

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE

AGREE TO COMPLY MTH THE REQUIREMENTS OF THE PRESCRIPTIVE COMPLIANCE OPTION OF THE MWELO.

REPORT SHALL BE COMPLETED AT THE TIME OF

INSPECTION, THE PERMIT APPLICANT MUST OF THE PROPERTY WITH A CERTIFICATE OF ICATE OF INSTALATION, IRRIGATION SOHEDULE LANDSCAPE AND IRRIGATION MAINTENANCE

THE CRITERIA OF THE ORDINANCE AND APPLIED

DIAGRAM OF THE IRRIGATION PLAN SHOWNG HYDROZONES SHALL BE EPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT IANAGEMENT PURPOSES.

A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE SIGNER OF THE LANDSCAPE PLANS, THE SIGNER OF THE LANDSCAPE PLANS, THE SIGNER OF THE IRRIGATION PLANS OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.

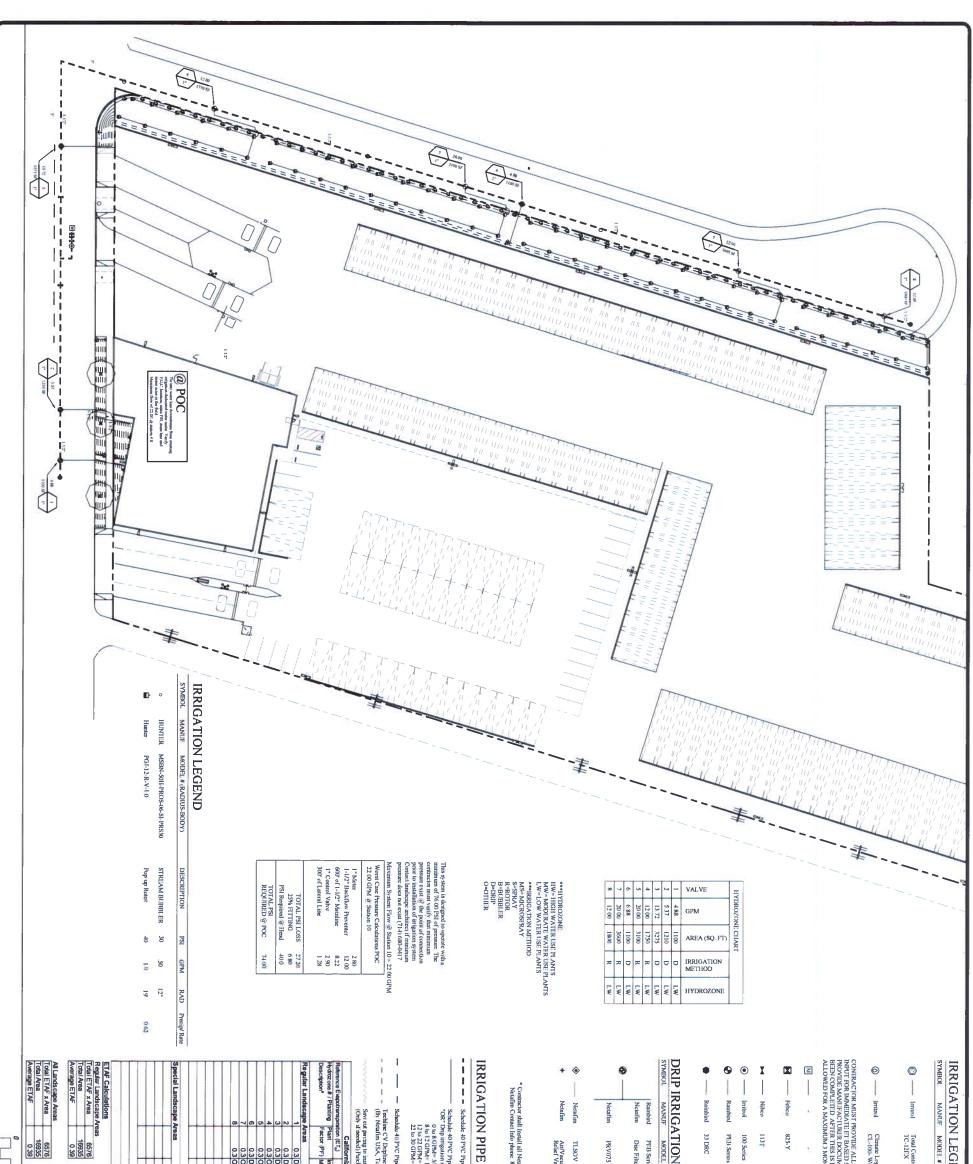
AT INCLUDE LANDSCAPE WORK, THE LANDSCAPE RM GRN 12 SHALL BE COMPLETED PRIOR TO FINAL YOAL LOCKS SHALL BE INSTALLED ON ALL PUBLICLY RIOR FAUCETS AND HOSE BIBS FOR SITES WITH OVER PLANDSCAPE AREA, WASTE PIPING SHALL BE MIT DISCHARGE FROM THE CLOTHES WASHER, MIT DISCHARGE FROM THE CLOTHES WASHER, IS, AND BATHROOMRESTROOMS WASH BASINS TO BE RE GRAY WATER IRRIGATION SYSTEM

E IRRIGATORS SHALL BE INSTALLED IN SUCH A

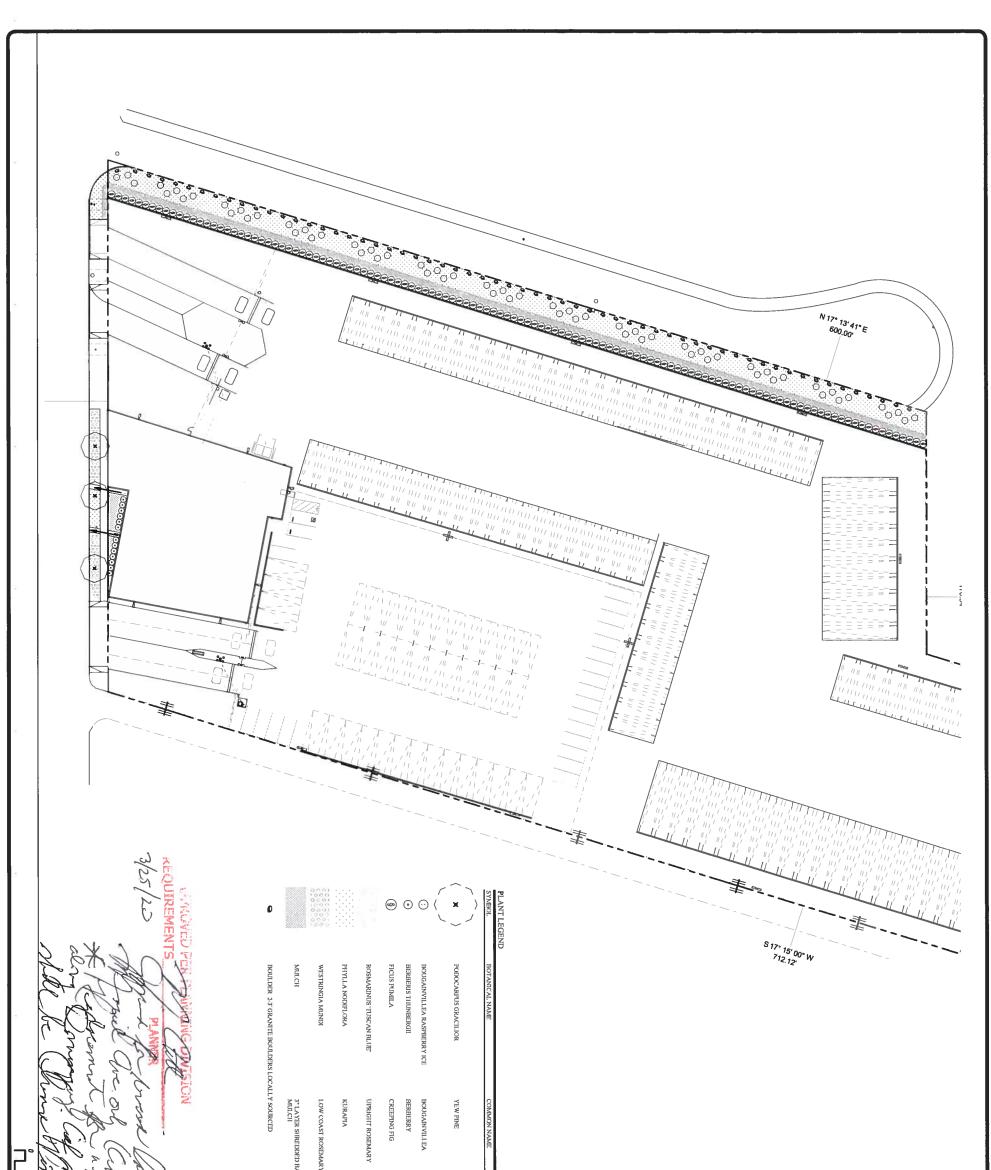
19	ER CABINET		
	Quarterly	Biannually	Annually
-	Conduct general inspection with owner	Prune and trim shrubs and fast growing evergreen	Prune and trim slow- growing and deciduous trees.
	Controller Cabinet- Open Cabinet And Clean Out	mees. Inspect trees for girdling by	Mow ground covers.
	As Necessary Check Wiring And Remain As Needed And	stake fies or guys and replace.	C
5	Check Clock And Reset If Necessary	Mow Fast - Growing Ground Covers	Fertilize trees, shrubs, and pround enver
	Poc- Visually Inspect		
Ω na .	Components For Leaks. Pressure Settings, Settlement Or Other Damage Affecting The Operation of A Component Repair As Needed.		
► 1	Remote control valves, isolation valves and quick coupler valves visually		
¥.	inspect for leaks, settlement, wire connections and pressure settings. Repair or adjust as needed		
	Mainline and laterals visually inspect for leaks or worthment of temeh		
		PROGRESS DRAWING	DRAWING
		PROJIKESS These documents are any clear requested monitoring NUT ACCEPTABLE FO The landwage architects or project construction or	PKCUUKESS LIKAW INQ These documents or topology to the age of topology comment. New request we not a based on the first of the set of construction of the age of the proposable for constructions. The landscape orthogon is not responsible for control body or proper construction made from any document heaving the note.
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PER PLAN

