

LANDSCAPE ARCHITECTURE PLANNING

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151 N. Norlin St., Sonora, CA 95370 (209)532-2856 (209)532-9510 fax



Revisions
Date
Modification

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Mossdale Landing
Tract 3410
Village Ave., Towne Centre
Drive, and Easement
Lathrop, CA

City of Lathrop,
Public Works

390 Towne Centre Dr.
Lathrop, CA 95330
209-941-7430
209-941-7449 Fax

The original size of this drawing is 24" x 36". If the plan is a different size than 24x36 do not scale off of the drawing.

Site Plan

Scale:

|" = 50'-0"

Date:

September 26, 2017

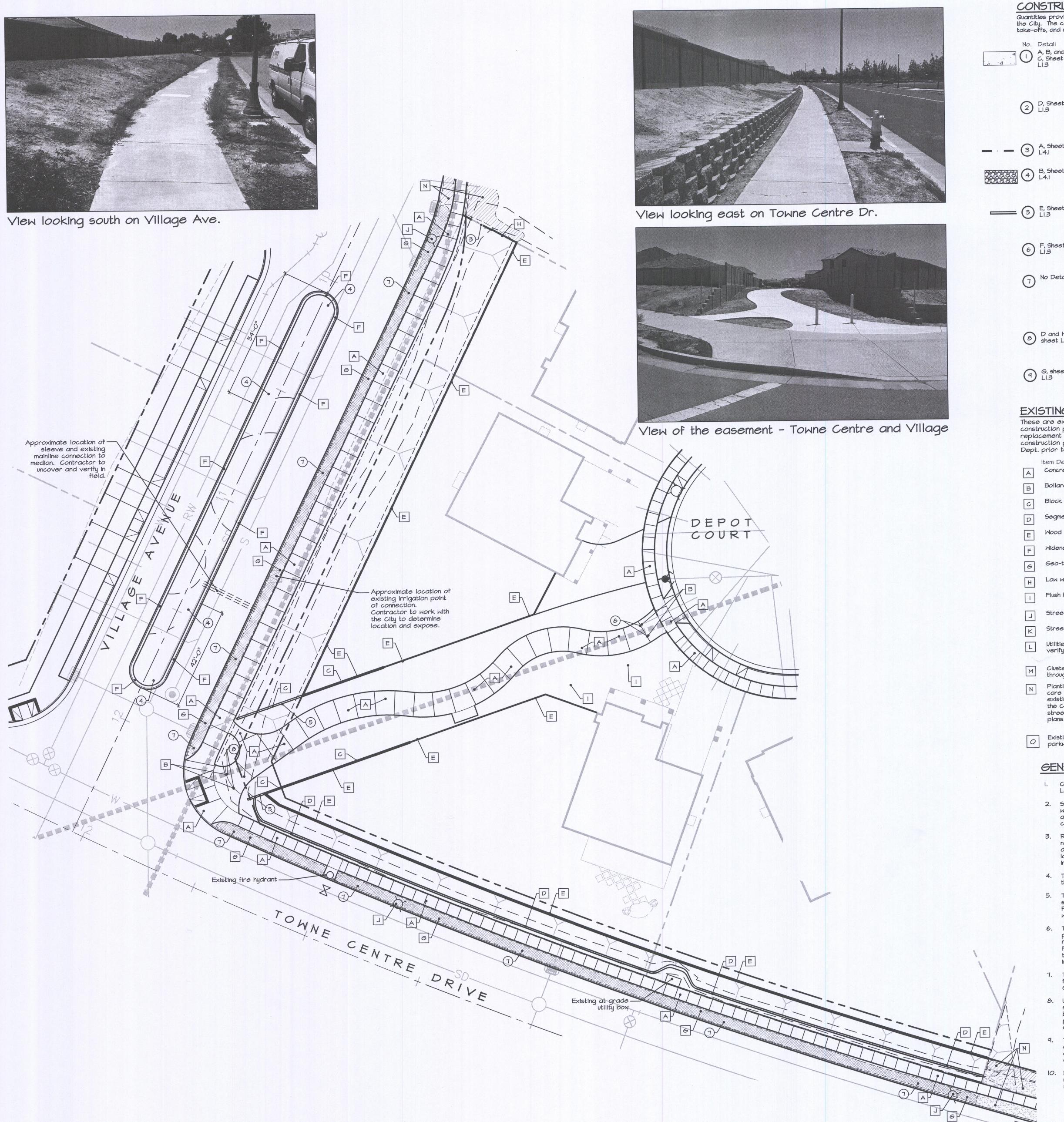
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NAB / TWH

Project No.:

Sheet Number:

01



CONSTRUCTION CALLOUTS

Quantities provided in this list is for the convienece of the contractor and for the review by the City. The contractor shall bid the quantities in the plans as determined by independent take-offs, and not rely on these quantities. This is NOT a bid list.

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No. Detail

A, B, and
C, Sheet
Li.3

Install natural gray medium broom finish concrete paving (and per City Standard Detail R-7C). Install troweled score joints at approx. 8' on center (unless otherwise notes on the plans) and expansion joints at approx. 24' on center, or as shown on plans. Cross slope shall not exceed l.8% and longitudinal slope must be less than 5%. See also General Construction Notes on Sheet Li.
Qty. - 46II sf

D, Sheet
Li.3

Install Removable bollard Keysone Ridge (www.keystoneridgedesigns.com) model GYR-4 Grove Straight Removable Bollard with 4" rounded cap. Powder coat custom color RAL6012 to match City street lights or approved equal. Final location of bollards to be approved by City. Padlock per City of Lathrop.

B, Sheet
A, Sheet
Install 2x4 Pressure treated (P.T.) header between public and private landscape. Top of the header to Join flush with the top of the concrete that it abuts.

Qty. - Iq2 If

Install wet-set river cobble. Cobble to be 2"-4" Noya River Cobble set in pating and concrete showing. Set flat side of

that it abuts.

B, Sheet Install wet-set river cobble. Constall properties of the set of the surface. Coordinates to be completed by the sample to be comple

prior to order and application.

natural gray concrete with minimal concrete showing. Set flat side of cobble up to keep the top surface as flat as possible to create a relatively flat surface. Coordinate with City of Lathrop prior to setting cobble. Cobble sample to be approved by City.

Contractor to cut and remove existing steel fence posts in the masonry wall and grind flush with top of wall. Epoxy apply flat masonry cap to

match the color of the wall. City of Lathrop to review and approve cap

Install pet waste bag dispenser. Model #74095 Mini Dog Waste Station -

pull bag style (no trash container). Waste bag dispenser available through Dog On It Parks, www.dog-on-it-parks.com, (877-349-3647). Color to be powdercoat black.

The geo-textile fabric that is stapled to the grade in various degrees of decay is to be completely removed from the site including all staples and other accessories, as well as the remnants of wattles that are within the project area. This is inclusive of the areas specifically shown on the plans and any others that are not shown. These items are to be completely removed from the site and disposed of at an approved disposal facility

with all fees paid by the contractor.

Qty. - To be determined by the contractor and City

D and H,

sheet LI.3

Remove existing bollards, saw cut existing concrete in approximately 18"

square around bollard and remove. Replace with new removable bollard

per Construction Callout #2 above. Top of new concrete to join flush with

adjacent existing concrete.

9 G, sheet
LI.3 Saw cut and remove section of existing curb and gutter and replace with new concrete driveway apron in-line with meandering sidewalk. Contractor to coordinate extensively with City of Lathrop Public Works Department for location and extent of demolition. (as minimal as possible).

EXISTING SITE FACILITIES

These are existing items that are to remain and be protected throughout the construction process. The contractor shall be responsible for repair and/or replacement of any existing-to-remain facilities that may be damaged during the construction process. Contractor to walk the site with the City of Lathrop Public Works Dept. prior to any work taking place to review any pre-existing damage.

Dept. prior to any work taking place to review any pre-existing damage.

Item Description

Concrete paving

Bollards - to be removed - see Construction Callout 8

Block retaining wall - See also Construction Callout 5

Segmental block retaining wall

Wood lot line fence

Widened concrete curb around the median

Geo-textile fabric in decay. To be removed. See Construction Callout 7

Low wood retaining wall

Flush header board along the edge of privately maintained landscape

Street lights

K Street and other signs

Utilities - These are locations that were visually observable. The contractor shall verify all utility locations and call 811 prior to any work taking place.

Cluster mailbox - The mailbox is to remain accessible by the residents and the USPS throughout the construction process.

Planting and irrigation on private property adjacent to the project. Contractor shall

care to remain completely outside of private residential areas and protect the existing planting and irrigation. Repair and replace as needed and as directed by the City of Lathrop. Planting and irrigation within the parkway strip (between the street curb and sidewalk) may be modified as needed and as directed in these plans.

Existing driveway apron to be removed. Install new curb and gutter with planting parkway strip per City Standard Details. Coordinate with Public Works Department.

### GENERAL DEMOLITION NOTES:

- Confirm all limits and extent of demolition with City's representative and/or Landscape Architect on-site prior to start of demolition process.
- 2. Schedule Utility Service Alert (811 or 800-227-2600) for marking of all utilities within the project zone. All utilities shown on these plans is for reference only and have not been verified to be correct. This are shown for contractor convenience only.
- 3. Remove all vegetation within extents of new construction unless otherwise noted, verify with City's representative and/or Landscape Architect of any discrepancies. Contractor shall remain outside of private residential landscape areas and shall protect the existing to remain planting and irrigation in the front yard of adjacent homes.
- The existing geo-textile fabric and wattles are to be completely removed from the site - See Construction Callout #7.
- 5. There are minimal existing facilities in the proposed project area. The existing site consists of a compacted dirt through an existing residential neighborhood. Proposed grading is minimal and all new sidewalks, headers, etc, shall join flush with the top of existing sidewalks and curbs.
- 6. The adjacent existing concrete sidewalks, curb, fences, and headers are to be protected throughout the construction process. If damaged, they shall be replaced to the satisfaction of the City of Lathrop. Any damage caused to fences, headers, or private landscape (planting and irrigation) shall be brought to the attention of the homeowner and the City, and shall be repaired immediately.
- To the greatest extent possible, the grading of new sidewalks shall roughly follow the surface of the existing grade with minimal grading - See General Grading Notes, this sheet.
- 3. Unless otherwise noted on the drawings: all materials indicated to be removed shall become the property of the Contractor; disposal of such material shall become the responsibility of the Contractor and shall be made outside of the project site to an approved disposal site; all fees associated with the disposal are the responsibility of the Contractor.
- 1. There are some existing irrigation items within the median and parkway strip along Village Ave. These items are to be removed and disposed of. The existing sleeves under Village Ave. are to located and preserved. The existing irrigation water meter is to be located and preserved as well.
- Demolition shown is diagrammatic and general. Perform all demolition as required to construct a complete and finished project including all items in the way of new work whether or not specifically shown.

