

SCOPE OF WORK

IN GENERAL THE SCOPE OF WORK INCLUDES REMOVAL OF EXISTING TREES, SHRUBS, & MISCELLANEOUS ITEMS. PLANT NEW REPLACEMENT TREES AND SHRUBS. INSTALL PRE-EMERGENT HERBICIDE OVER SHRUB PLANTERS AND COVER WITH 3" LAYER OF WOOD MULCH. REPAIR LAWN IRRIGATION DAMAGED BY CONSTRUCTION WORK.

APPLICABLE CODES & STANDARDS

PART 1 - 2026 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE.
TITLE 24 C.C.R.
PART 2 - 2026 CALIFORNIA BUILDING CODE - TITLE 24 C.C.R.

CONSTRUCTION PROGRAM

A. THE CONTRACTOR SHALL IMPLEMENT A CONSTRUCTION PROGRAM THAT PREVENTS ILLICIT CONSTRUCTION-RELATED DISCHARGES OF POLLUTANTS INTO THE MS4. IMPLEMENTS AND MAINTAINS STRUCTURAL AND NON-STRUCTURAL BMPs TO REDUCE POLLUTANTS IN STORMWATER RUNOFF FROM CONSTRUCTION SITES, REDUCES CONSTRUCTION SITE DISCHARGES OF POLLUTANTS FROM THE MS4 TO THE MEP, AND PREVENTS CONSTRUCTION SITE DISCHARGES FROM THE MS4 FROM CAUSING OR CONTRIBUTING TO A VIOLATION OF WATER QUALITY STANDARDS.

1. BMP IMPLEMENTATION - CONSTRUCTION SITES LESS THAN ONE ACRE
THE CONTRACTOR SHALL REQUIRE THE IMPLEMENTATION OF AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROL BMP'S FROM THE COUNTY OF VENTURA STORMWATER QUALITY MANAGEMENT PROGRAM BEST MANAGEMENT PRACTICES FOR CONSTRUCTION SITES LESS THAN ONE ACRE.

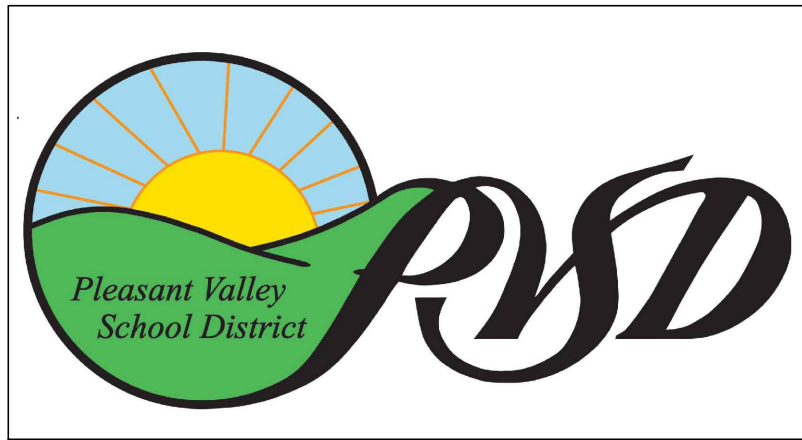
BMPs AT CONSTRUCTION SITES LESS THAN 1 ACRE

EROSION CONTROL FOR BMPs		YES	NO	REASON FOR NO
EC-1 OR SS-1	SCHEDULING	☒	☐	
EC-2 OR SS-2	PRESERVATION OF EXISTING VEGETATION	☐	☒	NO EXISTING VEGETATION
TEMPORARY SEDIMENT CONTROL BMPs				
SE-1 OR SC-1	SILT FENCE	☒	☐	
SE-8 OR SC-8	SANDBAG BARRIER	☒	☐	
TEMPORARY TRACKING CONTROL BMPs				
TC-1	STABILIZED CONSTRUCTION ENTRANCE/EXIT	☒	☐	
NON-STORMWATER MANAGEMENT BMPs				
NS-1	WATER CONSERVATION PRACTICES	☒	☐	
NS-2	DEWATERING OPERATIONS	☐	☒	NO EXCAVATION EXPECTED
WASTE MANAGEMENT & MATERIALS POLLUTION CONTROL BMPs				
WM-1	MATERIAL DELIVERY & STORAGE	☒	☐	
WM-3	STOCKPILE MANAGEMENT	☒	☐	
WM-4	SPILL PREVENTION & CONTROL	☒	☐	
WM-5	SOLID WASTE MANAGEMENT	☒	☐	
WM-8	CONCRETE WASTE MANAGEMENT	☒	☐	
WM-9	SANITARY/SEPTIC WASTE MGMT	☒	☐	
ADDITIONAL BMPs SELECTED				
		☐	☐	
		☐	☐	

PONDED STORM WATER MAY BE DISCHARGED AT A CONCENTRATION OF TOTAL SUSPENDED SOLIDS (TSS) OF 100 MG/L OR LESS

ABBREVIATIONS

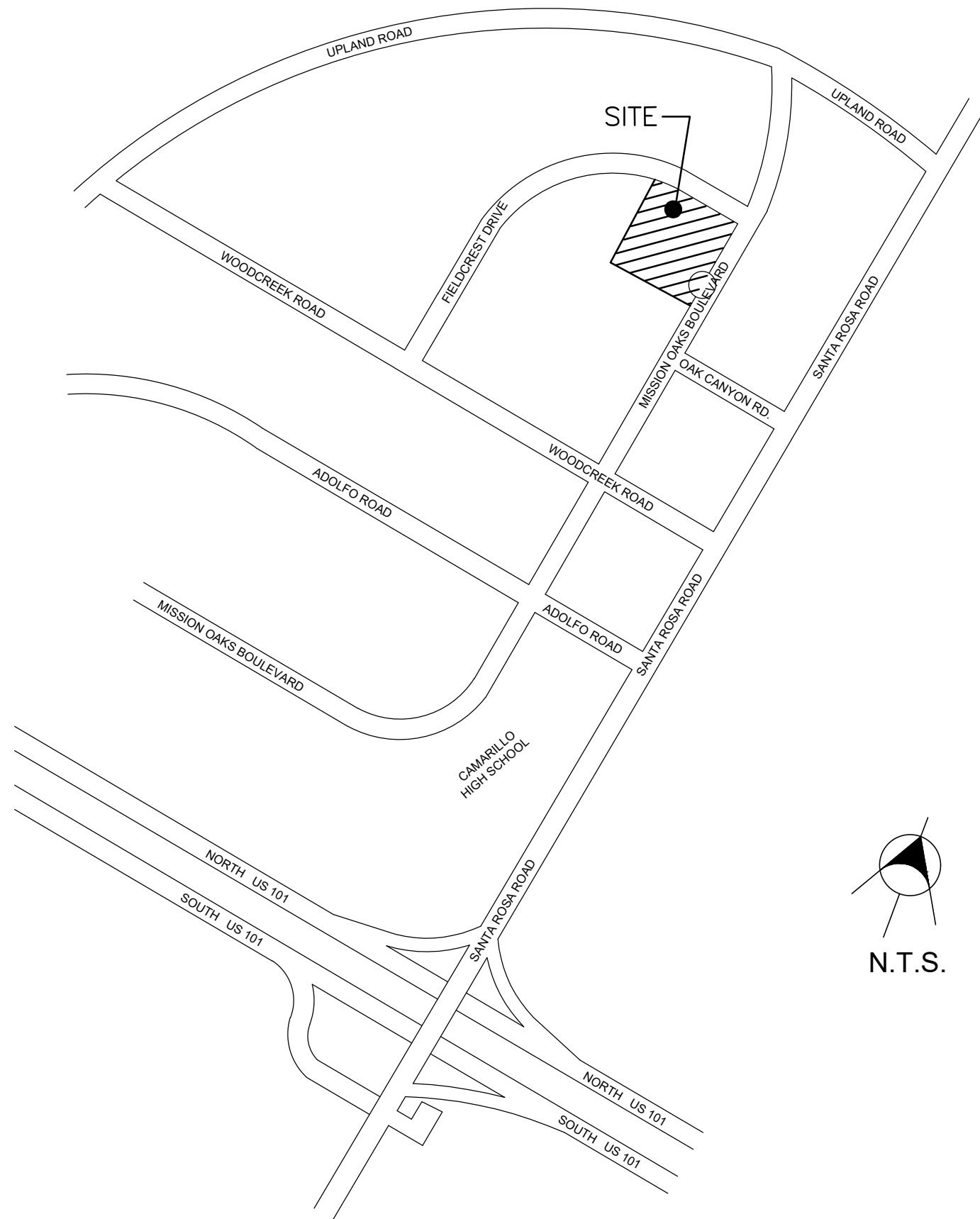
A.B.-	ANCHOR BOLT	GA-	GAUGE
BLKG.-	BLOCKING	GAL-	GALVANIZED
B.J.-	BALCONY JOISTS	HORZ-	HORIZONTAL
BLK.-	BLOCK	L.L.V.-	LONG LEG VERTICAL
BM.-	BEAM	L.L.H.-	LONG LEG HORIZONTAL
B.N.-	BOUNDRY NAIL	MAX-	MAXIMUM
(B)-	BOTTOM	MIN-	MINIMUM
CLR-	CLEAR	M.L.-	MACHINE BOLT
CMU-	CONCRETE MASONRY	(N)-	NEW
COL-	COLUMN	NTS-	NOT TO SCALE
C.J.-	COLD JOINT	O.C.-	ON CENTER
CONC.-	CONCRETE	OPP.-	OPPOSITE
CONN.-	CONNECTION	R.J.-	ROOF JOIST
CONT.-	CONTINUOUS	R.B.-	ROOF BEAM
C TO C-	CENTER TO CENTER	REF.-	REFERENCE
CNTRS NK-	COUNTERSINK	P.R.T.-	PREFAB ROOF TRUSSES
DBL-	DOUBLE	P.O.T.-	PATH OF TRAVEL
DIAM-	DIAMETER	REINF.-	REINFORCING STEEL
D.F.-	DOUGLAS FIR	SEL. STR.-	SELECT STRUCTURAL
DRWGS-	DRAWINGS	SHTG.-	SHEATHING
(E)-	EXISTING	STAG-	STAGGER
EA.-	EACH	SIM.-	SIMILAR
ELEV-	ELEVATION	S.L.-	SCORE LINE
FLG.-	FLANGE	STD.-	STANDARD
E.J.-	EXPANSION JOINT	STL-	STEEL
FL-	FLOOR	TYP.-	TYPICAL
FIN-	FINISH	(T)-	TOP
F.F.-	FLOOR JOISTS	TOS-	TOP OF SHEATHING
FORM-	FACE OF MASONRY	T.S.-	TUBE SECTION
FOS-	FACE OF STUD	U.O.N.-	UNLESS OTHERWISE NOTED
FOC-	FACE OF CONCRETE	W or WF-	WIDE FLANGE SHAPE
HD-	SIMPSON HOLDDOWN	W/O-	WITHOUT
HT.-	HEIGHT	VERT.-	VERTICAL



LAS COLINAS MIDDLE SCHOOL
LANDSCAPE RENOVATION

5750 FIELDCREST DRIVE
CAMARILLO, CA 93012

VICINITY MAP



SCHEDULE OF DRAWINGS

SHEET NO.	SHEET REFERENCE	SHEET TITLE
1	L0.1	COVER SHEET
2	L1.1	EXISTING CONDITIONS & REMOVALS PLAN
3	L2.1	IRRIGATION PLAN
4	L2.2	IRRIGATION DETAILS & NOTES
5	L3.1	PLANTING PLAN