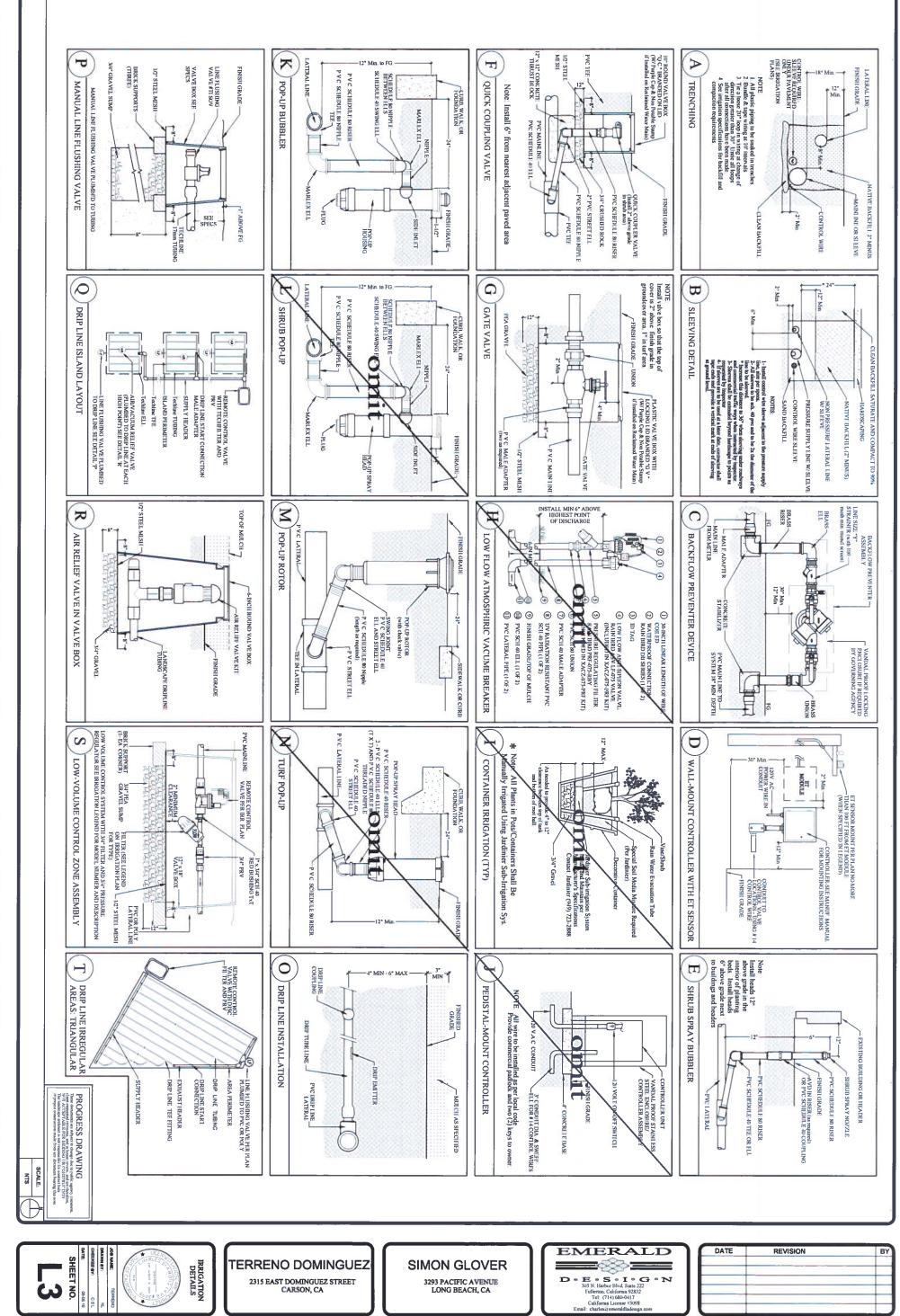


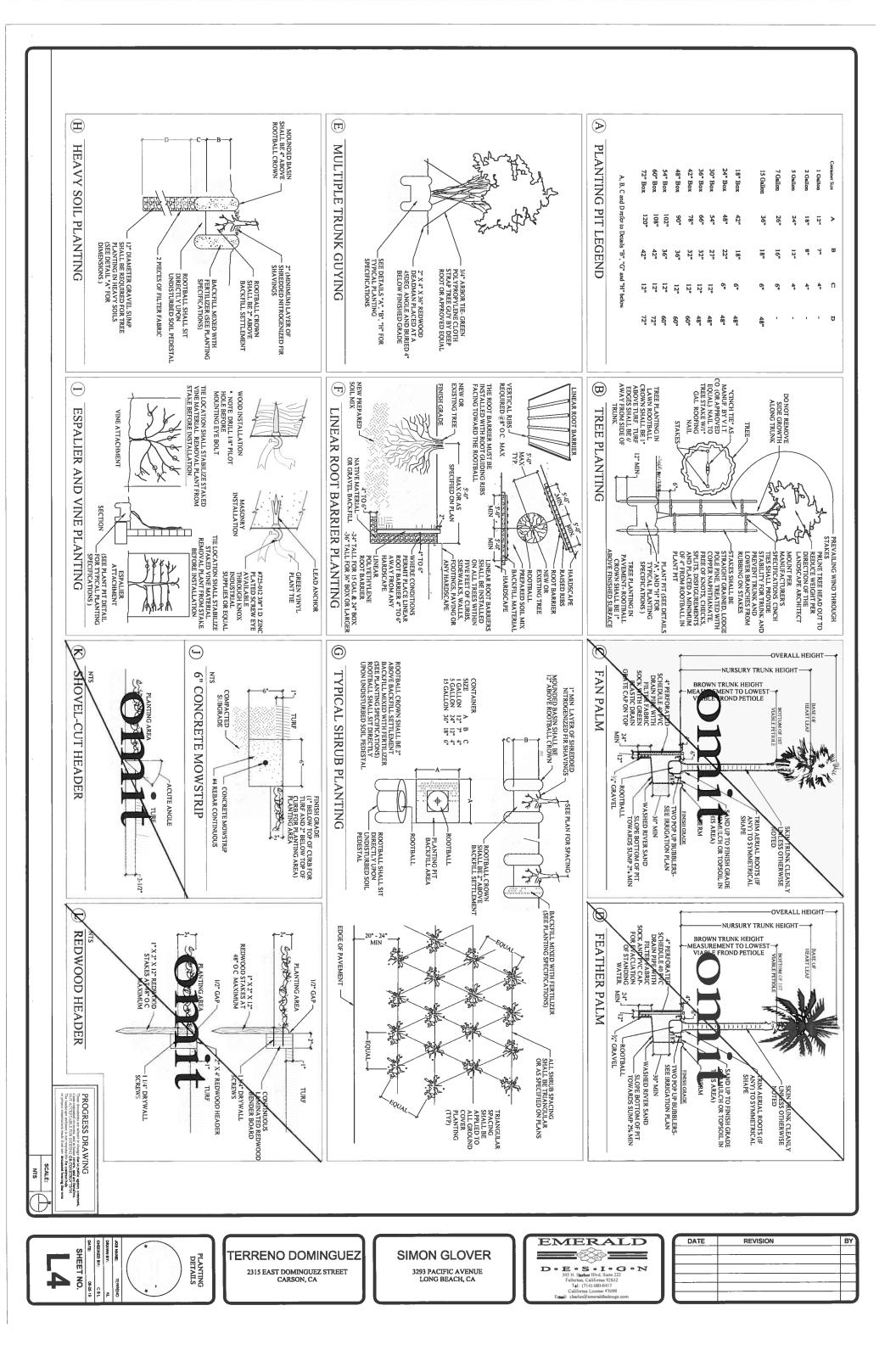


19335 19335 0 30° 60° 90° 120° SCALE: 1"-30' 4"	0.75 0.00 0 0.75 0.00 0 0 0.75 0.00 0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0	ll Inev larani e min to match existing 50 1 Performan bornet Largetton fiber pip bornet Largetton fiber pip bornet largetton (IE) ⁶ 0 8 methead 0 7 methead 0 7 0	& VALVE LEGEND & Manihue up to 1-1/2" and Class 315 for 2" and the Manihue up to 1-1/2" and Class 315 for 2" and supply broader (where occurs)- 1/4" PWC 1/1/2" PWC 1/1/2" PWC 1/1/2" PWC 1/1/2" PWC 1/1/2" PWC 1/1/2" PWC 1/1/2" PWC 1/1/2" PWC 1/1/2" PWC	TLSOV Menual Line Flushing Valve in Valve Bav Ant/Vacuum 3/4" Air/Vacuum Recher Valve Beller Valve Locate at highest pinti in system regardless of where altways or phan. Add additional air relief: valve if multiple high poart evid with a grade difference > 6" high poart evid with a grade difference > 6" iall all Netafin Products per Manufactures Specifications fo phone: 888-638-2346 web www.netafinuma.com	TION DiscRPTION MODEL # DiscRPTION PEB Senies Phasic Ib-line Electric Remote Control Disc Filter \$17 ppm = 3.02 h boain Disc Filter \$17 ppm = 1.02 h line 17522 ppm = 1.12 Filter \$255 ppm = 1.12 Filter 12555 ppm = 1.12 Filter \$255 ppm = 1.12 Filter 1800 Filter \$1.02 Filter	rries Plastie In-line Electric Control Valve-Sized N C 3/4" Quick Coupler Va	825-Y I-1/2* Reduced Pressure Type Backflow Preventer & Ball Valves - Localed in Shrub Area to sereen 1137 Line-sized Gate Valve 100 Series 1* Master Control Valve	CL-105- Wireless Z Below Tryp of Roof on Outside Wall CL-105- Wireless Z Below Tryp of Roof on Outside Wall WIDF ALL COMPONENTS, PROGRAMMING AND DATA T BASED SCHEDULING BY THE IRREATION CONTROLLER R DOCUMENTATION / CERTIFICATION THAT THIS HAS R THIS IS DONE (TEMPONENT FILE INFORMATION FILS MATHER TABUSHMENT PENDO DATE INFORMATION / CERTIFICATION THAT THIS HAS R THIS IS DONE (TEMPONENT) FILE INFORMATION (S MATHER TABUSHMENT PENDO	LEGEND MODEL # DESCRIPTION Total Control 12 Station will mounted automatic ET controller Mount or wall where shows or as directed by owner Conclinate Null electrician to provide 120/VAC powert a curinaler
	LANDSCAPE IRRIGATION	TERRENO DOMINGUEZ 2315 EAST DOMINGUEZ STREET CARSON, CA	SIMON GLO 3293 PACIFIC AV LONG BEACH,	NUE	D • E • S • I • • Bildeno, Childeno 2832 Tei (114)680-417 Californa Licene 21098	J • N	DATE	REVISION	BY



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LANDSCAPE PLANTING PLANTING NUMBER NO. SHEET NO.	TERRENO DOMINGUEZ 2315 EAST DOMINGUEZ STREET CARSON, CA	SIMON GLOVER 3293 PACIFIC AVENUE LONG BEACH, CA	D • E • S • I • G • N Jöl N. Harbor Bird, Switz 222 Fulleren, Californa 92832 Tcf (1/1)680-417 Californa Licere 93078 Fmail: Cherling menntal dascage norm	BY





 (+) routing or sprinkter pressure times (unnersion max. 100 along routing) (5) Sprinkler control valves. (6) Routing of control wiring. (7) Quick coupling valves. (8) Other related equipment as directed by the Architect. (8) Other related equipment as directed by the Contractor shall deliver the corrected and d. On or before the date of the final inspection, the Contractor shall deliver the corrected and completed Record Drawings/ As-Builts to the Owner. Delivery of theses drawings will not relieve the Contractor of the responsibility of furnishing required information that may be omitted from the 	 (1) Connection to existing water lines. (2) Connection to existing electrical power. (3) Gate values. 	reproductive material c. On the Record Drawings/ As-Builts the contractor shall dimension from two permanent points of reference points of reference building corners sidewalk or read intersections; set the locations	 a. The contractor shall prepare Record Drawings or As-Built plans showing the final construction field condition irrigation system b. The Record Drawings/ As-Built plans shall be accurate, legible, and to a measurable scale, i.e.; 1ⁿ=20ⁿ, 1/8ⁿ =1¹-0ⁿ or other standard scale. These drawings are to be prepared on mylar or other 	Approval of any item, alternate or substitute indicates only that the product or products apparently meet the requirements of the drawings and specifications on the basis of the information or samples submitted.	Substitute equipment or materials installed or furnished without prior approval of the architect may be rejected and the Contractor required to remove such materials from the and replace them with approved materials site at his own expense.	C. SUBMITTALS 1. Material List Furnish the articles, equipment, materials or processes specified by name in the drawings and specifications. No substitution will be allowed without prior written approval by the Architect.	The contractor shall not willfully install the irrigation system as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or discrepancies in area dimensions exist that might not have been considered in engineering. Such obstructions or differences should be brought to the attention of the Owner's authorized representative. In the event this notification is not performed, the Contractor shall assume full responsibility for any revision necessary at no additional cost to the Owner.	Drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation systems, other utilities planting, and architectural features.	4. Explanation of Drawings Contractor is responsible for all offsets, fittings, sleeves, fixtures, and appurtenant devices etc., which may be required for proper operation and construction of the system. Contractor will carefully investigate the structural and finished conditions affecting all of the work and plan the work accordingly. furnishing such fittings, etc., as may be required to meet such conditions.	construed to conflict with any of the above rules and regulations of the same. However, when these specifications and drawings call for or describe materials, workmanship, or construction of a better quality, higher standard, or larger size than is required by the above rules and regulations, the conditions of these specifications and drawings shall take precedence.	3. Ordinances and Regulations All local, municipal and state laws, and rules and regulations governing or relating to any portion of this work are hereby incorporated into and made a part of these specifications and their provisions shall be carried out by the Contractor. Anything contained in these specifications shall not be	 Manufacturer's Directions Manufacturer's directions and detailed drawings shall be followed in all cases where the manufacturers of materials and articles used in this contract furnish directions covering points not shown in the drawings and specifications. 	 Permits and Fees The Contractor shall obtain and pay for any and all permits and all inspections as required. 	Provide all labor, materials, equipment, and services necessary to furnish and install Irrigation System as shown on the drawings and described herein. B. QUALITY ASSURANCE AND REQUIREMENTS	1. GENERAL A. SCOPE OF WORK	Note: The general and specific conditions of these specifications are an integral part of the landscape construction documents and must be complied with.	IRRIGATION SYSTEM SPECIFICATIONS
