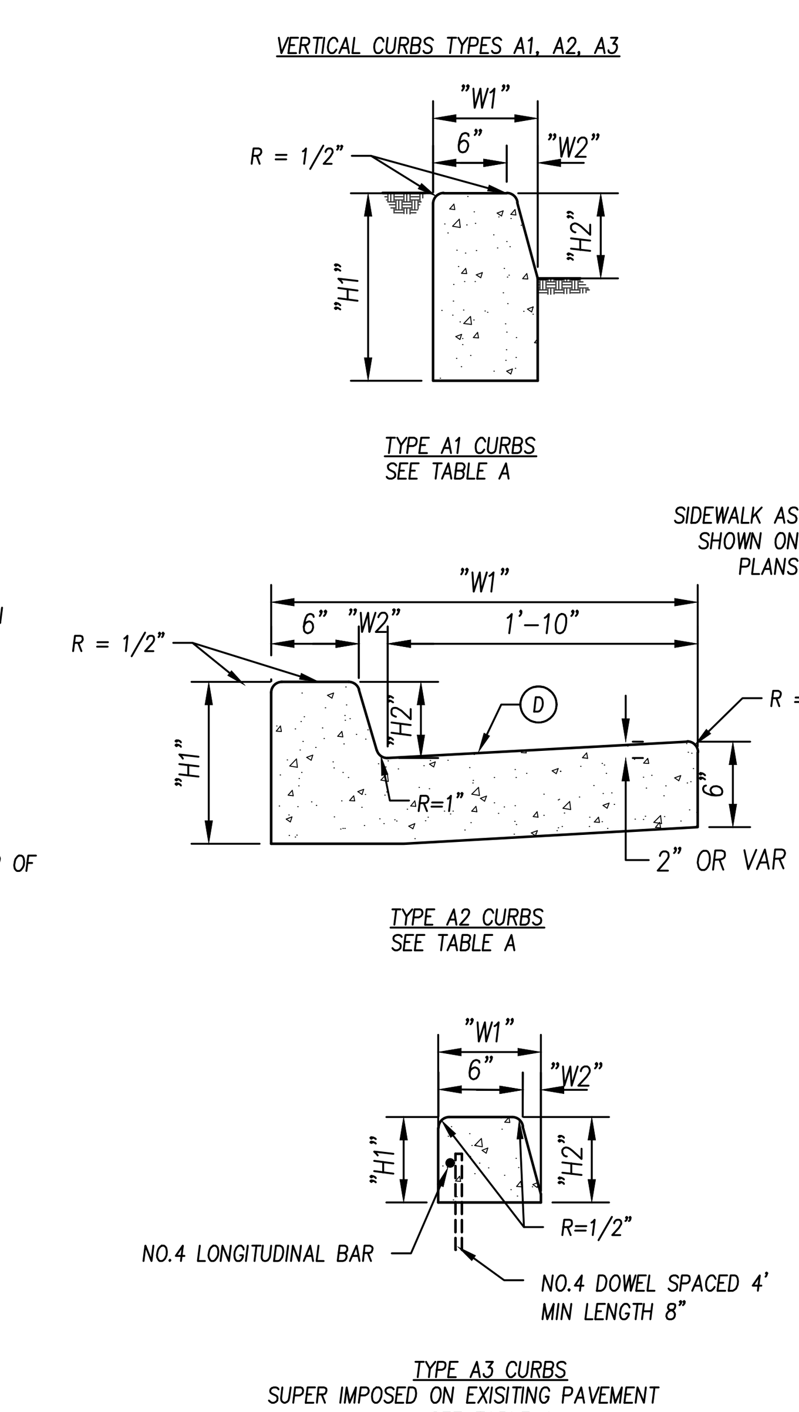
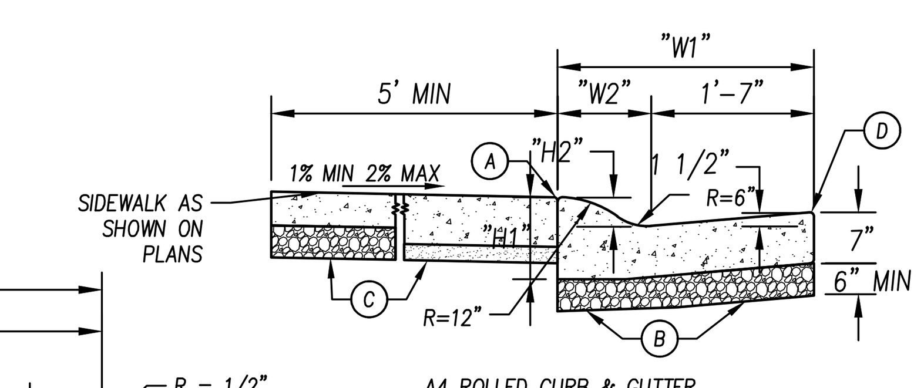


TABLE A

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7 1/2"	1 1/2"
A2-6	1'-0"	6"	2'-6"	2"
A2-8	1'-2"	8"	2'-6"	2"
A3-6	6"	5"	7 1/4"	1 1/4"
A3-8	8"	7"	7 3/4"	1 3/4"
A4	9 5/8"	3 3/8"	2'-6"	11"



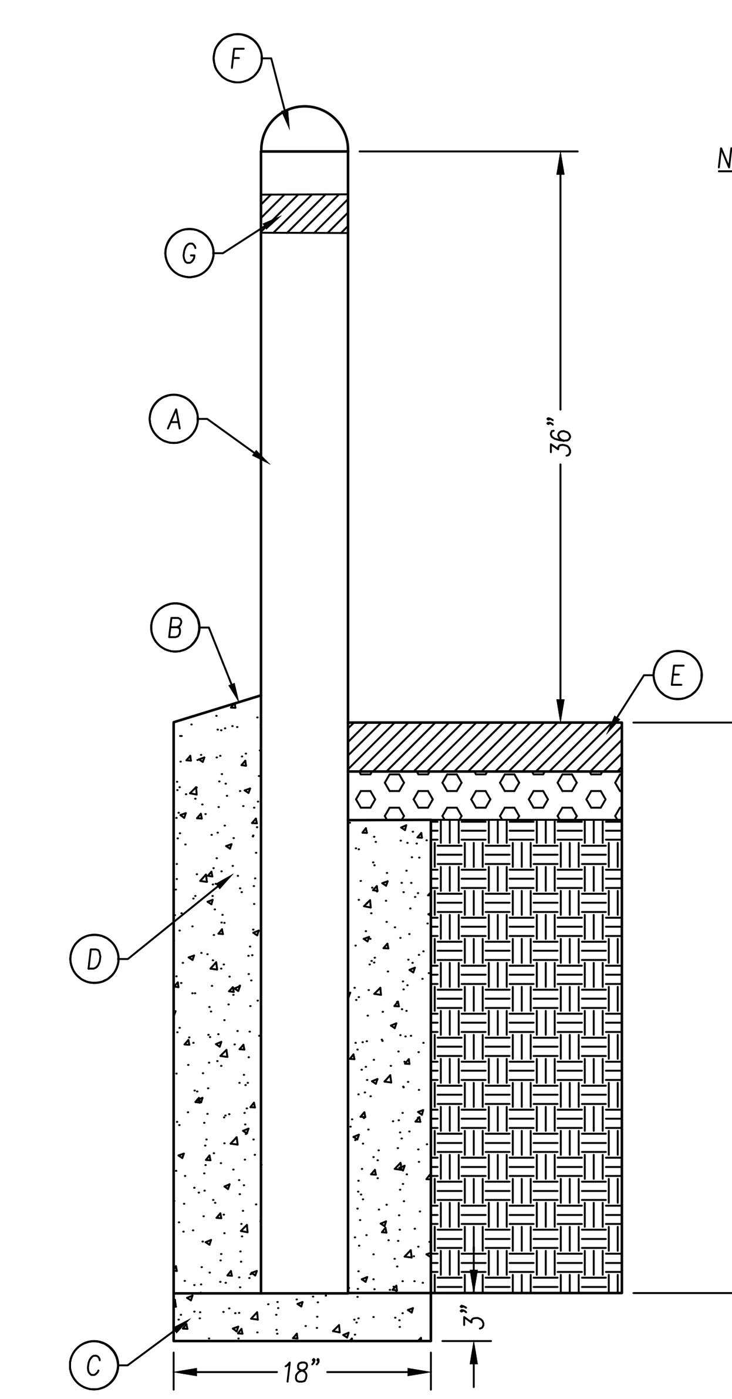
LEGEND:

A. 1/8" DEEP SCORE MARK OR COLD JOINT
B. CLASS 2 AGGREGATE BASE PROCESSED TO 95% RELATIVE COMPACTION.
C. ALL SIDEWALK HAS OPTION OF 4" CONCRETE ON 4" AGGREGATE BASE, OR 6" CONCRETE ON 2" AGGREGATE BASE OR SAND
D. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX, OR BE LESS THAN 4%.

NOTES:

1. MINIMUM WIDTH OF CLEAR PASSAGEWAY FOR SIDEWALK SHALL BE 4'-2".
2. RETAINING CURBS AND ACQUISITION OF CONSTRUCTION EASEMENT MAY BE NECESSARY FOR NARROW SIDEWALKS OR CURB HEIGHTS IN EXCESS OF 6"
3. ALL ADJOINING SIDEWALK, CURB AND GUTTER MAY BE POURED MONOLITHICALLY.