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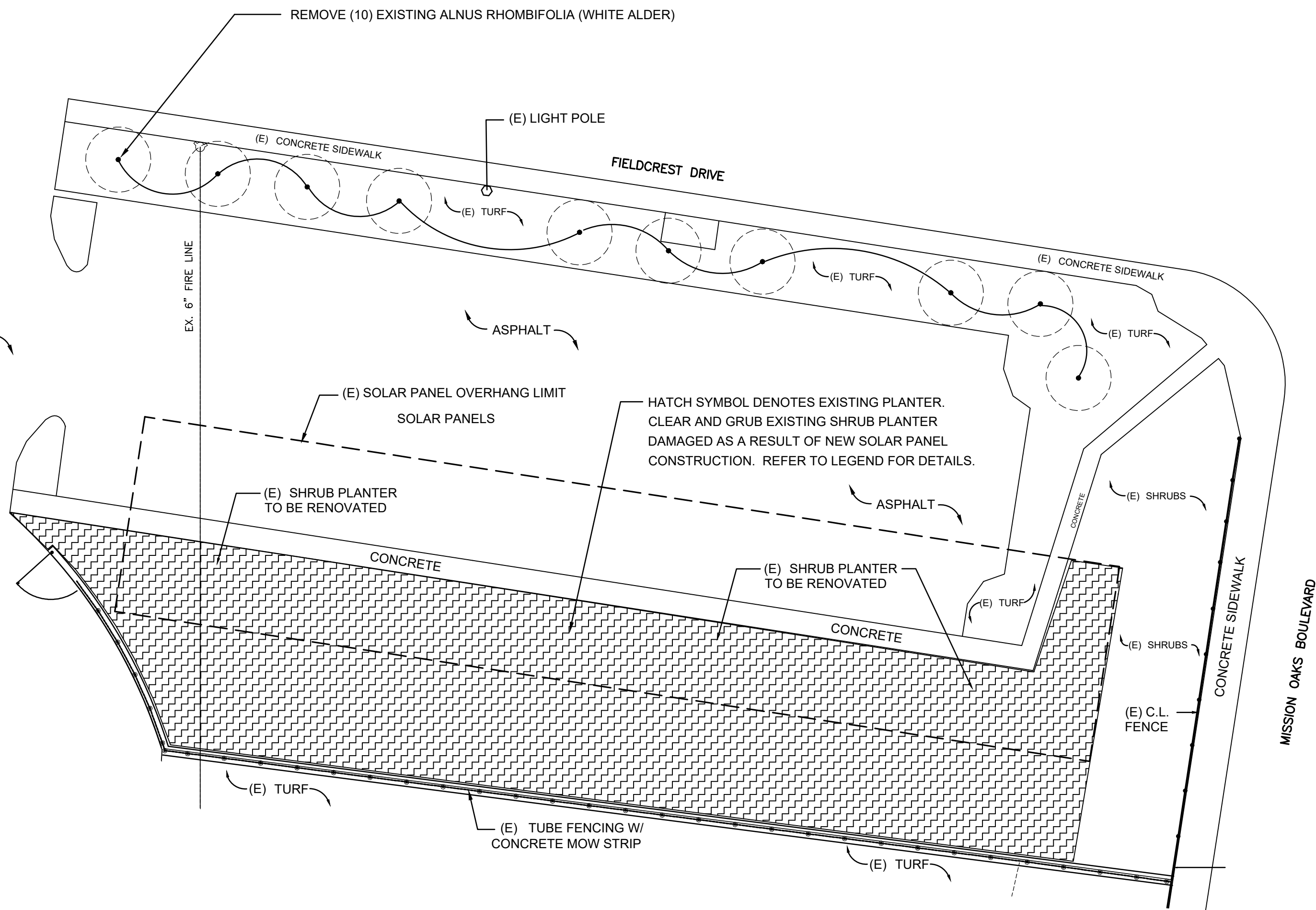
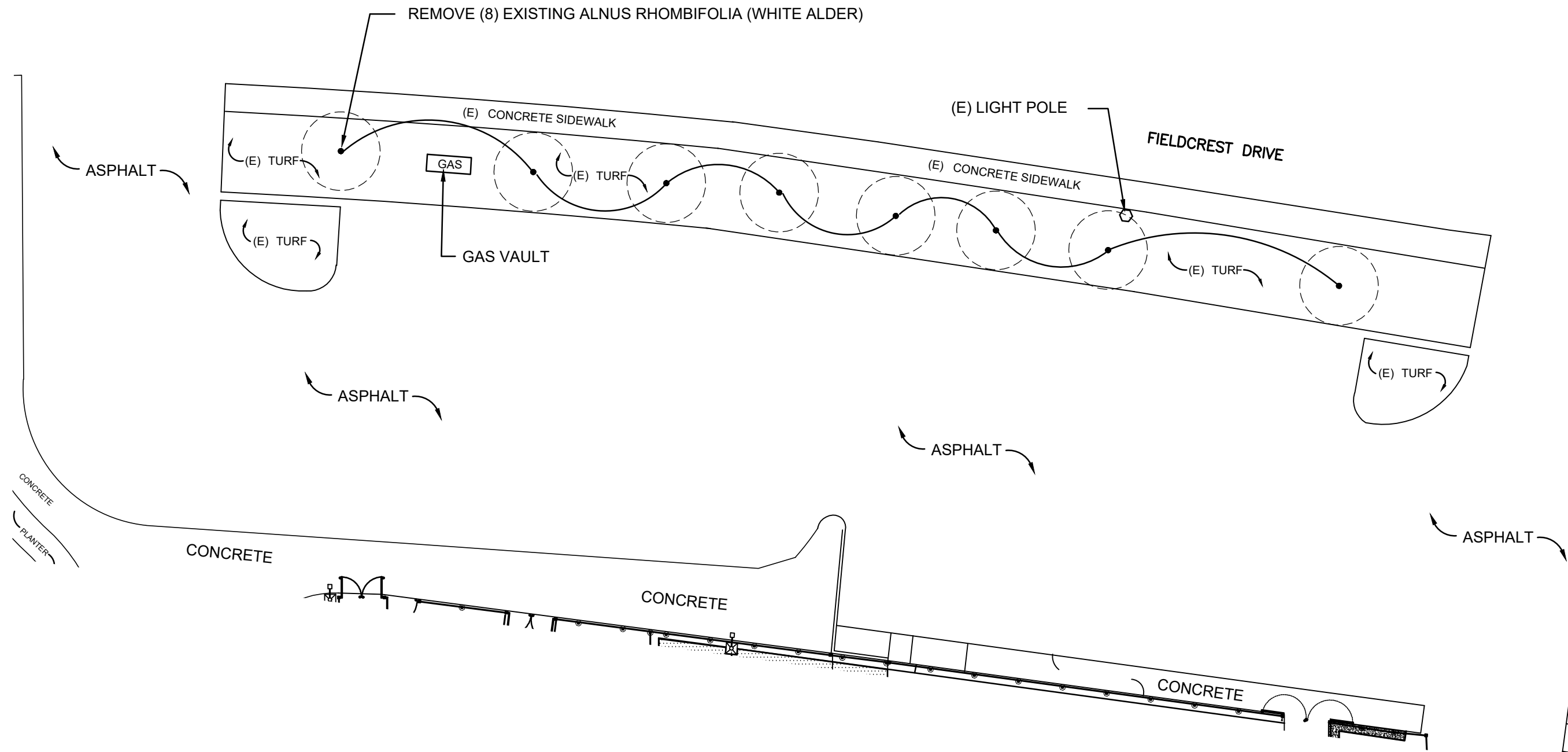
CLIENT
PLEASANT VALLEY
SCHOOL DISTRICT
600 Temple Avenue
Camarillo, CA. 93010

SHEET TITLE
COVER SHEET

PROJECT
Las Colinas Middle School
5750 Fieldcrests Drive
Camarillo, CA 93012

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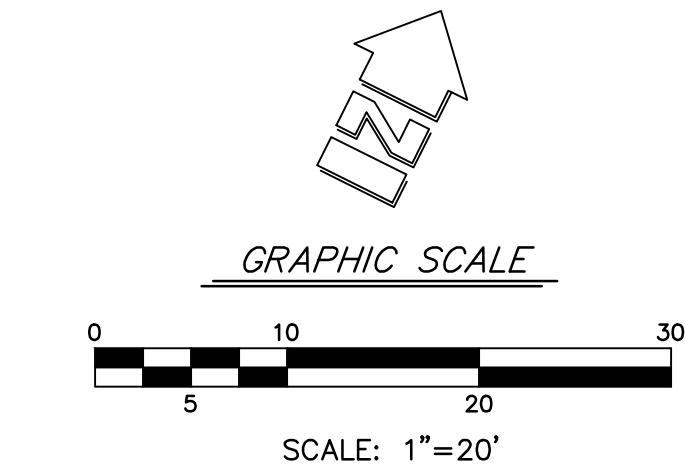
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SHEET 1 OF 5
PROJECT No. 25.08



LANDSCAPE REMOVALS LEGEND

SYMBOL	BOTANICAL NAME / COMMON NAME	QUANTITY	DESCRIPTION
	EXISTING TREES: ALNUS RHOMBIFOLIA STANDARD SINGLE TRUNK / WHITE ALDER	18	REMOVE AS PER PLAN

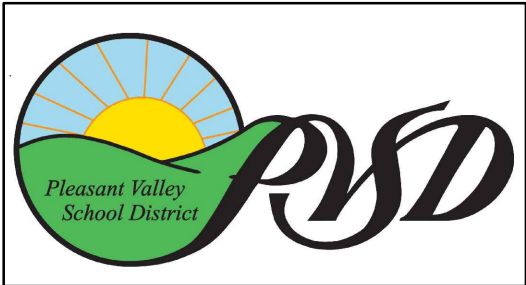
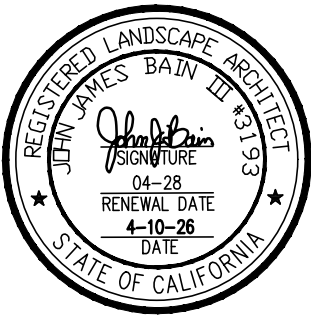
SYMBOL	AREA	DESCRIPTION
	9,400 SF	CLEAR AND GRUB EXISTING SHRUB PLANTING AREA: CLEAR AND GRUB ANY EXISTING / REMAINING VEGETATION. FINE GRADE EXPOSED SOIL TO A SMOOTH UNIFORM SURFACE WITH POSITIVE DRAINAGE. ROTO-TILL AND PREP SOIL AS PER PROJECT SPECIFICATIONS.