PHONE DATE OF ACCEPTANCE:	SIGNED: Contractor ADDRESS:	PROJECT:	reasonable time, as determined by the Owner, after receipt of written notice. In the event of our failure to make such repairs or replacements within a reasonable time after receipt of written notice from the Owner, we authorize the Owner to proceed to have said repairs or replacements made at our expense and we will pay the costs and charges therefor upon demand.	We hereby guarantee that the sprinkler irrigation system we have furnished and installed is free from defects in materials and workmanship, and the work has been completed in accordance with the drawings and specifications, ordinary wear and tear and unusual abuse or neglect excepted. We agree to repair or replace and defects in material or workmanship which may develop during the period of one year from date of acceptance and also to repair or replace any damage resulting from the repairing or replacing of such defects at no additional cost to the Owner. We shall make such repairs or replacements within	GUARANTEE FOR SPRINKLER IRRIGATION SYSTEM	E. GUARANTEE The guarantee for the sprinkler irrigation shall be made in accordance with the form shown below. A copy of the guarantee form shall be included in the operations and maintenance manual. The guarantee form shall be re-typed onto the Contractor's letterhead and contain the following information:	D. PRODUCT DELIVERY, STORAGE AND HANDLING Handling of PVC Pipe and Fittings: The Contractor is cautioned to exercise care in handling, loading unloading, and storing PVC pipe and fittings. Do not subject PVC pipe to undue bending or concentrated external load at any point. Any section of pipe that has been dented or damaged will be discarded and, if installed, shall be replaced with new piping.	The above-mentioned equipment shall be turned over to the Owner at the conclusion of the project. Before final inspection can occur, evidence that Owner has received material must be shown to the Architect.	 c. Two keys for each automatic controller. d. One quick coupler key and matching hose swivels per four quick coupling valves installed. e. Two sets of operation manuals for automatic controllers and valves. f. Any other equipment deemed necessary by the Manufacturer's instructions to the proper operation of the irrigation system. 	Supply as a part of this Contract the following tools: a. Two sets of any special tools required for removing, disassembling and adjusting each type of sprinkler and valve supplied on this project. b. Two five-foot valve keys for operation of gate valves.	 In addition to the above mentioned maintenance manuals, provide the Owner's maintenance personnel with instructions for major equipment and show evidence in writing to the Architect at the conclusion of the project that this service has been rendered. Equipment to be Furnished 	 Operating and Maintenance Manuals Prepare and deliver operation and maintenance manuals as specified in Division 1 and as follows: Catalog and parts sheets on every material and all equipment installed under this Contract. Guarantee statement. Complete operating and maintenance instructions on all major equipment. 	g. These charts shall be completed and approved prior to final inspection of the irrigation system.	 The circuits shown on the chart shall be color-coded and a different color shall be used to indicate the area of coverage for each controller station. When completed and approved, the chart shall be hermetically sealed between two pieces of plastic, each piece being a minimum 10 mils thick. 	d. The chart is to be a reduced drawing of the actual As-Built system. However, in the event the controller sequence is not legible when the drawing is reduced, the information shall be enlarged to a size that will be readable when reduced.	 a. Record unawings shall be approved by the Atomic before controller charts are prepared. b. Provide one controller chart for each controller supplied. c. The chart shall show the area controlled by the automatic controller and shall be the maximum size which the controller door will allow. 	oller Charts Record drawings shall
9. Check Valves Anti-drain valves shall be of heavy-duty vir Internal parts shall be stainless steel and nec draw out from 5 to 40 feet of head. The anti approved equal.	 a. backflow prevention units snall be of size backflow prevention units in accordance wi codes. b. Wye Strainers at backflow prevention un model screen and shall be Watts #777 or ap 	8. Backflow Prevention Units	7. Quick Coupling Valves a. Quick coupling valves shall have a brass P.S.I.	 6. Gate Valves a. Gate valves 3" and smaller shall be 125 lb non-rising stem and solid wedge disc. b. Gate valves 3" smaller shall be threaded of c. Gate valves 3" and smaller shall be similar d. All gate valves shall be installed per instal 	a. Where indicated on the drawings, use red #WW-P-351.b. Fittings shall be red brass conforming to	galvanized or stainless steel bands f. All risers and fittings used on UVR IPVC " Brownline Pipe C.o.". 5. Brass Pipe and Fittings	piping and installation shall be in accordance. International Association of Plumbing and 1 c. All lateral piping shall be installed on the "J" hooked radius driven 24" into solid grou d. Horizontal piping stakes shall be within 1 e. Each pipe riser serving a sprinkler head st constructed of a #4 rebar driven 24" into sol	 UVR I PVC Pipe on Grade All pipe on grade shall be schedule 40 UV All pipe and fittings shall bear a permane 	resin specification D1784. All pipe shall m PS-22-70, with an appropriate standard dimension c. Except as noted in section II-A2, a & b, a fittings shall be the same as for solvent-weld section II-A-2 of these specifications.	 PVC Non-Pressure Lateral Line Piping a. Non-pressure buried lateral line piping sh b. Pipe shall be made from NSF approved, 	 (3) Schedule or Class. (4) Pressure rating in PSI. (5) NSF (National Sanitation Founda f. All fittings shall bear the manufacturer's r I.P.S. schedule and NSF seal of approval. 	 d. Solvent cement and primer for PVC solvinstallation methods prescribed by the man. e. All PVC pipe shall bear the following ma (1) Manufacturer's name. (2) Nominal pipe size. 	 c. PVC solvent-weld fittings shall be Sched test procedure D2466. 	 1-1/2" and smaller. b. Pipe shall be made from NSF approved to resin specification 1785. All pipe shall mee PS-21-70 (Solvent-weld pipe). 	2. PVC Pressure Main Line Pipe and Fittings	 A. MATERIALS I. General: Use only new materials of brands and equals. 	II PRODUCTS