7 CURB AND GUTTER
SCALE: NTS



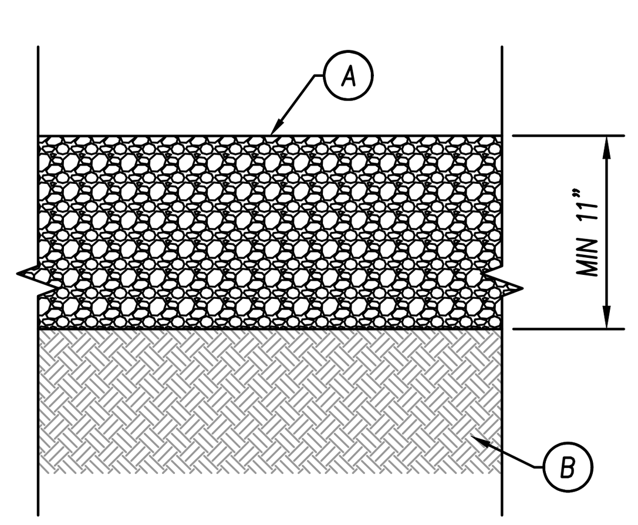
LEGEND

A. 6" O.D. 1/4" WALL STEEL TUBE WITH CONCRETE CAP.
B. SLOPE CONCRETE BASE IN LANDSCAPE AREAS.
C. REST ON 3" DOBIES.
D. CONCRETE FOOTING.
E. AC PAVING OR CONCRETE PER SITE PLAN.
F. CONCRETE CAP.
G. PLACE 2" WHITE REFLECTIVE TAPE.

NOTES

1. ALL TUBING SHALL BE BLACK STEEL PIPE.
2. ALL PARTS SHALL BE PAINTED WITH TWO COATS ZINC CHROMATE PRIMER AND TWO COATS EXTERIOR ENAMEL, COLOR: SAFETY YELLOW GLOSS.
3. CONCRETE SHALL BE "MINOR CONCRETE AS DEFINED IN CALTRANS SPECIFICATIONS.

8 BOLLARD DETAIL (ALT BID 1)
SCALE: NTS



LEGEND:

A. 3/4" MINUS CRUSHED ROCK (ROAD BASE MATERIAL) COMPACTED TO 95% OF OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D 1557. FINISHED SURFACE SHALL BE FLAT AND LEVEL.
B. NATIVE SUBGRADE (1500 PSF BEARING CAPACITY MIN)

9 AB PAD SECTION DETAIL
SCALE: NTS

GRIDLEY CALIFORNIA

NO.	REVISIONS	BY	DATE
3	ADDENDUM #3	JG	11/25/24

SUBCONSULTANT

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VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DESIGN BY : A. HOLLADAY
DRAWN BY : J. GINNEVER
CHECKED BY : D. HARDEN
SCALE : AS SHOWN
DATE : 10/01/2024
PROJ NO. : 16607-402

GRIDLEY SPORTS COMPLEX PH 1
CIVIL DETAILS I
CITY OF GRIDLEY
CALIFORNIA

C-16
18 OF 53

Login Name: jginnever
Plot Date: November 25, 2024 - 4:43 pm; Plot Style: ####
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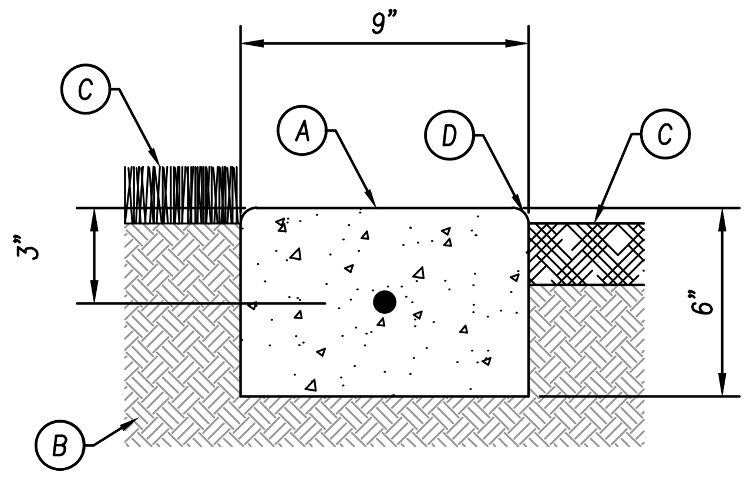
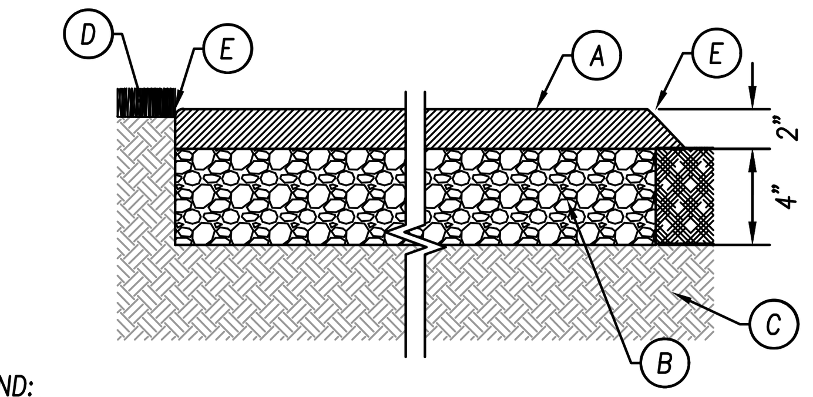


LEGEND:
A. 6"X9" CONCRETE MOWBAND WITH #4 BAR (1/2") CONTINUOUS
B. SUBGRADE COMPACTED TO 90% RC
C. FINISHED GRADE: 1/2" IN SEED, 1" IN SOD, 3-1/2" SHRUB BEDS, 4" IN MULCH AREAS
D. EASE ALL EDGES 1/2" RADIUS

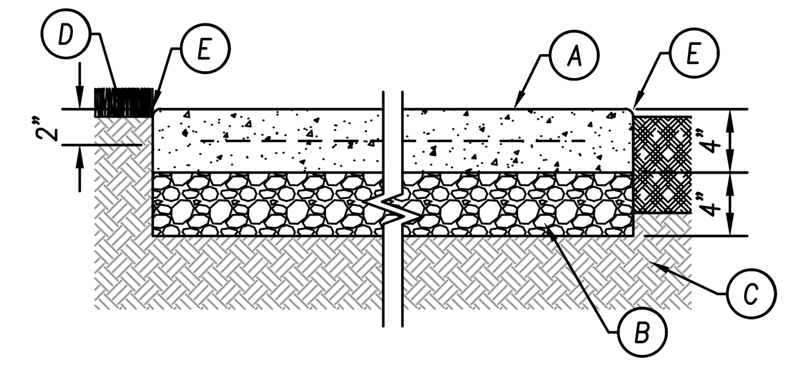
NOTES:
1. CONCRETE SHALL BE CLASS 'B' PER CAL TRANS SPECIFICATIONS W/MIN 3,000PSI COMPRESSIVE STRENGTH
2. ALL CONCRETE FINISHED ARE TO BE BROOM

1 - MOWBAND DETAIL
SCALE: NTS



LEGEND:
A. 2" TYPE A HMA AC PER CALTRANS SPECIFICATIONS
B. 4" DEEP CLASS II AGGREGATE BASE UNDER ALL HARDSCAPE, COMPACTED TO 95% RC
C. SUBGRADE COMPACTED TO 90% RC
D. FINISHED GRADE: 1/2" IN SEED, 1" IN SOD, 3-1/2" SHRUB BEDS
E. TAPER INTO UNDEVELOPED AREAS

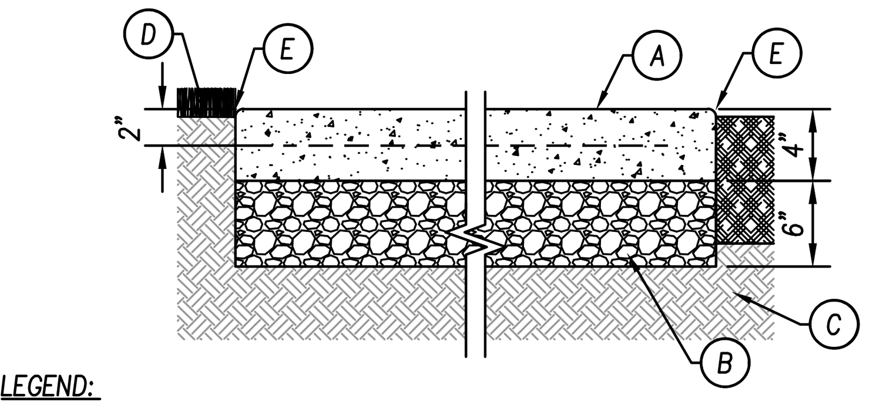
1
2 - PAVED PATH SECTION DETAIL (ALT BID 2)
SCALE: NTS



LEGEND:
A. 4" THICK CONCRETE WALK WITH 10 GAUGE 6X6 WELDED WIRE MESH, CROSS SLOPE TO DRAIN, 2% MAX
B. 4" DEEP CLASS II AGGREGATE BASE UNDER ALL HARDSCAPE, COMPACTED TO 95% RC
C. SUBGRADE COMPACTED TO 90% RC
D. FINISHED GRADE: 1/2" IN SEED, 1" IN SOD, 3-1/2" SHRUB BEDS
E. EASE ALL EDGES 1/2" RADIUS

NOTES:
1. CONCRETE SHALL BE CLASS 'B' PER CAL TRANS SPECIFICATIONS W/MIN 3,000PSI COMPRESSIVE STRENGTH
2. ALL CONCRETE FINISHES ARE TO BE BROOM