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EXISTING CONDITIONS
& REMOVALS PLAN
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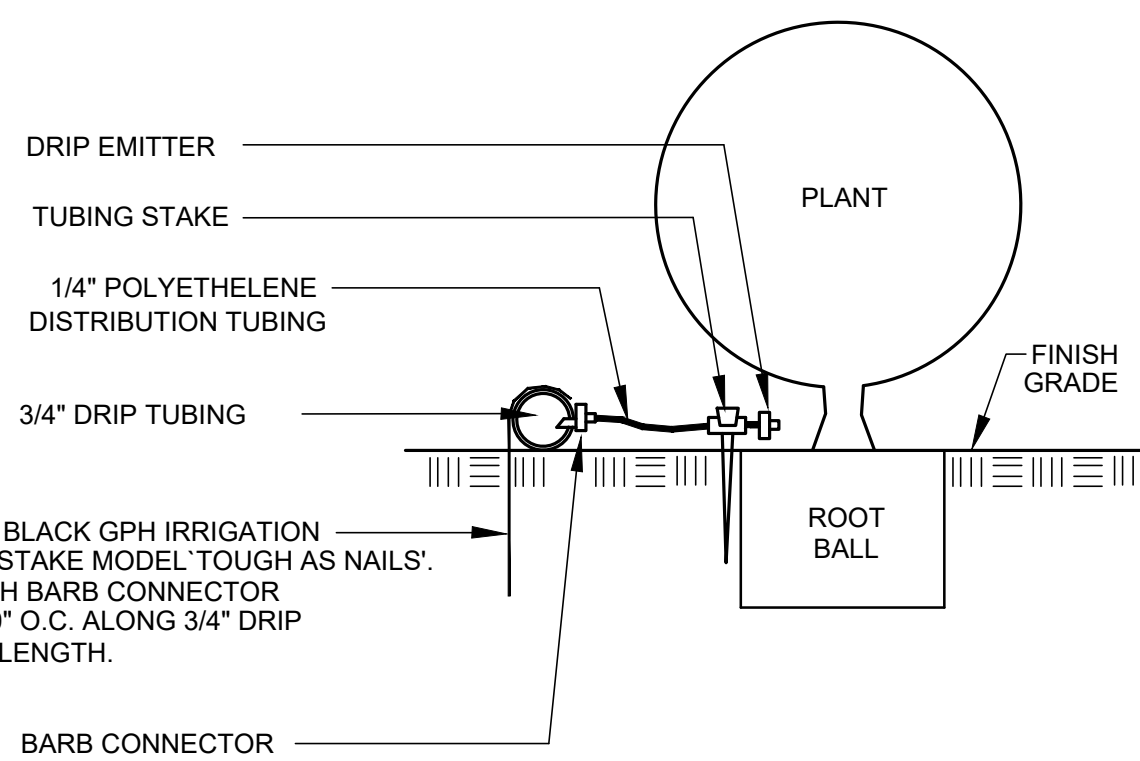
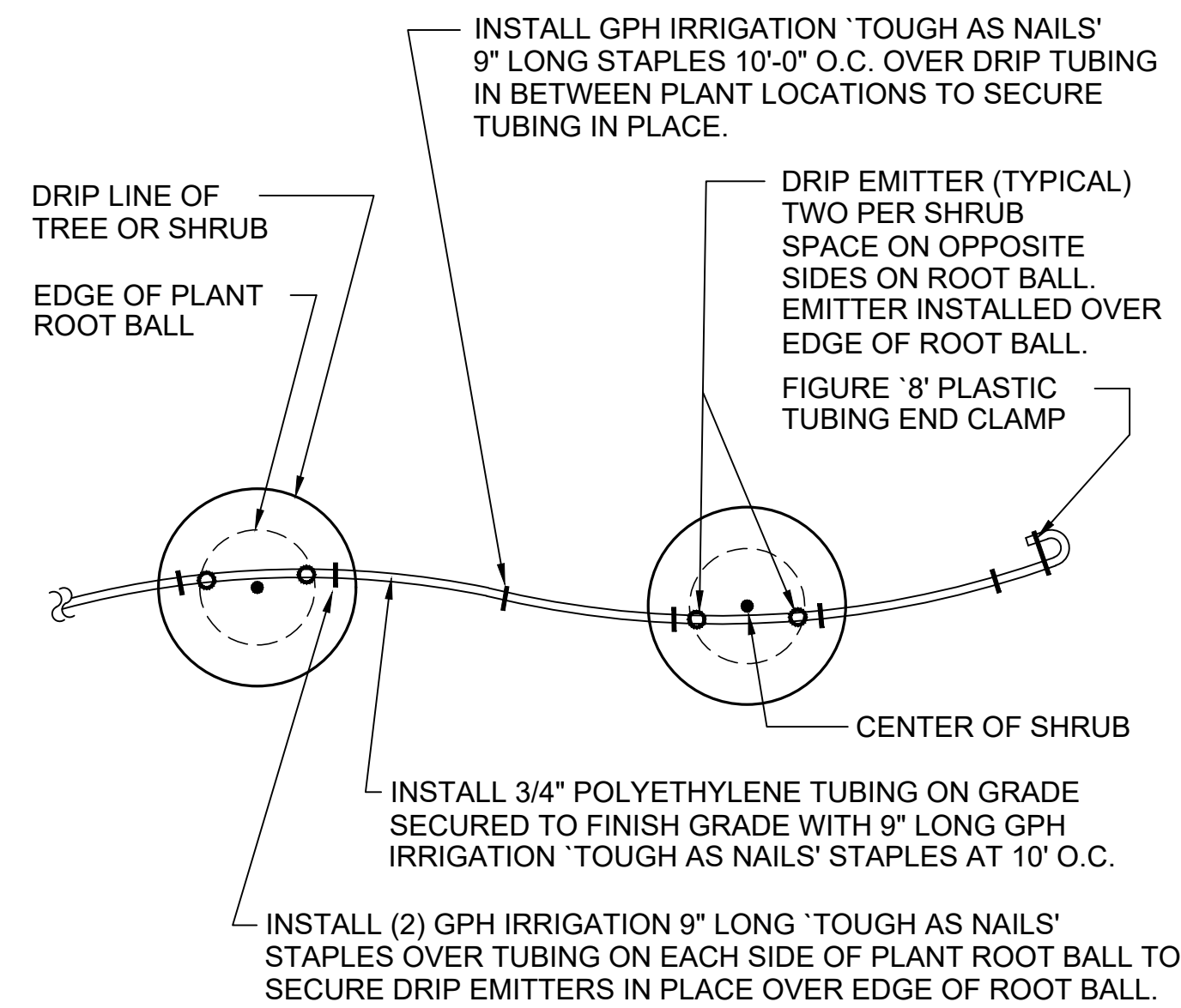
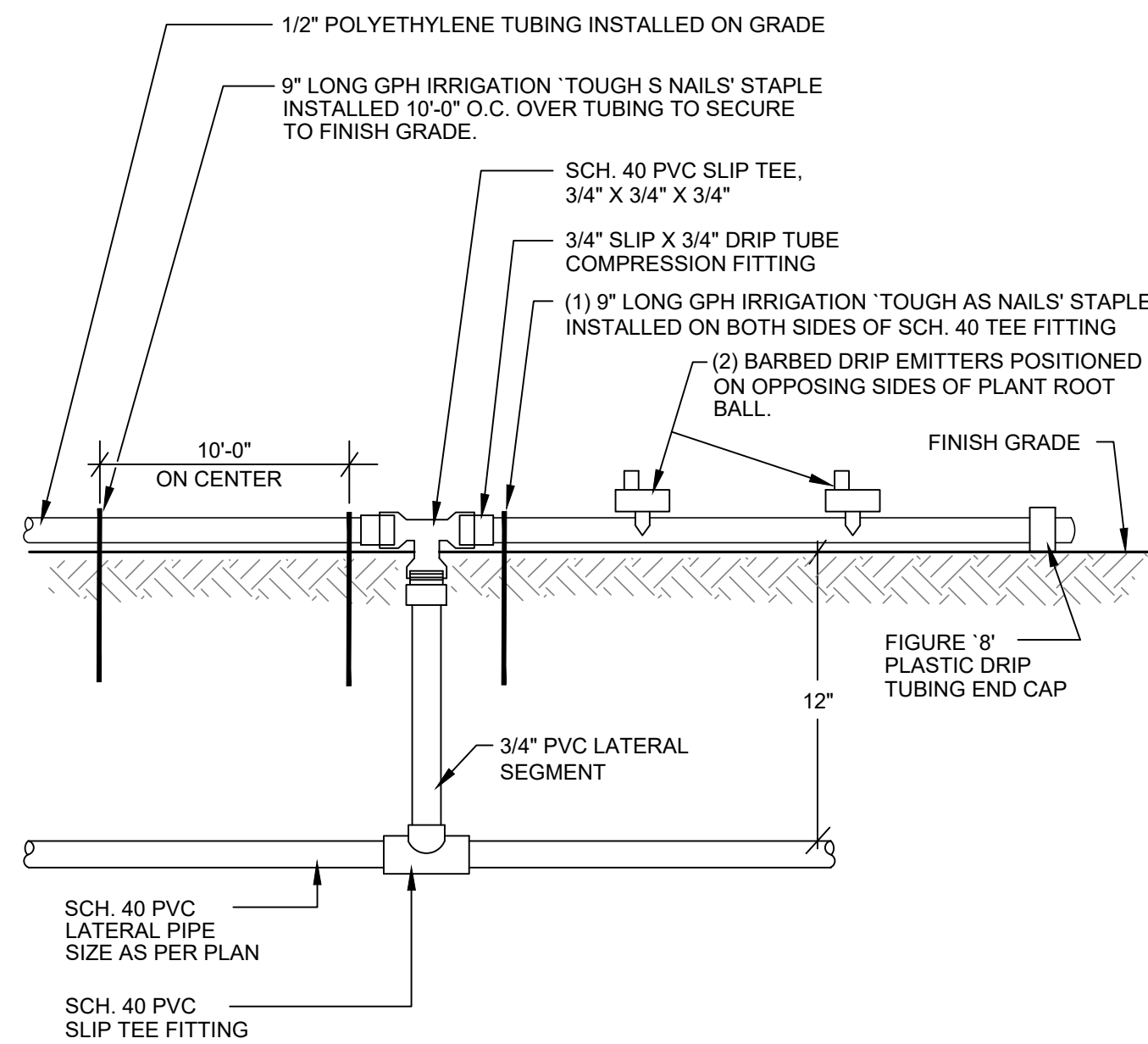
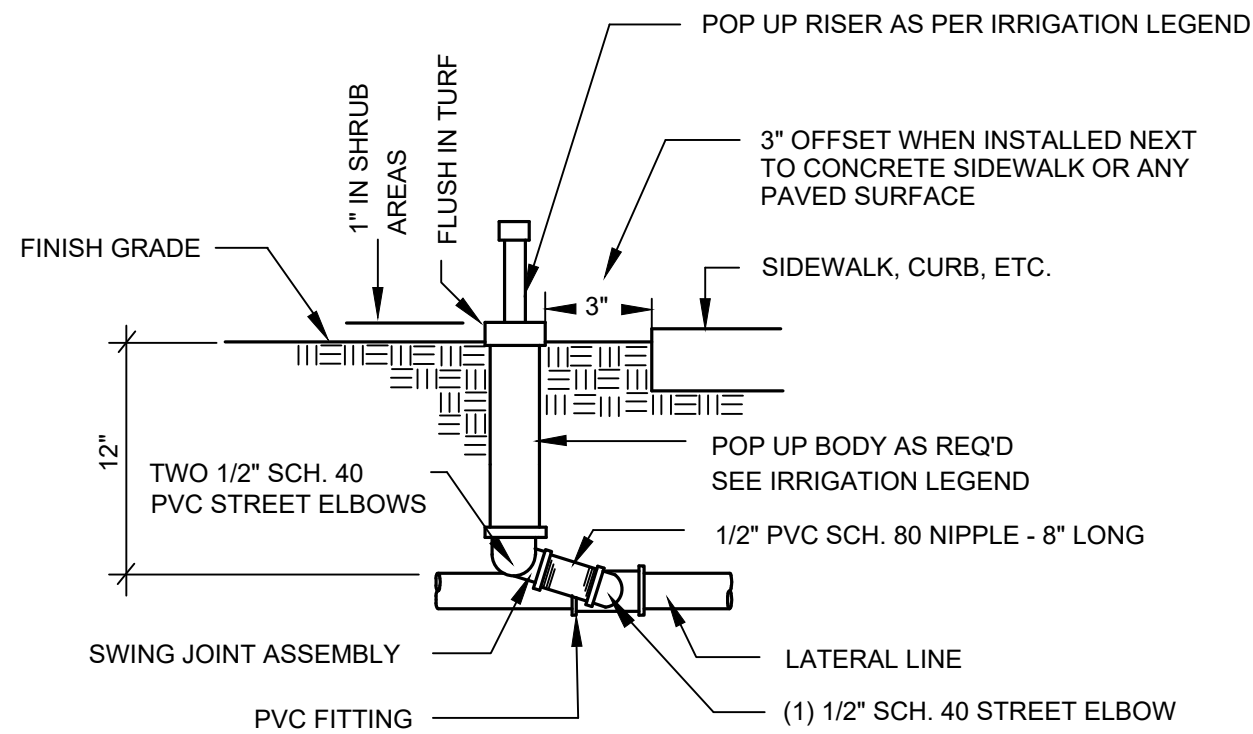
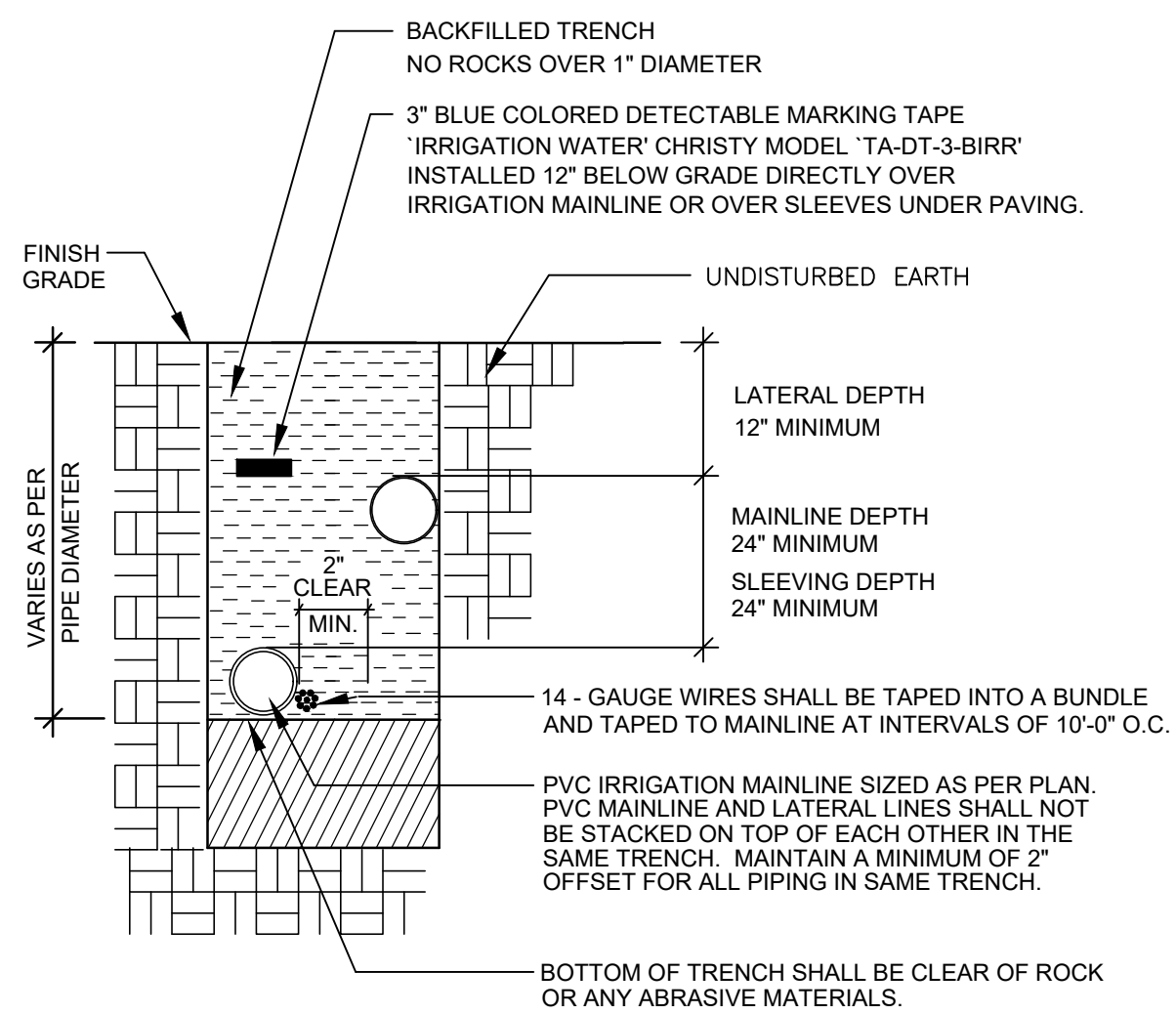
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SHEET 2 OF 5
PROJECT No. 25.08