types noted on drawings, specified herein, or approved

Line Pipe and Fittings line piping for all sizes shall be PVC Class 315 for 2" and larger, schedule 40 for

made from NSF approved type 1, Grade 1 PVC compound conforming to ASTM ion 1785. All pipe shall meet requirements as set forth in Federal Specifications

weld fittings shall be Schedule 40, 1-2, II-I NSF approved conforming to ASTM

and primer for PVC solvent-weld pipe and fittings shall be of type and hods prescribed by the manufacturer. shall bear the following markings:

ation) approval. name or trademark material designation, size, applicable

buried lateral line piping shall be PVC schedule 40 with solvent weld joints. made from NSF approved, Type 1 Grade II PVC compound conforming to ASTM ion D1784. All pipe shall meet requirements set forth in Federal Specification ropriate standard dimension ratio.

ted in section II-A2, a & b, all requirements for non-pressure lateral line pipe and the same as for solvent-weld pressure main line pipe and fittings as set forth in

grade shall be schedule 40 UVR/ PVC pipe. fittings shall bear a permanent identifiable label of "Brownline UVR/ PVC. The allation shall be in accordance with the requirements of the latest edition of the usociation of Plumbing and Mechanical Officials (IAPMO) Standard IS-8. ping shall be installed on the surface and anchored at 10' O.C. by a #3 rebar with a ins driven 24" into solid ground.

#4 rebar driven 24" into solid ground and fastened to the riser by two (2) ainless steel bands. ping stakes shall be within 12" of the sprinkler riser. er serving a sprinkler head shall be anchored by a riser stabilizer assembly 2" of the sprinkler riser

fittings used on UVR IPVC pe C.o.". pipe shall be IFS schedule 40 or 80 as manufactured by

brass screwed pipe conforming to Federal Specification

be red brass conforming to Federal Specification #WW-P-460.

b. SWP bronze gate valve with screw-in bonnet,

and smaller shall be 125 I

blid wedge disc. 3" smaller shall be threaded ends and shall be equipped with a bronze handwheel. " and smaller shall be similar to those manufactures by Nibco or approved equal. es shall be installed per installation detail.

two-piece body designed for working pressure of 150

vention units shall be of size and type indicated on the irrigation drawings. Install ntion units in accordance with irrigation constructions details, and local prevailing

s at backflow prevention units shall have a bronzed screwed body with 60 mesh nd shall be Watts #777 or approved equal.

es shall be of heavy-duty virgin PVC construction with F.I.P. thread inlet and outlet hall be stainless steel and neoprene. Anti-drain valves shall be field adjustable again 5 to 40 feet of head. The anti-drain valve shall be similar to the Valcon ADV or

PROGRESS DRAWING The documents or subject to charge due to really again or comm Transpondent from and a show record on the or from the strand activity and a provide the control that the strategy and the stort responsible or construction. The blackey and the stort responsible or construction or propositionation made from any document learning that note

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 C. INSTALLATION 1. Trenching Dig trenches straight and support pipe continuously on sand or native bedding at bottom of trench. Remove all stones or sharp objects from trench. Lay pipe to an even grade. Trenching excavation shall follow layout indicated on drawings and as noted. b. Provide for a minimum of eighteen (18") inches cover for all pressure supply lines. c. Provide for a minimum cover of (12") inches for all non-pressure lines.
 B. PREPARATION I. Physical Layout a. Prior to installation, the Contractor shall stake out all pressure supply lines, routing and location of sprinkler heads. b. All layout shall be approved by Architect prior to trenching. 2. Water Supply a. Sprinkler irrigation system shall be connected to water supply points of connections as indicated on the drawings. 3. Electrical Supply a. Electrical connections for automatic controller shall be made to electrical points of connections as indicated on the drawings. b. Contractor is responsible for minor changes caused by actual site conditions.
 Site Conditions All scaled dimensions are approximate. The contractor shall check and verify all size dimensions a. All scaled dimensions are approval prior to proceeding with work under this Section and receive Architect's approval prior to proceeding with work under this Section b. Exercise extreme care in excavating and working near utilities. Contractor shall be responsible for damages to utilities which are caused by his operation or neglect. Check existing utilities drawings for existing utility locations. c. Coordinate installation of sprinkler irrigation materials, including pipe, so there shall be no interference with utilities or other construction or difficulty in planting trees, shrubs, or groundcovers.
III. EXECUTION A. INSPECTION
 14. Sprinkler Heads a. All sprinkler heads shall be of the same size, type, and deliver the same rate of precipitation with the diameter (or radius) of throw, pressure, and discharge as shown on the plans and/or specified on these special provisions. b. Spray heads shall have a screw adjustment. c. Riser units shall be fabricated in accordance with the details. d. Riser nipples for all sprinkler heads shall be the same size as the riser opening in the sprinkler head.
 b. Provide and install one control valve box for each electric control valve. 13. Control Valve Boxes a. Use 9 by 24 inch round box for all gate valves. Brooks #9 or approved equal. b. Use 9-1/2 by 16 by 1 I-inch rectangular box for all electrical control valves, Carson Industries 1419-12B or approved equal.
 Electric Control Valves All electric control valves shall have a manual flow adjustment. Encurids and install one control valves have for each electric control valve
 Automatic Controllers Automatic controllers and climate sensors and flow sensors shall be of size and type shown on the Plans. Final location of automatic controllers shall be approved by the Owner's authorized representative. Unless otherwise noted on the plans, the 120 volt electrical power to the automatic controller location to be furnished by others. The coordination with Electrical Contractor and final electrical hook-up shall be the responsibility of the irrigation contractor. The contractor is responsible for properly programming the controller inconjunction with specified sensors. Coordinate with the manufacturer for any needed assistance.
 Control Wiring Connections between the automatic controllers and the electric control valves shall be made with direct burial copper wire AWG-U.F. 600 volt. Pilot wires shall be a different color stripe for each automatic controller. Install in accordance with valve manufacturer's specifications and wire chart. In no case shall wire size be less than #14. Wiring shall occupy the same trench and shall be installed along the same route as pressure supply or lateral lines wherever possible. Where more than one (1) wire is placed in a trench, wiring shall be taped together at intervals of ten (10) feet. An expansion curl shall be provided within three (3) feet of each wire connection. Expansion curl shall be of sufficient length so that in case of repair, the valve bonnet may be brought to the surface without disconnection of the control wires. Control wires shall be laid loosely in trench without stress or stretching of control wire conductors. All splices shall be made with Scotch-Lok #3576 Connector Sealing Packs, Rainbird snap-rite connector, or approved equal. Use one splice per connector saling pack.

2. Backfilling

a. The trenches shall not be backfilled until all required tests are performed. Trenches shall be carefully backfilled with the excavated material approved by the Soils Engineer for backfilling areas, humps or other surface irregularities. undisturbed soil in planting areas. Backfill will conform to adjacent grades without dips, sunken, earth or stones. Backfill shall be compacted in landscape areas to a dry density equal to adjacent consisting of earth, loam, sandy clay, sand, or other approved materials, free from large clods с,

b. No foreign matter larger than one-half (1/2) inch in size will be permitted in the initial backfill. c. Flooding of trenches will be permitted only with the approval of the Soils Engineer and

d. If settlement occurs and subsequent adjustments in pipe, valves sprinkler heads, lawn or planting, or other construction are necessary, the Contractor shall make all required adjustments without cost to the Owner Architect.

 Trenching and Backfill Under Paying

 Trenching and Backfill Under Paying
 Trenches located under areas of paving, asphaltic concrete shall be backfilled with sand (a layer six inches below the pipe and three inches above the pipe) and compacted in layers to 90% left flush with the adjoining grade. The sprinkler irrigation Contractor shall set in place, cap and pressure test

 all piping under paving prior to the paving work.

b. Generally, piping under existing walks is done by jacking, boring or hydraulic driving, but where any outting or breaking of sidewalks and or concrete is necessary, it shall be done and replaced by the Contractor as part of the Contract cost. Permission to cut or break sidewalks and or concrete

shall be obtained from the Property Owner. c. Provide for a minimum cover of twenty-four inches between the top of the pipe and the bottom paving. of the aggregate base for all pressure and non-pressure piping installed under asphaltic concrete

4. Assemblies

a. Routing of sprinkler irrigation lines as indicate on the drawing is diagrammatic. Install lines and various assemblies to confirm with the details shown on drawings.

b. Install no multiple assemblies on plastic lines. Provide each assembly with its own outlet. c. Install all assemblies specified herein in accordance with respective detail. In absence of detail d. PVC pipe and fittings shall be thoroughly cleaned of dirt, dust, and moisture before installation. work in accordance with best standard practice with prior approval of Architect drawings or specifications pertaining to specific items required to complete work, perform, such

e. On PVC to metal connections, the Contractor shall work the metal connections first. Teflon tape manufacture installation and solvent-welding methods shall be as recommended by the pipe and fittings

or approved equal shall be used on all threaded PVC to PVC, and on all threaded PVC to metal joints. Light wrench pressure is all that is required. Where threaded PVC connections are required use threaded PVC adapters into which the pipe may be welded.