GENERAL CONSTRUCTION NOTES:

- I. All dimensions are taken from curb face or edge of paving, unless otherwise noted on the plan. The dimensions are shown for approximate line and all radii and curves are to have continuous and smooth transitions without abrupt changes or bends. Improvements to be staked, coordinate with City for staking consultant.
- 2. All forms and alignment of paving shall be reviewed and approved by the Landscape Architect and/or City prior to pouring (provide a minimum of 48 hours notice).
- 3. Site grading is to be minimal. See General Grading Notes on Sheet
- . Contractor shall verify location of all utilities prior to construction and shall be liable for all damages incurred. Schedule Utility Service Alert (811 or 800-227-2600) for marking of all utilities within the
- All construction and workmanship shall conform to the latest edition of the City of Lathrop Standard Specifications and Details.
- 6. The top of all new paving is to join flush with the top of existing concrete sidewalks and curbs. Where new concrete abuts existing concrete there shall be a continuous full depth felt expansion joint between new and existing.
- 7. The sidewalks shall follow the existing grade to the greatest extent possible to minimize grading. Longitudinal slopes shall not exceed 4% (designed for 3%) and cross slopes shall not exceed 1.8%. All portions of concrete shall have slope to eliminate the possibility of ponding water on the surface of the concrete.
- 8. These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Landscape Architect
- 9. The contractor must check all dimensions, framing conditions, and the condition of the site prior to commencing with work. The Landscape Architect and/or City is to be notified immediately of any discrepancies or deficiencies.
- 10. Conditions not specifically shown shall be constructed similar to the details for the respective materials.
- II. The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc. is the sole responsibility of
- 12. Observation visits to the job site by the Landscape Architect do not include inspection of construction methods and safety conditions of the work-site. These visits shall not be construed as continuous and detailed inspections.
- 13. Design, materials, equipment, and products other than those described on the drawings or in the specifications may be considered for use, provided prior approval has been obtained from the City, Landscape Architect, and applicable governing authority.

## GENERAL GRADING NOTES:

the contractor.

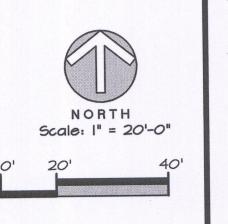
- I. The improvements that are shown on these plans are within a streetscape and easement that was partially constructed previously. Several of the sidewalks are existing and are to remain in place throughout the construction process. New paving (concrete, DG, aggregate, etc.) is to join flush with these existing walks.
- 2. Prior to construction and/or landscape grading, the contractor shall verify all utility locations, existing drainage structures, street improvements, with the City. It is the responsibility of the contractor to notify the City should there be any discrepancies between the plans and the actual site conditions.
- 3. The contractor is to design-build the paving and landscape spaces based on the existing conditions with the goal of performing minimal grading while meeting code requirements and working within the existing conditions. Within the easements, the site is generally slighting peaking in the middle with minimal slope (±2%) sloping to the streets. The goal of the overall grading design is to maintain the relative nature of the site with the paving being placed on the surface with minimal grading.
- 4. The contractor shall meet with the City prior to grading operations to review the existing conditions and the overall project grading concepts.
- 5. Concrete walks to have minimum cross slope of 1% and maximum cross slope of 1.8% and shall not allow standing water. Overall slopes shall be toward the streets. All pedestrian paving shall meet all local codes and requirements.
- 6. Landscape areas shall slope away from sidewalks to avoid standing water directly adjacent to walkways. While the overall intention is to drain the landscape towards the streets, there may be a need for low points within landscape areas that percolate. Easement and streetscape areas shall not drain into adjacent residences.
- There is no anticipation for providing drain inlets and drainage pipe. All drainage shall be surface flow toward the streets or occasional low points for percolation.
- 8. The existing grades around existing retaining walls (top and bottom) shall remain as they are. There is no intention of changing the site grading.
- q. All finish grades shall be between 1 1/2" and 3" below the adjacent paving surfaces unless otherwise noted.

### ADA NOTES:

Path of Travel

1. There is to be an accessible route of travel from public sidewalks to all general outdoor spaces.

- 2. This walk must be a minimum of 4' wide. If there are any obstructions in the path of travel, there must be a minimum of 48" clearance around the obstruction (sign post, hydrant, etc.).
- There shall be no projections into this accessible route below 80" above the surface of the paving such as, but not limited to, signs, utilities, drinking fountains, rails, etc.
  Contractor to verify that all path of travel walkways meet the
- unobstructed criteria and make necessary corrections if this is not the case.
- 5. There shall be no steps or grade separation (1/4" max.) along the accessible route.
- The paving that is included within this project is to join flush with existing street sidewalks. No ramps or flush transitions to vehicular paving are proposed.



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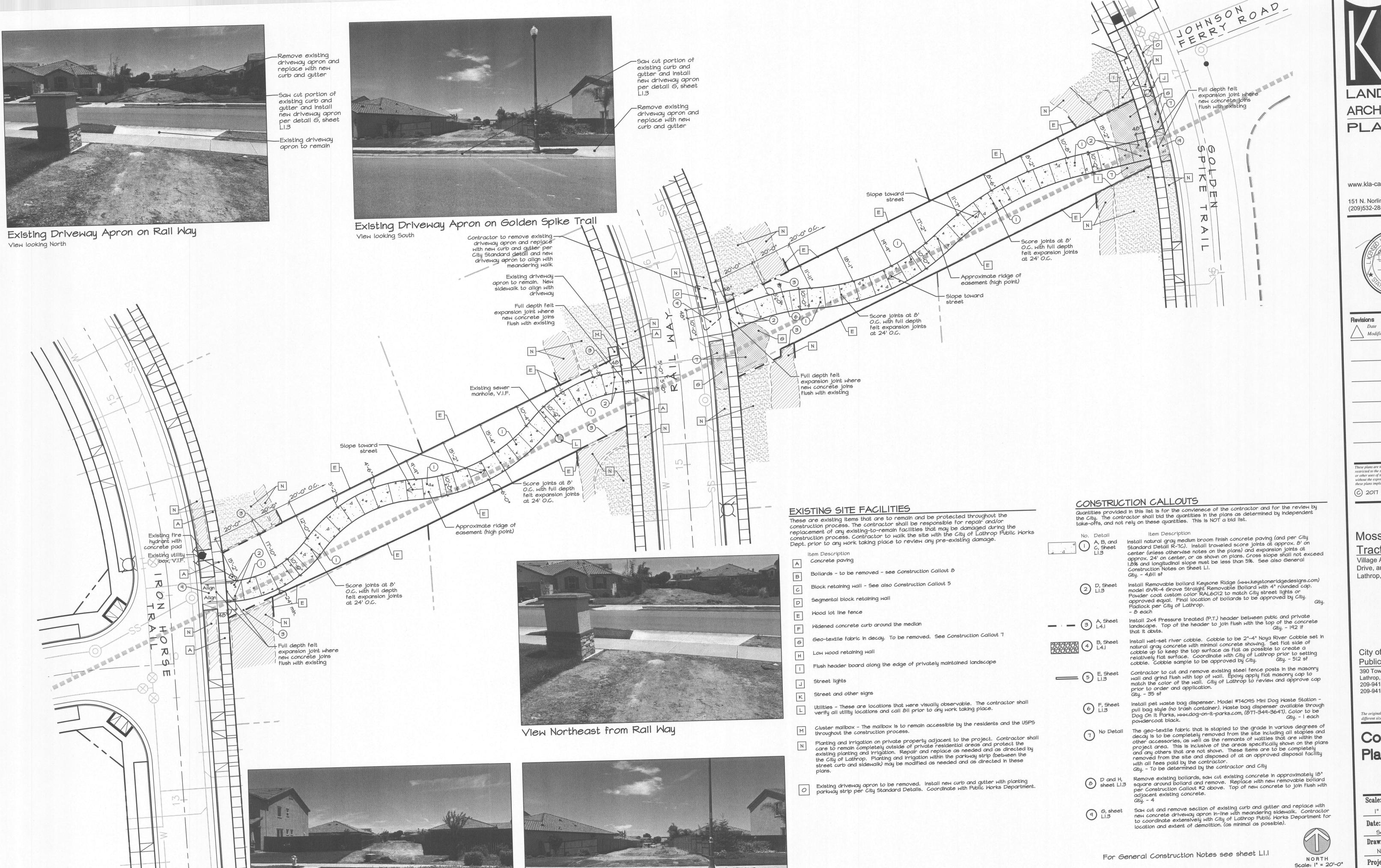
# Construction Plan

Scale:

| " = 20'-0" |
| Date:
| September 26, 2017 |
| Drawn:\Checked:
| NAB / TMH |
| Project No.:

L11

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View Southwest from Golden Spike Trail