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PLEASANT VALLEY SCHOOL DISTRICT STANDARD IRRIGATION NOTES

1. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR AND THE PLEASANT VALLEY SCHOOL DISTRICT (P.V.S.D.) REPRESENTATIVE SHALL PARTICIPATE IN A THOROUGH IRRIGATION SYSTEM REVIEW OF THE PROJECT SITE. ALL REMOTE CONTROL VALVES SHALL BE TURNED ON AND OBSERVED IN OPERATION BY BOTH THE CONTRACTOR AND P.V.S.D. REPRESENTATIVE. ANY EXISTING DEFECTS WILL BE LISTED IN DETAIL IDENTIFYING THE SPECIFIC VALVE STATION NUMBER AND DESCRIBING THE EXACT BROKEN OR NON FUNCTIONING IRRIGATION COMPONENT NOTED DURING THE SITE REVIEW. AT THE CONCLUSION OF THE IRRIGATION REVIEW, THE CONTRACTOR SHALL GENERATE A SUMMARY OF THE ITEMS IDENTIFIED BY BOTH PARTIES LISTING ALL REMOTE CONTROL VALVES OPERATED, IDENTIFYING IF THE VALVE PERFORMED WITHOUT ANY DEFECTS OR SPECIFICALLY IDENTIFYING ANY OBSERVED DEFECTS OR NON FUNCTIONING COMPONENTS, SUCH AS BROKEN HEADS, CLOGGED NOZZLES, NON OPERATING VALVE SOLENOID, BROKEN PIPING, OR OTHER NOTED DEFECT. THE COMPLETED SUMMARY OF ITEMS NOTED SHALL BE LISTED ON A DOCUMENT CALLED 'EXISTING IRRIGATION SYSTEM OBSERVATIONS'. THIS DOCUMENT SHALL BE SIGNED BY THE CONTRACTOR AND SUBMITTED TO THE P.V.S.D. REPRESENTATIVE FOR A CONFIRMING SIGNATURE. THE MUTUALLY SIGNED 'EXISTING IRRIGATION SYSTEM OBSERVATIONS DOCUMENT' SHALL BE SENT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR INSPECTION PURPOSES AT THE CONCLUSION OF THE CONSTRUCTION WORK. IF REQUESTED BY THE P.V.S.D. REPRESENTATIVE, THE CONTRACTOR SHALL PROVIDE A LIST OF THE EXISTING DEFECTIVE IRRIGATION COMPONENTS NOTED WITH A DETAILED WRITTEN PROPOSAL TO REPAIR EACH ITEM IDENTIFIED ON THE LIST. A COPY OF THIS PROPOSAL WILL BE SENT TO THE LANDSCAPE ARCHITECT. THIS ADDITIONAL WORK PROPOSAL MUST BE REVIEWED AND APPROVED IN WRITING BY THE P.V.S.D. STAFF AND FORMALLY PRESENTED TO THE GENERAL CONTRACTOR BEFORE THE LANDSCAPE SUB-CONTRACTOR CAN BEGIN ANY ADDITIONAL REPAIR WORK. THE MUTUALLY SIGNED 'EXISTING IRRIGATION SYSTEM OBSERVATION DOCUMENT' SHALL BE USED AS A GUIDE TO IDENTIFY ANY COLLATERAL DAMAGE CAUSED TO THE EXISTING IRRIGATION SYSTEM AS A RESULT OF NEW CONSTRUCTION PERFORMED ON SITE BY THE CONTRACTORS. ANY DAMAGE CAUSED TO THE EXISTING IRRIGATION SYSTEM NOT SPECIFICALLY IDENTIFIED ON THE 'EXISTING IRRIGATION SYSTEM OBSERVATION DOCUMENT' SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THAT THE CONTRACTOR DOES NOT PARTICIPATE OR PERFORM THE EXISTING IRRIGATION SITE REVIEW, ANY EXISTING IRRIGATION EQUIPMENT OR COMPONENTS DAMAGED ON THE PROJECT SITE NOTED BY THE LANDSCAPE ARCHITECT DURING THE FINAL IRRIGATION SYSTEM REVIEW SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE AND TO THE SATISFACTION OF THE P.V.S.D. REPRESENTATIVE.
2. FIELD VERIFY EXISTING STATIC WATER PRESSURE AND NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING ANY WORK.
3. CONTACT DIG ALERT AT 1-800-227-2600 TO IDENTIFY AND LOCATE ALL ON-SITE UTILITIES PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL COORDINATE WITH THE PLEASANT VALLEY SCHOOL DISTRICT (P.V.S.D.) REPRESENTATIVE AND REVIEW THE EXISTING SITE PRIOR TO BEGINNING WORK TO AVOID CONFLICTS WITH FUTURE CONSTRUCTION PROJECTS SCHEDULED ON SITE.
4. PROTECT IN PLACE AND KEEP IN WORKING CONDITION ALL EXISTING IRRIGATION SYSTEMS NOT A PART OF THIS WORK. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING MAINLINE SEGMENT, LATERAL, IRRIGATION CONTROL WIRE, HYDRAULIC TUBING, REMOTE CONTROL VALVE, VALVE BOX, QUICK COUPLER, OR ANY OTHER IRRIGATION SYSTEM COMPONENT DAMAGED DURING THE RENOVATION PROCESS. ADJACENT FUNCTIONING IRRIGATION SYSTEM COMPONENTS MUST BE KEPT IN WORKING CONDITION TO MAINTAIN THE HEALTH AND VIGOR OF THE EXISTING TURF AND LANDSCAPE PLANTINGS. PROLONGED LACK OF WATER TO THESE PLANTERS AS A RESULT OF NEW CONSTRUCTION WORK THAT RESULTS IN THE LOSS OF TURF OR PLANTS SHALL BE REPLACED BY THE CONTRACTOR AT THEIR COST AND TO THE SATISFACTION OF THE P.V.S.D.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRENCH SETTLING OR IRRIGATION HEAD SETTLING. ALL TRENCHES WILL BE BACK FILLED WITH CLEAN SOIL, COMPACTED AND PLANTED WITH APPROVED SEED OR PLANT MATERIAL AS PER PLAN. ALL HEADS THAT SETTLE WILL BE RAISED TO 1/2" ABOVE FINISH GRADE OR AS DIRECTED BY EITHER THE LANDSCAPE ARCHITECT OR P.V.S.D. REPRESENTATIVE. PROVIDE ADDITIONAL SOIL AS NECESSARY AND HAND TAMP AROUND HEAD TO PREVENT FUTURE SETTLING.
6. SLEEVE ALL PVC IRRIGATION PIPES AND WIRES INSTALLED UNDER PAVING. WIRES SHALL BE ENCLOSED IN SCH. 40 PVC ELECTRICAL CONDUIT SIZED BY THE CONTRACTOR, NO LESS THAN 2" IN SIZE. MAINLINE SLEEVES SHALL BE SIZED AS PER LEGEND ON PLAN. SEE SPECIFICATIONS AND IRRIGATION SLEEVING SCHEDULE FOR ADDITIONAL INFORMATION.
7. THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPE PLANTERS WHENEVER POSSIBLE.
8. ALL SPRINKLER HEADS SPECIFIED ON THIS PROJECT ARE EQUIPPED WITH FACTORY INSTALLED CHECK VALVES IN THE SPRINKLER BODY. IN THE EVENT THAT LOW HEAD DRAINAGE STILL OCCURS, THE CONTRACTOR SHALL INSTALL INLINE SWING CHECK OR SPRING LOADED CHECK VALVES ON THE PVC LATERALS TO PREVENT LOW HEAD DRAINAGE. ANY INLINE CHECK VALVE INSTALLED ON PVC LATERALS MUST BE FURNISHED WITH A 10" ROUND PLASTIC VALVE BOX WITH A LOCKING GREEN PLASTIC LID.
9. ALL VALVE BOXES INSTALLED IN CONCRETE OR ASPHALT PAVING SHALL BE TRAFFIC RATED CONCRETE BOXES (13-1/4" X 24-1/4" X 12") WITH CONCRETE LIDS. BOXES SHALL BE MANUFACTURED BY OLDCASTLE PRE-CAST, BOX MODEL N30BOX, LID MODEL B30D, CONCRETE BOX EXTENSION MODEL B30X12, OR CHRISTY CONCRETE BOX EQUIVALENT. ALL RECTANGULAR PLASTIC VALVE BOXES SHALL HAVE THE MINIMUM DIMENSIONS OF (14-1/2" X 19-1/2" X 12-1/4") AND SHALL HAVE GREEN LOCKING PLASTIC LIDS. THE CONTRACTOR SHALL INCLUDE WITH THE COST OF THE PROJECT ANY PLASTIC VALVE BOX EXTENSION THAT MIGHT BE REQUIRED TO COMPLETE THE VALVE INSTALLATION AS PART OF THE BASE BID. PLASTIC BOX MANUFACTURER'S AND MODEL NUMBERS SHALL BE CARSON MODEL 1419-12 WITH 1419-48 'T'-STYLE GREEN LID', APPLIED ENGINEERING PRODUCTS MODEL 1015T-1G2G, OR NDS MANUFACTURING APPROVED EQUAL.
10. USE ONLY SCH. 80 PVC NIPPLES WHEN INSTALLING VALVES REQUIRING THREADED FITTINGS. SCH. 40 PVC MALE ADAPTERS SHALL NOT BE USED ON ANY VALVE ASSEMBLY CONNECTED TO A PRESSURIZED MAINLINE.
11. MAKE ALL REQUIRED ADJUSTMENTS TO BOTH EXISTING AND NEW SPRINKLER HEADS TO PREVENT ANY IRRIGATION WATER FROM OVER SPRAYING ON TO ADJACENT PAVEMENT OR CLASSROOM BUILDINGS. MAKE ANY NOZZLE REPLACEMENTS AS REQUESTED BY EITHER THE LANDSCAPE ARCHITECT OR P.V.S.D. REPRESENTATIVE TO IMPROVE IRRIGATION COVERAGE OR TO BALANCE PRECIPITATION RATE TO LANDSCAPE PLANTER AS PART OF BASE BID.
12. HEAT STAMP OR 'BRAND' INTO THE PLASTIC REMOTE CONTROL VALVE BOX LIDS THE NEW VALVE STATION NUMBER AND RELATED NEW AUTO CONTROLLER LETTER. PROVIDE CHRISTY STANDARD SIZE I.D. TAGS CONNECTED TO ALL NEW REMOTE CONTROL VALVE SOLENOIDS WITH STATION NUMBER AND RELATED EXISTING AUTO CONTROLLER IDENTIFICATION LETTER.
13. ALL WATER TIGHT CONNECTORS USED TO SPLICE 14-GAUGE WIRES TO REMOTE CONTROL VALVE SOLENOIDS OR TO REPAIR BROKEN EXISTING REMOTE CONTROL VALVE WIRES ON THIS PROJECT SHALL BE MANUFACTURED BY 3M COMPANY, MODEL DBR-Y6 SERIES, SPEARS MODEL DS-400 WITH SPEARS DS-300 SEALANT, OR P.V.S.D. APPROVED EQUAL.
14. INSTALL ALL IRRIGATION REMOTE CONTROL VALVES, BALL VALVES, AND QUICK COUPLING VALVES A MINIMUM DISTANCE OF 10'-0" FROM ALL TREE TRUNK LOCATIONS ILLUSTRATED ON PLANTING PLAN. CONFIRM LAYOUT OF EXISTING OR NEW TREE LOCATIONS PRIOR TO INSTALLING ANY VALVE.
15. EXISTING IMPROVEMENTS WITHIN THE WORK AREAS SHALL REMAIN AND BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
16. UTILITIES MAY HAVE BEEN OMITTED ON THE IRRIGATION SHEETS. REVIEW ALL AVAILABLE P.V.S.D. 'AS-BUILT' RECORD DRAWINGS AND EXERCISE CARE IN EXCAVATION WHILE PROTECTING EXISTING UTILITIES IN PLACE.
17. SET NEW PRESSURE REGULATING REMOTE CONTROL VALVES TO DISCHARGE DOWNSTREAM PRESSURE APPROXIMATELY 10 PSI HIGHER THAN THE OPERATING PRESSURE NOTED ON THE IRRIGATION LEGEND. FOLLOW ALL WEATHERMATIC SPECIFICATIONS WHEN SETTING DOWNSTREAM PRESSURE ON PRESSURE REGULATING REMOTE CONTROL VALVES.



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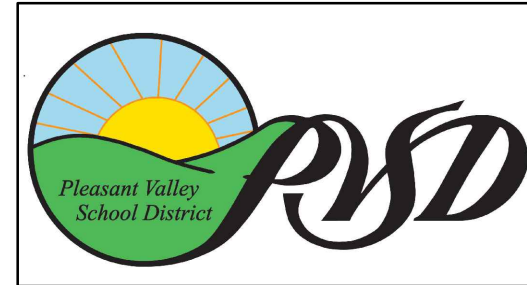
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CLIENT
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SCHOOL DISTRICT
600 Temple Avenue
Camarillo, CA. 93010