5. Line Clearance

a. All lines shall have a minimum clearance of six inches from each other. Parallel lines shall not be No other trades are allowed in same trench with irrigation pipe installed directly over one another.

6. Automatic Controller

b. Install as per manufacturer's instructions. Remote control valves shall be connected to controller Install controller in a vandal-proof enclosure.

in numerical sequences shown on the drawing.

Automatic controllers shall be of size and type shown on the plans.
 d. Final location of automatic controllers shall be approved by the Owner's authorized

e. Unless otherwise noted on the plans, the 120 volt electrical power to the automatic controller location to be furnished by others. The final electrical hook-up shall be the responsibility of the representative

irrigation contractor.

DOX f. Remote Control Valves Install where shown on drawings and details. When grouped together, allow at least twelve inches between valves. Install each remote control valve in a separate valve

7. Flushing of System

a. After all new sprinkler pipe lines and risers are in place and connected, all necessary diversion work has been completed and prior to installation of sprinkler heads the control valves shall be opened and a full head of water used to flush out the system.

complete satisfaction of the Architect b. Sprinkler heads shall be installed only after flushing of the system has been accomplished to the

8. Sprinkler Heads

a. Install the sprinkler heads as designated on the drawings. Sprinkler heads to be installed in this work shall be equivalent in all respects to those itemized. b. Spacing of heads shall not exceed the maximum indicated on the drawings. In no case shall the

spacing exceed the maximum recommended by the manufacturer.

D. TEMPORARY REPAIRS

c. Provide for a minimum cover of (12") inches for all non-pressure lines.
 d. Provide for minimum cover of eighteen (18") inches for all control wiring.

a. The Owner reserves the right to make temporary repairs as necessary to keep the sprinkler system equipment in operating condition. The exercise of this right by the builder-Developer shall not relieve the Contractor of his responsibilities under the terms of the guarantee as herein specified.

will not be performed until this charge

is paid. JUSCI VAL

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portal plus transportation cost. Subsequent inspections

E. FIELD QUALITY CONTROL

1 Adjustment of the System a. The Contractor shall flush and adjust heads for optimum performance and to prevent overspray onto walks, roadways, walls fences, windows, and buildings as much as possible.
b. If it is determined that adjustments in the irrigation equipment will provide proper and more adequate coverage, the Contractor shall make such adjustments prior to planting. Adjustments may also include changes in nozzle sizes and degrees of are as required.
c. Lowering raised sprinkler heads by the Contractor shall be accomplished within ten days after

d. All sprinkler heads shall be set perpendicular to finished notification by Owner.

grades unless otherwise designated on

the plans.

 Testing of Irrigation System

 a. The Contractor shall request the presence

 of testing

F. MAINTENANCE

1. The entire sprinkler irrigation system days prior to any planting

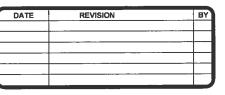
G. CLEAN-UP

H. FINAL OBSERVATION PRIOR TO ACCI

charts, record drawings, and equipment

I. OBSERVATION SCHEDULE

a. The Contractor shall request the presence of the Architect in writing at least 48 hours in advance
or resung. b. Test all pressure lines under hydrostatic pressure of 150 pounds per square inch and prove unierinte
NOTE: Testing of pressure main lines shall occur prior to installation of electric control valves.
c. All piping under paved areas snall be tested under nydrostatic pressure or i bo pounds per square inch and proved watertight prior to paving. A Suttain presence in mainlines for not less than 4 hours. If leaks develon, replace joints and repeat
 cusami pressure in immining to not near the index of the and convey repressions are open test until entire system is proven water-tight. All hydrostatic tests shall be made only in the presence of the Architect and City I andscane
e. All nyorostatic tests shall be made only in the presence of the Architect and City Lancesepe Inspector or other duly authorized representative of the Owner. No pipe shall be backfilled until it has been inspected, tested and approved in writing and shall be re-tested after backfill operations are
complete. f. Furnished necessary force pump and all other test equipment. a When the sociation extern is completed perform a coverage test in the presence of the
Architect to determine if the water coverage for planting areas is complete and adequate. furnish all materials and perform all work required to correct any inadequacies of coverage due to deviations from plans 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 Architect. This test shall be
h. Upon completion of each phase of work, the entire system shall be tested and adjusted to meet site requirements.
INTENANCE
 The enture sprinkter irrigation system shall be under full automatic operation for a period of seven days prior to any planting. The Architect reserves the right to waive or shorten the operation period.
EAN-UP
Clean-Up shall be made as each portion of work progresses. Refuse and excess dirt shall be removed from the site, all walks and paving shall be broomed or washed down, and any damage sustained to the site or the work of others shall be repaired to its original condition.
IAL OBSERVATION PRIOR TO ACCEPTANCE
 The Contractor shall operate each system in its entirety for the Architect at time of final observation. Any items deemed not acceptable by the Observer shall be reworked to the complete satisfaction of the Architect. The Contractor shall show evidence to the Architect that the Owner has received all accessories, charts, record drawings, and equipment as required before final observation can occur.
SERVATION SCHEDULE
 Contractor shall be responsible for notifying the Architect in Advance for the following observations according to the time indicated: Pre-Job Conference - 7 days Pressure supply line installation and testing - 4 days Automatic Controller installation - 4 days
e. Lateral line and sprinkler installation - 4 days f. Coverage test - 4 days g. Final observation - 7 days
2. When inspections have been conducted by other than the Architect, show evidence of when and by whom these inspections were made.
3. No observation shall commence without As-Built drawings. In the event the Contractor calls for an observation without As-Built drawings, without completing previously noted corrections, or without preparing the system for observations, he shall be responsible for reimbursing the Architect at the hourly rate in effect at the time the observation, portal to