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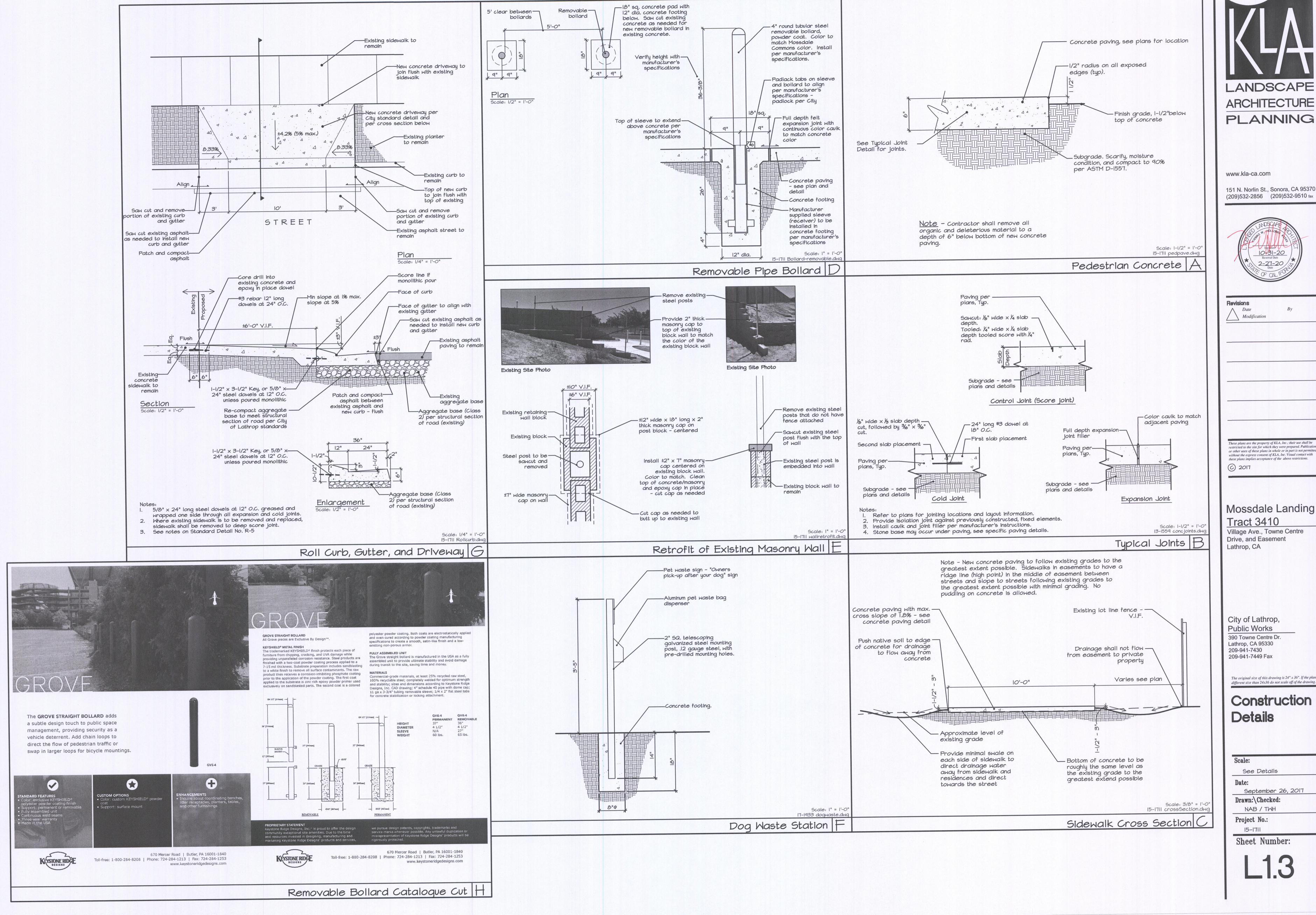
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Drawn:\Checked: NAB / TWH Project No.:

15-1711 Sheet Number:

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View Northwest from Iron Horse Trail



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## Construction **Details**

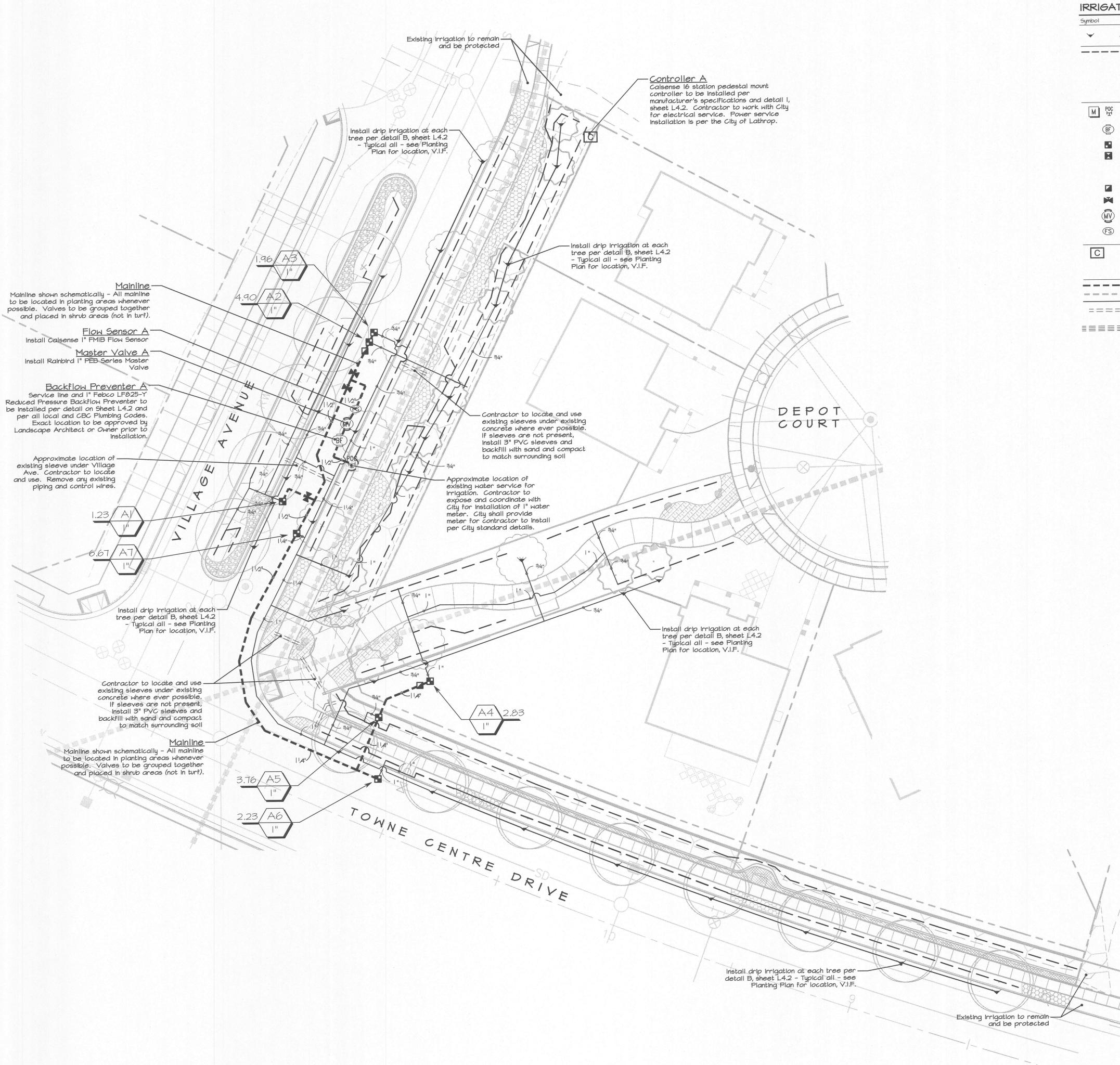
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September 26, 2017

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Project No.: 15-1711

Sheet Number:



IRRIGATION LEGEND Symbol Manufacturer Description / Model No. Schedule 40 PVC piping with emitters at trees per detail B, sheet L4.2. See Piping and Wiring detail for installation of PVC piping Install Schedule 40 PVC lateral line with IPS flex pipe and Toro LF20-PC bubbler to each plant. See Detail A, Sheet L4.2. Contractor shall monitor the water during the maintenance period and make modifications to bubblers (GPH) at each plant to ensure that all plants are getting adequate water based on specific microclimate conditions. Each plant to receive the following minimum number of bubblers: (I) Toro LF20-PC Bubbler (2.0 GPH/0.033 GPM) - per plant I Gallon shrubs (2) Toro LF20-PC Bubbler (4.0 GPH/0.067 GPM) - per plant 5 Gallon shrubs Bubblers to be spaced equally around plant. Point of Connection - Tie to fire hydrant service under the direction and supervision of the City of Lathrop Public Works Department. Verify conditions in the field. I" LF825Y Reduced Pressure Backflow Preventer (lead free) - see plan for size. Detail G, sheet L4.2 XCZ-PRB-100-COM I" drip valve kit.. Detail E, sheet L4.2 Rainbird XCZ-100-COM I" drip valve kit with TBOS-II battery operated controller. Install a single TBOS2CM2 2-station controller in valve box of BI per and wire to valves per manufacturer's specifications. Securely mount to inside of valve box for ease of access. Contractor to include TBOS2FTUS field transmitter and provide to the City with all instruction manuals. 33-DLRC Quick Coupler. Detail C sheet L4.2 T-113 Gate Valve: Line size. Detail D, sheet L4.2 I" PEB Series Master Valve - detail F, sheet L4.2 FMIB I" Flow Sensor: See plan for size. Install per manufacturer's specifications. Detail F, sheet L4.2 C53000 Series 16 station pedestal mount controller model C53-16-51/C53-LR/LR-STUBBY/FMI.5 with communication options per the direction of the City of Lathrop. Install per manufacturer's specifications. Coordinate with Scott Daugs at 925-577-0534 at Calsense, final location to be Schedule 40 PVC Pressurized Mainline: See Plan for size. Detail H, sheet L4.2 \_\_\_ Approved Proposed location of mainline (not schematic) Schedule 40 PVC Lateral Line: See Plan for size. Detail H, sheet L4.2 Schedule 40 PVC Sleeve (two per location) Where sleeves is installed under existing === Approved concrete backfill with sand and compact to match existing surrounding soil. Contractor to provide in the bid to bore under Rail Way to provide two 2" SCH 40 PVC sleeves with each containing one I" SCH 40 PVC lateral line (one for shrub irrigation and one for tree irrigation) Valve Callout -Valve Number -Valve Flow