SHEET TITLE

IRRIGATION DETAILS & NOTES

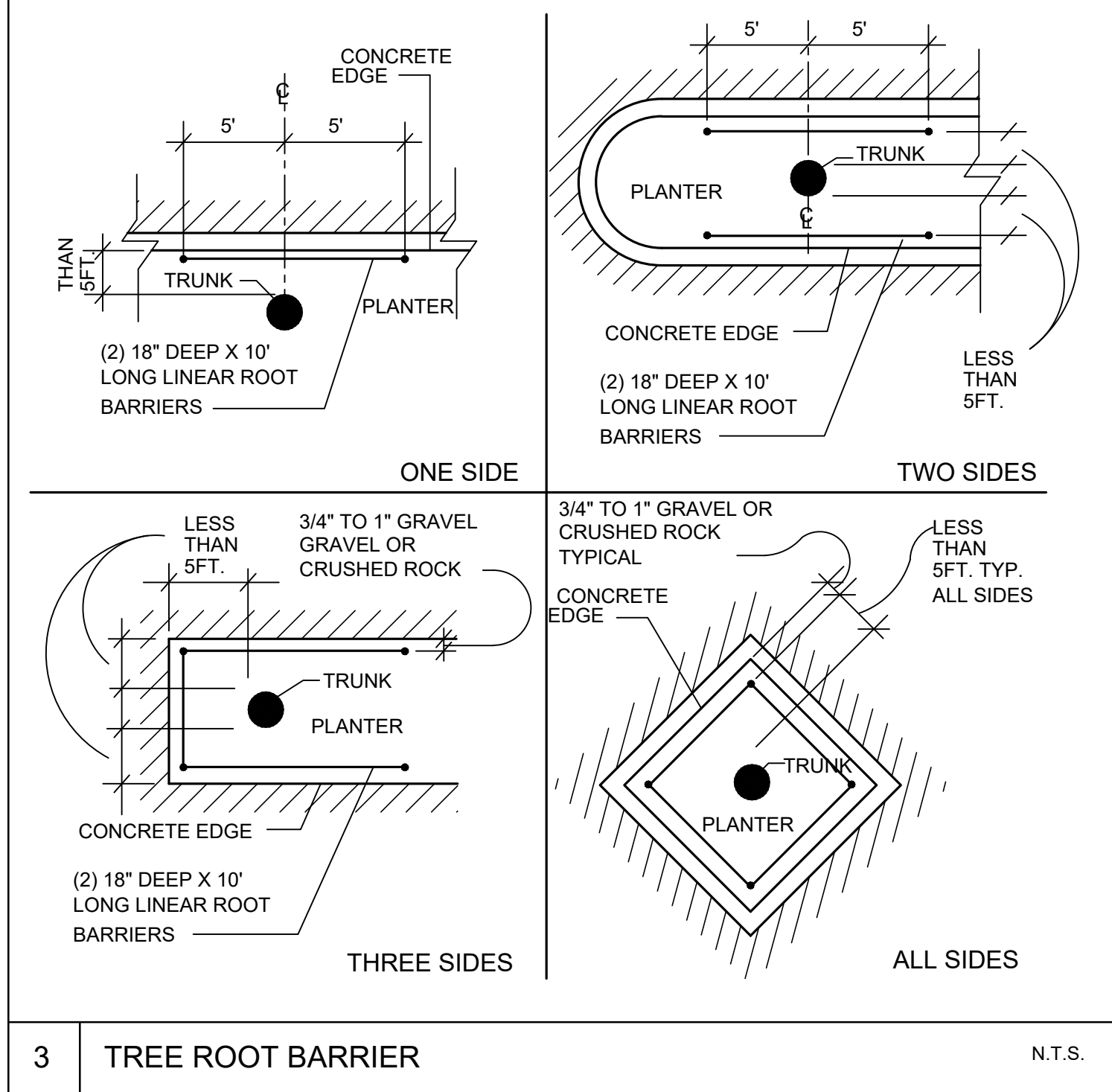
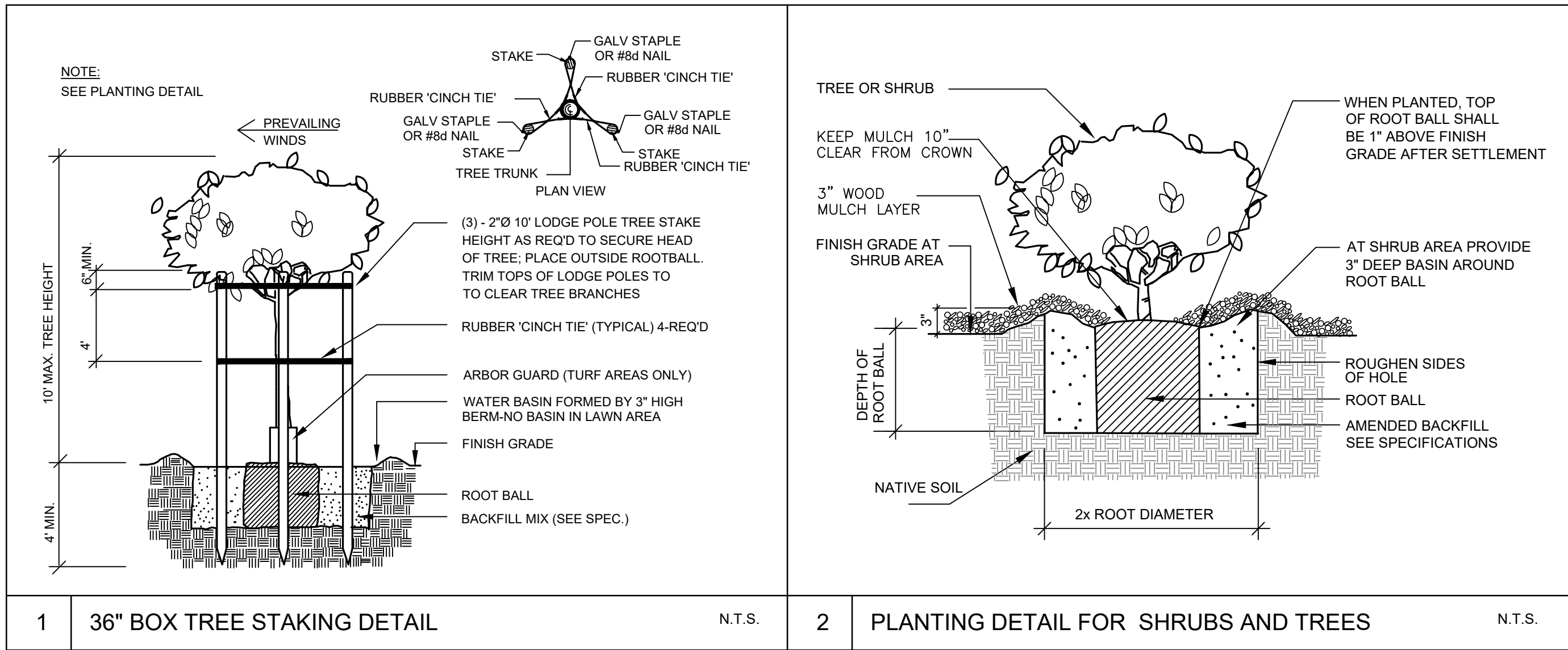
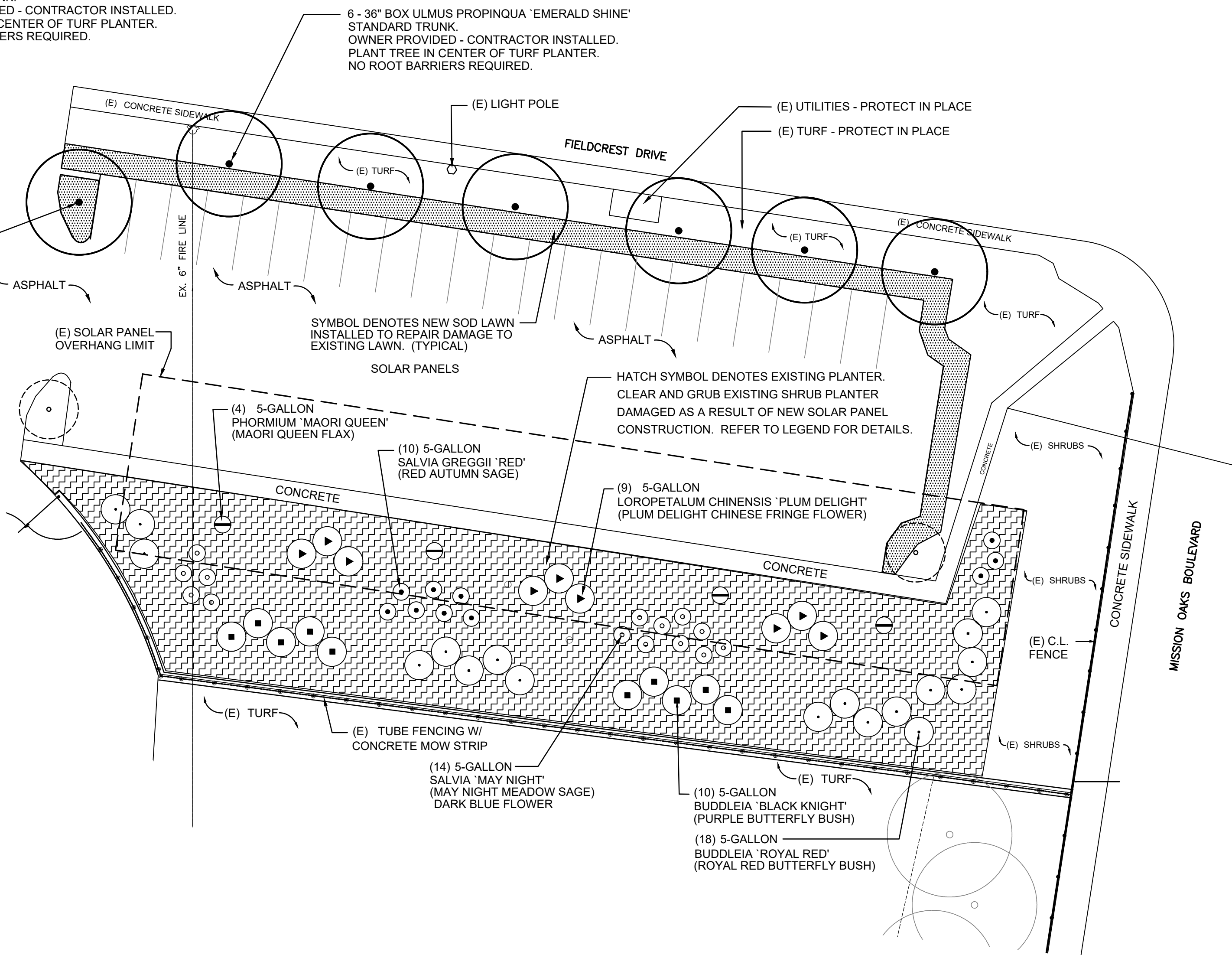
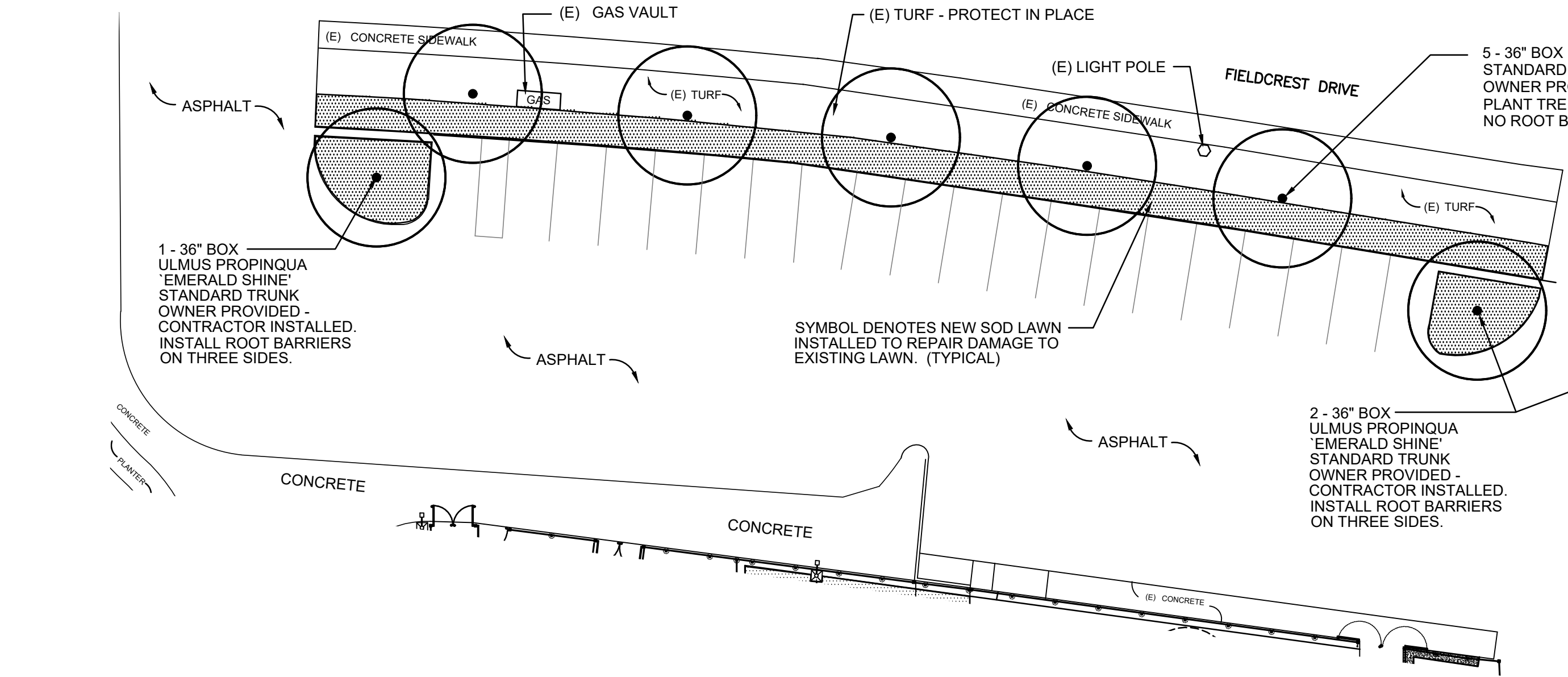
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CONSTRUCTION:	4-10-26

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L2.2

SHEET 4 OF 5
PROJECT No. 25.08



PLANT LEGEND

SYMBOL	BOTANICAL NAME / COMMON NAME	QUANTITY	SIZE
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	ULMUS PROPINQUA 'EMERALD GREEN' STANDARD TRUNK. OWNER PROVIDED - CONTRACTOR INSTALLED. INSTALL ROOT BARRIERS WHERE NOTED.	14	36" BOX
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TREE PLANTING NOTES:

- P.V.S.D. SHALL PURCHASE AND DELIVER (14) 36" BOX STANDARD TRUNK SPECIMEN TREES TO SITE. CONTRACTOR SHALL PROVIDE LABOR AND EQUIPMENT TO OFFLOAD SPECIMEN TREES AND PLANT THEM AS PER PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL MARKING FLAGS USING PLAN AS A GUIDE TO REPRESENT TREE AND SHRUB PLANTING LOCATIONS. REVIEW THE EXACT LOCATIONS WITH THE P.V.S.D. REPRESENTATIVE IN THE FIELD. MAKE ANY ADJUSTMENTS REQUESTED BY THE P.V.S.D. REPRESENTATIVE IN THE FIELD PRIOR TO BEGINNING ANY TREE OR SHRUB PLANTING OPERATIONS.

SYMBOL	AREA	DESCRIPTION
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	9,400 SF	CLEAR AND GRUB EXISTING SHRUB PLANTING AREA: CLEAR AND GRUB ANY EXISTING / REMAINING VEGETATION. FINE GRADE EXPOSED SOIL TO A SMOOTH UNIFORM SURFACE WITH POSITIVE DRAINAGE. ROTO-TILL AND PREP SOIL AS PER PROJECT SPECIFICATIONS. NOTE: CONTRACTOR SHALL PURCHASE AND DELIVER TO SITE (65) 5-GALLON SHRUBS. CONTRACTOR SHALL POSITION AND SPOT DELIVERED SHRUBS IN THE PLANTERS WITH THE P.V.S.D. REPRESENTATIVE. ONCE THE PLANTS HAVE BEEN POSITIONED IN THE PLANTERS AND APPROVED BY THE P.V.S.D. REPRESENTATIVE, CONTRACTOR SHALL PLANT THE SHRUBS AS PER PROJECT SPECIFICATIONS. SHRUB PLANTING AREAS SHALL BE TREATED WITH AN APPROVED PRE-EMERGENT HERBICIDE AND COVERED WITH A 3" THICK LAYER OF AGROMIN 'GARDEN MULCH' WOOD MULCH.
	3,700 SF	SOD LAWN: SOUTHLAND SOD 'MARATHON II'. SCRAPE AND REMOVE (E) DAMAGED OR EXISTING TURF FROM PLANTER. ROTO-TILL WITH SOIL AMENDMENTS PER SPECIFICATIONS. FINE GRADE TO MATCH ADJACENT (E) TURF AND CREATE POSITIVE DRAINAGE. INSTALL SOD AS PER GROWER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD MEASURING AND PROVIDING EXACT QUANTITY OF NEW SOD TO COMPLETE THE SCOPE OF WORK.