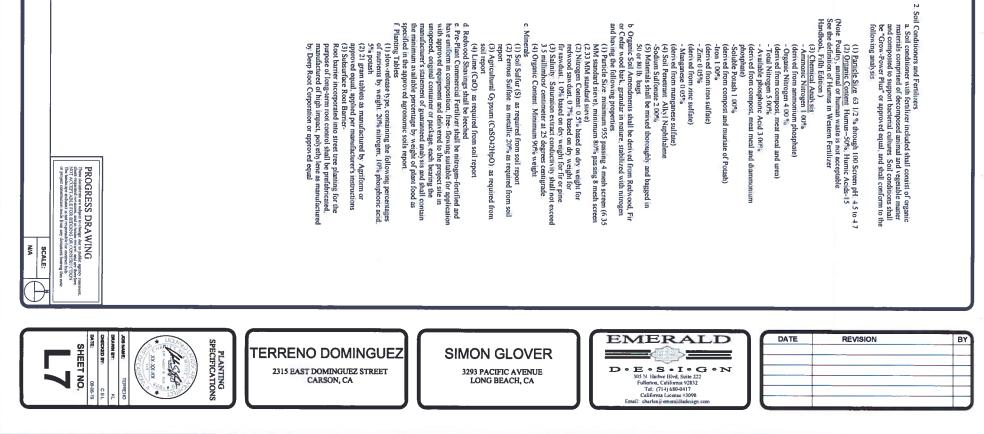




 B QUALITY ASSURANCE
 I Source Quality Control
 a Submit documentation that all plant material has been ordered to least five days prior to start of work under this Section Arrange procedure for inspection of plant material with Architect at time of submission.
 b Plants shalt be subject to inspection and approval of Architect at place of growth upon delivery for conformity to specifications. Such approval shalt not impair the right of inspection of plant material with Breatmann of plants is not available for inspection.
 c The Landscape Contractor that is will be responsible for financial reimbursement to the Landscape Architect for Additional and unanticipated time and materials equived to a substantiad on organize, redesign, re-inspect or to do whatever is required to generical as substantiad for immance to the Plants and Specifications back to an acceptable installation. Said reimbursement will in the form of a charge to the Contractor form the Owner. 3. Agricultural suitability analysis of soil a. Must include pH measurement in the Saturation Extract, Electrical Conductivity of the saturation extract and Sodium Adsorption Ratio o saturation extract. The approved procedures are the following E JOB CONDITIONS 1 Planting **D PRODUCT DELIVERY, STORAGE AND HANDLING** C SUBMITTALS A SCOPE OF WORK Furnish all labor, materials, equipment, and services necessary to provide all landscape planting as shown on the drawings and specified Note 'The general and specific conditions of these specifications are an integral part of the landscape construction documents and must be complied with GENERAL LANDSCAPE PLANTING SPECIFICATIONS SAMPLES AND TESTS 1. The Landscape Architect reserves the right to take and analyze samples of materials for conformity to specifications at any time. Contractor shall furnish samples upon request by Landscape Architect. Rejected materials shall be immediately removed from the site and premises at Contractor's expense. Cost immediately removed from the site and premises at Contractor's expense. responsible i soils report. 2 Agricultural Suitability of the soil shall be determined by a credentialed soil science laboratory. The Laboratory shall prepare a written report on the soil testing which shall include a detailed description of test results along with recommendations for backfill and surface soil amendments. The contractor shall be recommendations of the testing and for following the recommendations of the agronomic concentration of the testing and for following the recommendations of the agronomic responsible for the testing and for following the recommendations of the agronomic concentration. 2 Pruving At no time shall the tree or plant materials be pruned, trimmed or topped prior to delivery, and alteration of their shape shall be conducted only with the approval of the Landscape Architect and scape Architect reserves the right to approve or reject at any time upon delivery or during the work any or all plant material regarding size, variety or testing of materials not meeting specifications shall be paid by Contractor c Protect mat Perform actual planting only when weather and soil conditions are suitable in accordance with locally accepted practice 2 Scheduling Install trees, shrubs and liner stock plant material before hydraulic seeded lawn areas a. Do not drop plant material b. Do not pick up container plant material by stems or trunks Two copies of soils tests performed by an approved agronomic soils testing laboratory shall be submitted with plans. All soil samples shall be taken in the field by a qualified soils technician and submitted with plans to testing labs unless prior approval for alternative procedures is given by the City Engineer Tests shall include a fertility and suitability analysis with written recommendations Contractor shall comply with recommendations given for soil amendments, plant material shall comply with recommendations given for soil amendments, plant material shall comply with recommendations given for soil amendments. b Deliv are eaves leaves of all plant materials and shall submit an iterrized list of plants in each delivery of all plant materials and shall submit an iterrized list of plants in each delivery. Certificate of Inspection of plant material by State or Federal Authority Soils Test gible for at least 60 days Protect material during delivery to prevent damage to rootball or desiccation of Store plant material in shade and protect from weather. Maintain and protect plant material not to be planted within four hours installed. ver fertilizer to site in original, unopened containers bearing manufacturer's teed chemical analysis, name, trademark and conformance to State Law. ver plants with legibie identification labels 1 Label trees, evergreens, bundles of containers of like shrubs or groundcover State correct plant name and size indicated on plant list. Use durable, waterproof labels with water-resistant ink which will remain and irrigation equipment The approved procedures are the following pH Method 21 Saturation Extract Sodium Adsorption Ratio Method 2 Method 20 orption Ratio of the b The following nutrients and elements must be determined with an American Society of Agronomy or Soll Science Society of America approved extraction method Interpretation data must be given citing concentrations which are considered to be low, medium and high boron, calcium, copper, iron, magnesium, manganese, moly bdenum, phosphorus, potassium, sodium, sulfur, and zine
(1) The approved methods are those cited by the Council on Soil Testing and Plant Analysis and hose methods eurrently published by Soil Science and Soil Science and Soil Science Society of America anarvals, Communications in Soil Science and Plant Analysis. Soil Science and Soil Science Society of America Journal Approved methods for phosphorus are Bary P1, Bary P2, Olsen P, DTPA, ammonium aceute, and ammonium bicarbonate-DTPA. Approved methods for boron are hot water extract and ammonium bicarbonate of the enalyzed for calcium, magnesium, sodium, boron, chloride, phosphorus, arite and suffate.
c The saturation extract must be analyzed for calcium, magnesium, sodium, boron, duminum, arsenic, cadmium, chromium, choslit, lead. lithium, nicket, selenium, silver, strontum, in and vanadum. A. GENERAL The following organic soil amendments and fertilizer are to be used for bid price basis only. Specific amendments and fertilizer specifications will be made after grading operations are complete and soil samples are tested by Owner. All material shall be of standard, approved and first-grade quality and shall be in prime condition when installed and accepted. Any commercially processed or packaged material shall be delivered to the site in the original, unopened container bearing the manufacturer's guaranteed analysis. Contractor shall suply Landscape Architect with a sample of all supplied materials accompanied by analytical data from an approved laboratory source illustrating compliance or bearing the manufacturer's guaranteed analysis. f. Soil Texture (gravel, sand, silt and clay) must be determined. Determine organic matter shall be determined by measurement of organic carbon. The quality of the organic matter shall be determined by measuring organic carbon and total nitrogen. Interpretation of matritical deficiencies or excesses and potential toxicilies must be given. In Determine the following by methods approved by the American Society of Agronomy as published in the Methods of Soil Analysis, methods of the United States Salinity Laboratory as published in the Agricultural Handbook Number 60 entitled "Diagnosis and Improvement of Saline and Alkali Soils," and bulk density of clods by the method published in Soil Science, vol 155, 322-330 (1933). Exchangeable Annomium cation B SPECIFIC 1 Suitable Import, Borrow Topsoil or Reclaimed soil a *General* - Topsoil shall be free of roots, clods, stones larger than 1-inch in the greatest dimension, pockets of coarse sand, novious weeds, slocs, lumber, brush and other litter. It shall not be infested with nematodes or other undesirable disease-causing organisms such as insects and plant i If required for more complete soil characterization, determine the following by methods approved by the American Society of Agronomy as published in the Methods of Soil Analysis, methods of the United States Satinity Laboratory as published in the Agricultural Handbook Number 60 emittled "Diagnosis and Improvement of Saline and Alkali Soils," and bulk density of clods by the method published in Soil Science, vol 155, 325-330 (1993) Carbonates Measurement II. PRODUCT **G** GUARANTEE AND REPLACEMENTS All plant material installed under the Contract shall be guaranteed against any and all poor, inadequate or inferior materials and/or workmarship for a period of one year (trees) or 6 months (strubs) faller date of acceptance by Owner. Any plant found to be dead or in poor condition due to faulty materials or workmarship, as determined by the Landscape Architect, shall be replaced by the Contractor at his expense. 2. Replacement Any materials found to be dead, missing or in poor for during the establishment period shall be replaced immediately. The Landscape Architect, or his/her consultants, shall be the sole judge as to the condition of material to be replaced twithin the guarantee period shall be replaced by the contractor within 15 days of written notification by the Owner. determined Ele Properties 1 Grow a dicot plant species and a monocot species with and without activated charcoal. Measure yield and percent of germination for all treatments Report conclusions and findings mental determinations to made according to methods approved by the EPA or by the American Society of Agronomy a Optional - Growth Test for Toxic Constituents and/or Poor Physical Methods of the United States Salinity Laboratory as published in the Agricultural Handbook Number 60 entitled "Diagnosis and Improvement of Saline and Akali Soil Bulk Density (Compaction) Cation Exchange Capacity Water Infiltration Rate - Method 34b of Agricultural Handbook Number 60 Topsoil shall be friable and have sufficient structure in order to give good health and aeration to the soil. auon

(1) If the soil pH is between 6 and 7, the maximum permissible elemental concentration shall be reduced 50% If the soil pH is less than 6.0, the maximum permissible elemental concentration shall be reduced 75%. No more than three metals shall be present at 50% or more of the above values. (2) Phytototic constituent, herbicidge, hydroxrboxe scic - Germination and growth of monecots and ticous shall not be restricted more than 10% compared to the reference soil. Total percolaum hydrocarbons shall not exceed 50 mg/kg dry soil measured per the modified EPA Method No 8015. Total aromatic value or anal not exceed 0.5 mg/kg dry soil measured per EPA Methods No. 8020. h Borow The maximum concentration of soluble boron in the saturation extract h Borow The maximum concentration of soluble boron in the saturation extract (Method 3a, USDA Handbook Number 60) J Solum Advergina Natur (SAB) - The maximum SAR shall be 1 mg/l (parts per milion) J Advantary TAP (SAB) - The maximum SAR shall be 3 measured per J Advantary TAP (SAB) - The maximum SAR shall be 3 measured per Bicarbonau/DTA Estruction shall be less than 3 parts per milion Bicarbonau/DTA Estruction shall be less than 3 parts per milion & Soli Organic Matter Content - Sufficient sol organic matter shall be present to impart good physical soil properties but not be excessive to cause toxicity of cause excessive reduction in the volume of sol due to decomposition of organic matter. The desirable maye is 3% to 5%. The carbon nitrogen ratio should be about 10. A high carbon nitrogen ratio can indicate the presence of hy drocarbons or non-humified organic matter. 1 Calcium Carbonau Content - Free calcium carbonate (timestone) shall not be mesen for not Jownen former. c Curving Control C Concentration of nutrents for final acceptance Ammonium Bicarbonate/DTPA Extraction parts per million (mg/kilogram dr. weight basis e. Acidity - The soil pH range measured in the saturation extract (Method 2 Ia, USDA Handbook Number 60) shall be 6 0 - 7.9 f Salntiy - The salinity range measured in the saturation extract (Method 3a, f Salntiy - The salinity range measured in the saturation extract (Method 3a, USDA Handbook Number 60) shall be 0.5 - 2.5 dS/m. g Chloride - The maximum concentration of soluble chloride in the saturation scritter (Method 3a, USDA Handbook Number 60) shall be 150 mg/l (parts per milico). b. Gradium limits - soil shall be a sandy loam, loam, or clay loam. The definition of soil texture shall be the USDA classification scheme. Gravel over vs-inch in diameter shall be loss than 20% by weight. C Pernechtly Rate - Hydraulic conductivity me shall be not less than one inch per hour nor more than 20 inches per hour when tested in accordance with the USDA Handbook. Number 60, method 34b or other approved methods. Solowie d Fertility - The range of the essential elemental concentration in soil shall be as following the statement of the second scheme in the s Soil may need to be amended and conditioned to optimize plant growth. The above listed fertility is for soil selection. arsenic cadmium chromium cobalt lead mercury nickel selenium silver vanadium parts per million (dry weight basis Ammonium Bicarbonate/DTPA Extraction parts per million (mg/kilogram) dr. weight basis phosphorus 2 - 410 procession phosphorus potassium iron marganese zinc copper boron magnesium sodium iron manganese zinc copper boron magnesium sodium sulfur moly bdenum sulfur molybdenum potassium 3 3 1 3 0 5 3 3 0 5 3 3 0 5 3 10 - 40 100 - 220 24 - 35 0 6 - 6 1 - 8 0 3 - 5 0 2 - 1 50 - 150 0 - 100 25 - 500 0 1 - 2 -2 - 40 40 - 220 2 - 35 0 3 - 6 0 1 - 5 0 1 - 5 0 2 - 1 50 - 150 0 - 100 2 5 + 500 0 1 - 2