#### GENERAL IRRIGATION NOTES

- 1. The contractor shall examine the conditions of the site prior to commencement of work. Any conditions that differ from what is shown on the plans that will affect the installation process shall be brought to the attention of the Landscape Architect and/or City prior to work. Commencement of work implies acceptance of the conditions of the site.
- 2. Piping layout is diagrammatic. All irrigation items shown within paved areas are for design clarification only and are to be installed in planting areas where possible. All valvés are to be placéd in shrub or groundcover areas (not D.G., aggrégate, cobble, or synthetic lawn).
- 3. All mainline piping and control wires under paving shall be installed in separate schedule 40 PVC sleeves. Sleeves to be installed at the size as indicated on the plans. Control wire sleeves shall be of sufficient size for the required number of wires. Provide two (2) piping sleeves at each location and min. one (1) control wire sleeve/conduit where needed. Piping and wiring to be in separate sleeves. See notes on sheet L2.2 for burring the sleeves under Rall Way. Contractor to locate and use existing sleeves to the greatest extent possible. If new sleeves need to be added under existing concrete, install the sleeves then backfill with sand and compact to match existing soil.
- 4. Pipe sizes shall conform to those shown on the drawings with no smaller size substitutions. Larger size substitutions may be approved.
- 5. All Backflow Prevention Devices and piping between the point of connection and Backflow Preventer shall be installed per Tocal codes. The final location of the Backflow Preventer and the Automatic Controller shall be approved by the City's Representative. The contractor is to verify the codes and requirements of all governing agencies. Any discrepancy between requirements and the plans are to be brought to the attention of the Land. Arch. immediately.
- 6. For the water connection at the existing fire hydrant on Iron Horse Trail coordinate with the City prior to work taking place. City will provide direction for tie-in.
- 7. 120 VAC electrical power source at the controller location shall be provided by the City of Lathrop. Contractor to coordinate with the City for electrical service panel location and location of the irrigation controller.
- 8. Prior to turnover of project, the irrigation contractor shall flush and adjust all valves and drip emitters to be adjusted to provide optimal water to each plant based on specific site conditions and water needs of each plant.
- 9. It is the responsibility of the Irrigation contractor to become familiar with all existing and proposed site elements and grades. The Irrigation contractor shall repair,

replace, or compensate for all items damaged by his work.

- 10. The irrigation system design is based on a minimum operating pressure of 45 PSI and a maximum flow demand of 8.0 GPM. The irrigation contractor shall verify water pressures prior to installation. Any difference between the pressure indicated on the plans and that at the actual point of connection shall be brought to the attention of the landscape architect immediately.
- 11. Any obstructions, changes in the project layout, or grade differences not shown on the plan but affecting the operation of the irrigation system are to be brought to the attention of the landscape architect prior to installation. The irrigation contractor shall be responsible for costs associated with correcting irrigation layout if plan is different from the site and he/she does not bring such differences to the attention of the landscape architect.
- 12. All irrigation equipment not detailed or specified shall be installed per the manufacturer's recommendations and specifications.
- 13. All drip tubing shall be installed 3" below grade. Emitters to be located 3" to 6" from the trunk of shrubs and equipped with a bug guard and galvanized tie-down stake.
- 14. Weather sensor/automatic rain shutoff shall be installed on existing street light adjacent to the controller location per manufacturer's specifications. It must be placed to receive unimpeded rain and free from vandalism.
- 15. An irrigation audit may be needed by the governing jurisdiction before an occupancy permit can be issued. It is the responsibility of the contractor to schedule and pay for the audit. The audit shall be conducted by a certified auditor. The contractor shall be responsible for making revisions to the irrigation in order to pass the audit.
- 16. There is existing irrigation equipment on site along Village Ave. that was installed and abandoned prior to completion. None of this equipment (with the exception of sleeves) is allowed to be used on the final product. All existing equipment and piping is to be completely removed from the site and disposed at an approved disposal facility with fees paid by the contractor. The existing sleeves may remain and be

#### WATER EFFICIENT LANDSCAPE ORDINANCE

Planting and Irrigation have been designed to be compliant with the Water Efficient Landscape Ordinance. The contractor shall not make substitutions of Irrigation product or placement of product or plant species and cultivars without written consent of the Landscape Architect. The contractor shall be responsible for making all modifications to ensure the requirements of the Water Efficient Landscape Ordinance are met if any changes are made. Water use calculations as described on these plans must be met. The signature on this plan concurs that "I have complied with the criteria of the water conservation in Landscaping Ordinance and applied them accordingly for the efficient use of water in the irrigation and planting design plan."



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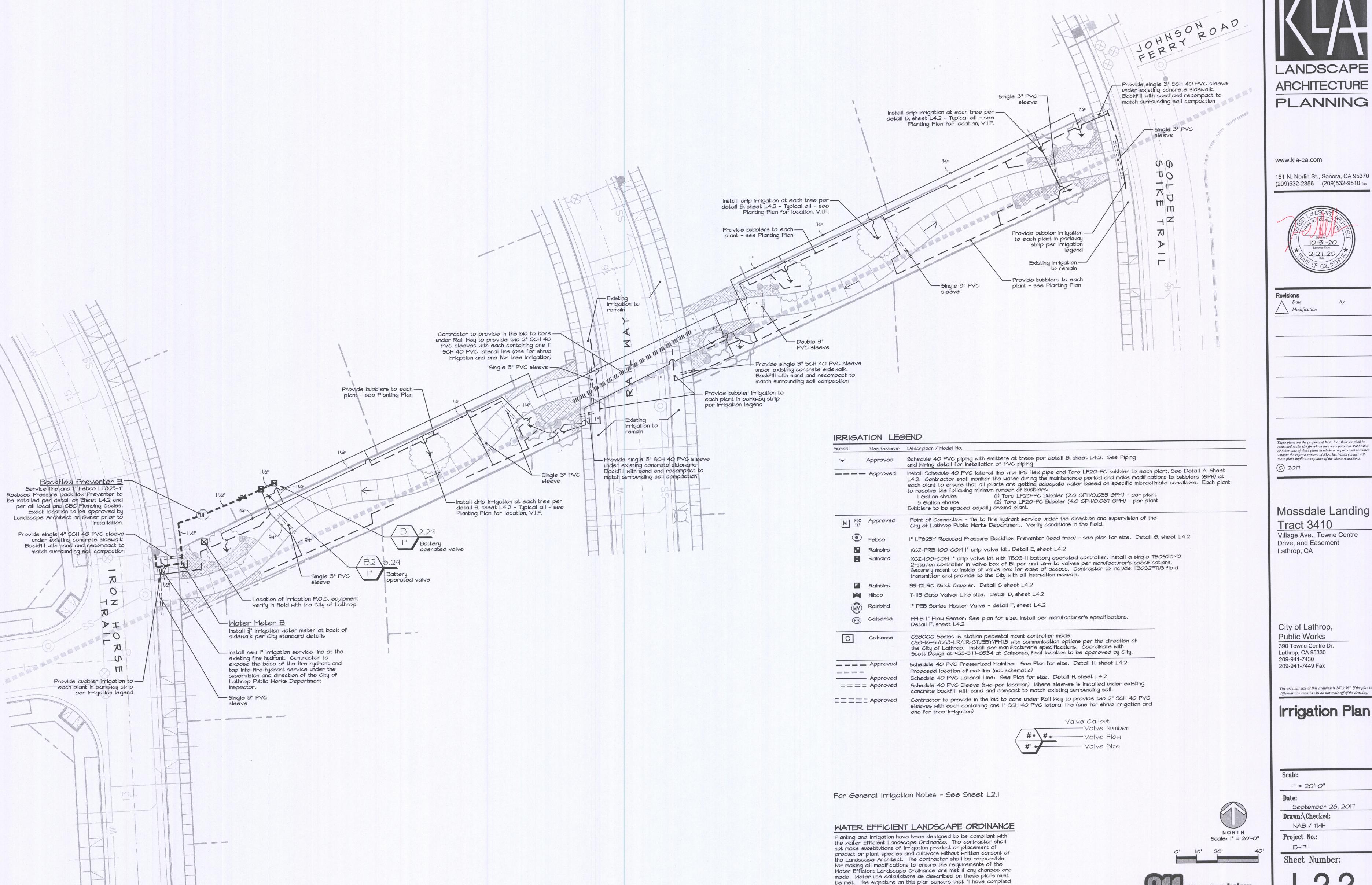
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## Irrigation Plan