GRAPHIC SCALE
0 10 20 30
5 10 20 30
SCALE: 1"=20'

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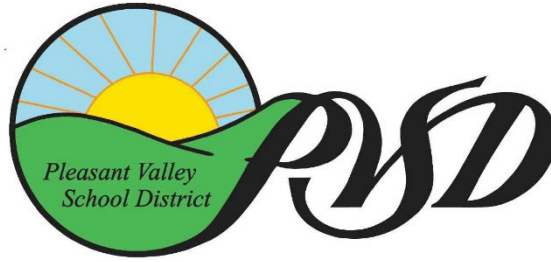
REVISIONS
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Camarillo, CA 93012

CONSTRUCTION: 4-10-26

DRAWING
L3.1
SHEET 4 OF 5
PROJECT No. 25.08



SPECIFICATIONS
FOR THE
PARKING LOT LANDSCAPE RENOVATIONS
AT
LAS COLINAS MIDDLE SCHOOL
5750 FIELDCREST DRIVE
CAMARILLO, CALIFORNIA 93012
FOR:
PLEASANT VALLEY SCHOOL DISTRICT
600 TEMPLE AVENUE
CAMARILLO, CA 93010

FEBRUARY 25, 2026

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LAS COLINAS MIDDLE SCHOOL

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**SECTION 01 10 20
FENCING AND PROTECTION**

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes requirements for temporary fencing and protection of the work area.

1.02 SUBMITTALS

Submit for approval, all catalog cuts and/or specification sheet for all fencing products.

1.03 QUALITY ASSURANCE

Fencing shall be installed by a qualified fence company with experience in the installation of temporary fencing.

PART 2 PRODUCTS

2.01 TEMPORARY FENCING – BASE BID FOR SOD LAWN INSTALLATION

Temporary fencing shall be 5 feet high orange polyethylene barricade with manufacturer's approved stakes attached to post and frames installed in a secure manner. Chain link fencing, barb wire and/or razor wire is not allowed. Fencing shall be kept in place during the construction period and maintenance period. Fencing shall be removed only when written authorization is provided by the District. The fence shall become the property of PVSD and shall be removed by PVSD once the sod is established.

PART 3 EXECUTION

3.01 FENCE LAYOUT

Contractor shall submit to the District for approval a schematic fence layout showing the location of fence panels and method of attachment of panels and post. This plan must be approved by the District prior to start of the work.

3.02 FENCE INSTALLATION

- A. Install fencing and post so that no damage occurs to the existing underground conduits or paving. Immediately repair all damage to the existing conditions that may occur as a result of the fence installation.
- B. If fencing panels have post with a horizontal support frame, make sure they are visually apparent to prevent any trip hazard.

3.03 FENCE REPAIR

Immediately repair any damage to the fencing that may occur.

END OF SECTION 01 10 20

**SECTION 31 11 00
CLEAR AND GRUB PLANTER**

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes general requirements to clear and grub existing landscape planters and remove debris from site.

1.02 RELATED SECTIONS

Section 32 84 23 – Irrigation Systems
Section 32 93 33 – Shrub Planting
Section 32 93 43 – Tree Planting

1.03 SUBMITTALS

Furnish material invoices indicating the quantities of District approved pre-emergent herbicide, mulch, and all materials required to complete the Work. Certificates shall be prepared by the supplier or distributor and shall indicate the quantities and qualities of materials used.

1.04 PROTECTION

Contractor shall check or locate existing structures, electric cables or conduits, utility lines and other existing features or conditions above or below ground level that might be damaged as a result of the operation. Questions or conflicts arising out of such examination prior to or during operation shall be immediately directed to the attention of the District for necessary action or decisions before resuming operation. Contractor shall be responsible for repair or replacement at no cost to the District for features or conditions damaged through failure to comply with the above procedures.

1.05 ALTERNATES

Alternates will not be permitted, except where indicated, and as approved by the Landscape Architect.

PART 2 PRODUCTS

2.01 MATERIALS – LANDSCAPE

- A. Mulch shall be Agromin "Cover Mulch" or equal.
- B. Pre-Emergent herbicide – product 'Dimension'.

PART 3 EXECUTION

3.01 SITE CONDITION

Review existing conditions with PVSD Representatives. Clear and grub and remove specific unwanted vegetation and debris from site. Protect in place all existing trees, and any existing shrub identified by the PVSD Representative in the field.

3.02 PRE-EMERGENT HERBICIDE

Broadcast pre-emergent herbicide product 'Dimension' over surface of exposed soil in shrub planters at rate per Manufacturer's specifications. Herbicide shall be applied prior to wood mulch installation.

3.03 MULCH

Install three-inch layer of mulch throughout shrub areas without groundcover. Finish grade shrub areas to a smooth uniform surface to receive mulch. Keep mulch away from tree and shrub crown. Dress mulch areas to present a clean uniform appearance when complete.

END OF SECTION 31 11 00

**SECTION 32 01 90
TREE REMOVALS AND PRUNING**

PART 1 GENERAL

1.01 RELATED DOCUMENTS

Drawings and General Provisions of Contract, including General and Supplementary Conditions and Division-1 Specification Section, apply to this Section.

1.02 DESCRIPTION

Includes furnishing all labor, materials, equipment operations, required to complete the tree Work indicated on the Contract Documents.

1.03 QUALIFICATIONS

- A. Pruning contractor shall have a California State Contractors License C-61/D49.
- B. Tree pruning shall be supervised by a Certified Arborist, as accredited by the International Society of Arboriculture. The Certified Arborist is responsible for the Contractor's crews performing the assigned pruning Work and continuous supervision of crews.
- C. Work crews shall be trained according to tree care standards accepted by the International Society of Arboriculture.
- D. The Contractor shall provide qualified tree workers, trained to Work around primary electrical lines when performing Work in trees underneath primary power lines. The Contractor shall comply with the "Electrical Safety Orders" of the State of California, including all amendments and revisions.

1.04 PUBLIC SAFETY AND COOPERATION

- A. All tree Work shall be conducted in a manner as to cause the least possible interference with, or annoyance to others. Pedestrian and vehicular traffic shall be allowed to pass through the Work areas only under conditions of safety and with as little inconvenience and delay as possible. Unless the Work area is totally barricaded or otherwise kept safe, at least one representative of the Contractor shall serve to coordinate safe operations on the ground at all times when Work operations are in progress.
- B. Whenever larger tree sections are being cut in a treetop which may endanger persons or property, such sections shall be secured by ropes and lowered safely to the ground in a controlled manner.
- C. Contractor shall ensure that all fire hydrants, meter vaults, water and gas shut off valves and similar facilities are accessible during the course of Work. Contractor shall maintain clear passage and least amount of inconvenience to public traffic ways, businesses, and residences.

- D. Contractor shall strive to keep noise levels, resulting from his operations, to a minimum at all times, especially during the morning hours.
- E. The Contractor shall comply with all tree pruning related safety requirements as stated in the safety standards ANSI Z133.1 of the American National Standards Institute, Inc.

1.05 DAMAGE TO PUBLIC OR PRIVATE PROPERTY

Should any structure or property be damaged during the operations of the Contractor, immediately notify the District. Repairs to property damaged by the Contractor shall be made within 48 hours, except utility lines which shall be repaired the same working day. Repairs on private property shall be made in accordance with the appropriate building code under permits issued by the City. Any damage caused by the Contractor shall be repaired or restored by the Contractor at his expense to a condition similar or equal to that existing before such damage or injury, or he shall repair such damage in a manner acceptable to the District.

PART 2 PRODUCTS

2.01 TOOLS

- A. All tools used on a tree known to contain infectious tree disease shall be properly inspected immediately before and after completing Work on such tree. All major pest problems shall be promptly reported to the District.
- B. All cutting tools and saws used in tree pruning shall be kept sharpened to result in final cuts with an unabraded wood surface.

PART 3 EXECUTION

3.01 COMPLETE PRUNING

- A. Complete tree pruning shall consist of the total removal of those dead or living branches as may menace the future health, strength and attractiveness of trees. Specifically, trees shall be pruned in such a manner to:
 - B. Prevent branch and foliage interference with requirements of safe public passage. Over street clearance shall be kept to a minimum of 17 feet above the paved surface of the street, 14 feet above the curb and 14 feet above the surface of a public sidewalk or pedestrian way. Exceptions are allowed for young trees which would be irreparably damaged by such pruning action.
 - C. Remove all dead and dying branches and branch studs.
 - D. Remove all broken or loose branches.
 - E. Remove any live branches which interfere with the tree's structural strength and

healthful development, which will include the following:

1. Limbs which rub and abrade a more important branch.
 2. Limbs of weak structure which are not important to the framework of the tree.
 3. Limbs which, if allowed to grow, would wedge apart the junction of more important branches.
 4. Branches near the end of a limb which will produce more weight or offer more resistance to wind than the limbs are likely to support.
 5. Undesirable sucker and sprout growth paying specific attention not to nick or damage the sprout "burl."
 6. Selective removal of limbs obstructing buildings or other structures or traffic signs. Generally, limbs closer than five (5) feet to a building or other structure should be removed unless doing so would severely damage a tree.
 7. Removal of branches which project too far outward beyond an otherwise symmetrical form.
- F. Cut back end of branches and reduce weight where excessive overburden appears likely to result in breakage of supporting limbs.
- G. Clear trees of sprout or sucker growth to a minimum height of eight (8) feet above ground level. Exceptions are allowed for young trees which would be irreparably damaged by such pruning action.
- H. Obtain a balanced appearance when viewed from the opposite side of the street immediately opposite the tree, unless authorized by the District to do otherwise.
- I. Remove all vines entwined in trees and on tree trunks. Vine tendrils shall be removed without injury to said trees.
- J. Clear all branches and foliage within six (6) feet of primary electrical lines.
- K. Clear all branches that interfere with secondary electric, telephone, cable and other utility lines within one foot (1') of lines, wherever feasible.

3.02 PRUNING NOT ALLOWED

- A. Severe cutting back of all growing tips, usually referred to as topping, pollarding or hatracking.
- B. Flush cutting where a cut is made even with the surface of the trunk or limb, removing the branch collar and branch bark ridge.
- C. Stub cutting where branch removal results in the base of branch removed protruding more than approximately 1/4" beyond the zone of branch collar and branch bark ridge.
- D. Removal of a healthy main leader, for reasons other than power line clearance.

3.03 CUTS

- A. When tree pruning cuts are made to a side limb, such remaining limb must possess a basal thickness of at least 1/3 of the diameter of the wound so affected. Such cuts shall be considered proper only when such remaining limb is vigorous enough to maintain adequate foliage to produce wood growth capable of callusing the pruning cut so affected within reasonable amount of time.
- B. All final tree pruning cuts shall be made in such a manner so as to favor the earliest possible covering of the wound by natural callus growth. Excessively deep flush cuts which produce large wounds or weaken the tree at the cut shall be made. The branch collar shall not be removed.
- C. Tree limbs shall be removed and controlled in such a manner as to cause no damage to other parts of the tree, or to other plants or property.
- D. All trees six (6) inches in diameter or less shall be pruned with hand tools only. Chain saws will not be permitted on any trees six (6) inches or less. This is to prevent any unnecessary abrasions to cambial tissue that may predispose a tree to insect and/or disease problems.
- E. Whenever pruning cuts are to be made, while removing limbs too large to hold securely in one hand during the cutting operation, the limbs shall be cut off first, one (1) to two (2) feet beyond the intended final cut. Then the final cut shall be made in a manner to prevent unnecessary tearing back of the bark and wood. Such cutting back shall not include the removal of any live, healthy limbs in excess of (6) inches without prior District approval.
- F. No more than 25% of the live wood may be removed from the crown of any tree. As much of the crown should be left in the tree as possible.
- G. An extraneous metal, wire, rubber or other material interfering with tree growth shall be removed when possible.
- H. The Contractor shall notify VCOE of any defective or weakened trees.
- I. The use of climbing spurs or spike shoes in the act of pruning trees is prohibited.

3.04 SITE CLEAN-UP

Clean-up of branches, limbs, logs or any other debris resulting from any tree operations shall be promptly and properly accomplished. The Work area shall be kept safe at all times until all operations are completed. Under no circumstances shall the accumulation of brush, limbs, logs, or other debris be allowed in such a manner as to result in a hazard to the public. All debris from tree operations shall be cleaned up each day before the Work crew leaves the site unless permission is given by the District do otherwise. All lawn areas shall be raked, all streets and sidewalks shall be swept, and all brush, branches or other debris shall be removed from the site. Areas are to be left in a condition equal to or better than that which existed prior to the commencement of tree operations.

3.05 STUMP REMOVALS

Remove all tree stumps and major anchor roots with grinding machine to a minimum depth of 12".

3.06 TREE REMOVAL

- A. Before removing any trees, review in the field with the District and the Landscape Architect to verify that tree removal designation are correct.
- B. Comply with all safety requirements of Paragraph 1.04 herein.
- C. Remove tree in its entirety including stump and roots within 12" of surface.
- D. Depression and voids caused by tree stump and root removal shall be returned to natural grade with clean soil provided by contractor.

END OF SECTION 32 01 90

SECTION 32 84 23 IRRIGATION SYSTEM

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes requirements for the installation of the Irrigation System.

1.02 RELATED SECTIONS

Section 32 93 30 – Sod Lawn Planting
Section 32 93 33 – Shrub Planting
Section 32 93 43 – Tree Planting

1.03 REQUIREMENTS OF REGULATORY AGENCIES

Secure all permits and licenses necessary for the work. Give all notices and comply with all laws, ordinances, rules, and regulations concerning the installation of the sprinkler system as drawn and specified.