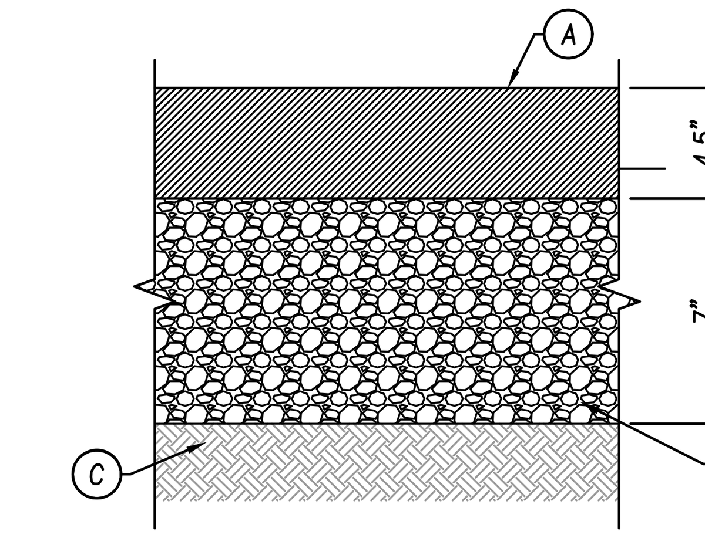
3 - PEDESTRIAN CONCRETE SECTION DETAIL
SCALE: NTS



LEGEND:
A. 4" THICK CONCRETE WALK WITH 10 GAUGE 6X6 WELDED WIRE MESH, CROSS SLOPE TO DRAIN, 2% MAX
B. 6" DEEP CLASS II AGGREGATE BASE UNDER ALL HARDSCAPE, COMPACTED TO 95% RC
C. OVEREXCAVATE SUBGRADE BY 12" AND COMPACT TO 95% RC
D. FINISHED GRADE: 1/2" IN SEED, 1" IN SOD, 3-1/2" SHRUB BEDS
E. EASE ALL EDGES 1/2" RADIUS

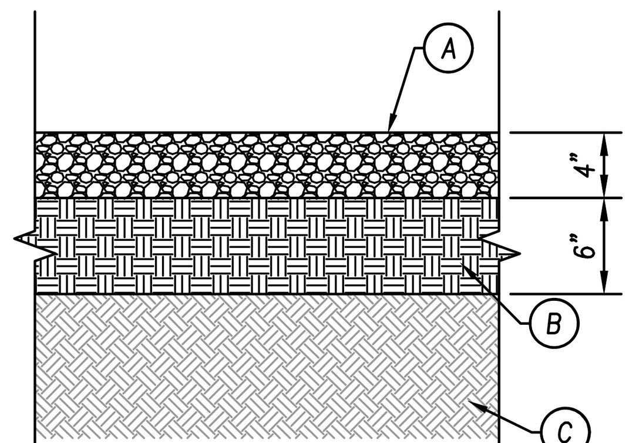
NOTES:
1. CONCRETE SHALL BE CLASS 'B' PER CAL TRANS SPECIFICATIONS W/MIN 3,000PSI COMPRESSIVE STRENGTH
2. ALL CONCRETE FINISHES ARE TO BE BROOM

4 - VEHICULAR CONCRETE SECTION DETAIL
SCALE: NTS



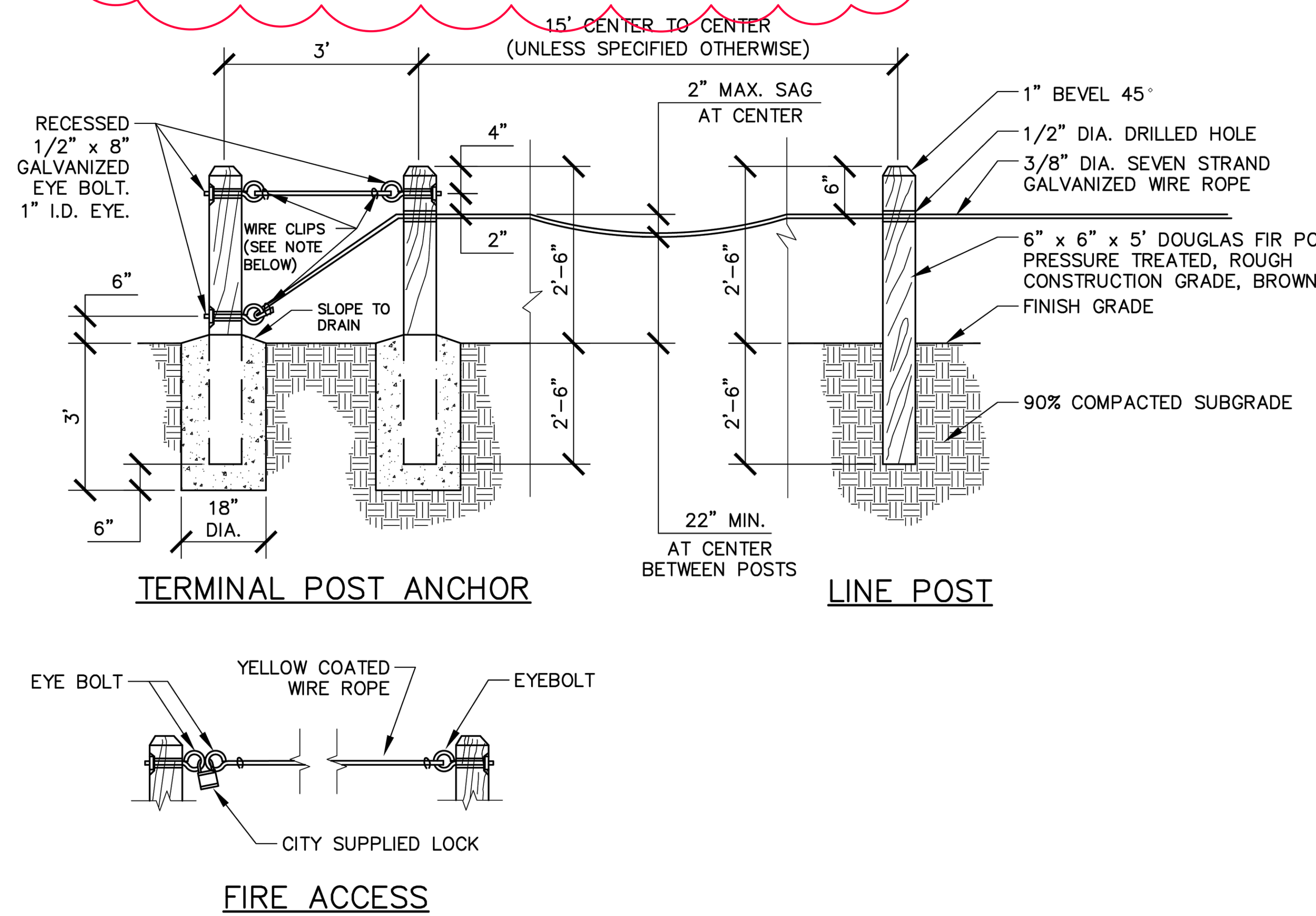
LEGEND:
A. 4.5" DEEP HMA TYPE A AC PER CALTRANS SPECIFICATIONS
B. 7" CLASS II AB UNDER AC COMPACTED TO 95% RC
C. OVEREXCAVATE SUBGRADE BY 12" AND COMPACT TO 95% RC

5 - DRIVE AISLE SECTION DETAIL
SCALE: NTS



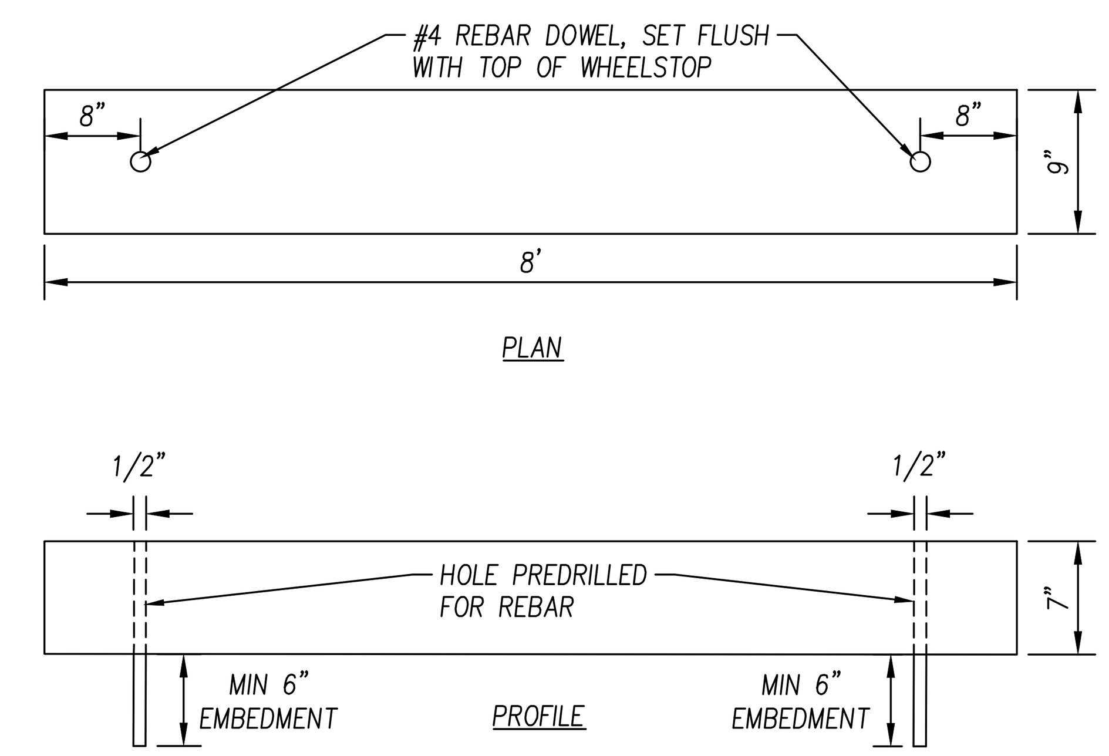
LEGEND:
A. 4" MIN OF BASE ROCK COMPACTED TO 95% RC
B. SCARIFY TOP 6" OF NATIVE MATERIAL
C. UNDISTURBED NATIVE MATERIAL