Soil Conditioners and a. Soil conditione



d. An o finne shall trees or plant material be pruned, trimmed or topped prior to delivery, and any alteration of their shape shall be conduced only with the approval and when in the presence of the Landscape Architect and as noted on the Planting Specifications
e. Plant material shall be true to board of a compon name and variety as specified in "A Checklist of Woody Omamenial Plants in California," Manual 32 published by the University of California Stock.
n. A Crown and Collected Stock.
a. Grown under climatic conditions similar to those in locality of project.
b. Container-grown stock in vigoous, healthy condition, no root bound plant or plants with root system hardened off.
c. Substitute plant material will not be permitted unless specifically approved in writing by the Architect.
Three Staking Material

a. Stakes for Tree Support
(1) Full length, lodg pole, pine stakes, treated with copper naphthanate (2) Minimum nominal size 2" in diameter x 12" long and pointed at one end (duisted length to fit tree)
b. Hose and Wire Tres

(2) All gays are to be flagged. Ninety percent wite length is to be covered. White PVC 1/4 inch diameter tube covering shall be used. 4 Plant Material
a Plants shall be in accordance with the California State Department of Agriculture's regulation for nursery inspections, rules and ratings. All plants shall have a normal habit of growth and shall be stundy, and valid and the state of abrasions or other objectionable disfigurements. The trunks shall be sturdy and well "hardened" off. All plants shall have normally well developed branch in the even of disagreement as to condition of role system, the root conditions of the plants furnished by the Contractor in containers will be determined by remeworal of earth from the roots of not less than two plants. In the root conditions of the plants furnished by the Contractor in containers will be determined by parcent of the total number of plants of species or variety. Where container grown plants are from several sources, the roots of not less than two plants be inspecied in case the sample plants inspection will be considered as samples and will be provided at the expense of the Contractor.
b. The size of the splant will correspond with that normally expected for species and variety of commercially available nursery stock or as specified in the Special Conditions, drawing or details. The minimum acceptable size of all plants, resustnet before pruning with the branches in normal position, shall conform with the masker plants will be considered a sub of earth or specified with new plants at the Contractor covers. The plants to be reguirements herein specified and be considered detective and replaced with new plants at the Contractor's specified with the specifies, whether in place or not, shall be removed from the site of vook and replaced with new plants at the Contractor's expense. The plants that be of the species, write's, size and condition specified berein or as shown on the directive and replaced with new plants at the Contractor's expense. The plants will be considered to species and write the species here or ortitons will there by any substitution of plants, except with the s

Bark Chips
 Park Chips
 Bark chips shall be regular, ground, redwood or fir bark, consisting of 1/2" to 3/4" (acorn size) chips. Prior to delivery to the site, the Contractor shall submit samples to the Chy Landscape Inspection for approval.
 Erosion Control Matting
 Erosion control matting shall be of open weare, furnished in rolled srips as follows: It shall be approximately 225 feel long with a width of 18 inches plus or mmus one inch and an approximate one (1) inch square mesh. Fabric shall an erage 4 pounds per linear foot. The erosion control matting shall be manufactured from loosely twisted jute yam not varying in thickness by more than one-half its normal diameter, equal in quality to "Ludlow Soil Saver 143" or approved equal. Staples for erosion control shall be 11 gauge sele withe bent in a U shape six inches minimum length and one inch wide. Wetting Agent to be 95% alky Poly ethy lene glycol ether such as "Commercial Water In" or approved

9. Seed All seed used for lawn planting or erosion control planting or for any other reasons specified in the plans shall be labeled and furnished in sealed, standard containers with duplicate signed copies of a statement from the vendor, certifying that each container of seed delivered is fully-labeled in accounce with the California State Agriculture Code. Seed which has become wet, moldy or otherwise damaged in transit or storage will not be accepted equal

So shall be fully mature, well-maintained, of the grass variety specified, free of all other grasses or weeds and shall be evenly cut with a conventional sod cutting machine to a thickness of 1-1/2 inches. All material shall be from the same growing ground and delivered fresh to the job site. If, after installation, any areas of sod die or become brown, these areas are to be replaced with sod immediately. Replacement sod is to match original.

 Hy dromulching

 Wood Cellulose Mulch shall be calm, natural, wood cellulose fiber. Natural wood cellulose fiber shall be processed in such a manner that it will contain no growth or germination-inhibiting fuctors and shall be dyed green to facilitate metering of materials. It shall be manufactured in such a manner that after each additives, the fibers in the material will become uniformly suspended to form a homogeneous slurry and that when hy dramitality sprayed on the ground cover impregnated uniformly with seed, which after application, will allow the absorption of moisture and will allow ranfall to percolate to the underlying soil b. Fertilizer shall composed of usupport becrease a comprised of decomposed animal and vegetable matter and composited to support becterial cultures. Fertilizer shall be "Gro-Power" or approved equal
 Soil Binder. Term Tack III or approved equal

 12 Equipment á

1.2 Equipment
1.4 Equipment used for the application of slurry shall have a built-in gatiation system with an operating capacity sufficient to agata supperd and homogeneously mix above slurry. Distribution lines shall be large enough to prevent stoppage and to provide even distribution of the slurry over the ground. In order to facilitate proper coverage, the pump must be capable of evening up to 150 psi at the nozzle. The slurry tanks shall have a minimum capacity of 1,500 galons and shall be mounded on a traveling unit which will place the slurry tank and spray nozzles within sufficient provind equal shall be used for slope/ planting areas. See Sections III-D-2 and III-D-7 for guidelines for proper application galored havehed in evaluations. Materials

a. sand-vashed rive sand or equal
b. post emergent weed killer. "Round-Up"
c. tree wound paint-as-approved 12. Equ

III. EXECUTION

A INSPECTION Verify that final grades have been established prior to beginning planting operations. Inspect trees, shrubs, and material for injury and insect infestation, and inspect trees and shrubs for improper pruning. Do not begin planting trees until deficiencies are corrected or plants replaced.

B. PREPARATION Stake out loci Stake out locations for plants and outline of planting beds on ground. Do not begin excavation until plant locations and plant beds are acceptable to Architect. The tritigation system shall have been installed and approved prior to soil

preparation.

C. INSTALLATION

e. Eliminate all erosion scars.

f. Planting areas receiving sod shall sustain a finish grade of a depth that installed sod shall be flush with finish surfaces (walks, paved areas, etc.).
g. All planting areas shall have a finish grade conforming to approved plans and specifications after full settlement has occurred.
4 Dispose of unacceptable or unused excess soil off site and premises.

D. PLANTING INSTALLATION

 General Actual planting shall be performed during those periods when weather conditions are suitable and in accordance with locally accepted practice,

Landscape Architett b Only as many plants as can be planted and watered on that same day shi planting area. In extreme heat, plants shall be watered immediately after pl c. Containers shall be opened and plants shall be removed in such a manne arth surrourding the roots is not broken, and they shall be planted and wat specified immediately after removal from the containers. Containers shall be prior to placting the plants in the planting area. 2 Weed Control:

After soil preparation and establishment of final grades prior to any planting, the shall irrigute thoroughly for a period of time, two to three weeks or until the we germinated. When there is sufficient weed self germination, the Contractor shall then weight a conduct of the manufacture of plant as indicated in the plants and specifications.
 Locations for planting:

 Locations for planting areas, other locations shall be marked on the genometric before any plant is and outlines of areas to be planted shall be marked on the genometric before any planting areas, other locations may be selected by the landscape 4
 Planting of Trees and Shubs
 Execution for planting shall include the stripping and stacking of all accepta encountered within the areas to be executed for trenches, tree holes, planting beds
 Contractor within the areas to be executed for trenches, the holes, plants plant is planting beds
 Contractor at the stripping and stacking of all accepta planting beds
 Contractor at the strip beam stripping beds

(1) Curcies on two sides with an acceptable can cutter
(2) Do not injure root ball
(3) Do not cut cars with a spade or axe
(4) Carefully remove plants without injury or damage to root ball.
(5) After removing plant, superficially cut edge-roots with knife on three c. Box Removal
(1) Remove bottom of plant boxes before planting
(2) remove sides of box without damage to rootball after positioning plant backfilling.
(3) After removing plant, superficially cut edge-roots with knife on three c. Box Removal
(1) Remove bottom of plant boxes before planting
(2) remove sides of box without damage to rootball after positioning plant backfilling.
(3) After cars at the base vertical sides with roughened surfaces and she that is at least two times the width and one and the depth of the original plant to holes shall be in all cases, large enough to permit handling and planting, witho breakage to the roots or root ball. Refer to Standard Planting Deatls.
e Evanvated holes for slope plantings shall be dug two times original plant con providing a permanent 6 in the bern around plant privation plants or other must plantines with a substitue site.

 Tools

 Container plants shall be backfilled with:

 8 parts by volume organic annendment

 -2 parts by volume organic annendment

 -6-20-20 fertilizer mix as per charbelow:

 1 gallon
 1 handful

 5 gallon
 2 handfuls

 15 gallon
 3 handfuls

 10 box
 4 handfuls

 20 box
 5 handfuls

 21 box
 4 handfuls

 24 box
 5 handfuls

 26 box
 6 handfuls

 30° box
 5 handfuls

 42° box
 9 handfuls

 43° box
 10 handfuls

 44° box
 9 handfuls

 5
 60° box

 1 Alp plants which sette deeper than specified above shall be raised to the toe tor

 After the plant has been placed, additional backfill shall be added to the hote to approximately equals 4-6 oursed)

 1 Hand backell has to thoroughly saturate the root ball and adjacent

 j

NA NA	I gallon 1 tablet 5 gallon 1 tablet 5 gallon 2 tablets 10" box 4 tablets 30" box 6 tablets 30" box 6 tablets 42" box 8 tablets 42" box 9 tablets 44" box 9 tablets 42" box 9 tablets 42" box 10 tablets 42" box 10 tablets 60" box 10 tablets 60" box 10 tablets For the state of th	Container plants shall be backfilled with: - 3 parts by volume origanic amendment - 2-20 fertilizer mix as per chart below: I gallon I handfuls 5 gallon 2 handfuls 15 gallon 3 handfuls 18 box 4 handfuls 20 box 6 handfuls 30° box 6 handfuls 42° box 8 handfuls 42° box 9 handfuls 43° box 9 handfuls 43° box 9 handfuls 44° box 9 handfuls 46° box 9 handfuls 5 Letter a specified above shall be raised to the correct level. After the plant has been placed, additional backfill shall be added to the bloe to cover approximately one-placed, additional backfill shall be added to the bloe to cover approximately one-placed, additional backfill shall be added to the bloe to cover approximately one-placed, additional backfill shall be added to the bloe to cover approximately one-placed, additional backfill shall be added to the bloe to cover approximately one-placed, additional backfill shall be added to the bloe to cover approximately one-placed additional backfill shall be added to the bloe to cover approximately one-placed additional backfill shall be added to the bloe to cover approximately one-placed additional backfill shall be added to the bloe to cover approximately one-placed additional backfill shall be added to the solet on the site and amended as specified in general of planting holes may be distributed on the site and amended as specified in general of planting thore solet on the site and amended as specified in general of place place than one gallon in size 1 Hand backfill and hang tamp, tenny, tenning tablets to be used in each hole can be easily verified. A nor the swater has completely drained, planting tablets shall be placed as indicated per	 (1) Cut cans on two sides with an acceptable can cutter (2) Do not injure root ball (3) Do not cut cans with a spade or axe. (4) Carefully remove plasts without injury or damage to root ball. (5) After removing plant, superficially cut edge-roots with knife on three sides. (6) Removal (7) Remove bottom of plant boxes before planting (7) Pernove sides of box without damage to rootball after positioning plant and partially before sides of box without damage to rootball after positioning plant and partially before planting. (2) Pernove sides of box without damage to rootball after positioning plant and partially before planting in the state two times the width and one and the depth of the original plant container. The boles shall be in a licess, large enough to permit handling and planting. Or breakage to the roots or root ball. Refer to Standard Planting Details e. Evcawated holes for slope planting shall be dug two times original plant container width, the roots or root ball. Refer to Standard Planting Details e. Evcawated holes for slope planting shall be dug two times original plant container width, the roots or root ball. Refer to Standard Planting Details e. Evcawated holes for slope planting shall be dug two times original plant container width, the roots or not ball. Refer to Standard Planting Details or other material to the planting site. g. Center plant in pit or trench. g. Scenter plant in pit or trench. g. Scenter plant in pit or trench. g. Scenter plant hold rigidly in position until soil has been tamped firmly around ball or roots. 	 Containers shall be opened and plants shall be prenoved in such a manner that the hall of search surrounding the roads is not lorken, and buy shall be planted and watered as herein specified immediately after renoval from the containers. Containers shall not be opened and plasting the plants in the planting area. After soil preparation and establishment of final grades prior to any planting, the Contractor shall regime thoroughly for a period of time, two to three weeks or until the tweed seeds have germinated. When there is sufficient week estage germination, the Contractor shall regime thoroughly for a period of time, two to three weeks or until the twee seeds thave seeds in the plant and additional two weeks to allow the week killer of Contractor shall then wait an additional two weeks to allow the week killer to dispute, then plant as indicated in the plants and specifications. Contractor shall remove any residual foliage and/or roots. Contractors for plants and outlines of areas to be planted shall be marked on the ground by the contractor before any plant pits are dug. All such locations shall be approved by the landscape Architect. It an underground construction or utility line is encountered in the excavation of planting areas, other locations may be selected by the landscape Architect. Trees and Shrubs Excavation for plants are to be excavated for trenches, tree holes, plants pits and plant age. planting beds. 	ANTING INSTALLATION eral a. Actual planting shall be performed during those periods when weather and soil conditions are suitable and in accordance with locally accepted practice, as approved by the Landscape Architect. b. Only as many plants as can be planted and watered on that same day shall be distributed in a planting area. In extreme heat, plants shall be watered immediately, after planting.
	PLANTING SPECIFICATIONS SPECIFICATIONS	2315 EAST DOMINGUEZ STREET 329	DN GLOVER B PACIFIC AVENUE SONG BEACH, CA	I	REVISION B

A Ter variantier of the base shall be berkfullet
A Ter variantier of the base shall be constructed of numeroded basel (numerod) in the constructed of numeroded basel (numerod) is a structure of numeroded basel (numerod) is a structure of numeroded basel (numerod) is a structure of numerod basel (numerod) is numerod (numerod) is numerod). *Numerod* (numerod) is a structure of numerod is numerod (numerod) is numerod) is numerod. *Numerod* (numerod) is a structure of numerod is numerod (numerod) is numerod). *Numerod* (numerod) is a structure of numerod is numerod (numerod) is numerod). *Numerod* (numerod) is numerod (numerod) is numerod) is numerod. *Numerod* (numerod) is numerod (numerod) is numerod) is numerod. *Numerod* (numerod) is numerod (numerod) is numerod) is numerod. *Numerod* (numerod) is numerod (numerod) is numerod) is numerod. *Numerod* (numerod) is numerod (numerod) is numerod) in the numerod (numerod) is numerod). *Numerod* (numerod) is numerod (numerod) is numerod) in the numerod (numerod) is numerod) is numerod (numerod) is numerod)

1 Phyloscolar Application Freedoms and Equipment
2 Presence Control Free improvements and services and experimental vector and vector and services and experimental vector and vector and services and experimental vector and vector and

a scope of v work.
Work specified in this Section furnish all labor, material, equipment and services required to maintain the landscape in an attractive condition as specified herein for a period of ninety (90) days after final acceptance by Owner.
b Quality Assumace
The Contractor's representative shall be experienced in landscaping maintenance and shall have received an education in ornamenial continuously maintain all areas involved in his Contractor shall continuously maintain all areas involved in this Contractor shall continuously maintain all areas involved in this Contractor shall continued by the Contractor maintenance period and tirrigation for the entite project areas the contractor until work is acceptable Maintenance period shall not start until all dements of construction, planting and tirrigation for the entite project areas thall be continued by the Contractor until work is acceptable maintenance period shall not start until all dements of construction, planting and tirrigation for the entite project areas thall show an exen, healty strand of grass seedings or sod, either of which shall have been mown twice. If such contraction will be studiation to the stablish the effective beginning date of the maintenance period Arty day when the Contractor fails to adequately maintain plantings, replace unsulable plants or do weed control or other work, as determined pressary by the Landscape Architect, a field notification will be samatenance period viving days. The maintenance period will be extended if the provisions required the plants or do work field contractor solution be extended if the provisions required the plants and specifications. F PROJECT INSPECTIONS Upon request the Contractor or his representative will walk the project with the City/Owner's representative for the purpose of determining compliance with the specifications. E PROTECTION OF EXISTING FACILITIES AND STRUCTURES D. EMERGENCY NUMBERS LANDSCAPE MAINTENANCE I. GENERAL REQUIREMENTS E CLEAN-UP After all planting operations have been completed remove all trash, excess soil, empty plant containers and rubbish from the property. All scars, ruts or other marks in the ground enuschy this work shall be replaced and the ground left in a near and orderly condition throughout the site Clean-up Contractor shall pick-up all trash resulting from this work no less frequently than each Friday before leaving the site once a veck and/or the last working day of each week. All trash shall be removed completely from the site The Contractor shall leave the site area broom-clean and shall wash down all paved areas within the Contract ren, leaving the grounds and shall, upon equest, furnish the City or Offsite disposal of surplus soil and shall, upon equest, furnish the City or County's authorized representative with the disposal site Owner's written consent. Normal progress inspections shall be requested by the Contractor from the Landscape Architect al least 4 days in advance of an anticipated inspection Inspections are required as follows 1 upon the completion of fine grading 2 upon the completion of soil conditioning 3 prior to application of post-emergent weed killers 4 pre or post-eldivery of all plant material 5 upon the completion of major plant lay out 6 at the tree-staking example prior to sodding INSPECTIONS a. Any planting areas designated as natural planting that are cleared off during any phase of the development must be re-established with an approved planting prior to acceptance of the tract.
b Comply with City Zoning and Subdivision Ordinance
c Natural vegetation areas are subject to review and approval by the Landscape Architect. Fire Marshall and City Landscape Architect. Appropriate fiel management programs shall be addressed as a part of the maintenance programs must be addressed as a part of the maintenance programs. Scope of Work Native Plant Areas The Contractor shall exercise due care in protecting from damage all existing facilities, structures and utilities both above and below surface on the City/ Owner's property. Any damage to City's Owner's property deemed to be caused by the Contractor's responsibility to verify and locate any underground systems (i.e., utility line) This does not release the Contractor from the responsibility of taking ressonable precautions when working in these areas Any damage problems shall be reported immediately to the City/ Owner's representative The Contractor shall provide and maintain a current list of emergency telephone numbers for 24-hour emergency response
 The Contractor shall initiate remedial action within two hours from the time notification necessary e Planting of turf, ground covers, shrubs and/or vines may be reprotected by erosion control matting as specified in the plans or