1.04 SITE CONDITIONS

- A. Prior to beginning any work, the Contractor and the District Inspector shall participate in a thorough irrigation system review of the project site. All remote control valves shall be turned on and observed in operation by both the Contractor and PVSD Representative. Any existing defects will be listed in detail identifying the specific valve station number and describing the exact broken or non-functioning irrigation component noted during the site review. At the conclusion of the irrigation review, the Contractor shall generate a summary of the items identified by both parties listing all remote control valves operated, identifying if the valve performed without any defects or specifically identifying any observed defects or non-functioning components, such as broken heads, clogged nozzles, non-operating valve solenoids, broken piping, or other noted defects. The completed summary of items noted shall be listed on a document called 'Existing Irrigation System Observations.' This document shall be signed by the Contractor and submitted to the PVSD Representative for a confirming signature. The mutually signed 'Existing Irrigation System Observations' document shall be sent to the attention of the Landscape Architect for inspection purposes at the conclusion of the construction work. If requested by the PVSD Representative, the Contractor shall provide a list of the existing defective irrigation components noted with a detailed written proposal to repair each item identified on the list. A copy of this proposal will be sent to the Landscape Architect. This additional work proposal must be reviewed and approved in writing by the PVSD and formally presented to the General Contractor before the Landscape Subcontractor can begin any additional repair work. The mutually signed 'Existing Irrigation System Observation' document shall be used as a guide to identify any collateral damage caused to the existing irrigation system as a result of new construction performed on site by the Contractors. Any damage caused to the existing irrigation system not specifically identified on the 'Existing Irrigation System Observation' document

shall be repaired or replaced at the Contractor's expense. In the event that the Contractor does not participate or perform the existing irrigation site review, any existing irrigation equipment or components damaged on the project site noted by the Landscape Architect during the final irrigation system review shall be repaired or replaced by the Contractor at their expense to the satisfaction of PVSD.

- B. Do not willfully install the sprinkler system as indicated on the drawing when it is obvious in the field that unknown obstructions or grade differences exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the District Inspector.
- C. Before excavating for sprinkler lines, locate all underground utility lines so that the proper precautions may be taken to avoid damage to such utilities. In the event of a conflict between underground lines, promptly notify the District who will arrange for the relocation of one or the other. Failure to follow this procedure places the responsibility upon the Contractor for making any and all repairs for damage of any kind at his own expense.
- D. Provide necessary safeguards and exercise caution against injury or defacement of any existing site improvements. Contractor shall be responsible for any damage resulting from his operations and shall repair or replace such damage at his own expense. No trucks or vehicles of any kind shall be allowed to pass over sidewalks, curbs, etc., unless adequate protection is provided.
- E. Existing Trees
 - 1. Exercise all possible care and precautions to avoid injury to tree roots, trunks, and branches. All excavating within drip line of trees shall be done very carefully and by hand pick and shovel if it appears that large roots are within trenching zones.
 - 2. Alter alignment of pipe to avoid large tree roots, 2-inch and larger in diameter.
 - 3. Wrap exposed and bridging tree roots with several layers of burlap and keep moist. Close all trenches within drip lines, within 24 hours.
 - 4. All severed roots 1-inch and larger shall be hand pruned with sharp tools and painted with acceptable horticultural seal.

1.05 MATERIAL LIST

Submit to the District for acceptance five (5) copies of all materials and equipment, including Manufacturer's names and catalog numbers, to be furnished and installed under this contract within 10 days after the award of the contract.

1.06 RECORD DRAWINGS

- A. Provide and record daily a complete record set of prints on bond which shall be corrected to show changes from the original drawings and specifications and the exact installed locations, sizes, and kinds of equipment. Prints for this purpose may be obtained from the District. Keep this set of drawings on the site and use only as a record set.

- B. Use these drawings as work progress sheets. Make neat and legible annotations thereon as the work proceeds, showing the work as actually installed. Keep these drawings available at all times for inspection and in a location designated by the District.
- C. Before the date of the final inspection, transfer all information from the record prints to a clean set of prints procured from the District. Make work neat, in ink and subject to review and acceptance of the District. District will scan final drawings into a permanent electronic record document.
- D. Dimension from two permanent points of reference such as building corners, sidewalks or road intersections, the location of:
 - 1. Connection to existing water lines.
 - 2. Connection to existing electrical power.
 - 3. Gate valves.
 - 4. Routing of sprinkler pressure lines and control wiring.
 - 5. Electric control valves.
 - 6. Quick coupling valves.
 - 7. Other related equipment as directed by District.

1.07 TESTS AND SITE OBSERVATIONS

- A. All tests shall be made in the presence of the District; at least forty-eight (48) hours' notice shall be given for tests.
- B. Record drawings must be current and shall be verified by the District at the time of all observations.
- C. Site observations for all items pertaining to the work of this Section shall be performed by the District.
- D. Specific site observations for valve assemblies, sprinkler coverage, control wires and splices and any other observations deemed necessary by the District shall be performed by the District.
- E. An open trench main line check for pipe quality and depths shall be performed by the District.
- F. Head Layout - using flag marker layout all drip emitter, tree flood bubblers, and spray heads in field prior to trenching. Review head layout with District and Landscape Architect and make adjustments in fields as directed prior to installing irrigation.
- G. Center load pipe with small amount of backfill to prevent arching and whipping under pressure. Leave joints exposed for observation during pressure test. No water shall be permitted in the pipe until the above has been accomplished and a period of at least 24 hours has elapsed for solvent weld setting and curing.

Main lines to be tested up to valve at 125 pounds pressure and there shall be no leaks. Furnish force pump and pressure gauge. Lateral lines of system to be tested at line pressure with risers capped. Tests have to be for a 2 hour period and verified by the District.

- H. Backfill quality and compaction of trenches shall be verified by the District. Do not backfill trenches until all tests have been completed and accepted.
- I. Perform a coverage test in the presence of the District to determine if the water coverage for planting areas is complete and adequate. Furnish materials and perform all work required to correct any inadequacies of coverage due to deviations from drawings, or where the system has been willfully installed as indicated on the drawings when it is obviously inadequate, without bringing this to the attention of the District.
- J. The coverage test shall be completed, and the irrigation system modified if necessary and accepted, prior to the start of the planting operations.
- K. The entire system shall be checked out thoroughly and completely by the Contractor five (5) days prior to the final observation. All heads shall be properly aligned and adjusted for coverage and cleared of any foreign materials. All valves shall be properly adjusted. Sprinkler controller valve chart shall be checked for accuracy.
- L. At the end of the Maintenance Period, a final observation shall be made by the Contractor and District to check out the entire system.
- M. Final inspection prior to acceptance:
 - 1. Operate each system in its entirety for the District at time of final inspection. Rework any items deemed not acceptable to the District.
 - 2. Deliver to the District all accessories, charts, record drawings, and equipment as required before final inspection.

1.08 GUARANTEE

- A. The entire sprinkler system shall be guaranteed for a period of one (1) year from date of final acceptance.
- B. Should any portion of the irrigation system malfunction due to poor workmanship or defective materials, corrections shall be promptly made by the Contractor at his own expense.
- C. Any damage to paving, plating, or other developments due to the settlements of improperly compacted trench soil, shall also be promptly repaired at the Contractor's expense, to the satisfaction of the District.

PART 2 PRODUCTS

2.01 GENERAL

- A. Irrigation materials shall be as listed on the Irrigation Legend and in these specifications.
- B. The irrigation products specified on the drawings in these specifications are selected to match existing products in use. Substitutions are permitted only when product name is followed by or equal.
- C. Use only new materials of brands and types as noted on the drawings and as specified.

2.02 MATERIALS

- A. PVC primer and solvents - as recommended by Manufacturer. John-Manville, Lasco, or Pacific Western.
- B. Main Line Fittings - Schedule 40, PVC Type 1, Grade 1, Cell Classification 12454-B, side gated, Lasco Spears, or approved equal.
- C. Lateral non-pressure line fittings - Schedule 40, PVC Type 1, Grade 1, Cell Classification 12454-B, side gated, Lasco or approved equal.
- D. Nipples and Risers - PVC Schedule 80.
- E. Pipe, Main Line shall be PVC Schedule 40 for size 1 ½" or less, solvent weld pipe in conformance with ASTM D-1785, D-1784. Mainline 2" and larger shall be Class 315 PVC.
- F. Pipe, Lateral Non-Pressure Lines shall be PVC Schedule 40, solvent weld in conformance with ASTM D-1785, D-1784.
- G. Thread Sealant shall be smooth, non-hardening sealant, compatible with the pipe materials specified. Do not use Teflon tape.

PART 3 EXECUTION

3.01 WORKMANSHIP AND INSTALLATION.

- A. Layout and Adjustments
 - 1. The drawings are diagrammatic to the extent that many offsets, special fittings, and exact locations of the equipment are not shown. The locations of all valves, heads, lines, etc., shall be installed, however, as accurately as possible to the locations that are indicated on the drawings.
 - 2. The locations of main lines that are indicated as bordering walks, curbs and fences shall be placed as close as possible. Locate lines within planting areas wherever possible.

3. All indicated locations of heads and equipment are placed with careful consideration to overlap, protection of the premises, lights, proposed tree locations, and general layout. Coordinate installation of sprinkler irrigation materials, including pipe, so there is no interference with utilities, other construction, or difficulty in planting trees and shrubs. Layout sprinkler heads and make any minor adjustments required due to differences between site and drawings. Adjustments shall be accomplished, maintaining proper sprinkler head coverage and overlap of sprinkler throws.
- B. Connections
1. All connections shall be made into existing lines as indicated on the drawings.
 2. Field verify existing line types in the field.
- C. Cutting and Patching
1. When piping crosses concrete paving and asphalt paving, sawcutting is required. Cut AC paving and/or concrete with concrete sawcutting tools straight and in those locations approved by the District.
 2. Remove concrete and/or AC, base, and soil to the required depth for mainlines.
 3. Concrete walks shall be backfilled entirely with compacted sand. Compact to 95% and patched with new concrete.
 4. AC paving shall be backfilled entirely with a 1-sac sand slurry mix. Compact to 95% and patch with new AC paving.
 5. Concrete paving shall be received medium broom finish.
 6. Remove from site any excavated soil.
- D. Trenching and Backfilling
1. Trench and excavate as necessary to install the system. Excavated material shall be neatly arranged so as to cause a minimum of inconvenience to pedestrian and vehicular traffic. No soil shall be placed on concrete paving without an adequate moisture proof membrane to protect paving.
 2. Trenches for all pipe shall be open vertical construction with firm level bottom and sufficiently wide to provide free working space around the work installed and to provide ample space for backfilling and tamping.
 3. Depth of trenches shall be sufficient to provide a minimum cover above the top of the pipe as follows:
 - a) Mains and control wires: 24-inches minimum cover.
 - b) PVC laterals: 12-inches minimum cover.
 4. When two (2) pipes are to be placed in the same trench, provide a minimum of 6-inch horizontal clearance. Place pipe side by side; do not install one pipe on top of another.
 5. After the installation is complete and the required tests and inspections have been made and approved, the excavations and trenches shall be backfilled with clean soil, free of rubbish, rocks, and pebbles larger than one-half inch.

- E. Plastic Pipe
 - 1. Do not install multiple assemblies on plastic lines. Provide each assembly with its own outlet.
 - 2. Install assemblies specified herein in accordance with respective detail. In absence of detail drawings or specifications pertaining to specific items required to complete work, perform such work in accordance with best standard practice.
 - 3. Clean PVC pipe and fittings before installation. For solvent weld pipe use installation and solvent welding methods as recommended by the pipe and fitting manufacturer. For gasketed pipe installation follow detailed assembly instructions furnished by the manufacturer.
 - 4. On PVC to metal connections, work the metal connections first. Use non-hardening sealant on all threaded joints. Screw hand tight and ½ turn by wrench. Where threaded PVC connections are required, use threaded PVC adapters into which the pipe may be welded.
 - 5. Pipe shall have a firm, uniform bearing, for the entire length of each pipeline, to prevent uneven settlement. Pipe shall be snaked from side to side of trench bottom to allow for expansion and contraction. One additional foot per 100 foot of pipe is the minimum allowance for snaking. Never lay PVC pipe when there is water in the trench or when the temperature is 32° F or below.
 - 6. Use 45° fittings at all changes in depth of pipe. Coupling to be of same materials and wall thickness as pipe.
- F. Sprinkler Controller – the irrigation controller is existing.
- G. Sprinkler Heads
 - 1. Prior to installing heads, flush laterals, and risers with full line pressure. Repeat whenever system is opened up for repairs or replacements. Start flushing operation at the highest point of delivery and work to the lowest.
 - 2. Align all part circle heads so that no spray shall hit building walls or concrete paving.
 - 3. Adjust all spray nozzles so that there will be no amount of overspray, and so that the entire set will be as evenly balanced as possible.
 - 4. Install with each lawn area sprinkler head, a “Triple Swing” joint with Schedule 80 PVC nipples and threaded ells.
 - 5. Install all tree bubblers and drip emitters on PVC flexible hose with two (2) solvent weld male adapters.

3.02 FIELD QUALITY CONTROL

- A. Adjustment to System
 - 1. Flush and adjust all sprinkler heads for optimum performance and to prevent overspray onto walk, roadways, and buildings wherever possible.
 - 2. Select the best degree of arc to fit existing site conditions.
 - 3. Set all sprinkler heads perpendicular to finished grades unless other designated on the drawings.

3.03 TESTING AND INSPECTION

- A. Do not allow or cause any work of this section to be covered up or enclosed until it has been inspected, tested, and approved by the District. Before backfilling the main line, and with all control valves in place, but before lateral pipes are connected, completely flush and test the mainline, and repair all leaks. Flush out each section of lateral pipe before emitters are attached.
- B. Make all necessary provisions for thoroughly bleeding the line of air and debris. Before testing, fill the line with water for a period of at least 24 hours.