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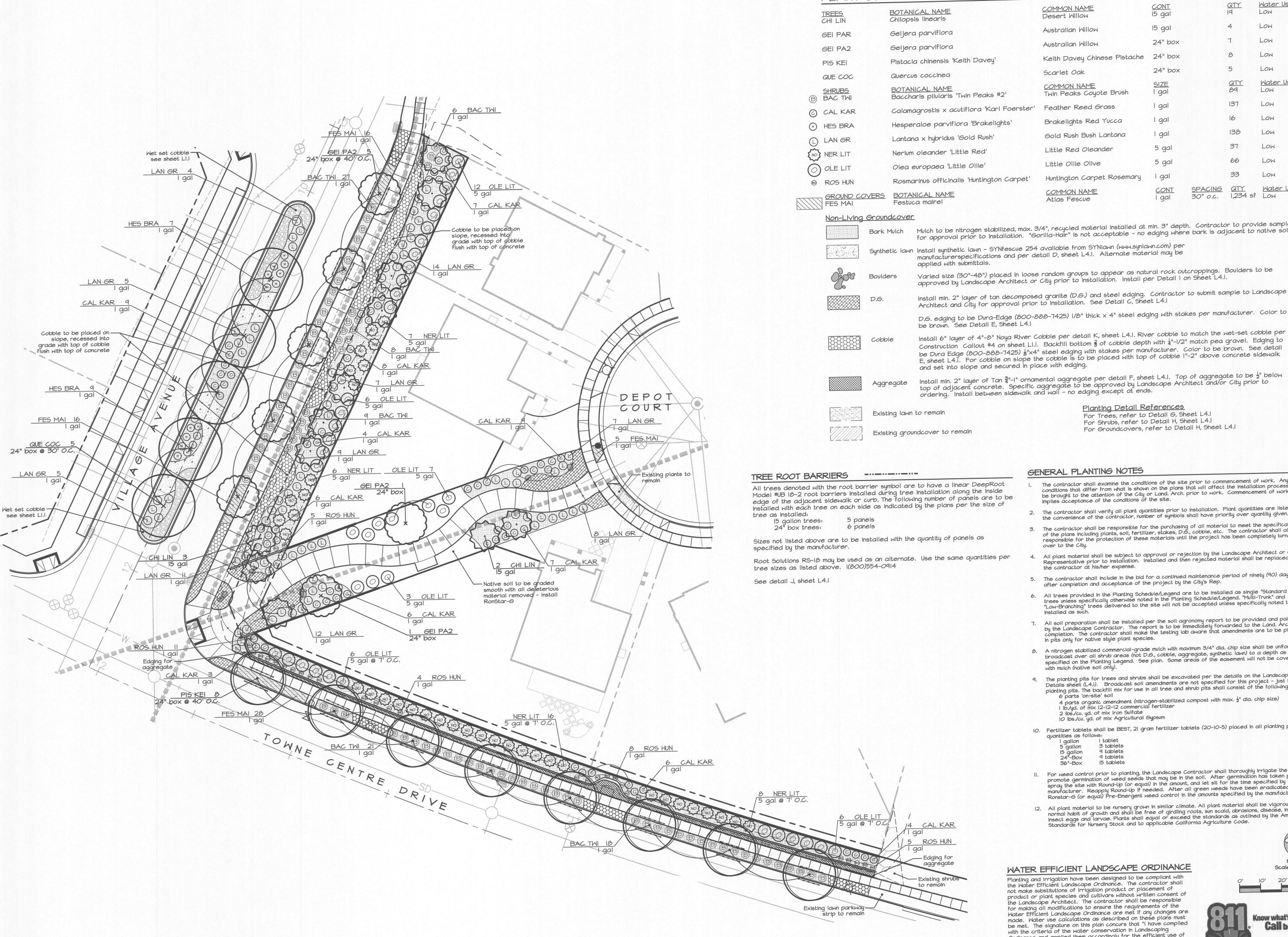
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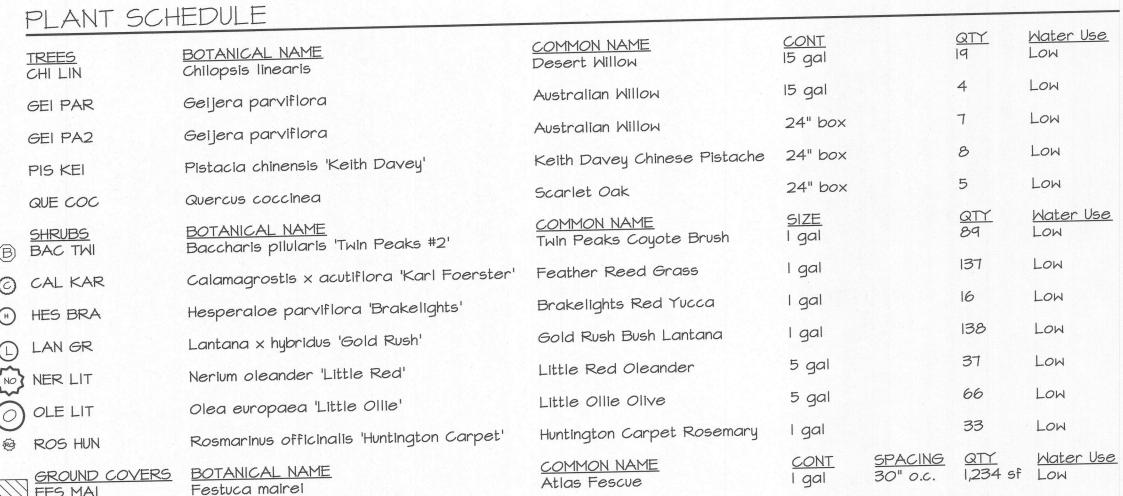
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# Irrigation Plan

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Mulch to be nitrogen stabilized, max. 3/4", recycled material installed at min. 3" depth. Contractor to provide sample for approval prior to installation. "Gorilla-Hair" is not acceptable - no edging where bark is adjacent to native soil

manufacturerspecifications and per detail D, sheet L4.1. Alternate material may be applied with submittals. Varied size (30"-48") placed in loose random groups to appear as natural rock outcroppings. Boulders to be

approved by Landscape Architect or City prior to installation. Install per Detail I on Sheet L4.1. Install min. 2" layer of tan decomposed granite (D.G.) and steel edging. Contractor to submit sample to Landscape Architect and City for approval prior to installation. See Detail C, Sheet L4.1

D.G. edging to be Dura-Edge (800-888-7425) 1/8" thick  $\times$  4" steel edging with stakes per manufacturer. Color to be brown. See Detail E, Sheet L4.1

Install 6" layer of 4"-8" Noya River Cobble per detail K, sheet L4.1. River cobble to match the wet-set cobble per Construction Callout #4 on sheet Ll.I. Backfill bottom of cobble depth with 4"-1/2" match pea gravel. Edging to be Dura Edge (800-888-7425) #"x4" steel edging with stakes per manufacturer. Color to be brown. See detail E, sheet L4.1. For cobble on slope the cobble is to be placed with top of cobble 1"-2" above concrete sidewalk and set into slope and secured in place with edging.

Planting Detail References

For Trees, refer to Detail G, Sheet L4.1

For Shrubs, refer to Detail H, Sheet L4.1

For Groundcovers, refer to Detail H, Sheet L4.1

GENERAL PLANTING NOTES

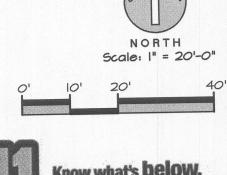
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- The contractor shall verify all plant quantities prior to installation. Plant quantities are listed for the convenience of the contractor, number of symbols shall have priority over quantity given.
- 3. The contractor shall be responsible for the purchasing of all material to meet the specifications of the plans including plants, soil, fertilizer, stakes, D.G., cobble, etc. The contractor shall also be responsible for the protection of these materials until the project has been completely turned over to the City.
- All plant material shall be subject to approval or rejection by the Landscape Architect or City's Representative prior to installation. Installed and then rejected material shall be replaced by the contractor at his/her expense.
- 5. The contractor shall include in the bid for a continued maintenance period of ninety (90) days after completion and acceptance of the project by the City's Rep.
- All trees provided in the Planting Schedule/Legend are to be installed as single "Standard Form" trees unless specifically otherwise noted in the Planting Schedule/Legend. "Multi-Trunk" and "Low-Branching" trees delivered to the site will not be accepted unless specifically noted to be
- All soil preparation shall be installed per the soil agronomy report to be provided and paid for by the Landscape Contractor. The report is to be immediately forwarded to the Land. Arch. upon completion. The contractor shall make the testing lab aware that amendments are to be placed in pits only for native style plant species.
- 8. A nitrogen stabilized commercial-grade mulch with maximum 3/4" dia. chip size shall be uniformly broadcast over all shrub areas (not D.G., cobble, aggregate, synthetic lawn) to a depth as specified on the Planting Legend. See plan. Some areas of the easement will not be covered with mulch (native soil only).
- 9. The planting pits for trees and shrubs shall be excavated per the details on the Landscape Details sheet (L4.1). Broadcast soil amendments are not specified for this project - just the planting pits. The backfill mix for use in all tree and shrub pits shall consist of the following:
  - 4 parts organic amendment (nitrogen-stabilized compost with max.  $\frac{1}{2}$ " dia. chip size) I lb./yd. of mix 12-12-12 commercial fertilizer 2 lbs./cv. yd. of mix Iron Sulfate 10 lbs./cv. yd. of mix Agricultural Gypsum
- 10. Fertilizer tablets shall be BEST, 21 gram fertilizer tablets (20-10-5) placed in all planting pits in quantities as follows:

I gallon 5 gallon 15 gallon 24"-Box 3 tablets 9 tablets 9 tablets 15 tablets 36"-Box

- II. For weed control prior to planting, the Landscape Contractor shall thoroughly irrigate the site to promote germination of weed seeds that may be in the soil. After germination has taken place spray the site with Round-Up (or equal) in the amount, and let sit for the time specified by the manufacturer. Reapply Round-Up If needed. After all green weeds have been eradicated, apply Ronstar-6 (or equal) Pre-Emergent weed control in the amounts specified by the manufacturer.
- 12. All plant material to be nursery grown in similar climate. All plant material shall be vigorous and of normal habit of growth and shall be free of girdling roots, sun scald, abrasions, disease, insects, insect eggs and larvae. Plants shall equal or exceed the standards as outlined by the American Standards for Nursery Stock and to applicable California Agriculture Code.



Planting and Irrigation have been designed to be compliant with the Water Efficient Landscape Ordinance. The contractor shall not make substitutions of Irrigation product or placement of product or plant species and cultivars without written consent of the Landscape Architect. The contractor shall be responsible for making all modifications to ensure the requirements of the Water Efficient Landscape Ordinance are met if any changes are made. Water use calculations as described on these plans must be met. The signature on this plan concurs that "I have complied with the criteria of the water conservation in Landscaping Ordinance and applied them accordingly for the efficient use of water in the irrigation and planting design plan."



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Drive, and Easement

Lathrop, CA

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The original size of this drawing is 24" x 36". If the plan is different size than 24x36 do not scale off of the drawing.