6 - PARKING LOT SECTION DETAIL
SCALE: NTS

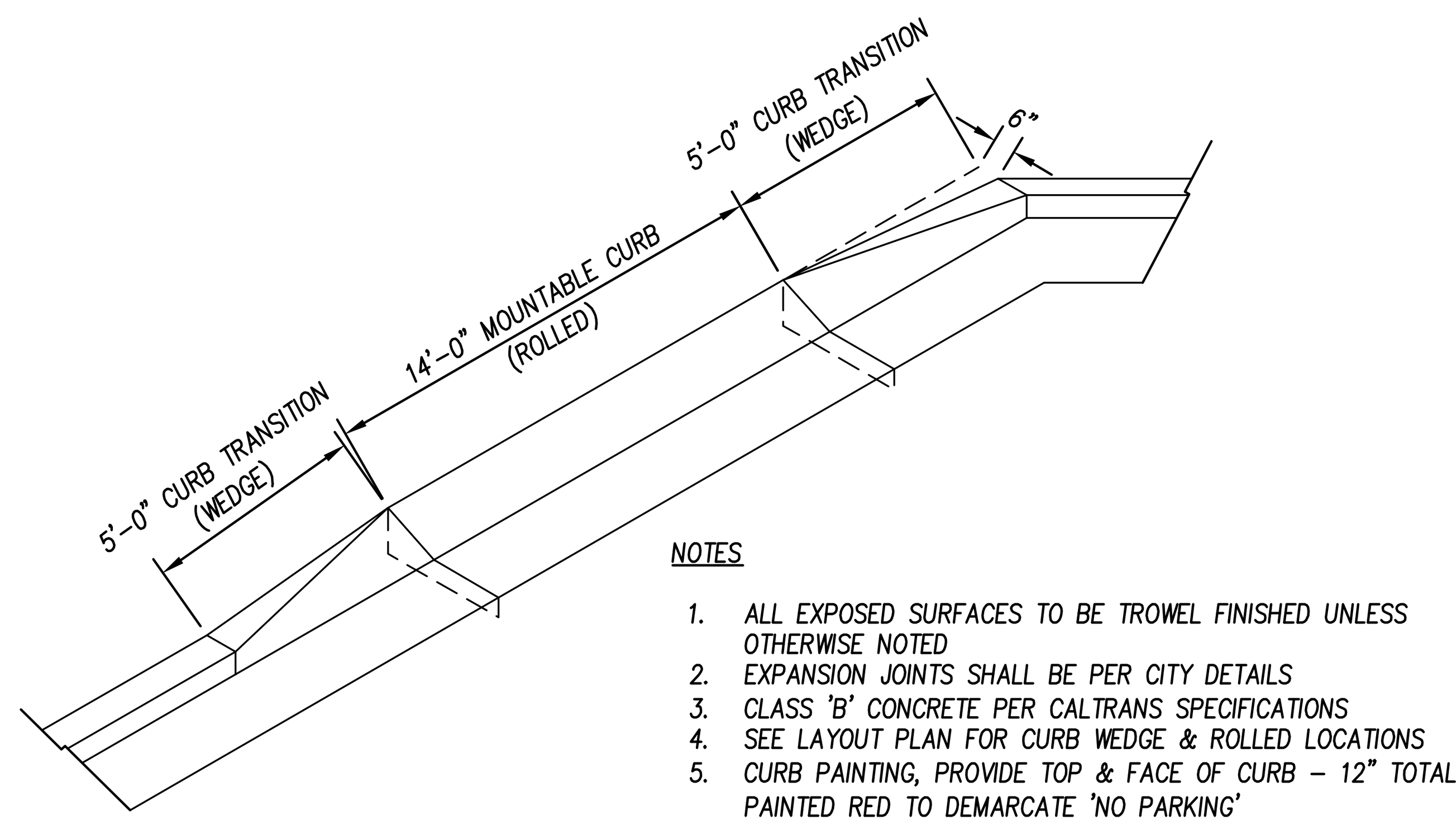


NOTES
1. PROVIDE CONCRETE FOOTINGS AT ALL END POSTS, AT ALL BENDS AND AS SPECIFIED ON APPROVED PLANS.
2. USE 3/8" x 2" GALVANIZED WIRE ROPE CLIPS FOR CONNECTIONS AND SPLICES. ALL CLIPS SHALL BE PLACED WITH NUTS FACING DOWNWARD.
3. FOR FIRE ACCESS POINTS, USE YELLOW PVC COATED CABLE.
4. WHERE REQUIRED, USE WHITE PVC COATED CABLE IN LIEU OF GALVANIZED CABLE EXCEPT IN FIRE ACCESS LOCATIONS.
5. DO NOT INSTALL IN TURF AREAS.

7 - POST AND CABLE FENCE (ALT BID 1)
SCALE: NTS

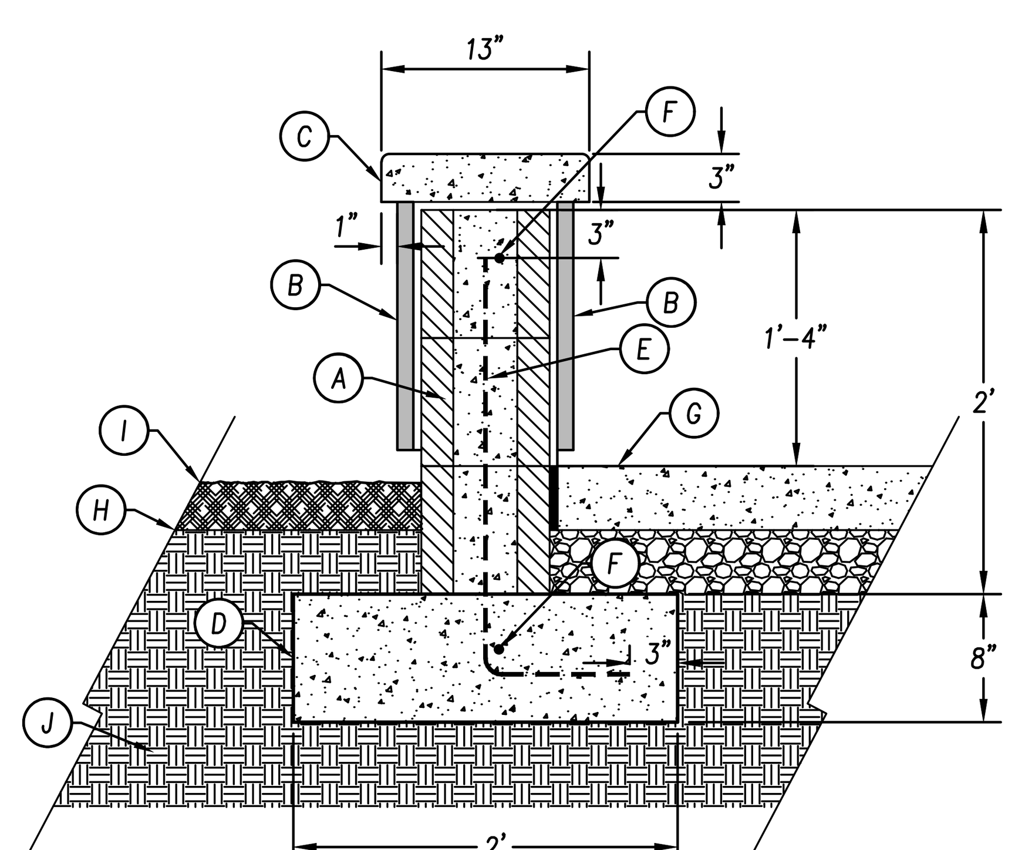


8 - RAILROAD TIE WHEELSTOP (ALT BID 1)
SCALE: NTS



NOTES
1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED UNLESS OTHERWISE NOTED
2. EXPANSION JOINTS SHALL BE PER CITY DETAILS
3. CLASS 'B' CONCRETE PER CALTRANS SPECIFICATIONS
4. SEE LAYOUT PLAN FOR CURB WEDGE & ROLLED LOCATIONS
5. CURB PAINTING, PROVIDE TOP & FACE OF CURB - 12" TOTAL, PAINTED RED TO DEMARCATE 'NO PARKING'
6. VERTICAL AND ROLLED CURB SHALL BE PER THE CITY OF GRIDLEY'S STD DTL ST-08

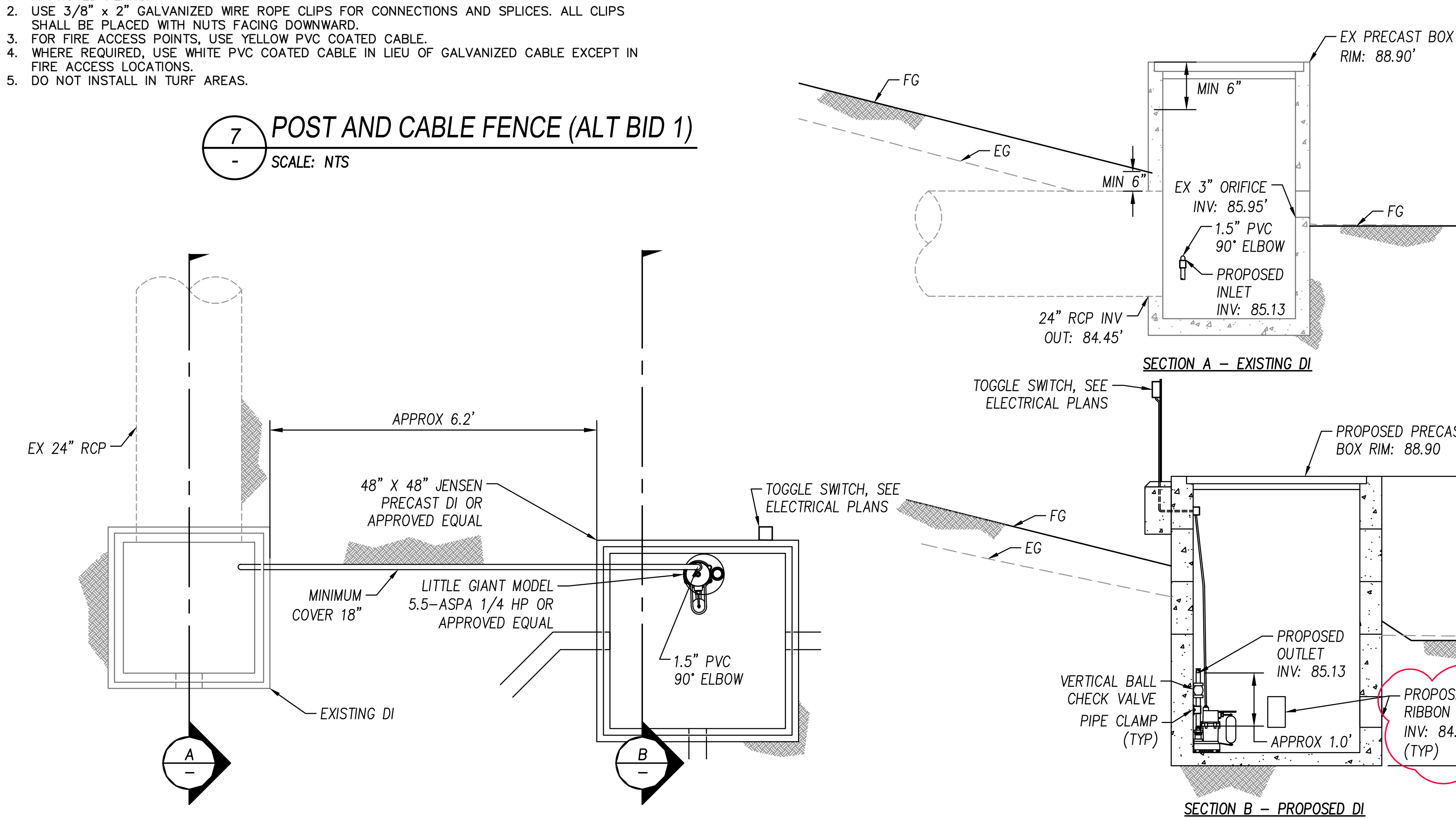
9 - ROLLED CURB TO VERTICAL CURB DETAIL
SCALE: NTS



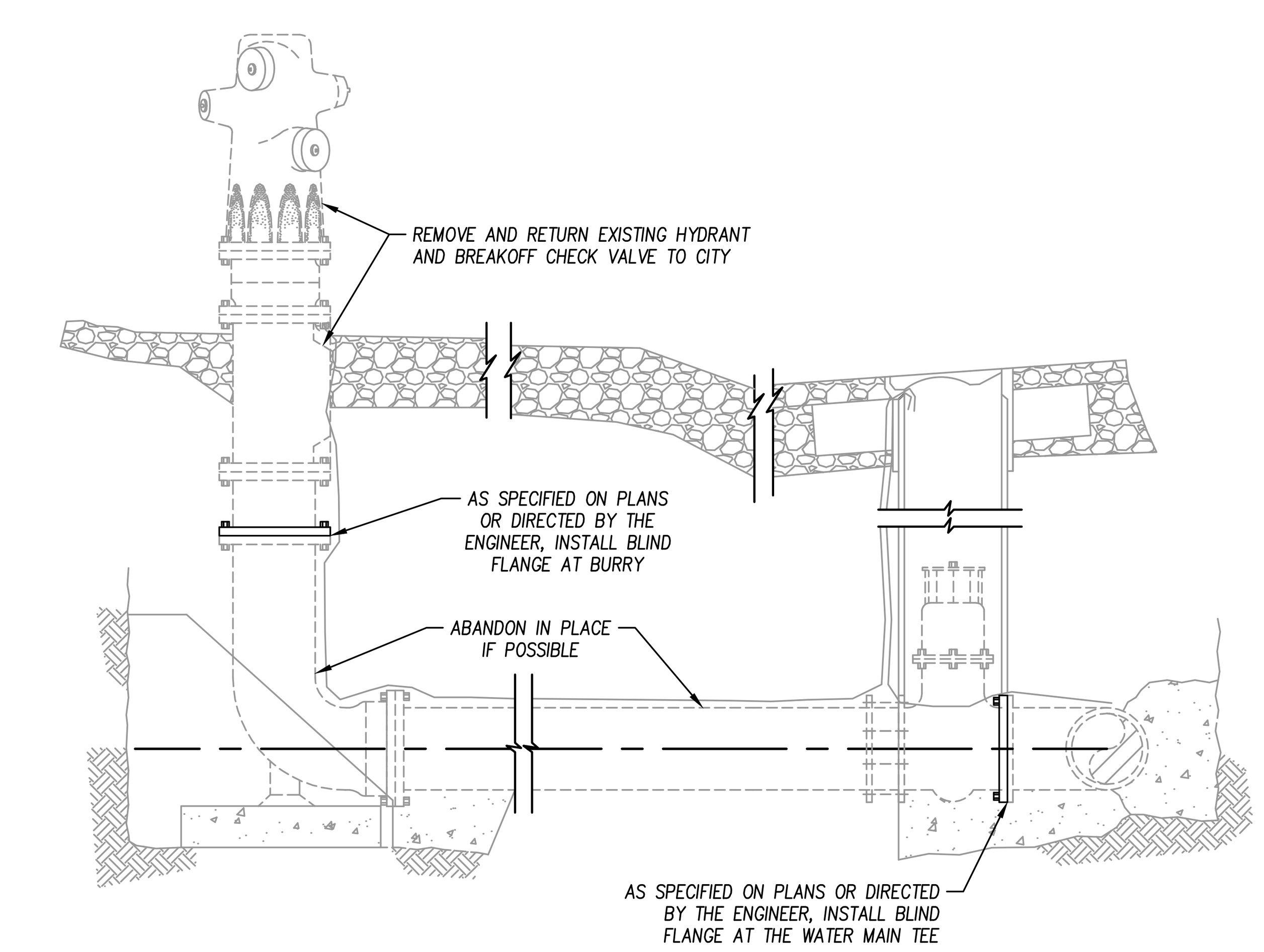
LEGEND
A. 8"x8"x16" STANDARD BASALITE CMU BLOCK. GROUT ALL VOIDS SOLID.
B. ~~STUCCO VENEER, COLOR: 'MODERATE WHITE' BY SHERWIN WILLIAMS (SW 6140). INSTALL ON ALL EXPOSED SURFACES OF CMU BLOCK TO FINISHED GRADE, TYP.~~
C. PRECAST CONCRETE CAP: WC510-13, ~~11'-6" RADIUS.~~ COLOR: #97-2. PROVIDE EVENLY SPACED SCORING @ 48" MAX. AVAILABLE BY HANDALSTONE 916.386.1430 (OR EQUAL).
D. CONCRETE FOOTING
E. #3 FOOTING DOWELS. ALTERNATE DIRECTIONS @ 16" O.C. IN WALL.
F. #3 HORIZ. IN FOOTING AND IN BOND BEAM.
G. FINISHED SURFACE OF CONCRETE PAVING. REFER TO CIVIL GRADING PLANS. INSTALL CONT. FIBER EXPANSION JOINT WHERE PAVING ABUTS VERTICAL FACE OF SEAT WALL, TYP.
H. FINISHED GRADE IN PLANTER BEDS. REFER TO CIVIL GRADING PLANS.
I. REFER TO LANDSCAPE ARCHITECT PLANS FOR PLANTING AREA.
J. SUBGRABE COMPACTED TO 95% RC

1

10 - SEATWALL DETAIL
SCALE: NTS



11 - PERMANENT SUMP PUMP DETAIL
SCALE: NTS



12 - FIRE HYDRANT ADANDONMENT
SCALE: NTS

GRIDLEY
CALIFORNIA

NO.	REVISIONS	BY	DATE
1	ADDENDUM #3	JG	11/25/24

SUBCONSULTANT

BEN|EN
TRUSTED ENGINEERING ADVISORS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DESIGN BY : A. HOLLADAY
DRAWN BY : J. GINNEVER
CHECKED BY : D. HARDEN
SCALE : AS SHOWN
DATE : 10/01/2024
PROJ NO. : 16607-402

GRIDLEY SPORTS COMPLEX PH 1
CIVIL DETAILS II
CITY OF GRIDLEY
CALIFORNIA

C-17
19 OF 53

IRRIGATION NOTES

1. THIS DESIGN IS DIAGRAMMATIC. ALL IRRIGATION EQUIPMENT, PIPING, VALVES, ETC... SHOWN WITHIN PAVED AREAS ARE FOR DESIGN PURPOSES ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE. ALL IRRIGATION LINES AND WIRING SHALL BE IN SLEEVING WHEN CROSSING UNDER PAVING.
2. THE 4" IRRIGATION WATER METER IS CAPABLE OF PROVIDING A MAXIMUM CONTINUOUS FLOW OF 800 GPM. THIS SYSTEM IS DESIGNED TO OPERATE AT 50% OF THE MAXIMUM CONTINUOUS FLOW, OR 400 GPM. NO COMBINATION OF VALVES SHALL BE OPERATED AT THE SAME TIME SO THAT THE COMBINED FLOW EXCEEDS 400 GPM.
3. THIS SYSTEM IS EXPECTED TO MAINTAIN A MINIMUM OPERATING PRESSURE OF 60 PSI AT THE FURTHEST POINTS AWAY FROM THE P.O.C. THE CONTRACTOR SHALL VERIFY THE AVAILABLE WATER PRESSURE ON THE SITE PRIOR TO INSTALLATION OF THE SYSTEM. REPORT TO THE OWNER AND THE LANDSCAPE ARCHITECT ANY DIFFERENCES BETWEEN THE CONDITIONS ASSUMED ON THESE PLANS AND THE CONDITIONS ON SITE. IN THE EVENT PRESSURE AND/OR FLOW DIFFERENCES ARE NOT REPORTED PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS REQUIRED.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, STRUCTURES AND FACILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY THEIR WORK. THEY SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS AROUND EXISTING AND PROPOSED SITE STRUCTURES AND FACILITIES, UNDER PAVING, ETC...
5. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN 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 REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
6. VERIFY LOCATIONS OF ALL EXISITING IRRIGATION COMPONENTS INSTALLED WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. DO NOT INSTALL UNTIL OWNER'S REPRESENTATIVE PROVIDES ACCEPTABLE LOCATIONS.
7. FOR NEW 3" AND LARGER MAIN LINE PIPING INSIDE SLEEVES, USE 1120-315 PSI PVC PLASTIC PIPE WITH SCHEDULE 40 PVC COUPLINGS. DO NOT INSTALL GASKETED COUPLING INSIDE SLEEVES.
8. IT IS THE RESPONSIBILITY OF A LICENSED ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT A.C. (2.5 AMP DEMAND PER CONTROLLER) ELECTRICAL SERVICE TO THE CONTROLLER LOCATION(S). IT IS THE RESPONSIBILITY OF IRRIGATION CONTRACTOR TO COORDINATE THE ELECTRICAL SERVICE STUB-OUT TO THE CONTROLLER(S). PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL CODES.
9. PROVIDE EACH CONTROLLER WITH A GROUNDING PLATE PER ASIC DETAIL FOR ALL SOILS.
10. CONTRACTOR TO EXCAVATE AND INSTALL 2-WIRE CONTROLLER WIRE WITHIN CONDUIT ALONG FULL LENGTH OF EXISTING AND NEW MAINLINE. DUCT SEAL FOR ALL CONDUIT ENDS. SEE SPECS. CONTACT CONTROLLER REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING.
11. DECODER GROUNDING SHALL BE PROVIDED EVERY (1,000 FEET OR EVERY 12 DECODERS, WHICHEVER IS SMALLER). GROUND WITH A 8' GROUNDING ROD. INCLUDE SURGE ARRESTOR AT EACH GROUNDING LOCATION. A SPLIT BOLT CONNECTION TO BE USED TO CONNECT THE SURGE DEVICE TO THE GROUND WIRE WITH EPOXY CONNECTORS PER SPECIFICATIONS.
12. SPLICING OF JACKETED 2-WIRE IS PERMITTED IN VALVE BOXES ONLY. LEAVE A 36" LONG COIL OF WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN.
13. INSTALL A GATE VALVE TO ISOLATE EACH REMOTE CONTROL VALVE OR GROUP OF RCV'S (I.E. VALVE MANIFOLD) LOCATED TOGETHER. GATE VALVE SIZE SHALL BE SAME AS THE LARGEST REMOTE CONTROL VALVE IN MANIFOLD.
14. SET SPRINKLER HEADS PERPENDICULAR TO FINISH GRADE, SEE DETAIL A/B, SHEET L2.14 FOR MORE INFORMATION.
15. LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.
16. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL EQUIPMENT AND VALVES FOR OPTIMUM COVERAGE. INSTALL ALL SPRINKLER HEADS WITH NOZZLE OF THE APPROPRIATE DEGREE AND RADIUS FOR THE AREAS TO BE COVERED. ADJUST ADDITIONAL NOZZLES TO ELIMINATE SPRAYING ONTO WALKS, STREETS, WALLS, ETC.
17. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
18. PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.
19. CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR.
20. LANDSCAPE CONTRACTOR TO ABIDE BY AND TO SATISFY ALL COMPONENTS OF THE STATE OF CALIFORNIA'S DEPT. OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) REQUIREMENTS.
21. THE CONTRACTOR SHALL PROVIDE AND PASS A WATER AUDIT BY A CALIFORNIA CERTIFIED LANDSCAPE IRRIGATION AUDITOR, AS REQUIRED BY THE STATE'S WATER EFFICIENT LANDSCAPE ORDINANCE PRIOR TO THE INSTALLATION OF PLANT MATERIALS AND MAKE ALL RECOMMENDED CHANGES BEFORE THE START OF THE LANDSCAPE MAINTENANCE PERIOD.
22. CERTIFICATE OF COMPLETION: THE CONTRACTOR SHALL PROVIDE ALL REQUIRED LANDSCAPE DOCUMENTATION TO THE LANDSCAPE ARCHITECT OF RECORD SO THE LANDSCAPE ARCHITECT MAY COMPLETE THE CERTIFICATE OF COMPLETION DOCUMENTATION TO ACHIEVE PERMIT ACCEPTANCE AND SIGN OFF AT THE END OF THE MAINTENANCE PERIOD, AS REQUIRED BY THE STATE'S WATER EFFICIENT LANDSCAPE ORDINANCE. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING IRRIGATION DOCUMENTATION:
    - A. AS-BUILTS FOR THE IRRIGATION SYSTEM.
    - B. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
    - C. IRRIGATION AUDIT BY A CALIFORNIA CERTIFIED LANDSCAPE IRRIGATION AUDITOR.
    - D. MANUAL DETAILING ALL COMPONENTS AND COMPLETE OPERATION AND MAINTENANCE OF SYSTEM
    - E. RECEIPTS FOR SOIL AMENDMENTS MATCHING SOIL ANALYSIS RECOMMENDATIONS.
24. SCHEDULE A MEETING WHICH INCLUDES REPRESENTATIVES OF THE IRRIGATION CONTROLLER MANUFACTURER, THE MAINTENANCE CONTRACTOR, THE CITY'S REPRESENTATIVE, AND THE IRRIGATION CONTRACTOR AT THE SITE FOR INSTRUCTION ON PROPER PROGRAMMING AND OPERATION OF THE IRRIGATION CONTROLLER.

IRRIGATION SCHEDULE

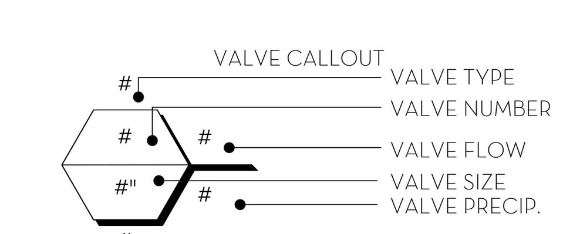
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
2000	HUNTER MP2000 PROS-06-PRS40-CV TURF ROTATOR, 6IN POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. USE 6" POP-UP BODY FOR TURF AREAS ONLY.	B/L2.14
3000	HUNTER MP3000 PROS-06-PRS40-CV TURF ROTATOR, 6IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. USE 6" POP-UP BODY FOR TURF AREAS ONLY.	B/L2.14
25 50 10 20	HUNTER PCB FLOOD BUBBLER, 1/2IN. FIPT. HUNTER PRO-SPRAY PROS-00 SPRAY BODY.	D/L2.14
0.25 0.50	HUNTER RZWS-18-CV 18IN. LONG RZWS WITH INSTALLED .25 GPM OR .50 GPM BUBBLER OPTIONS, CHECK VALVE, 1/2IN. SWING JOINT FOR CONNECTION TO 1/2IN. PIPE	G/L2.13

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
08	HUNTER I-40-06-SS 08 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE TO FULL CIRCLE. DRAIN CHECK VALVE, STAINLESS STEEL RISER, 1IN. FEMALE NPT INLET THREADS, STANDARD NOZZLE.	A/L2.14
10	HUNTER I-40-06-SS 10 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE TO FULL CIRCLE. DRAIN CHECK VALVE, STAINLESS STEEL RISER, 1IN. FEMALE NPT INLET THREADS, STANDARD NOZZLE.	A/L2.14
13	HUNTER I-40-06-SS 13 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE TO FULL CIRCLE. DRAIN CHECK VALVE, STAINLESS STEEL RISER, 1IN. FEMALE NPT INLET THREADS, STANDARD NOZZLE.	A/L2.14
15	HUNTER I-40-06-SS 15 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE TO FULL CIRCLE. DRAIN CHECK VALVE, STAINLESS STEEL RISER, 1IN. FEMALE NPT INLET THREADS, STANDARD NOZZLE.	A/L2.14

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	HUNTER ICZ-101-25 DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 25PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.	F/L2.13

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	HUNTER ICV-G W/ ICD SERIES DECODER PLASTIC ELECTRIC REMOTE CONTROL VALVES, 1", 1-1/2" , 2" . GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET.	E/L2.13
	HUNTER HQ-44LRC QUICK COUPLER VALVE, YELLOW RUBBER LOCKING COVER, RED BRASS AND STAINLESS STEEL, WITH 1IN. NPT INLET, 2-PIECE BODY.	C/L2.13
	NIBCO T-113/LEEMCO LMB-BB CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE UP TO 3". LEEMCO LMV-BB SERIES GATE VALVES TO BE USED FOR 4" AND ABOVE. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION.	B/L2.13
MV	GRISWOLD 2000-MV 4" 4IN. SOLENOID, NORMALLY CLOSED MASTER VALVE. CAST IRON AND BRONZE MATERIAL. NPT END CONNECTION.	D/L2.12
A	AIR RELIEF VALVE ACV200 AIR CONTROL VALVE. INSTALL PER DETAIL AND MANUFACTURER`S SPECIFICATIONS. CONTACT NELSON IRRGIATION AT (617)-3715-8555	E/L2.14
C	HUNTER A2C-150D-SS 150-STATION 2-WIRE CONTROLLER WITH ONE (1) A2C-D75 MODULE IN AN OUTDOOR STAINLESS STEEL PEDESTAL. CONTROLLER SIZED FOR FUTURE EXPANSION.	A/L2.11

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
NOT SHOWN	HUNTER ICD-100 SINGLE STATION DECODER W/SURGE SUPPRESSION AND GROUND WIRE. TO BE INSTALLED ON UNIVERSAL DECODER STAKE KIT	F/L2.14
NOT SHOWN	HUNTER ICD-200 2-STATION DECODER WITH SURGE SUPPRESSION AND GROUND WIRE. TO BE INSTALLED ON UNIVERSAL DECODER STAKE KIT	F/L2.14
NOT SHOWN	HUNTER ICD-400 4-STATION DECODER WITH SURGE SUPPRESSION AND GROUND WIRE. TO BE INSTALLED ON UNIVERSAL DECODER STAKE KIT	F/L2.14
SS	HUNTER WSS-SEN WIRELESS SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE, PER MANUFACTURER'S SPECIFICATIONS. MOUNT ON SOUTH OR WEST EAVE OF RESTROOM BUILDING. CONFIRM LOCATION WITH CITY'S REPRESENTATIVE PRIOR TO INSTALLATION. INSTALL ON POLE (12' HT.) NEAR CONTROLLER IF RESTROOM DOES NOT GET INSTALLED.	N/A
FS	CREATIVE SENSOR TECHNOLOGY FSI-S40-001 4IN. PVC SADDLE TYPE FLOW SENSOR, CUSTOM MOUNTING SADDLE AND ULTRA-LIGHTWEIGHT IMPELLER ENHANCES LOW FLOW MEASUREMENT. 2 WIRE DIGITAL OUTPUT COMPATIBLE W/ALL IRRIGATION CONTROLLERS. FLOW RANGE: 10 GPM - 480 GPM	A/L2.13
BP	BOOSTER PUMP CUSTOM FLOW PUMP MODEL# 400WDSLA12142023 BY V-POWER & PUMP. CONTACT CHRIS MURRAY @ (916) 997-0761 FOR MORE INFORMATION.	A/L2.12
X X	CAP FOR FUTURE USE CAP AT THE MAINLINE OR LATERAL LINE FOR FUTURE USE. THE PRESSURE AND FLOW PROVIDED TO THAT LOCATION ARE INDICATED NEXT TO THE CAP SYMBOL.	N/A
POC	4" WATER METER & BACKFLOW PREVENTER, REFER TO CIVIL PLANS.	N/A
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21. UP TO 2". PVC SCHEDULE 40 2-1/2" AND ABOVE. SOLVENT WELD FITTINGS AT 18" DEPTH, SIZE AS NOTED.	N/A
	(E) IRRIGATION MAINLINE: EXISTING 8" OR 10" MAINLINE.	N/A
	NEW IRRIGATION MAINLINE: PVC C900 DR 18 CLASS 235 NEW 6"/4" MAINLINE. 4" MAINLINE AT STUBS FOR FUTURE EXPANSIONS. ALL NEW MAINLINE TO RECEIVE MECHANICAL FITTINGS.	N/A
	PIPE SLEEVE: PVC SCHEDULE 40 SIZE 2X TOTAL PIPE DIAMETER. INSTALL UNDER ALL NEW PAVING AND EXTEND 12" BEYOND HARDSCAPE EDGES.	N/A



WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

KEITH P. WILSON, ASLA, CRLA 4728

GRIDLEY CALIFORNIA

REVISIONS: 3 ADDENDUM #3 JG 11/25/24

SUBCONSULTANT: WDSLA

BEN|EN TRUSTED ENGINEERING ADVISORS

BID SET

VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DESIGN BY : JM
DRAWN BY : JR
CHECKED BY : KW
SCALE : NTS
DATE : 10/01/2024
PROJ NO. : 22137

GRIDLEY SPORTS COMPLEX PH1
IRRIGATION LEGEND & NOTES
CITY OF GRIDLEY CALIFORNIA

L2.0

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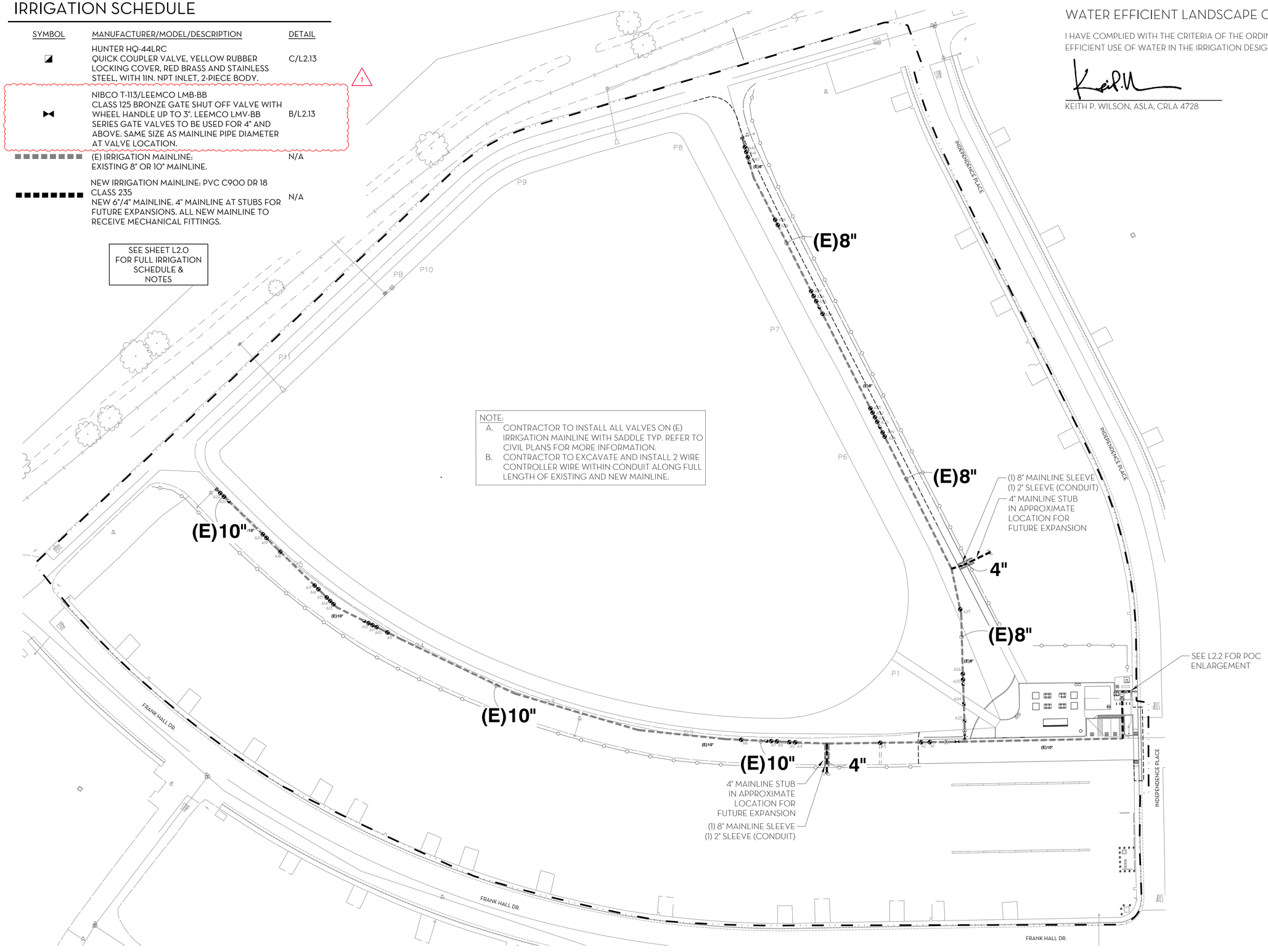
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
◪	HUNTER HQ-44LRC QUICK COUPLER VALVE, YELLOW RUBBER LOCKING COVER, RED BRASS AND STAINLESS STEEL, WITH 1IN. NPT INLET, 2-PIECE BODY.	C/L2.13
⋈	NIBCO T-113/LEEMCO LMB-BB CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE UP TO 3". LEEMCO LMV-BB SERIES GATE VALVES TO BE USED FOR 4" AND ABOVE. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION.	B/L2.13
▬ ▬ ▬ ▬ ▬ ▬ ▬	(E) IRRIGATION MAINLINE: EXISTING 8" OR 10" MAINLINE.	N/A
▬▬▬▬▬▬▬	NEW IRRIGATION MAINLINE: PVC C900 DR 18 CLASS 235 NEW 6"/4" MAINLINE. 4" MAINLINE AT STUBS FOR FUTURE EXPANSIONS. ALL NEW MAINLINE TO RECEIVE MECHANICAL FITTINGS.	N/A

1

SEE SHEET L2.0 FOR FULL IRRIGATION SCHEDULE & NOTES

NOTE:
A. CONTRACTOR TO INSTALL ALL VALVES ON (E) IRRIGATION MAINLINE WITH SADDLE TYP. REFER TO CIVIL PLANS FOR MORE INFORMATION.
B. CONTRACTOR TO EXCAVATE AND INSTALL 2 WIRE CONTROLLER WIRE WITHIN CONDUIT ALONG FULL LENGTH OF EXISTING AND NEW MAINLINE.



WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

KEITH P. WILSON, ASLA, CRLA 4728

BID SET

GRIDLEY
CALIFORNIA

NO.	REVISIONS	BY	DATE
3	ADDENDUM #3	JG	11/25/24

SUBCONSULTANT
WDSLA
Wilson Design Studio, Landscape Architecture
150 Redwood Street
San Francisco, CA 94102
339.400.3861 | www.wdsla.com

REGISTERED LANDSCAPE ARCHITECT
KEITH P. WILSON
No. 4728
EXPIRATION DATE: MAY 30, 2025
STATE OF CALIFORNIA

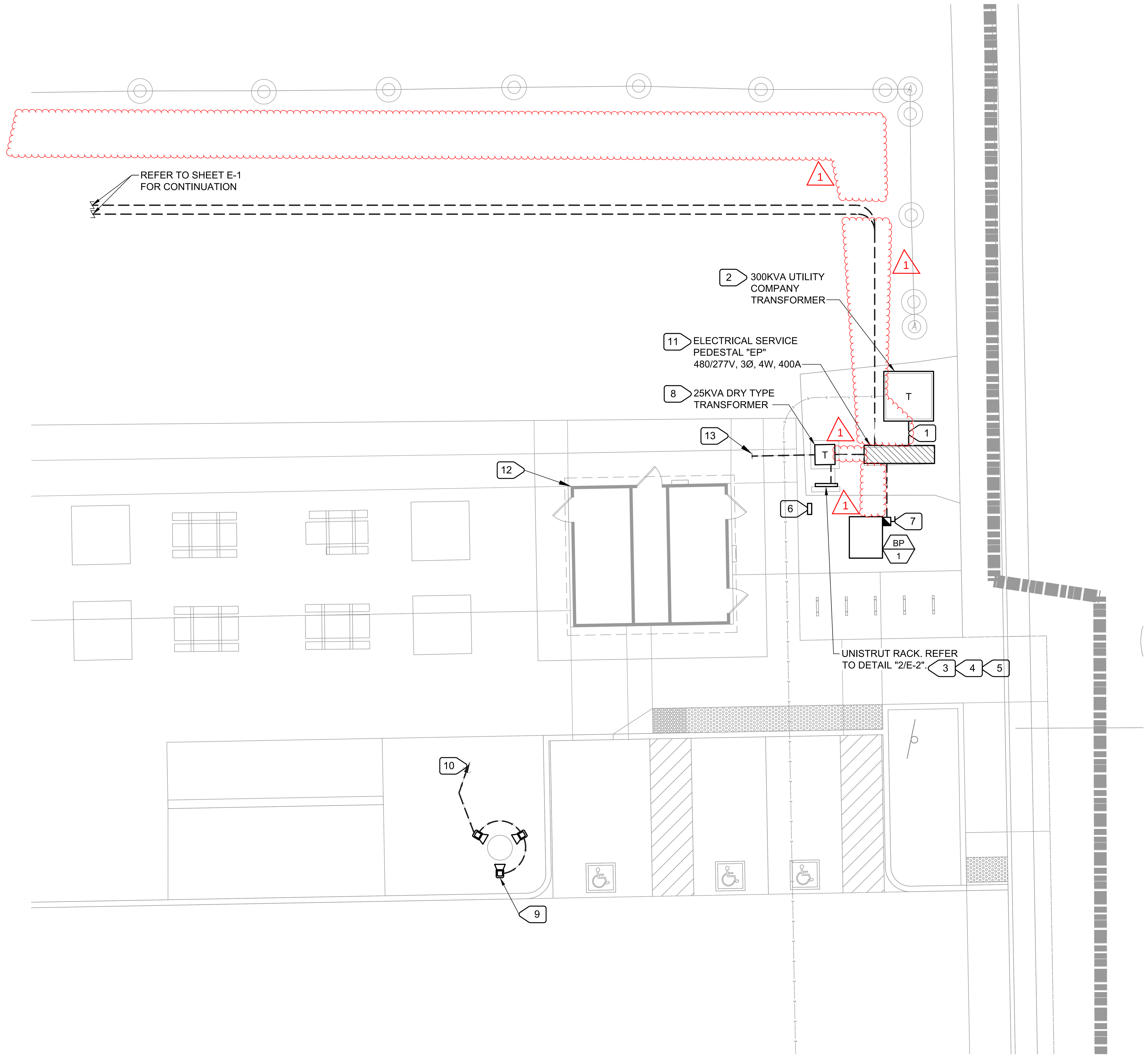
BEN|EN
TRUSTED ENGINEERING ADVISORS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING 1"
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DESIGN BY : JM
DRAWN BY : JR
CHECKED BY : KW
SCALE : 1:50
DATE : 10/01/2024
PROJ NO. : 22137

GRIDLEY SPORTS COMPLEX PH1
OVERALL MAINLINE EXHIBIT
CITY OF GRIDLEY CALIFORNIA

L2.1
32 OF 53



1 E-1.1 PARTIAL ENLARGED SITE PLAN - ELECTRICAL

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

NUMBERED NOTES

1. MAINTAIN MINIMUM 4'-0" WORKING CLEARANCE BETWEEN ELECTRICAL PEDESTAL AND UTILITY CO. TRANSFORMER.
2. NEW UTILITY COMPANY TRANSFORMER. VERIFY LOCATION WITH CITY OF GRIDLEY ELECTRIC. CONTRACTOR TO PROVIDE PRECAST TRANSFORMER PAD AS REQUIRED.
3. NEW SPORTS LIGHTING CONTROL BOX. VERIFY EXACT LOCATION. +45" MINIMUM TO BOTTOM OF BOX. PROVIDE NAMEPLATE TO READ "SPORTS LIGHTING CONTROLS". REFER TO DETAIL "2/E-2".
4. PROVIDE WEATHER RESISTANT DUPLEX RECEPTACLE IN A LOCKABLE METAL WHILE-IN-USE COVER. PROVIDE 1/2"C., 2 #12 AND 1 #12 GND. TO LOAD CENTER "A". REFER TO DETAIL "2/E-2".
5. LOCATE POLE LIGHTING SYSTEM VANDAL RESISTANT PUBLIC ACCESS PUSHBUTTON CONTROL ON UNISTRUT RACK. VERIFY LOCATION WITH OWNER. PROVIDE NAMEPLATE THAT READS "PUSH TO TURN LIGHTS ON". REFER TO DETAIL "2/E-2".
6. IRRIGATION CONTROLLER. PROVIDE 1"C., 2 #12 AND 1 #12 GND. TO LOAD CENTER "A". REFER TO DETAIL "2/E-2".
7. VERIFY EXACT SIZE AND LOCATION OF BOOSTER PUMP WITH LANDSCAPE ARCHITECT. REFER TO ONE LINE POWER DIAGRAM FOR FEEDER SIZE.
8. 25KVA DRY TYPE TRANSFORMER WITH WEATHERSHIELDS. 480 - 240/120V, 1 PHASE, 3 WIRE. REFER TO ONE LINE POWER DIAGRAM FOR FEEDER SIZE.
9. PROVIDE B-K LIGHTING HP2-LED-TR-x59-SP-BZP-010-MT-RG IN-GROUND FLAG POLE LIGHTING FIXTURE. TYPICAL OF (3). INSTALL 2'-0" AWAY FROM FLAG POLE AND 120 DEGREES APART. PROVIDE 3/4'C., 2 #12 AND 1 #12 GND. BETWEEN FIXTURES. REFER TO DETAIL "8/E-3".
10. PROVIDE 3/4'C., 2 #12 AND 1 #12 GND. TO LOAD CENTER "A" VIA SWITCH AND PHOTOCELL. MOUNT SWITCH ON RACK AND PROVIDE NAMEPLATE TO READ "FLAG POLE LIGHTS". MOUNT PHOTOCELL ON LOAD CENTER "A" ORIENTED NORTH. REFER TO DETAIL "2/E-2".
11. REFER TO ONE LINE POWER DIAGRAM.
12. FUTURE RESTROOM AND CONCESSION BUILDING.
13. PROVIDE 1-1/4" CONDUIT STUBBED OUT 5'-0" AWAY FROM TRANSFORMER FOR FUTURE RESTROOM AND CONCESSION BUILDING.

GENERAL NOTE

ELECTRICAL CONTRACTOR SHALL EXAMINE CIVIL AND LANDSCAPE PLANS TO NOTE WHERE SEWER AND WATER LINES WILL BE LOCATED. COORDINATE WITH CITY OF GRIDLEY UTILITY CO. PRIOR TO BEGINNING WORK.

GRIDLEY CALIFORNIA

NO.	REVISIONS	BY	DATE
1	CLARIFICATION FOR ADDENDUM	YJV	11/19/24

SUBCONSULTANT
M. NEILS ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400

PROJECT #: 23073.21

REGISTERED PROFESSIONAL ENGINEER
YVETTE J. VAN ZANTEN
No. E15483
Exp. 6/30/25
ELECTRICAL
STATE OF CALIFORNIA
10-15-2024

BEN|EN TRUSTED ENGINEERING ADVISORS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DESIGN BY : Y. VAN ZANTEN
DRAWN BY : NAK/KL
CHECKED BY : Y. VAN ZANTEN
SCALE : AS NOTED
DATE : 10/15/2024
PROJ NO. : 16607-402

GRIDLEY SPORTS COMPLEX PH1
PARTIAL ENLARGED SITE PLAN - ELECTRICAL
CITY OF GRIDLEY CALIFORNIA

E-1.1