3.04 FINAL INSPECTION

Thoroughly clean, adjust and balance all systems. Demonstrate the entire system to the District proving that all remote control valves are properly balanced, that all emitters are properly flowing, and that the entire system is installed and is workable, clean, and efficient.

END OF SECTION 32 84 23

**SECTION 32 93 30
SOD LAWN PLANTING**

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes requirements for the installation of the plant material.

1.02 SUBMITTALS

Furnish material invoices indicating the quantities of fertilizers, soil amendments, and all materials delivered to the job site. Material invoices must be approved by the Landscape Architect prior to incorporating soil amendments. Certificates shall be prepared by the supplier or distributor and shall indicate the quantities and qualities of materials used.

1.03 PROTECTION

- A. Contractor shall check or locate existing structures, electric cables or conduits, utility lines and other existing features or conditions above or below ground level that might be damaged as a result of the operation. Questions or conflicts arising out of such examination prior to or during operation shall be immediately directed to the attention of the District for necessary action or decisions before resuming operation. Contractor shall be responsible for repair or replacement at no cost to the District for features or conditions damaged through failure to comply with the above procedures.
- B. Protect existing trees and tree roots from any damage that may be caused as a result of any planting or irrigation operations.

1.04 ALTERNATES

Alternates will not be permitted, except where indicated, and as approved by the Landscape Architect.

1.05 LANDSCAPE ON-SITE OBSERVATIONS

- A. The Contractor shall notify the district and the Landscape Architect forty-eight (48) hours in advance for all required On-Site Observations. The final On-Site Observation shall require seven (7) days advance notice.
- B. The Contractor shall submit for approval a complete work schedule indicating tentative dates for On-Site Observations.
- C. Record drawings shall be current and present at the time of On-Site Observations and shall be updated on a weekly basis.

- D. Landscape On-Site Observations shall be required for the following phases of Work:
1. Job start meeting.
 2. Finish grading – when all fine grading work is complete, notify the Landscape Architect or District for approval prior to proceeding with the planting.
 3. Soil Preparation – furnish certificates for soil amendments at this time. Quantities must be reviewed by the Landscape Architect or District prior to incorporating into soil. When all soil preparation work is complete notify the Landscape Architect or District for approval prior to proceeding with the work.
 4. Irrigation System Review – see Irrigation Section.
 5. Review planting during the planting process.
 6. Review planting after installation for District approval.
 7. Maintenance – there is no maintenance period required for this project.

PART 2 PRODUCTS

2.01 MATERIALS – LANDSCAPE

- A. Soil Amendments: Organic soil amendment shall be Agromin “Agromend,” or equal.
- B. Backfill Material shall be:
1. 1/3 organic soil amendment
 2. 2/3 existing site soil.
 3. Commercial Fertilizer (15-15-15), 1 lb./cu. yd.
 4. Iron, Zinc, Manganese, 1 oz. /cu. yd.
- C. Soil preparation materials for sod lawn planting areas shall per 1,000 square feet:
1. Three cubic yards of organic soil amendment
 2. Commercial Fertilizer (15-15-15), eight pounds
- D. Lawn shall be sod, Marathon II as grown by Southland Sod Farms.

PART 3 EXECUTION

3.01 SITE CONDITION

No plant materials shall be planted until all operations in conjunction with the installation of the irrigation system have been approved by the District and the Landscape Architect. Final grades shall be established, and the planting areas shall be properly prepared and graded.

3.02 LAWN AREAS – NEW SOD

- A. The existing lawn area shall be scrapped off and removed leaving only subgrade. This subgrade shall be graded for positive drainage to the existing drain grades. After the grading is approved by the District Inspector soil preparation materials shall be thoroughly and evenly incorporated into the top six inches of the soil then the entire area shall be fine graded to receive the new sod lawn.
- B. Stones or rocks over 1” in size, construction refuse, and other deleterious material shall be removed from the site, safely and legally disposed of.
- C. After soil prep and fine grading is complete roll lawn areas with a water ballast roller to create even surface. Soil should be moist to a depth of six inches.
- D. To lay sod, select a starting point parallel to the longest straight boundary of the area. Stagger the strips and avoid overlapping edges. Avoid cutting the sod in short narrow strips. Butt edges and ends of sod so that they fit tightly, with no overlapping. Avoid standing or kneeling on sod while it is being laid. After sod is installed, roll lightly to squeeze out air pockets.
- E. Follow all recommended sod planting procedures provided by sod grower, Southland Farms.

END OF SECTION 32 93 30

SECTION 32 93 33 SHRUB PLANTING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. This section includes general requirements for the installation of shrub planting.
- B. The Contractor shall purchase and deliver to the site (65) 5-gallon shrubs identified on the planting plan. The Contractor shall lay out the shrubs in their location with the District representative in the field. When the layout of the shrubs has been approved by the District representative, the Contractor shall install the shrub planting.

1.02 RELATED SECTIONS

Section 32 84 23 – Irrigation Systems
Section 32 93 43 – Tree Planting

1.03 SUBMITTALS

- A. Submit digital photographs of 5-gallon plants from the preferred source nursery to the Landscape Architect for approval prior to delivering plants to site.
- B. Furnish material invoices indicating the quantities of fertilizers, soil amendments, mulch, and all materials required to complete the Work. Material invoices must be approved by the Landscape Architect prior to incorporating soil amendments. Certificates shall be prepared by the supplier of distributor and shall indicate the quantities and qualities of materials used.

1.04 PROTECTION

Contractor shall check or locate existing structures, electric cables or conduits, utility lines and other existing features or conditions above or below ground level that might be damaged as a result of the operation. Questions or conflicts arising out of such examination prior to or during operation shall be immediately directed to the attention of the District for necessary action or decisions before resuming operation. Contractor shall be responsible for repair or replacement at no cost to the District for features or conditions damaged through failure to comply with the above procedures.

1.05 ALTERNATES

Alternates will not be permitted, except where indicated, and as approved by the Landscape Architect.

PART 2 PRODUCTS

2.01 MATERIALS – LANDSCAPE

- A. (65) 5-gallon shrubs shall be purchased and delivered to site by Contractor to position and plant.
- B. Soil amendments: organic soil amendment shall be Agromin “Agromend,” or equal.
- C. Backfill material shall be:
 - 1. $\frac{1}{3}$ organic soil amendment
 - 2. $\frac{2}{3}$ existing site soil.
 - 3. Commercial Fertilizer (15-15-15), 1 lb./cu. yd.
 - 4. Iron, Zinc, Manganese, 1 oz. /cu. yd.
- D. Soil preparation materials per 1,000 square feet:
 - 1. Three cubic yards of organic soil amendment
 - 2. Commercial Fertilizer (15-15-15), eight pounds
- E. Mulch shall be Agromin “Garden Mulch” or equal.
- F. Pre-Emergent herbicide – product ‘Dimension’.
- G. Redwood header shall be 2” x 4” nominal size, staked into place with redwood stakes and wood screws.

PART 3 EXECUTION

3.01 SITE CONDITION

No plant materials shall be planted until all operations in conjunction with the installation of the irrigation system have been approved by the District and the Landscape Architect. Final grades shall be established, and the planting areas shall be properly prepared and graded.

3.02 GROUND PREPARATION – ALL AREAS

- A. After the site clearance and preparation has been approved by the District, planted areas shall be thoroughly cultivated to a depth of six inches to reduce any compaction caused by the Work. Protect existing tree roots.
- B. Stones or rocks over 1” in size, construction refuse, and other deleterious material shall be removed from the site, safely and legally.
- C. Apply soil preparation materials to all planting areas and thoroughly incorporate into the top six inches of soil.
- D. Wet soil thoroughly and allow to settle. Repeat this compaction procedure until soil is stable enough to permit aeration and drainage for plant material.

- E. Finish grade all planting areas to a smooth, uniform surface ready for planting. Finish grade shall be one inch below finish grade of adjacent paved surfaces unless otherwise noted on Drawings.

3.03 PLANTING – SHRUBS

- A. Shrub planting shall comply with details on drawings.
- B. Make necessary adjustments and excavate pits of square outline and vertical sides for all plants. Scarify sides and bottoms of all plant pits. Set trees vertical.
- C. At all times, protect roots and rootball of plants from drying.
- D. If directed by the Landscape Architect, the Contractor shall prune plants in accordance with standard horticultural practice.

3.04 PRE-EMERGENT HERBICIDE

Broadcast pre-emergent herbicide product 'Dimension' over surface of exposed soil in shrub planters at rate per Manufacturer's specifications. Herbicide shall be applied prior to wood mulch installation.

3.05 MULCH

Install three-inch layer of mulch throughout shrub areas without groundcover. Finish grade shrub areas to a smooth uniform surface to receive mulch. Keep mulch away from tree and shrub crown. Dress mulch areas to present a clean uniform appearance when complete.

END OF SECTION 32 93 33

SECTION 32 93 43 TREE PLANTING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. This section includes general requirements for the installation of tree planting.
- B. The District shall purchase and deliver to the site (14) 36" Box trees with standard trunks. The Contractor shall provide labor and equipment to offload trees from delivery trucks on site. The Contractor shall field measure the proposed locations of the trees in the existing turf parkway as illustrated on plans using marking flags. Review layout with PVSD representative and make any adjustments noted. When tree layout is approved by the District, Contractor shall install the trees as per plans and specifications.

1.02 SUBMITTALS

- A. Furnish material invoices indicating the quantities of fertilizers, soil amendments, and all materials delivered to the jobsite. Material invoices must be approved by the Landscape Architect prior to incorporating soil amendments. Certificates shall be prepared by the supplier or distributor and shall indicate the quantities and qualities of materials used.
- B. Plant Material – (14) 36" Box standard trunk trees will be purchased by P.V.S.D. and delivered to the site for Contractor to offload and plant.

1.03 PROTECTION

- A. Contractor shall check or locate existing structures, electric cables or conduits, utility lines and other existing features or conditions above or below ground level that might be damaged because of the operation. Questions or conflicts arising out of such examination prior to or during operation shall be immediately directed to the attention of the District for necessary action or decisions before resuming operation. Contractor shall be responsible for repair or replacement at no cost to the District for features or conditions damaged through failure to comply with the above procedures.
- B. Protect existing trees and tree roots from any damage that may be caused by the Work.

1.04 QUALITY

All trees shall have a growth habit normal to the species and shall be sound, healthy, vigorous, and free from insect pests, plant diseases, sun scalds, fresh bark abrasions, excessive abrasions, or other objectionable disfigurements. Tree trunks shall be sturdy and well "hardened off." All trees shall have normal well-developed branch systems, and vigorous and fibrous roots systems which are neither root bound, nor pot bound and are free of kinked or girdling roots.

1.05 ALTERNATES

Alternates will not be permitted, except where indicated, and as approved by the Landscape Architect.

1.06 GUARANTEE

All trees shall be guaranteed for one year. This guarantee is in addition to, and not a limitation, other rights the District may have under the Contract Document.

PART 2 PRODUCTS

2.01 MATERIALS – LANDSCAPE

- A. Trees: varieties, sizes, and quantities, as noted on plans.
- B. Tree Stakes: tree stakes shall be 2" diameter Lodgepole Pine, pressure treated with Chemonite (ACZA) @ 0.40 pounds per cubic foot, for in-ground rating. Stakes shall be 10 feet long. Horizontal supports shall be 1 x 6 cedar.
- C. Tree Ties: tree ties shall be virgin flexible vinyl, meeting ASTM D-412, with U.V. inhibitor. 24" inches long. (Cinch Ties of eq.)
- D. Root barrier shall be high density polyethylene flat panels, 24 inches long by 18 inches deep, thickness 0.085 inch with vertical ribs at six inches on center with formed connectors that connect panels to the specified total required length.
- E. Soil Amendments: organic soil amendment shall be Agromin "Agromend," or equal.
- F. Backfill Material shall be:
 - 1. 1/3 organic soil amendment
 - 2. 2/3 existing site soil.
 - 3. Commercial Fertilizer (15-15-15), 1 lb./cu. yd.
 - 4. Iron, Zinc, Manganese, 1 oz. /cu. yd.

PART 3 EXECUTION

3.01 SITE CONDITION

No trees shall be planted until all operations in conjunction with the installation of the irrigation system have been approved by the District and the Landscape Architect. Final grades shall be established, and the planting areas shall be properly prepared and graded.

3.02 TREE PLANTING PITS

- A. Excavate tree planting pits 12 inches wider than the tree box size on all sides and excavate to a depth that allows the tree crown (finish grade at the top of the box) to set two inches above the adjacent finish grades. Scarify the sides of the tree pit.
- B. Thoroughly blend the backfill mix and apply water while backfilling. Tree root ball, plant pit and backfill material must be moist for the duration of installation. After tree is set plumb and staked, build temporary berm and fill basin with water. At all times, do not allow the tree root ball to dry out.
- C. Stake tree as per details and, if necessary, trim top of tree stakes so no scaffold branches can rub against the tree stakes. Stakes and ties shall be set so that the tree is supported without leaning. Remove nursery stakes on trees immediately after the tree is staked.

3.03 TREE PRUNING

If directed by the Landscape Architect, remove specific branches or prune adhering to the ANSI A300 pruning standards.

3.04 ROOT BARRIER

Install tree root barriers in the total lengths and manner as shown on the plans and details. The vertical root deflecting ribs shall be facing inwards to the rootball, and the double top edge shall be set 2 inches above the finish grade. Connect panels with the flexible joiner strips to the required overall length shown on the legend. Install panels straight, uniform in a vertical position.

END OF SECTION 32 93 43

**SECTION 32 94 60
LANDSCAPE MAINTENANCE**

PART 1 GENERAL

1.01 MAINTENANCE PERIOD

There is no extended landscape maintenance period with this project. Once the PVSD Inspectors have accepted the irrigation and planting work as complete, the Contractor shall be released from the landscape scope of work.

END OF SECTION 32 94 60