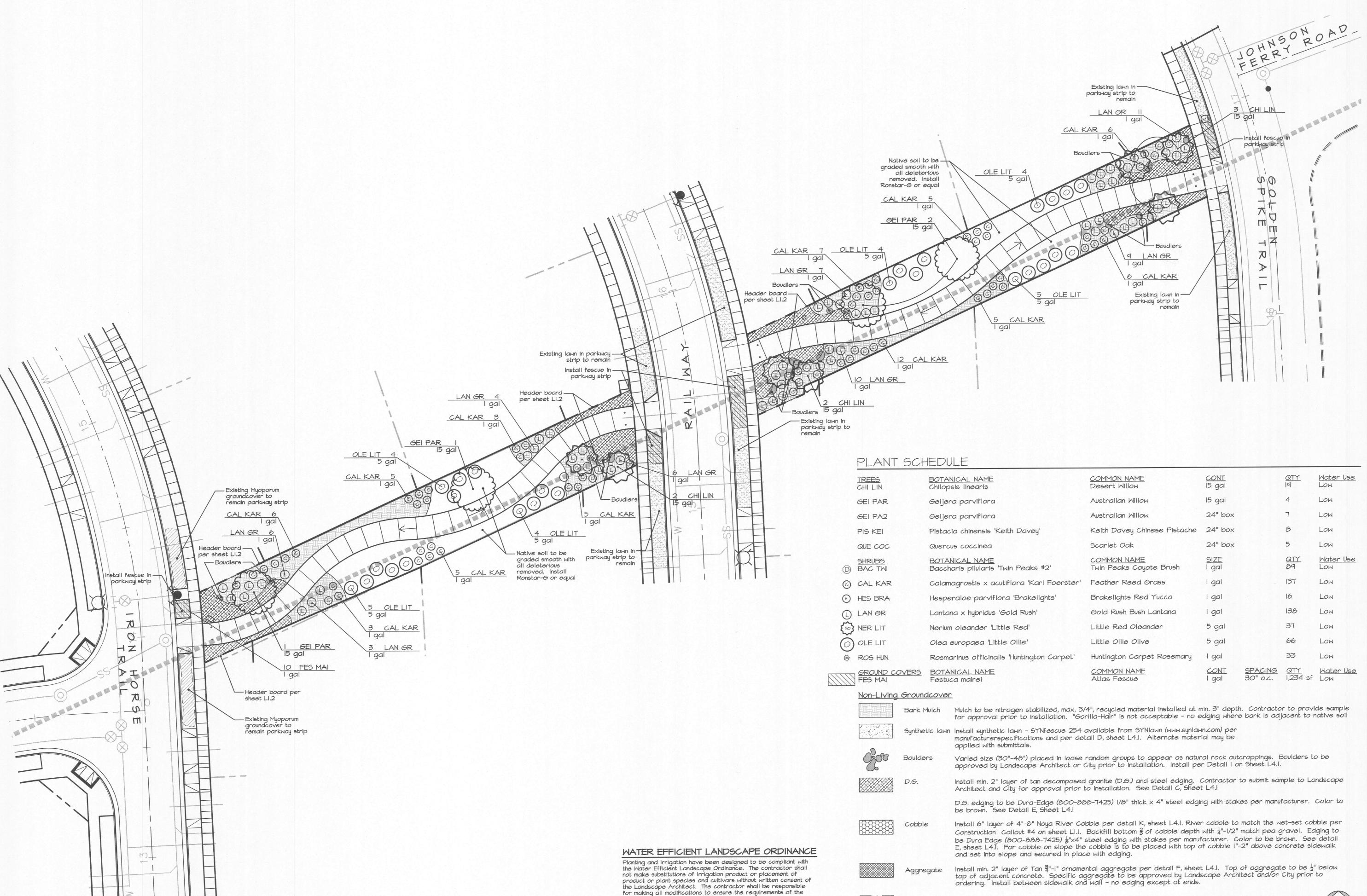
Planting Plan

Scale:

|" = 20'-0"

September 26, 2017 Drawn:\Checked: NAB / TWH

Project No.: 15-1711 Sheet Number:



Water Efficient Landscape Ordinance are met if any changes are

made. Water use calculations as described on these plans must

be met. The signature on this plan concurs that "I have complied

Ordinance and applied them accordingly for the efficient use of

with the criteria of the water conservation in Landscaping

water in the irrigation and planting design plan."

Existing lawn to remain

For General Planting Notes - See Sheet L3.1

Existing groundcover to remain

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## Planting Plan

Scale:

1" = 20'

Date:
September 26, 2017

Drawn:\Checked:

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Project No.:

Sheet Number:

L3.2

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NORTH

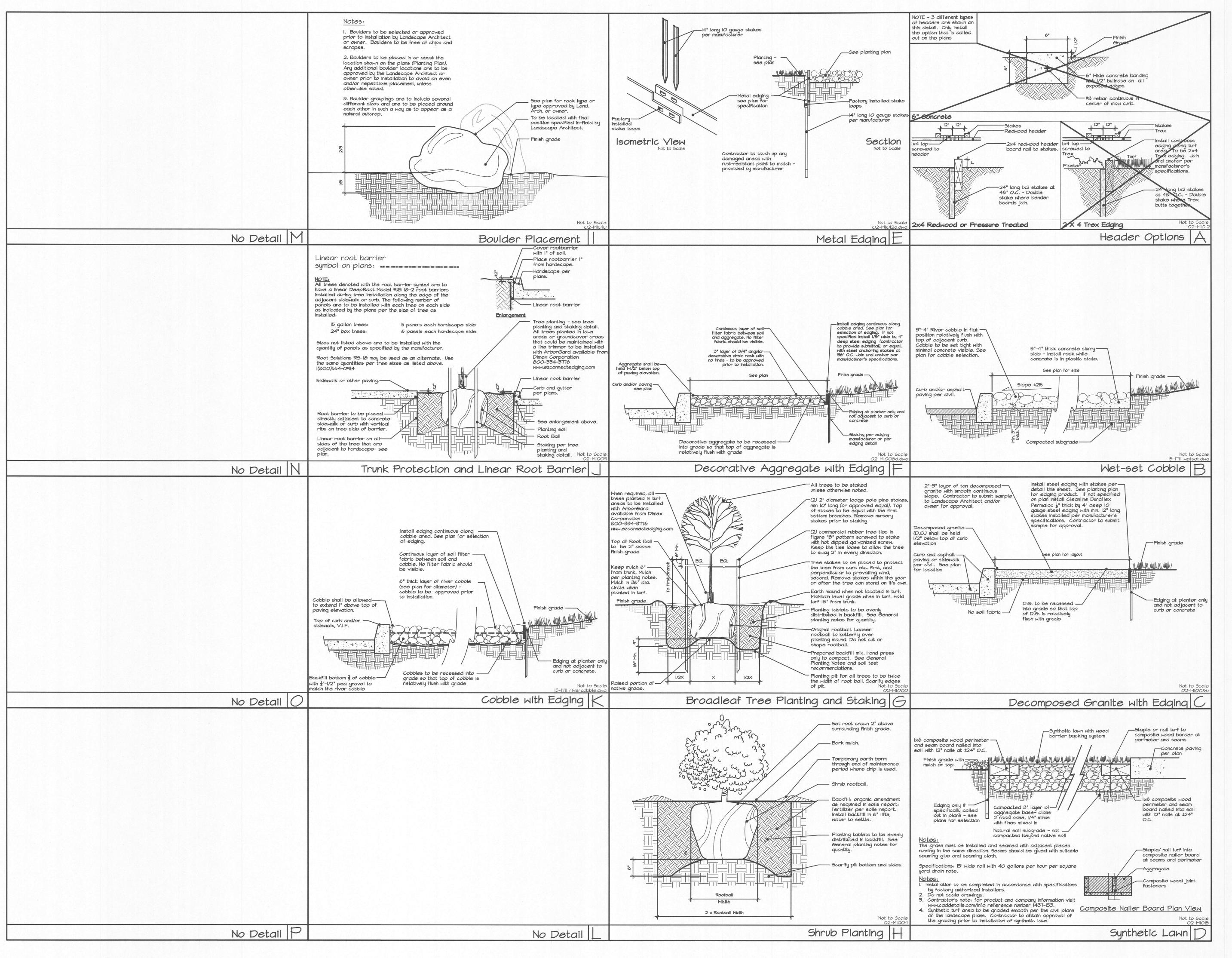
Scale: |" = 20'-0"

Planting Detail References

For Trees, refer to Detail G, Sheet L4.1

For Shrubs, refer to Detail H, Sheet L4.1

For Groundcovers, refer to Detail H, Sheet L4.1





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## Landscape Details

Scale:

See details

Date:

September 26, 2017

Drawn:\Checked:

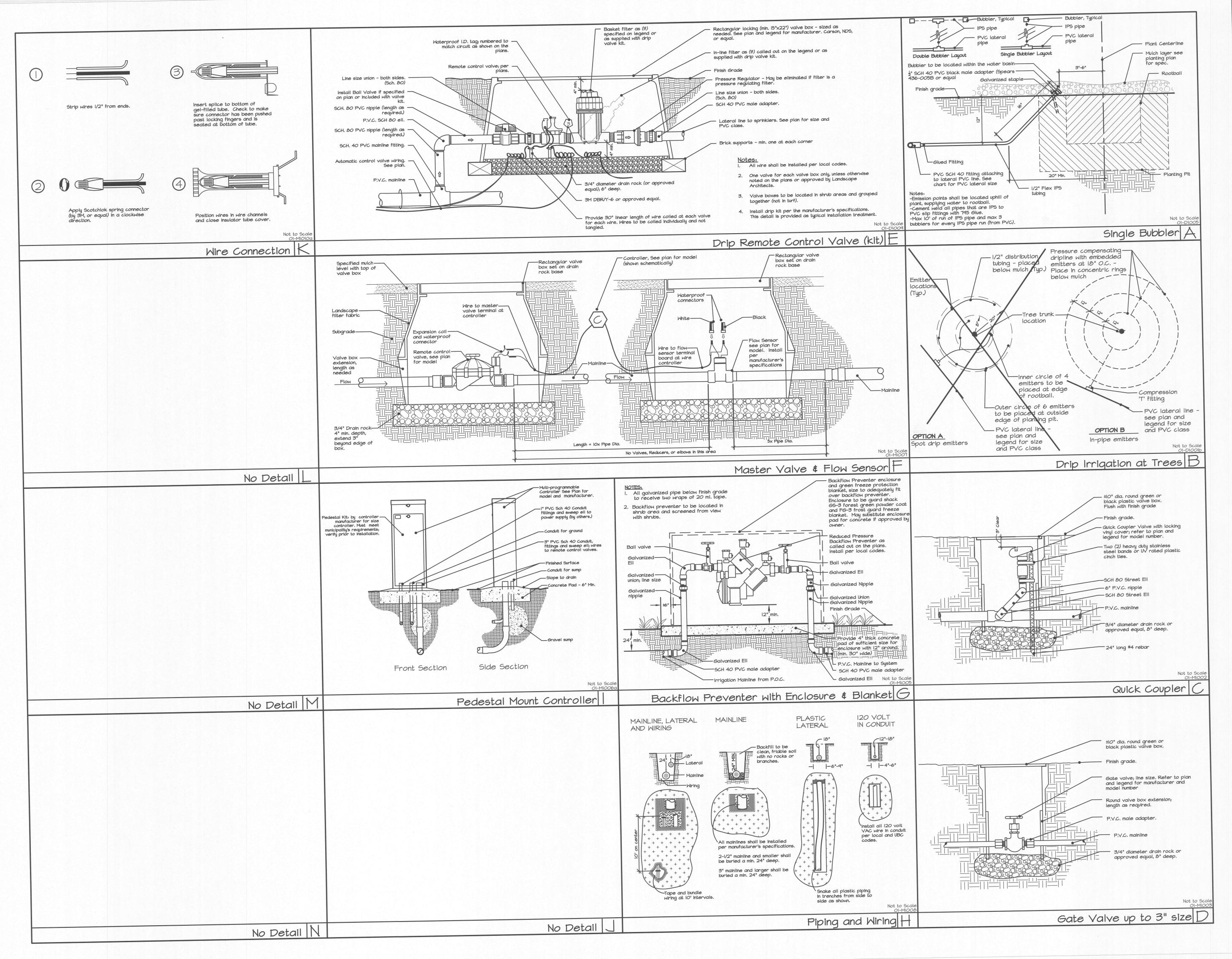
NAB / TWH

Project No.:

15-1711

Sheet Number:

\_4.1





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## Landscape Details

Scale:
See details

Date:

September 26, 2017

Drawn:\Checked:

NAB / TWH

Project No.:

Sheet Number:

\_4.2

#### Water Efficient Landscape Ordinance (WELO) Notes:

- These plans have been prepared to be in compliance with the State-mandated Water Efficient Landscape Ordinance (WELO), which went into effect on December 1, 2015. The following notes reference the requirements of the ordinance and the responsibility of the contractor to install the landscape per the plans, details, and notes; provide the required documentation to the local agency; and provide follow-up correction as required to meet the water efficiency requirements.
- The landscape contractor shall coordinate with the local jurisdiction to determine who will review and receive the WELO documentation that is required to be provided by

#### Landscape Documentation Package

- Project information and signatures The signature of the landscape architect on these landscape plans is applicable to the statement - "I agree to the best of my ability to comply with the requirements of the water efficient landscape ordinance and submit a compléte Landscape Document Package".
- Water Efficient Landscape Worksheet See MÁWA and ETWU, as well as hydrozone information table on this sheet.
- Soil management report See Notes requirements as described below. 4. Landscape Design Plan - See Planting Plans and Details contained within this set of
- 5. Irrigation Design Plan See Irrigation Plans and Details contained within this set of
- 6. Grading Design Plan To be provided by the civil engineer See civil engineer's

#### Soil Management Report

- After mass grading the contractor shall provide for a soil analysis that shall comply with the requirements provided below. The analysis report is to be forwarded to the landscape architect, owner, and governing jurisdiction.
- Soil samples shall be collected in accordance with laboratory protocol including adequate sampling depth.
- At least one sample shall be provided for each 20,000 sf of landscape unless otherwise noted by the landscape architect. Samples shall be taken from different areas of the site as directed by the landscape architect. For multiple landscape installations (i.e. production home developments) a soil sampling rate of 1 in 7 lots or approximately 15%. Large landscape projects shall sample at a rate equivalent to 1 in
- 4. The Soil Analysis shall include the following:
  - Soil texture - Infiltration Rate (determined by lab test or soil texture infiltration rate table).
- Total soluble salts
- Sodium
- Percent organic mater - Recommendations for soil amendments, fertilizer, etc. for the type of landscape planting proposed.
- 5. Soil Analysis shall be conducted by an approved soil testing lab. The following are acceptable (but not required) labs: Sunland Analytical, 11419 Sunrise Gold Circle, Suite 10, Rancho Cordova, CA 95742, (916)852-8557, www.sunland-analytical.com. Soil and Plant Lab, 1101 S. Winchester Blvd., Suite G-173, San Jose, CA 95128,
- (408)727-0330, www.sollandplantlaboratory.com. Soil and Plant Lab, 4741 East Hunter Ave., Suite A, Anaheim, CA 92807, (714)282-8777, www.sollandplantlaboratory.com.
- 6. The recommendations of the soil analysis are to be implemented in the landscape soil preparation. The contractor shall provide documentation, prior to planting, verifying that recommendations have been implemented to the landscape architect and the governing jurisdiction.

#### Landscape Design (Planting)

- 1. The landscape has been designed and plants selected to be compliant with the requirements of the WELO. The contractor shall not make change's without written approval by the landscape architect. If the contractor deviates from the plan and it is not acceptable to the landscape architect, the contractor will be required to make changes at his/her expense to bring the landscape into compliance.
- Plants have been placed in 'hydrozones' of similar water use requirements. The extent of the hydrozones are delineated by the groups of irrigation circuits as listed in the Hydrozone Table, included with these plans.
- Turf is not allowed on slopes greater than 25% (4:1).
- Mulch is required in all planting area except for turf, creeping or rooting groundcovers, direct seeding applications, cobble areas, or other areas specifically noted on the plans. The mulch shall be a minimum of 3", but the depth as listed in the planting legend shall take priority.
- Stabilizing mulches shall be used on all slopes exceeding 4:1. See plan or coordinate with landscape architect. Soil amendments shall be incorporated per the soil report. Compost must be applied
- at a rate of 4 yards per 1,000 square feet of permeable area. Compacted soils must be transformed to a friable condition.
- 7. The signature on the landscape plans is applicable to the statement "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the landscape design plan."

#### Irrigation Design

- The Irrigation water service shall be on a separate meter or submeter than the domestic service, this is required for residential landscapes over 5,000 square feet and non-residential landscapes over 1,000 square feet. The irrigation controller (clock) shall be a 'smart' controller using evapotranspiration
- or soil moisture sensor data to automatically adjust run times based on landscape area water needs. The irrigation system has been designed for each emission device to operate within the manufacturer's recommended pressure range for optimal performance. If the
- water pressure at the service connection is different than what is shown on the plans the contractor shall notify the landscape architect prior to installation of the irrigation system. Contractor shall check available water pressure before any irrigation installation. Pressure regulation is required to ensure correct and efficient operation. 4. Pressure regulators or booster pumps shall be installed if needed to modify available pressure for the optimal performance of the irrigation emission devices. All emission
- devices must meet the American National Standards Institute Standard. See specifications on the plans and refer to note #3 above.
- A rain sensor shall be installed and tied to the controller See plan for selection. Gate valve(s) shall be installed directly downstream of the service connection(s).
- An approved backflow preventer shall be installed at the irrigation service connection. See plan. 8. Check valves shall be installed in all heads at the low points of a circuit where water
- within the piping may drain out of the head when the system is done operating See
- 9. Flow sensors shall be installed to detect and report high flow conditions for landscape areas greater than 5,000 square feet.
- 10. Master Valves shall be installed to prevent water waste in the event of breakage or vandalism to the irrigation system, except where sprinklers can be individually
- II. The irrigation circuits have been designed to correspond to the planting hydrozones. Changes to the irrigation layout and types of emission devices are not to be made without the written consent of the landscape architect. 12. The overall irrigation system has been designed to be a minimum of 75% efficient.
- Total water demand of established landscape has been designed to use less water than the Maximum Applied Water Allowance (MAWA). See Irrigation Schedule and Irrigation Water Audit Notes.
- 13. The irrigation system has been designed so that each circuit has matched precipitation rates within the circuit and high distribution uniformity. The contractor shall not substitute without written consent of the landscape architect.
- 14. Swing joints shall be installed on all pop-up heads per the plans and details. 15. Areas less than 10' in width have been irrigated with subsurface, drip, or low volume irrigation. If construction site modifications reduce spray irrigated planter areas less than 10' contact the landscape architect.
- 16. Overhead spray irrigation heads and nozzles are not allowed within 24" of non-permeable paving. This requirement does not apply to irrigation that is adjacent to permeable paving or non-permeable paving that drains into landscape before entering the storm drain system.
- 17. Sloped planting areas greater than 25% (4:1) have been designed with irrigation whose precipitation rate does not exceed .75"/hour, or another means has been employed and described on the plans.
- 18. Trees may be designed with a separate deep root bubbler system See the plans. 19. The signature on the irrigation plans is applicable to the statement - "I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the irrigation design plan."

- 1. See the grading and drainage plan as prepared by the civil engineer. The landscape contractor shall maintain the drainage patterns as specified in the grading plans. 2. The site has been graded so that irrigation and normal run-off remains within the
- property lines, unless otherwise noted on the grading plans. The landscape areas may include bioswales or filtration swales. The landscape contractor shall install these per the requirements of the civil engineer's plans and details with the planting per these plans. Any modifications must be approved in writing by the civil engineer and the landscape architect.

#### Irrigation Schedule

- See the irrigation base schedule as included with the irrigation plans and notes. This Is a guide - The landscape contractor may need to make modifications based on actual site and landscape conditions. Revised schedule shall be submitted with the Certificate of Completion.
- 2. Overhead irrigation shall be scheduled between 8:00PM and 10:00AM unless otherwise noted on the plans or more strict watering hours are required by the local
- The irrigation run times, length of run, and frequency of run times may need to be adjusted based on infiltration rate of the soil, slope, etc. to avoid run-off.
- 4. The specific parameters of the site conditions are to be input into the 'smart' controller.

#### Irrigation Audit

- All irrigation audits shall be conducted by a certified landscape irrigation auditor or local agency landscape irrigation auditor.
- The irrigation system shall be audited after it has been installed and 'fine-tuned'. The audit report is to be included with the Certificate of Completion and shall include, but not be limited to: - System test for distribution uniformity.
- Recommendations for any adjustments that may be needed. - Preparation of an irrigation schedule.
- The contractor shall make the adjustments as recommended in the irrigation audit.

#### Certificate of Completion

- The contractor shall provide to the governing jurisdiction and the landscape architect a Certificate of Completion that at a minimum includes the following: - Date of completion and date of the Certificate. - Project Name and Address (or specific location).
- Project Applicant name, telephone number, and mailing address. - Property owner name, telephone number, and mailing address.
- The landscape contractor shall sign a statement that says the landscape and irrigation has been installed per the approved Landscape Document Package (plans, details, notes, calculations as contained within this plan set.
- 3. If there have been modifications to the layout and/or design of the landscape and Irrigation, the contractor shall include with the Certificate of Completion a set of as-built plans or record drawings that reflect the modifications. The modified landscape and irrigation must remain in compliance with the WELO.
- 4. The Certificate of Completion shall include the initial irrigation audit that shows the irrigation is in compliance with the irrigation efficiency requirements of WELO (see audit information within this set of notes). The soil analysis report and recommendations and verification that the recommendations have been implemented shall also be submitted, If not included with the Landscape Documentation Package.

#### MAINTENANCE SCHEDULE

A regular maintenance schedule shall be set up for this project to provide for the health and growth of the plant material as well as the efficiency of the irrigation system. The following is a minimum list of items that are to be addressed and maintained on a regular basis.

- The irrigation system shall be maintained on a regular basis to ensure efficiency. All heads, valves, and other equipment shall be checked and adjusted to avoid overspray. All leaks are to be repaired as soon as possible. Replaced and repaired irrigation equipment is to be done with originally specified equipment or equipment with matching precipitation rates.
- 2. Irrigation emission devices are to be checked and repaired as needed to ensure minimal overspray, no leaks, and efficient operation. Drip emission devices (emitters) may need to be adjusted as the planting matures and the water needs change. Emitters are to be reviewed annually (at a minimum) with replacements provided for plants that may be getting to much or too
- The controller is to be checked and adjusted as needed to ensure there is minimal run-off while meeting the water requirements of the plants.
- Shrubs and trees are to be pruned to maintain form and remove dead or dying branches. Trees are to be pruned for form and safety and suckering is to be removed on a regular basis.
- 5. A regular program of weed and pest control is to be established and followed. Pesticides and herbicides are to be applied only when needed and by a state licensed professional.
- Bark mulch is to be reapplied as needed to ensure full coverage to maintain water retention in the soil and deter weed growth - see plan for depth of mulch.

#### WATER EFFICIENT LANDSCAPE ORDINANCE

Planting and irrigation have been designed to be compliant with the Water Efficient Landscape Ordinance. The contractor shall not make substitutions of Irrigation product or placement of product or plant species and cultivars without written consent of the Landscape Architect. The contractor shall be responsible for making all modifications to ensure the requirements of the Water Efficient Landscape Ordinance are met if any changes are made. Water use calculations as described on these plans must be met. The signature on this plan concurs that "I have complied with the criteria of the water conservation in Landscaping Ordinance and applied them accordingly for the efficient use of water in the irrigation and planting design plan."

#### Hydrozone Table and ETMU - A

Annual ETo for Lathrop - 51.2

rnam	ental La	ndscape							Irria.	
tydro-			lilah on He o	Plant Factor	Hydrozone Area (savare feet)	ETAF	ETAF x Area (square feet)	Type of Irrigation	effic.	ETMU
zone	Valves	Planting Type	Water Use	ractor	· · ·			Bubblers	.81	135,394.0
ı	Al-A6	Shrubs	LOW	.3	11,516 sf	.37	4265.2	Dubble! 9		
ı	AI / NO	3111 000			1 000	.37	296.3	Drip Emitters	.81	9,405.6
2	A7	Trees	LOW	1.3	800 sf	.51	290.5	DI IP ZIIIIDO		
_	′ ′ ′			10	2506 cF	0	0	Stream Bubbler	1.0	0
3	NA	Agg/Syn Lawn	None	0	3,596 sf	0	0			

Tallal Communication	15,912 sf	4561	144,799.7 gal.
Total Ornamental	107.12		

15,912 sf Landscape Area - Ornamental Landscape 4,561 sf ETAF x Area - Ornamental Landscape

0.81 efficient Ornamental Landscape Irrigation Efficiency

Estimated Total Water Usage (ETWU) - No SLA 144,799.7 gallons 227,299.7 gallons

Maximum Applied Water Allowance (MAWA) MAWA = (ETo)(.62)((.45xLA)+(.55xSLA))

 $MAWA = 51.2 * .62 * ((.45 \times 15912) + (.55 \times ??))$ 

MAWA = 31.7 \*(7160.4) MAWA = 227,299.7

ETWU is less than MAWA - System meets Water Efficient Landscape Ordinance

#### Hydrozone Table and ETMU - B

Annual ETo for Lathrop - 51.2

#### Ornamental Landscape

Hydro-		Stanting Tues	Water Use	Plant Factor	Hydrozone Area (savare feet)	ETAF	ETAF × Area (square feet)	Type of Irrigation	Irrig. effic.	ETWU
zone	Valves	Planting Type		2	6,345 sf	.25	1,566.7	Bubblers	.81	49,732.3
	BI	Shrubs	Low	.2				Drip Emitters	.81	3,233.2
2	B2	Trees	Low	.3	275 sf	.37	101.9	Drip Linicial's		

Total Ornamental	6,620 sf	1,668.6	52,965.5 gal.
Landscape Area - Ornamental Landscape	6,620 sf		

52,965.5 gallons

94,565.4 gallons

1,668.6 sf ETAF x Area - Ornamental Landscape 0.81 efficient Ornamental Landscape Irrigation Efficiency

Maximum Applied Water Allowance (MAWA) MAWA = (ETO)(.62)((.45xLA)+(.55xSLA))

Estimated Total Water Usage (ETWU) - No SLA

 $MAWA = 51.2 * .62 *((.45 \times 6620) + (.55 \times ??))$ 

MAWA = 31.7 \*(2979.0) MAWA = 94,565.4

ETWU is less than MAWA - System meets Water Efficient Landscape Ordinance

#### Irrigation Valve Table

Valve #	Hydro- zone	Size	Planting Type	Irrigation Type	Irrig. effic.	Precip. Rate	GPM	Pressure
Al	1	Į II	Shrubs	Bubblers	.81	1.00	1.23	20
A2	i	1"	Shrubs	Bubblers	.81	1.00	4.90	20
A3	1	1"	Shrubs	Bubblers	.81	1.00	1.96	20
A4	1		Shrubs	Bubblers	.81	1.00	2.83	20
A5	1		Shrubs	Bubblers	.81	1.00	3.76	20
A6	1	1111	Shrubs	Bubblers	.81	1.00	2.23	20
A7	2	1"	Trees	Drip Emitters	.81	1.00	6.67	20
BI	1		Shrubs	Bubblers	.81	1.00	2.29	20
B2	2	10	Trees	Drip Emitters	.81	1.00	6.29	20

#### Establishment Period Irrigation Schedule

This schedule is based on providing irrigation to keep the soil extra moist as needed to promote root growth for plant establishment. Specific microclimate conditions and observed water needs, soil, slope, sun exposure, etc. will require adjustment of this schedule in the field to meet the unique needs of each circuit. Controller is to be connected to weather sensor and will adjust schedule (run times) automatically after the optimal schedule has been set. Winter Hudrozone Circuite Diant Material

Hydrozone	Circuits	Plant Material	Nov., Dec., Jan., Feb., March	April, May, Oct.	June, July, Aug., Sept.
1	Al-A6, Bl	Shrubs-Bubbler Low Water Use	O cycles/month of O minutes each	15 cycles/month of 30 minutes each	30 cycles/month of 25 minutes each
2	A7, B2	Trees-Root Drip	O cycles/month of O minutes each	15 cycles/month of 30 minutes each	30 cycles/month of 25 minutes each

#### Established Landscape Irrigation Schedule

This schedule is based on typical seasonal weather conditions. Specific microclimate conditions and observed water needs, soil, slope, sun exposure, etc. will require adjustment of this schedule in the field to meet the unique needs of each circuit. Controller is to be connected to weather sensor and will adjust schedule (run times) automatically after the optimal schedule has been set.

Hydrozone	Circuits	Plant Material	<b>Winter</b> Nov., Dec., Jan., Feb., March	Spring/Fall April, May, Oct.	Summer June, July, Aug., Sept.
1	Al-A6, Bl	Shrubs-Bubbler Low Water Use	O cycles/month of O minutes each	10 cycles/month of 30 minutes each	15 cycles/month of 40 minutes each
2	A7, B2	Trees-Root Drip	O cycles/month of O minutes each	10 cycles/month of 25 minutes each	15 cycles/month of 40 minutes each



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## WELO Calculations and Notes

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Project No.: 15-1711 Sheet Number: