



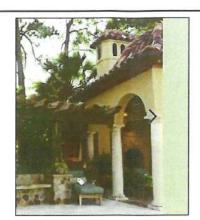
SMOOTH WHITE STUCCO & YACHT BLUE WOOD SHUTTERS



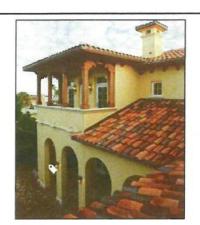
GLASS SURROUND LOBBY ENTRY DOOR & IRONWORK RAILINGS WITH KNOTS



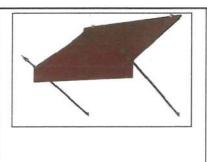
IRONWORK COVERING



WOOD TRELLIS & ROUND COLUMNS TRELLIS TO HAVE NATURAL/RUSIC FEEL



MULTI-COLOR BARREL TILE ROOF



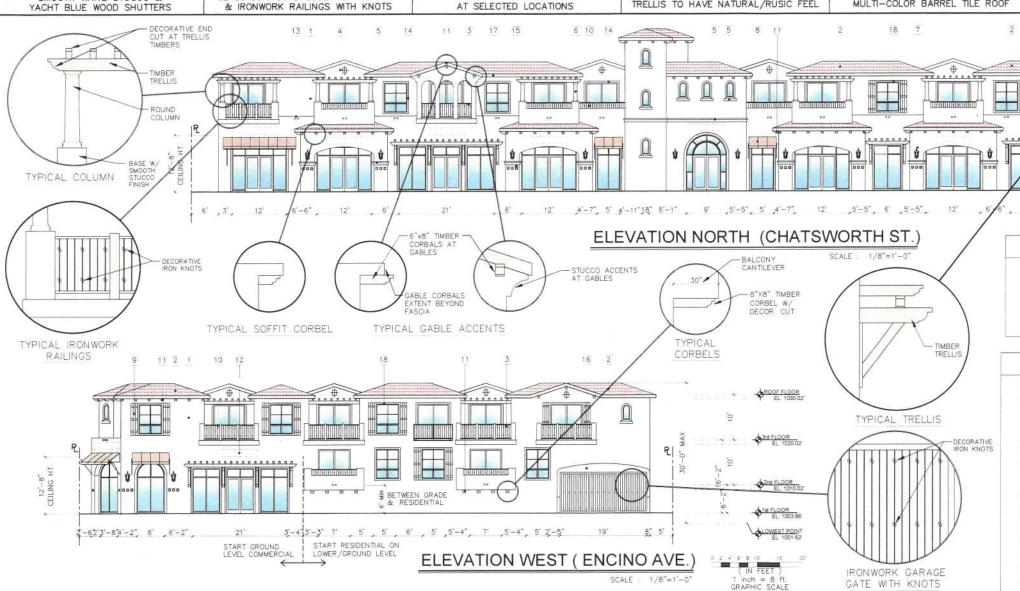
BURGUNDY FABRIC AWNINGS WITH IRONWORK SUPPORTS



VIBRANT AND COLORFUL ACCENT TILES. THIS IS JUST A REPRESENTATION. THIS ISN'T THE SPECIFIC TILE

ROOF FLOOR EL 1030 02

3rd FLOOR EL 1020.02



GROUND LEVEL TRANSPARENCE

7'-3", 6', 4', 6', 6', 4'-2'3'-8",2',3'

11

MINIMUM 50% TRANSPARENCE (WINDOWS & DOORS) AT GROUND LEVEL STREET FRONTAGE FOR COMMERCIAL, LOBBY, OFFICE SPACE BOTH CHATSWORTH & ENCINO AVE

3447 SF GROUND LEVEL SURFACE AREA REQUIRES 1724 SF FOR 50% TRANSPARENCE

HAVE 1734 SF GLASS DOORS & WINDOWS EQUALS 50 3% TRANSPARENCE

ELEVATION NOTES

- 7/8" STUCCO OVER PAPER BACK WIRE MESH PROVIDE 2-LAYERS OF GRADE " D " PAPER OVER PLYW'D COLOR # EXCLUSIVE IVORY HDC-MD-11(BEHR PLUS), WHITE SMOOTH FINISH SEE EXAMPLE PHOTO
- SPANISH COLONIAL BARREL TILE ROOFING SEE EXAMPLE PHOTO
- 42" HIGH SPANISH COLONIAL STYLE GUARDRAIL IRONWORK, DARK GRAY/BLACK
- IRONWORK GABLE ACCENT. DARK GRAY/BLACK
- STUCCO ACCENT, WHITE SMOOTH FINISH
- SPANISH COLONIAL STYLE COLUMN 10" DIA, WHITE TO MATCH STUCCO
- IRONWORK, DARK GRAY/BLACK
- AWNING FABRIC W/ IRONWORK SUPPORTS. BURGUNDY, SEE EXAMPLE PHOTO

- WOOD SHUTTERS, YACHT BLUE, BEHR #\$490-4 SEE EXAMPLE PHOTO
- IRONWORK SHANISH COLONIAL STYLE RAILING, DARK GRAY/BLACK
- WOOD CORBELS, BROWN, SEE EXAMPLE PHOTO
- LOCATION FOR COMMERCIAL SIGNAGE SIGNAGE UNDER SEPARATE PERMIT.
- CLAY DRAIN PIPES, NATURAL GRAY/BROWN
- RECESS ALL DOORS AND WINDOWS NO LESS THAN 3"
- TILE ACCENTS, INDIVIDUAL TILES COLORFUL & VIBRANT, SEE EXAMPLE PHOTO
- ACCENT ARCH AT GARAGE ENTRANCE WITH DECORATIVE IRONWORK GATE WITH KNOTS
- FASICAL BROWN, SEE EXAMPLE PHOTO
- PAINTED VINYL OR WOOD W/ CLAD WINDOW AND DOOR FRAMES

---2000

REVISION BY

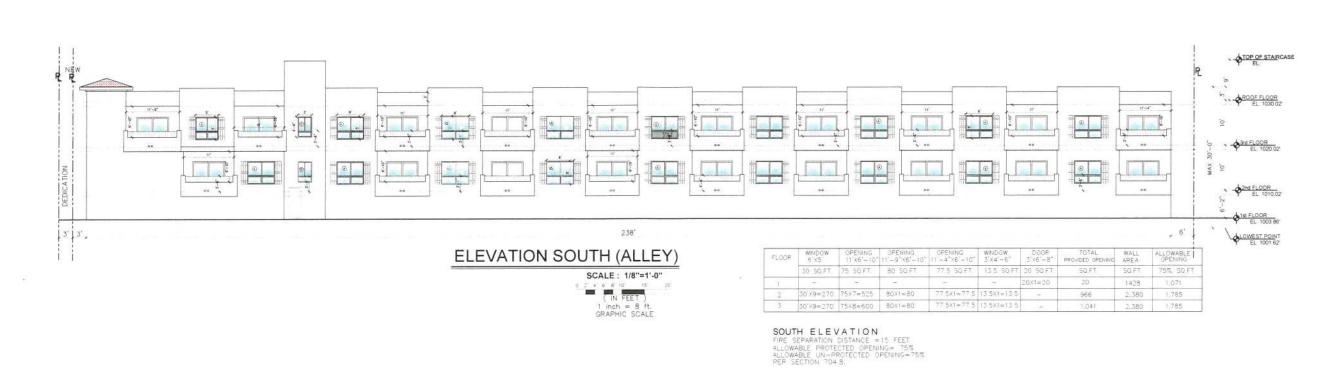
CHATSWORTH,

ST, 17454 CHATSWORTH GRANADA HILLS, CA 91

ELEVATION **DRAWING 1**

DATE: JUNE 2017 SCALE 1/8"+1"-0" APPROVED VA JOB | 16-677

A-7

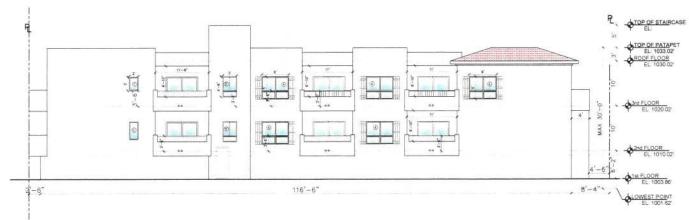


Case No .: TBD at filing appt.

Date: November 29, 2017

Sheet_IL of 27

Signature John Miles



ELEVATION EAST

SCALE: 1/8"=1'-0"
0 2' 4 6' 8' 10' 15' 20

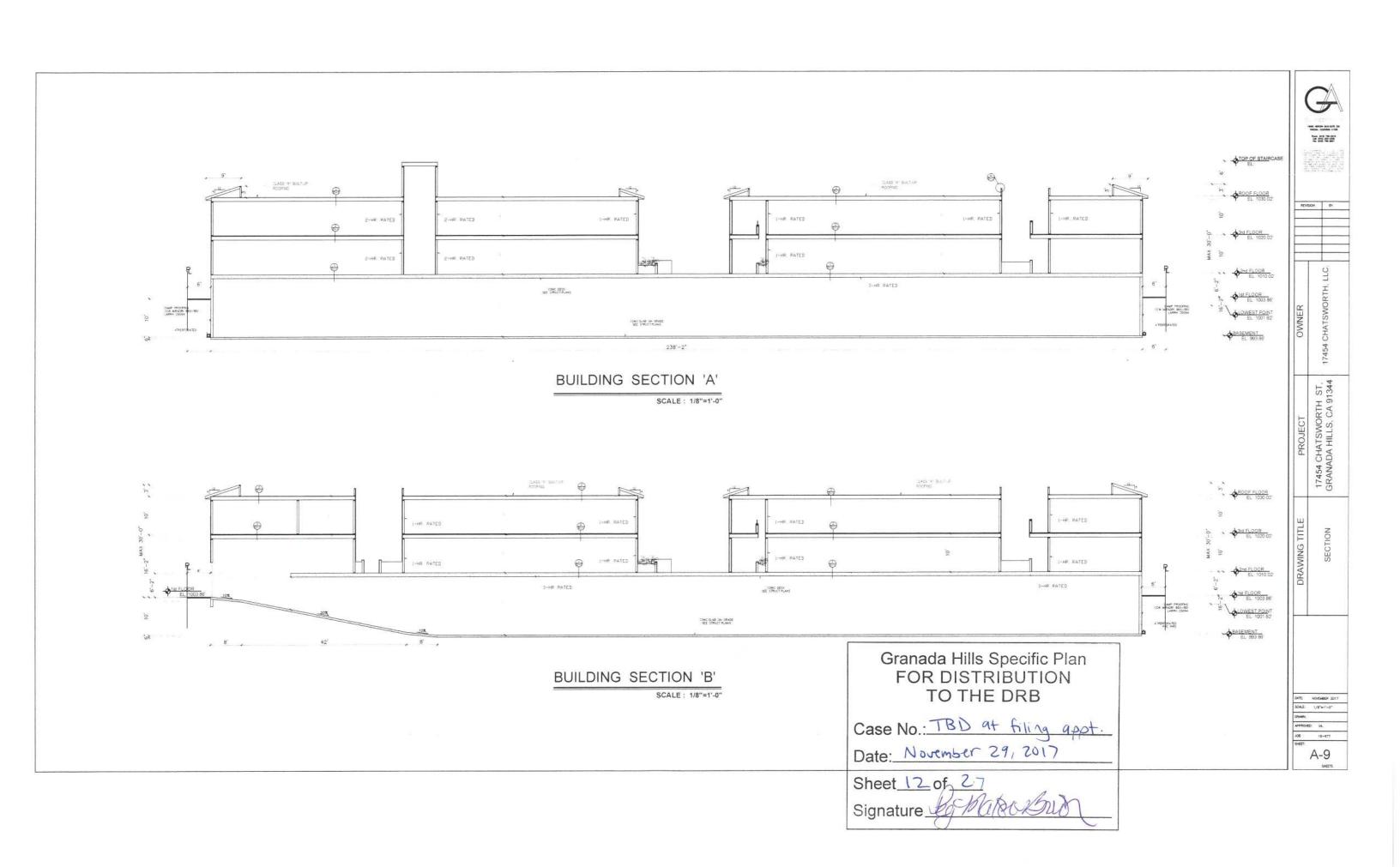
(IN FEET)
1 inch = 8 ft.
GRAPHIC SCALE

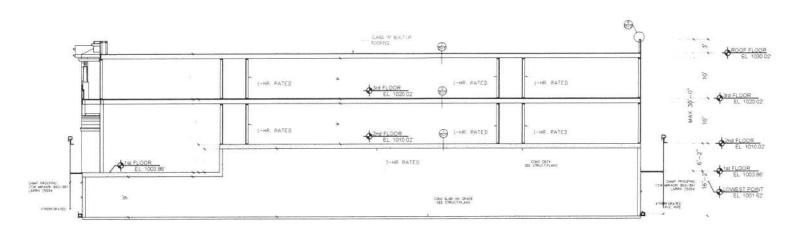
FLOOR	WINDOW 6'X5'	OPENING 11'X6'-10"	OPENING 11'-9"X6'-10"	WINDΩW 2'×3'	WNDOW 3'x4'-6"	000R 3'X6'-8"	TOTAL PROVIDED OPENING	WALL	ALLOWABLE OPENING
	30 S0 FT	75 SQ.FT	80 S0 FT	6 SQ FT.	13.5 SQ.FT	20 SQ.FT.	SQ,FT.	SQ.FT.	25%, SQ.FT
1	-	-	72.0	-		20X1=20	20	699	174.7
2	30' X3=90	75X1=75	80X1=80	6X1=6	13.5×1=13.5		264.5	1165	291
3	30°X2≈60	75X1=75	80X1=80	6X1=6	13.5X1=13.5	-	234.5	1165	291

EAST ELEVATION
FIRE SEPARATION DISTANCE =6 FEET
ALLOWABLE PROTECTED OPENING= 25%
ALLOWABLE UN-PROTECTED OPENING=25%
PER SECTION 704 8.

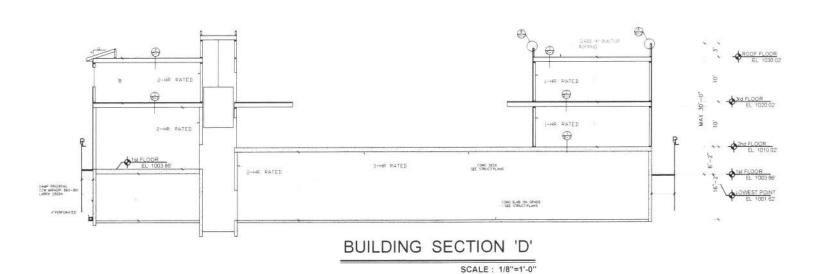
REVI	SION BY
OWNER	EQUITY PROPERTIES, LLC
PROJECT	17454 CHATSWORTH ST, GRANADA HILLS, CA 91344
DRAWING TITLE	ELEVATION

A-8









Granada Hills Specific Plan FOR DISTRIBUTION TO THE DRB Files 46 Date: Noutmber Case No.: TBD

17454 CHATSWORTH ST. GRANADA HILLS, CA 91344 PROJECT Sinature nature DRAWING TITLE

DATE: MONEMBER 2017
SCALE: 1/8"=1"=0"
DRAWN
APPROVID: VA.
JOB 16-877
SHEET:

SECTION

HART VOICE BUT BUT DO SHOWN CAPTURE FITH

17454 CHATSWORTH, LLC.

OWNER

A-10

the state of the s



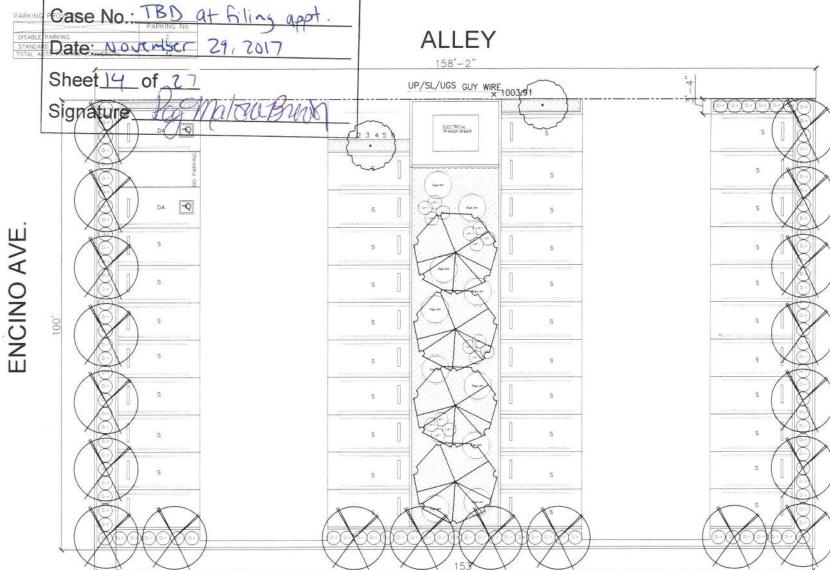
x fauriei 'Tuscarora'







Magnolia grandiflora

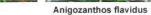


PARKING LANDSCAPE PLANTING (COMMERCIAL)











Agave americana



SYM.	ROTATICAL HAME	COMMON HAME	Str	825	PEG.	WUCCUS PE	MATURITY	YEARS	REMARKS
(AA)	Agave attenuota	Foxtail Agave	20	5gal	2	L	2'x3"	2	
(Area)	Anigozanthos: flovidus	Bush Gems-Kangaroo Paw	6	5gal	2	м	3'v2'	0.5	Mis red and yellow
AHD)	Asparogus densificrus 'Myers'	Foxtal Fern	22	5gal	2	м	2'+3'	15	
9	Dietes indiaides	Fortnight Lify	118	5gal	17.	M.	3'+4'	0.5	
Str rei	Strelitzia reginae	Bird of Paradise	106	15gal	1	M	4'+4'	1	
(arm)	Agave americana	Century Plant	10	15gal	2	L	6 x8	1	
Linx	Lantana + 'New Gold'	New Gold Lantana	12	5gai	2	E.	1'+3'	0.5	
	Senecio talinoides var mandraliscae	Blue Chalk Sticks	1386	4mch	2	8	193	1/2	Ground cove
R)	Rosa spp (leeberg)	White Ideberg Shrub Rose	1.3	5gal	3.	W	4 +2"	2:	
0	Sansevieria trifasciata	Snoke Plant	16	5gol	2	L	4 (2)	2	
B	Buxus microphylla japonica Green Beauty	Green Beauty Boxwood	112	5gal	2	м	4'+3'	2	Maintain 2' width
Presi	Prunus caroliniana Compacta	Compact Carolina Cherry Laurei	30	15gal	2.	M	8×5	3	

A minimum of 3—inch layer of cedar bark mulch shall be applied on all exposed soil surfaces of planting areas except turf areas, creeping or rooting groundcovers, or direct seeding applications where mulch is contraindicate 2. All Treed to be planted with commercial root barriers.

3. Use class I or class II Compost as a soil amendment in all landscaped areas.

LANDSCAPE POINTS

REQUIRED	PROVIDED
PROJECT SITE 32,428 5 SO FT	36"Box trees: 24x3=72
	Use of Class I or 1 Compost produced using City organic materials in 3 majority of the landscaped areas
POINTS REQUIRED: 20	TOTAL POINTS: 77

LANDSCAPE AREA CALCULATION

REQUIRED LANDSCAPING 15.816.67 SQ.FT × 10% =1,581.6 PROVIDED LANDSCAPING



Dietes iridioides	į	iridioides	Dietes	
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Agave attenuata

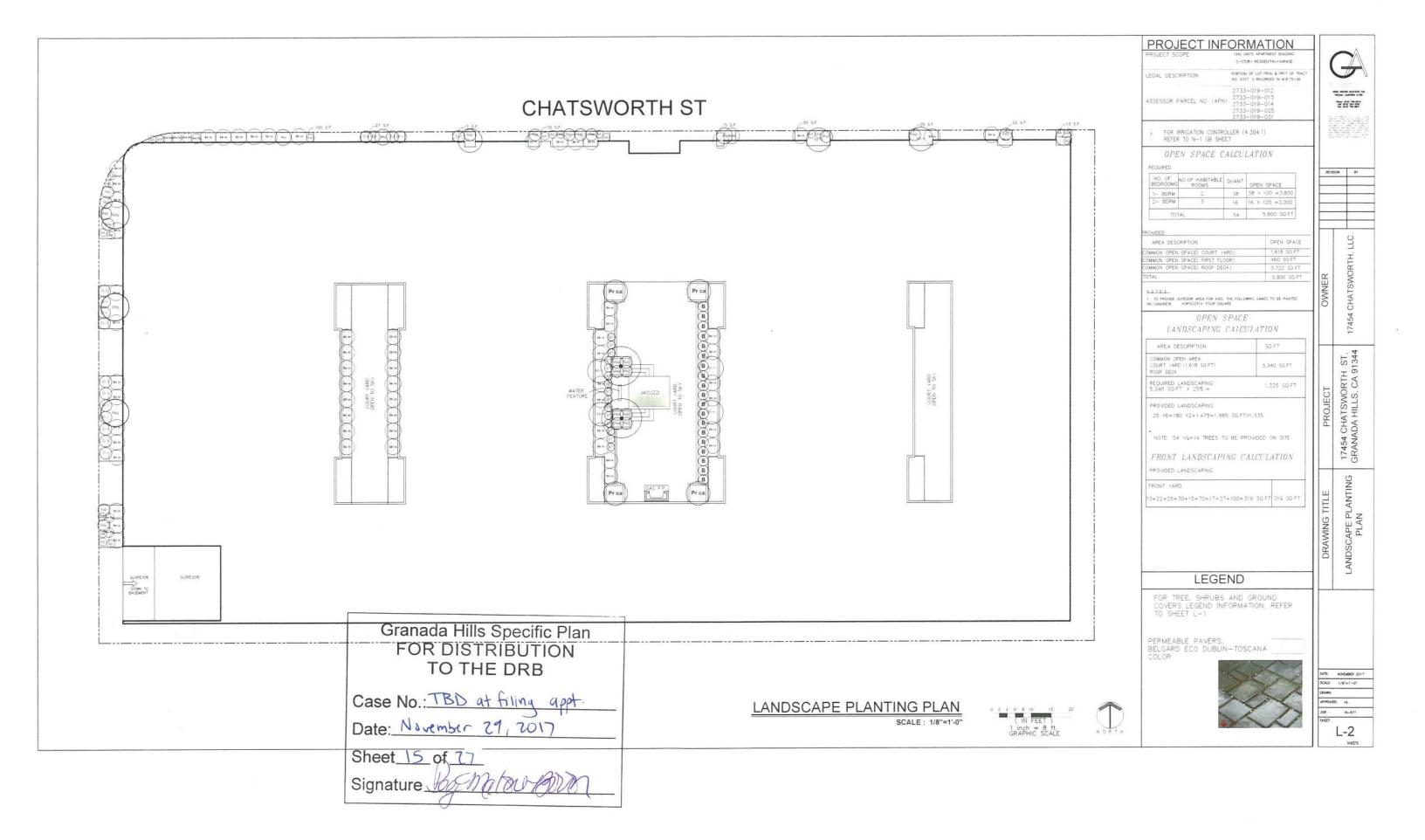
Ginkgo biloba

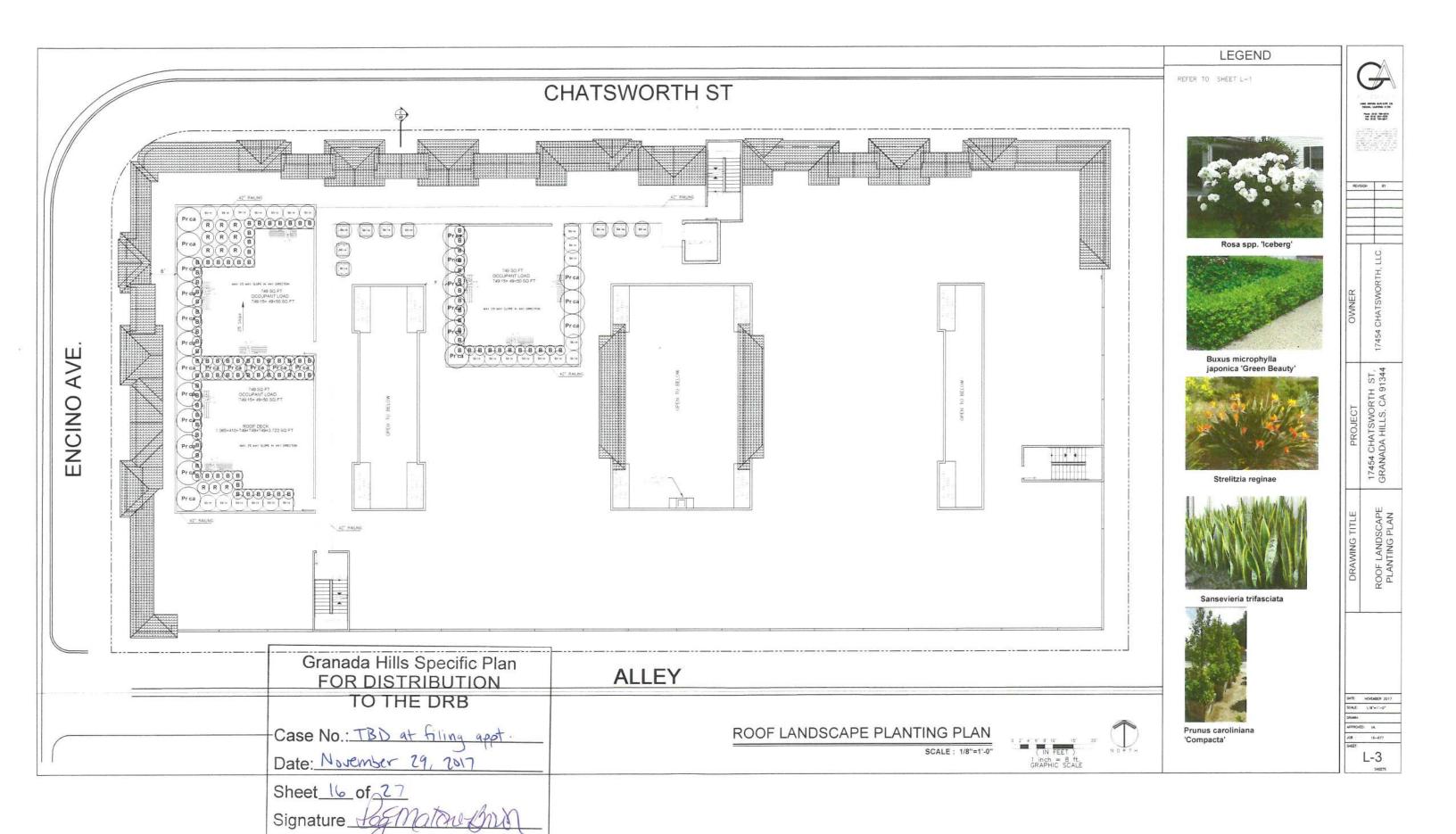
(IN FEET)

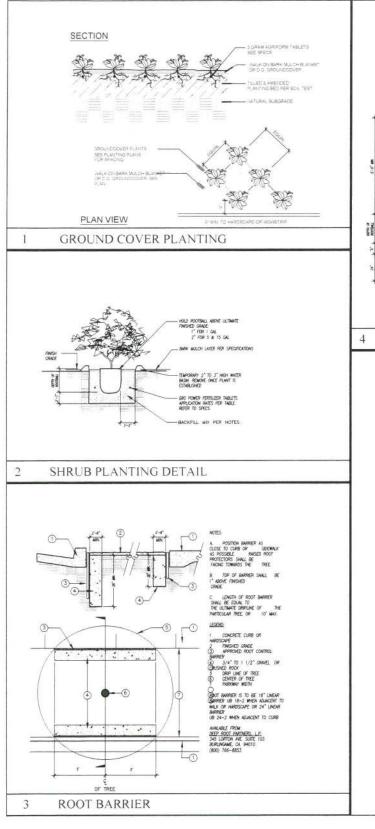
1 inch = 8 ft.
GRAPHIC SCALE

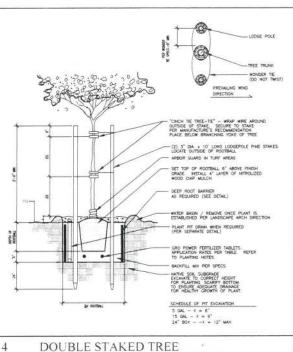


Asparagus densiflorus









PLANTING INSTALLATION NOTE

Granada Hills Specific Plan FOR DISTRIBUTION TO THE DRB

Case No.: TBD at filing appt.

Date: November 29, 2017

Sheet 17 of 27
Signature Log Ma (Nu Brut)



2222

MEM	SICH BY
OWNER	17454 CHATSWORTH, LLC.
PROJECT	17454 CHATSWORTH ST. GRANADA HILLS, CA 91344
DRAWING TITLE	PLANTING DETAILS

Case No .: TBD at filing appt.

Date: November 29, 2017

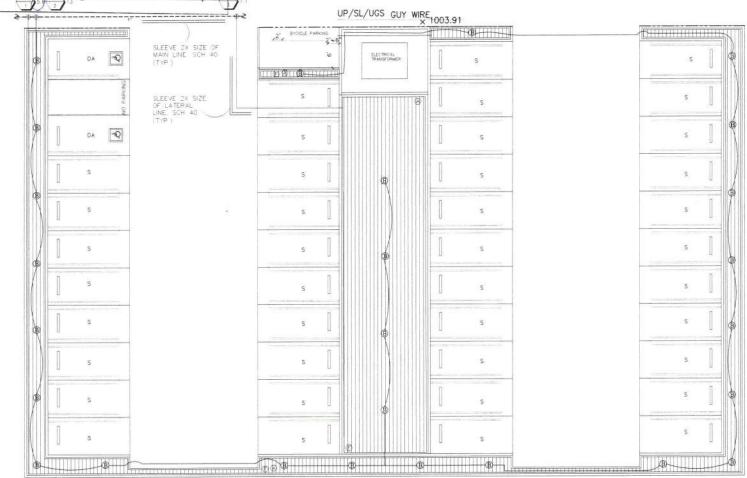
Sheet 18 of 27

AVE

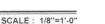
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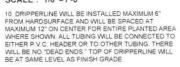
Signature Key Malou Brux

ALLEY



IRRIGATION PLAN (COMMERCIAL)





11 IRRIGATION CONTRACTOR WILL INSTALL SWING CHECK VALVES OR SPRING LOADED CHECK VALVES AS REQUIRED TO ELIMINATE EXCESSIVE DRAINAGE FROM LOW SPRINKLERS. THIS WILL BE IN ADDITION TO ANY CHECK VALVES SHOWN ON PLAN.

12. ALL P.V.C. MAINLINE FITTING TO BE "LONG SOCKET" TYPE AS MANUFACTURED BY DURA COMPANY.

13. UPON COMPLETION, IRRIGATION CONTRACTOR TO SUPPLY TO OWNER 13. UPON COMPLETION, IRRIGATION CONTRACTOR TO SUPPLY TO OWNER.
A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS DRAWING WILL
SHOW LOCATION OF ALL VALVES, CROSSINGS, QUICK COUPLING VALVES,
ETC, EACH CONTROLLER TO HAVE ITS OWN CONTROLLER CHART, CHART
WILL CLEARLY SHOW EACH AREA SPIRIKLED IN A DIFFERENT COLOR, AND
WILL BE LAMINATED BETWEEN 2 LAYERS OF 10MIL, CLEAR PLASTIC

14. THE IRRIGATION SYSTEM SHALL BE FULLY GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER ANY DEFECTIVE MATERIALS OR POOR WORKMANSHIP SHALL BE REPLACED OR CORRECTED BY IRRIGATION CONTRACTOR AT NO COST TO OWNER.

15 AT THE TIME OF FINAL INSPECTION, THE PERMIT APPLICANT MUST 15. AT THE TIME OF FINAL INSPECTION. THE PERMIT APPLICANT MOST PROVIDE THE OWNER OF THE PROPERTY WITH A CERTIFICATE OF COMPLETION. CERTIFICATE OF INSTALLATION, IRRIGATION SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE.

IRRIGATION LEGEND

PAINTERS VACT- 075- PRE CONTROL TONE KIT - ATMOSPHERIC REMOTE CONTROL VALVE FOR BURBLER SYSTEMS

HUNTER WRELESS SOLAR SYNC SENSOR, MOUNT UP TO 800' FROM RECEIVER HUNTER IT MASTER VALVE - IBV SERIES VALVE - NORMALLY CLOSED

HUNTER FCT-100 - 1" FLOW-CLIK FLOW SENSOR

FEBCO 825 Y - 1" BACKFLOW PREVENTION UNIT - TO BE INSTALLED IN STAINLESS STEEL ENCLOSURE POWDER COATED COLOR BLACK

COATED COLOR BLACK:

NRECO BRASS BALL VALVE — LINE SIZE
FDC FIRE DEPARTMENT CONNECTION — FOR REFERENCE DWLY
P O C VERFY LOCATION ON SITE POINT OF CONNECTION

1° PRESSURE MAINLINE LINE SCH. 40 PLVC. — INSTALL DEPTHS PER DETAIL
DRP LUCK FLUSH CARE.
LINE SCH. 40 PLVC. — INSTALL DEPTHS PER DETAIL
DRP LUCK FLUSH CARE.

HUNTER ICORE IC-500-PL OUTDOOR WALL MOUNT CONTROLLER WITH SOLAR SYNC

POTABLE WATER METER - LOCATE IN FIGURE 9 FORDE 3' OF TURING AFTER THE BALL VALVE INSTALL VALVE HISDE 5' ROUND HUNTER FILD-BY MANUAL FILUSH VALVE — PROVIDE 3' OF TURING OF THE PALL VALVE METER AND OF DIRECTION OF THE PROPER CONFECTION OF BOOK OF TURING MAILTREE FILUSH VALVES MAY BE REQUIRED WITHIN DRIPLINE LAROUT ALMAYS INSTALL VALVES IN OPPOSITE DIRECTIONS OF THE PROPERTY OF CONFECTION OF THE PROPERTY OF THE PR

INSTALL I AM RELIEF VALVE DER SYSTEM AT THE HIGHEST ELEVATION POINT SET DETAIL.

HINTER PLOT-OI-18 SUR-SYMPACE DRIPLINE UBBIRD 10 GPH SMITTERS of 18" ON CENTER SPACING—ALL TUBING SHALL BE INSTALLED I" MINIMUM BELOW FRISHED SOIL DRADE W/ 9" WRE STAKES FIVE (4) FEET ON CENTER, VERIFY THE LAYOUT AND 18" ON CENTER FOR SPACING IN THE FEEL POICE OF STATEMEN WARM. INSTALL SUB-SUPPECE DEPH PRIRECATEMENT RAMAURACTURER'S SPECIFICATIONS.

BUBBLEM HUTTER PORE -SO HEAD ON SCH. 80 NEPPLE EACH SYMBOL PEOPESENTS TWO BUBBLERS PER TREE. PLACE BUBBLEMS AT EDGE OF ROOTBALL ON OPPOSITE SIDES OF TREE TYPICAL INSTALL SUBBLERS. 1" BELOW FINISH CRADE WITHIN PERFORATED POVE DRAIN PIPE.

RAMBIRD HACZ-OTS-PIP COUNTOL VALVE FOR DRP SYSTEMS.

NECO BRASS LOCANIA NET HOSE OF DRP SYSTEMS.

NECO BRASS LOCANIA NET HOSE DE ... ATTACH TO BUILDING BY PLUMBER MAYALL PER JOACH.

CITY OF LOS ANGELES LANDSCAPE ORDINANCE IRRIGATION POINTS REQUIRED FOR 33,450 B SO FT PROJECT. ADD

TECHNIQUE	TABLE II ITE	# OF		TOTAL PONTS
Drip/fow precipitation circuits	Ť	2	-5	10
Automatic erigation controller / cycling capacity	3	- 1	5	5
Plants on site to remain more than 3 years	6	1000	.2	2000
Lown area 0%-15% of landscape area	6	1	10	10
Rain sensor	4	1	2	2
TOTAL POINTS				202

DRIPLINE	SUPPLY	EXHAUST	LATERAL	PIPE	SIZING	

ZONE FLOW	PIPE SIZE
0 - 5 GPM	DRIPLINE TUBING or 1/2" PVC
5 - 8 GPM	3/4" PVC
8.1 - 13 GPM	1" PWC
131 - 22 SPM	1 1/4" PVC

	Moderate	0.4		1,128	541.2
	Moderate	0.4		26	10.4
5	Low	0.2		1436	287.2
1	Moderate	0.4		116.5	46.6
3	Moderate	0.4		2	0.8
5	Moderate	0.4		380	152
	Moderate	0.4		538 5	215.5
3	Moderate	0.4		1231	492.4
9	High(SPA)	1.8		50	60
			SHIM	4.918	1.806

Maximum Applied Water Allowance (MAWA) 150 1 (0.62) (0.55) (4.918) = 84.019 6 Gallons

Estimated Total Water Use (ETWU) (50.1)×(0.62)×(1.806.1/0.81) =69.260.6 Gallons

The ETWU(69,260.6 Gallons per year) is less than MAWA(84,019.6 Gallons per year), the water budget complies with the MAWA

16 UNLESS CONTRADICTED BY A SOILS TEST, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1 000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL

17. IDENTIFICATION OF A POTABLE AND NONPOTABLE WATER SYSTEM. IN BUILDINGS WHERE POTABLE WATER AND NONPOTABLE WATER SYSTEMS ARE INSTALLED. EACH SYSTEM SHALL BE CLEARLY IDENTIFIED IN ACCORDANCE WITH SECTION 601.2.1 THROUGH SECTION 602.2.4

501.2.1 POTABLE WATER, GREEN BACKGROUND WITH WHITE LETTERING
501.2.2 COLOR AND INFORMATION. EACH SYSTEM SHALL BE IDENTIFIED WITH A COLORED PIPE OR BAND AND
CODED WITH PAINTS. WRAPS. AND MATERIALS COMPATIBLE WITH 1 THE PIPING.

501 2.2.1 ALTERNATE WATER SOURCES, ALTERNATE WATER SOURCE SYSTEMS SHALL HAVE A PURPLE (PANTONE COLOR NO. 512, 522C, OR EQUIVALENT) BACKGROUND WITH UPPERCASE LETTERING AND SHALL BE FIELD OR FACTORY MARKED AS FOLLOWS:

1) GRAY WATER SYSTEMS SHALL BE MARKED IN ACCORDANCE WITH THIS SECTION WITH THE WORDS "CAUTION NONPOTABLE GRAY WATER, DO NOT DRINK" IN YELLOW LETTERS (PANTONE 108 OR QUIVALENT).

2) RECLAIMED (RECYCLED) WATER SYSTEMS SHALL BE MARKED IN ACCORDANCE WITH THIS SECTION WITH THE WORDS. "CAUTION: NONPOTABLE RECLAIMED (RECYCLED) WATER. DO NOT DRINK" IN BLACK LETTERS.

CAUTION, ON-SITE TREATED NONPOTABLE WATER, DO NOT DRINK" IN YELLOW LETTERS (PANTONE 108 OR

4) RAINWATER CATCHMENT SYSTEMS SHALL BE MARKED IN ACCORDANCE WITH THIS SECTION WITH THE WORDS: "CAUTION: NONPOTABLE RAINWATER. DO NOT DRINK" IN YELLOW LETTERS (PANTONE 108 OR QUIVALENT).

18 ALL SPRINKLER HEADS OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER.

19. OVERHEAD IRRIGATION SHALL NOT BE PERMITTED WITHIN 24-INCHES OF ANY NON-PERMEABLE SURFACE.

RAIN / ET SENSOR PLACEMENT NOTE:

THE RAIN SENSOR SHALL BE INSTALLED ON THE SOUTH OR SOUTHWESTERN FACING AREA OF THE ROOF THE AREA SELECTED SHALL BE IN A CLEAR OPEN AREA OF THE ROOF NOT EFFECTED BY SHADE FROM ANOTHER BUILDING OR TREE. THE CONTRACTOR SHALL INSTALL THE SENSOR ON AN EAVE OR FASCIA BOARD PER THE DIRECTION OF THE LANDSCAPE ARCHITECT. ALL WIRING SHALL BE CONCEALED PER THE DIRECTION OF THE LANDSCAPE ARCHITECT. ALL WIRING SHALL BE CONCEALED PER THE DIRECTION OF THE LANDSCAPE ARCHITECT EITHER WITHIN PVC CONDUIT OR OTHER MEANS AS DIRECTED BY THE LANDSCAPE ARCHITECT.



Ten (50) Te-015 100 (50) 50-559 Te (50) Te-047

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OWNER	17454 CHATSWORTH, LLC.
	ST.

17454 CHATSWORTH (GRANADA HILLS, CA 91

IRRIGATION PLAN (COMMERCIAL)

DATE: NOVEMBER 2017 SCALE: 1/8"x1"-0"

16-677

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IRRIGATION NOTES

DO NOT WILLFULLY INSTALL THE SYSTEM AS DESIGNED, WHEN IT IS OBVIOUS THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT WERE NOT KNOWN DURING DESIGNING, SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. OTHERWISE THE IRRIGATION CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

2. THIS DESIGN IS DIAGRAMMATIC. EQUIPMENT SHOWN IN PAVED AREAS IS FOR CLARIFICATION ONLY. AND IS TO BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE.

3. UNLESS OTHERWISE NOTED. 120 VOLT ELECTRICAL POWER FOR CONTROLLER(S) TO BE PROVIDED BY OTHERS THE IRRIGATION CONTRACTOR WILL MAKE FINAL ELECTRICAL CONNECTION TO AUTOMATIC CONTROLLER(S) FROM OUTLET PROVIDED BY OTHERS.

4 ALL WIRES FROM CONTROLLER TO AUTOMATIC VALVES TO BE COPPER. DIRECT BURIAL, MIN. #14 GAUGE. INSTALL IN SAME TRENCH AS MAINLINE PIPING WHERE POSSIBLE MIN. COVERAGE OVER WIRE TO BE 18". COMMON WIRE TO BE WHITE IN COLOR CONTROL WIRES TO BE A DIFFERENT COLOR FOR EACH CONTROLLER USED. BUNDLE AND TAPE WIRESTOGETHER MIN. 20" ON CENTER

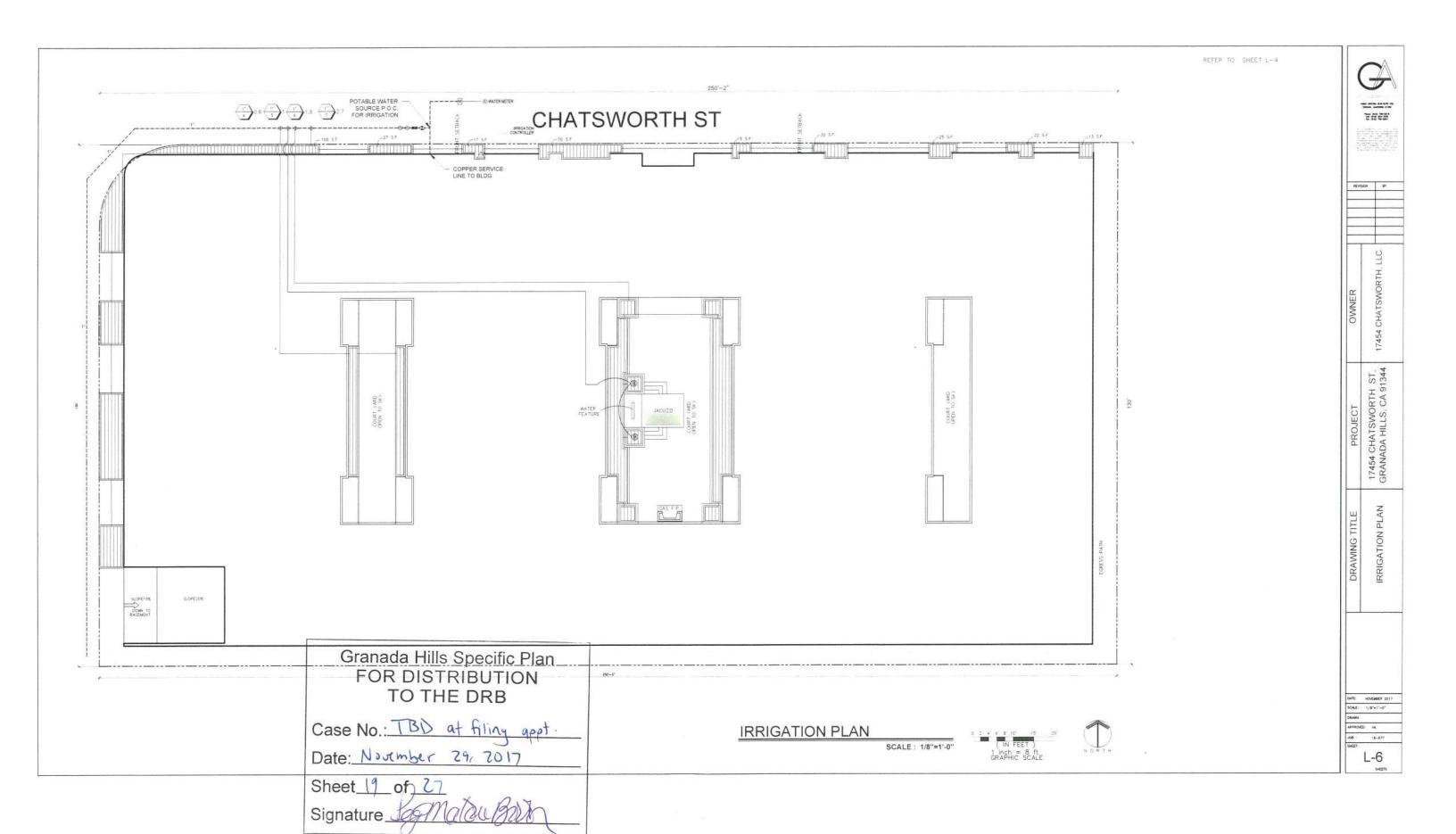
5 FINAL LOCATIONS FOR BACKFLOW PREVENTERIS) AND CONTROLLERIS) TO BE DETERMINED BY OWNER'S AUTHORIZED REPRESENTATIVE. IN THE FIELD

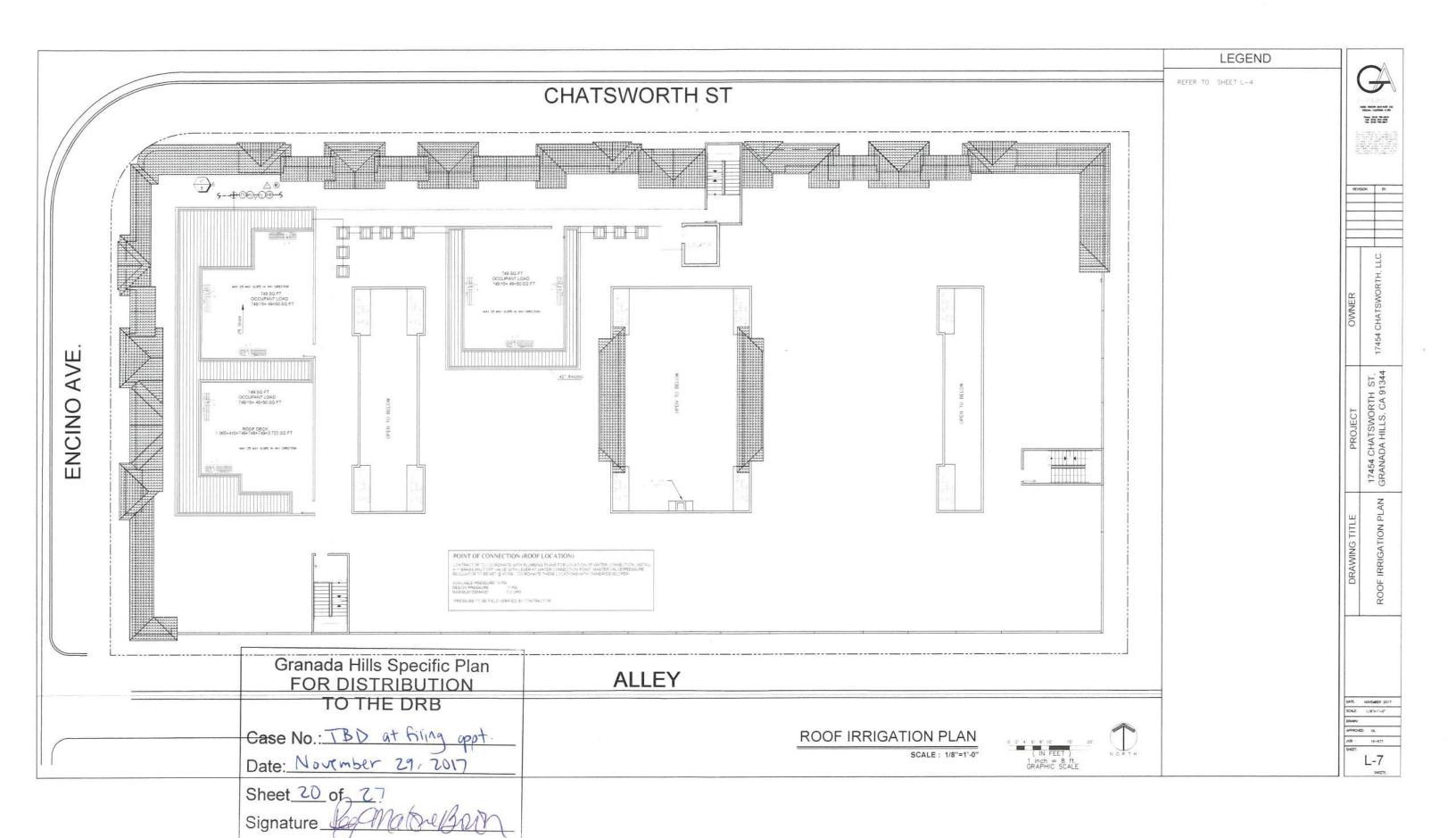
6 INSTALL ALL EQUIPMENT (VALVES, GATE VALVES, BOXES ETC.) IN PLANTING AREAS ONLY, NOT IN LAWN AREAS.

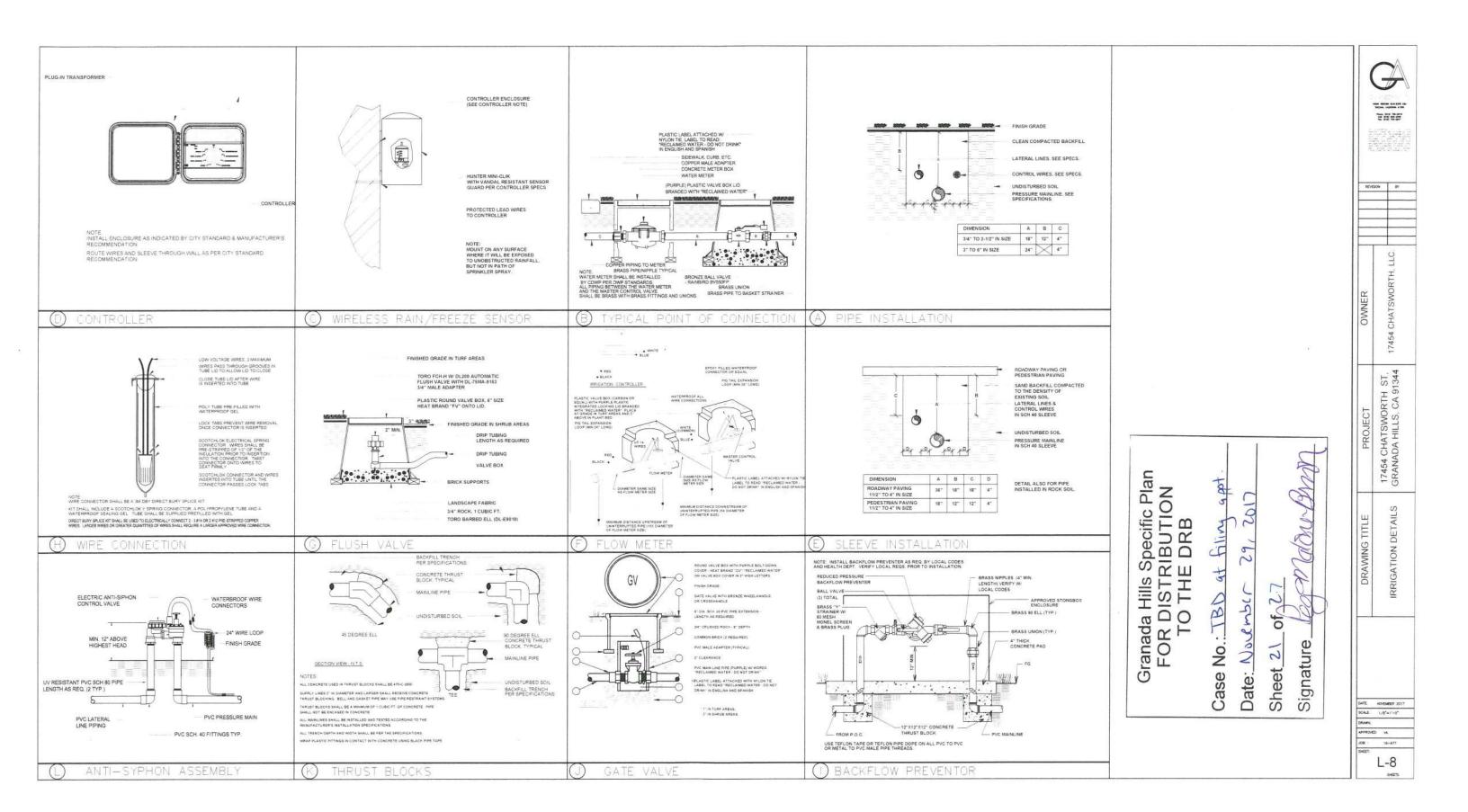
7 PROVIDE MIN 18" COVERAGE OVER ALL PRESSURE LINES, AND MIN OF 12" COVERAGE OVER ALL NON-PRESSURE LINES, ALL PIPING UNDER PAVING TO BE MIN, SCHEDULE 40 P.V.C. AND TO HAVE MIN, 24" COVER OVER PIPING

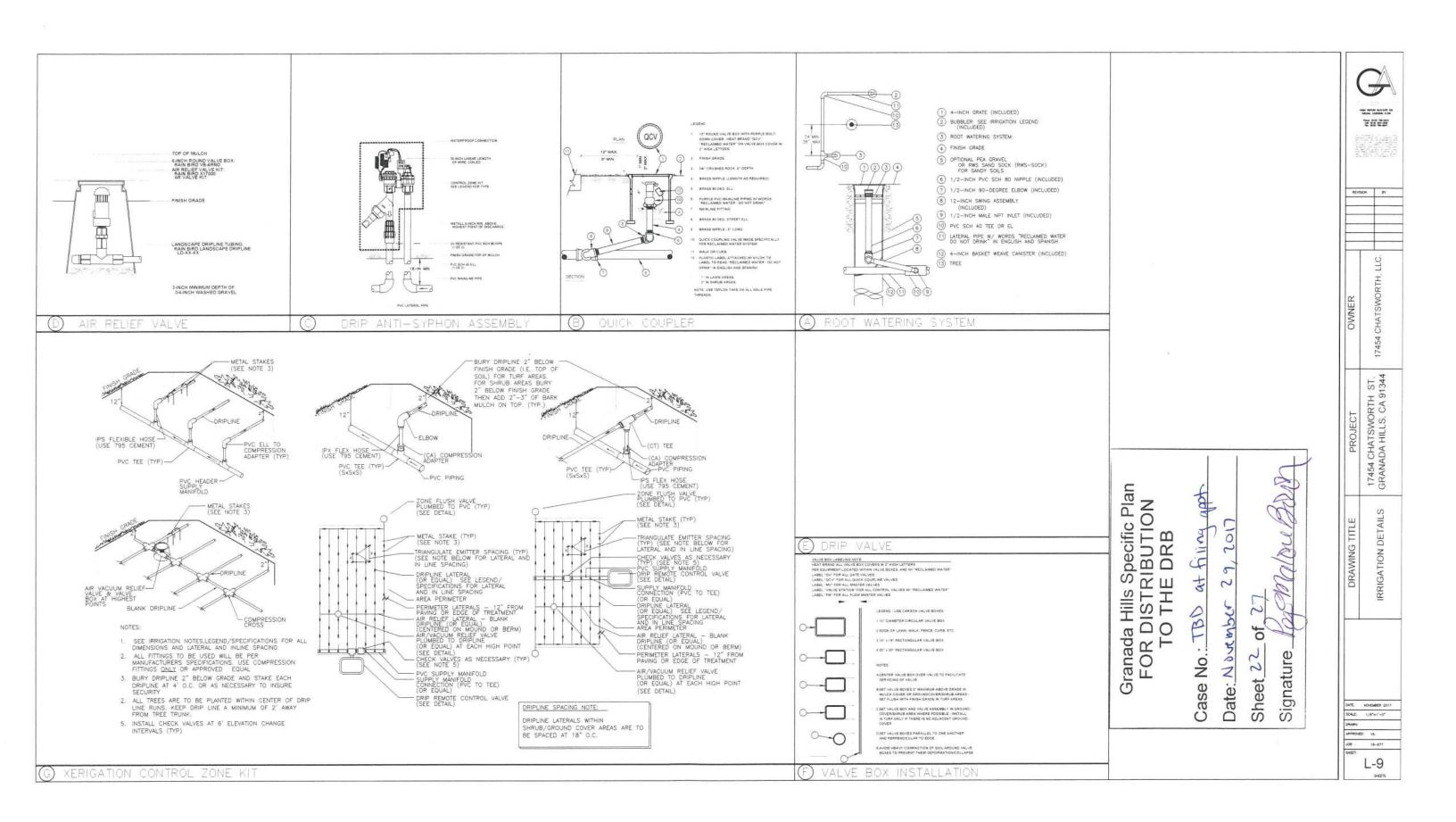
5 IRRIGATION CONTRACTOR TO FLUSH ALL LINES AND ADJUST ALL SPRINKLERS FOR MAXIMUM PERFORMANCE. AND TO PREVENT OVERSPR. ONTO WALKS, DRIVES BUILDING, ETC. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT ACTUAL SITE CONDITIONS

9 ALL SHRUBBERY SPRINKLERS ADJACENT TO PARKING LOT OR ALONG WALKS OR ROADS SHALL BE INSTALLED WITH HIGH POP-UP BODIES









IRRIGATION SYSTEM

Provide all labor, materials, transportation, and services necessary to furnish and install irrigation system as shown on the drawings and described herein

II. QUALITY ASSURANCE AND REQUIREMENTS

A. Permits and Fees:
The contractor shall obtain and pay for any and all permits and all inspections as required.

B. Manufacturers Directions:
Manufacturers directions and detailed drawings shall be followed in all passes urfacturers Directions: unifacturers directions and detailed drawings shall be followed in all cases where the manufacturers of icles used in this contract furnish directions covering points not shown in the drawings and

Injury Section 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 proout by the contractor. Anything contained in these specifications shall not be construed to conflict with any of the above rules and regulations or requirements of the same. However, when these specifications and drawings call for or describe materials, workmanship, or construction of a better quality, higher standards or larger size than is required by the above rules and regulations, the provisions of these specifications and

larger size than is required by the above ruses and regulatorial registerial required. Description of the scale of drawings, it is not possible to indicate all offsets. fittings, sieeves, etc. which may be required. The contractor shall carefully investigate the structural and finished, conditions affecting all of his work and plan his work accordingly, furnishing such fittings, etc. as may be required to meet such conditions 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, planting and architectural features.

2. The word Architect as used herein shall refer to the Owners authorized representative.

3. All work called for on the drawings by notes or details shall be turnished and installed whether or not specifically mentioned in the specifications.

4. The contractor shall not willruly install the irrigation system as shown on the ortawings, when it is obvious in the field that obstructions, grade differences or discrepancies in area dimensions exist that might not have been considered. Such obstructions or differences should be brought to the attention of the Owners authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any

A. Material List

1. The contractor shall 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.

2. Complete material list shall be submitted prior to performing any work. Material list shall include the manufacturer, model number and description of all materials and equipment to be used.

3. 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 site at his own expense.

4. 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.

5. Manufacturers warranties shall not relieve the contractor of his liability under the guarantee. Such warranties shall only supplement the guarantee.

8. Record and A.s-Built Drawings:

1. The contractor shall provide and keep up to date a complete as-built record set of blue line ozalid prints which shall be corrected daily and show every change from the original drawings and specifications and the exact as-built locations, sizes, and kinds of equipment. Prints for this purpose may be obtained from the Architect at cost. This set of drawings shall be kept on the site and shall be used only as a record set.

2. These drawings shall also serve as work progress sheets, and the contractor shall make neat and legible annotations thereon daily as the work proceeds, showing the work as actually installed. These drawings shall be available at all times for the inspection, the contractor shall transfer all information from the as-built prints to an ozalid sepla, procured from the Architect. All work shall be neat, in kink and subject to the approval of the Architecturity of the Architecture of the final inspection, the contractor shall transfer all information from the as-built prints to an ozali

- Routing of sprinkler pressure lines (dimension maximum 100 feet along routing). Sprinkler control valves.
- . Routing of control wiring
- g. Quick coupling valves . Other related equipment as directed by the Architect.

- h. Other related equipment as directed by the arcnitect.

 Controller Charts:

 1. As-built drawings shall be approved by the Architect before controller charts are prepared.

 2. Provide one controller chart for each controller supplied.

 3. The chart shall show the area controlled by the automatic controller and shall be the maximum size which the controller door will allow.

 4. 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, it shall be enlarged to a size that will be readable britishnesstandshall be a black line or blue line ozalid print and a different color shall be used to indicate the area of coverage for each station.
 - Middle Memoral by a black line of blue line ozallo print and a printerin soor shall be a black line of blue line ozallo print and a printerin soor shall be a black line of blue line beautiful sealed between two pieces of plastic, each piece being a minimum to mils.

 7. These charts shall be completed and approved prior to final inspection of the irrigation system. Prepare and deliver to the Architect within ten calendar days prior to completion of the construction, two hard cover binders with three rings containing the following information:

 a. Index sheet stating contractors address and telephone number, list of equipment with name

- and addresses of local manufacturers representatives.

 Catalog and parts sheets on every material and equipment installed under this contract.

- d. Complete operating and maintenance instruction on all major equipment.

 2. In addition to the above mentioned maintenance manuals, provide the Owners 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.

 E. Equipment to be Furnished:

- Supply as a part of this contract the following tools:
- supply as a part of this contract the following tools.

 a. Two (2) sets of special tools required for removing, disassembling and adjusting each type of sprinkler and valve supplied on this project.

 b. Two (2) feet foot valve keys for operation of gate valves.

 c. Two (2) keys for each automatic controller.

- d. Two (2) quick coupler keys and matching hose swivels for each type of quick coupling valve
- installed,

 The above mentioned equipment shall be turned over to the Owner at the conclusion of the project. Before final inspection can occur, evidence that the Owner has received material must be shown to the Architect.

IV. PRODUCT DELIVERY, STORAGE AND HANDLING

A Handling of PVC Pipe and Fittings:
The contractor is cautioned to exercise care in handling, loading, unloading and storing of PVC pipe and fittings.
All PVC pipe shall be transported in a vehicle which allows the length of pipe to lie flat so as not to subject it to undue bending or concentrated external loan 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.

V. GUARANTEE

A. The guarantee for the sprinkler irrigation system shall be made in accordance with the attached form. The general conditions and supplementary conditions of these specifications shall be filled with the Owner or his representative prior to acceptance of the irrigation system.

B. A copy of the guarantee form shall be included in the operations and maintenance manual.

C. The guarantee form shall be re-typed onto the contractors letterhead and contain the following information:

GUARANTEE FOR SPRICKLER IRRIGATION SYSTEM

We hereby guarantee that the sprinkler irrigation system we have furnished and installed is free from deflects 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 any deflects 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 replaces of such deflects at no additional cost to the Owner. We shall 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.

PROJECT: _		
LOCATION:		
	COMPANY:	3
	SIGNED:	
	ADDRESS:	
	PHONE:	
DAT	E OF ACCEPTANCE:	

A. General: Use only new materials of brands and types noted on drawings, specified herein, or

- approved equals.

 8. PVC Pressure Main Line Pipe and Fittings:

 1. Pressure main line piping for sizes 2 inches and larger, shall be PVC Class 315.

 2. Pipe shall be made from an NSF approved Type I, Grade L, PVC compound conforming to ASTM resin specification D1784. All pipe must meet requirements as set forth in Federal Specification PS-22-70. with an appropriate standard dimension (S.D.R.). (Solvent-weld Pipe).

 2. Pressure main line piping for sizes 1-1/2 inches and smaller shall be PVC Schedule 40 with solvent welded loints.
- welded joints.

 4. Pipe shall be made from NSF approved Type I, Grade I PVC compound conforming to ASTM resin specification 1785. All pipe must meet requirements as set forth in Federal Specification.
- PS-21-70. (Solvent-weld Pipe).

 5. PVC solvent-weld fittings shall be Schedule 40, 1-2, II-I NSF approved conforming to ASTM.
- 6. Solvent cement and primer for PVC solvent-weld pipe and fittings shall be of type and
- installation methods prescribed by the manufacturer. All PVC pipe must bear the following markings:

- 8. NSF (National Sanitation Foundation) approval
 5. Date of extrusion
 8. All fittings shall bear the manufacturers name or trademark: material designation, size applicable I.P.S. schedule and NSF seal of approval.
 C. PVC Non-Pressure Lateral Line Piping;
 1. Non-pressure Lateral Line Piping;
 2. Non-pressure burdel lateral line piping shall be PVC class 200 with solvent-weld joints.
 2. Pipe shall be made from NSF approved, Type I, Grade II PVC compound conforming to ASTM resin specification D1784. All pipe must meet requirements as set forth in Federal Specification PS-22-70, with an appropriate standard dimension ratio.
 3. Except as noted in paragraph 1 and 2 of section 2.01C, all requirements for non-pressure lateral line pipe and fittings shall be the same as for solvent-weld pressure main line pipe and fittings.

 8. Brass Pipe and Fittings.

 9. Brass Pipe and Fittings.
- D. Brass Pipe and Fittings:

 1. Where indicated on the drawings, use red brass screwed pipe conforming to Federal Specification number WW-P-351.

 Specification number WW-P-351.
- Specimeauon number WW-P-351.
 2. Things shall be red brass conforming to Federal Specification number WW-P-460.
 3 Parantzed Pipe Fittings:
- Where indicated on the drawings, use galvanized steel pipe ASA Schedule 40 mild steel screwed
- pipe. 2. Fittings shall be medium galvanized screwed beeded malleable iron. Galvanized couplings may be
- 3. All galvanized pipe and fittings installed below grade shall be painted with two (2) coats of Kippers number 50 Bitumastic.
- F. Gate Valves 3 inch and smaller shall be 125 lb. SWP bronze gate valve with screw-in bonnet, nonrising stem and solid wedge disc.

 2. Gate valves 3 inch and smaller shall have threaded ends and shall be equipped with a bronze.
- Gate valves 3 inch and smaller shall be similar to those manufactured by Nibco or approved equal. 4. All gate valves shall be installed per installation detail
- G. Quick Coupling Valves:

 1. Quick Coupling valves shall have a brass two-piece body designed for working pressure of 150
 P.S.J. operable with quick coupler. Key size and type shall be as shown on plans.
- H. Backflow Prevention Units: Backflow preventers and or vacuum breakers shall be of size and type as indicated on the
- 1. Backflow preventers and or vacuum breakers shall be of size and type as indicated on the drawings. All sprinkler irrigation systems that are using water from the potable water system shall require backflow prevention. All backflow prevention units shall be installed in accordance with the requirements set forth by local codes and the County Health Department.
 2. Sprinkler irrigation systems which use water from the reclaimed water system will not require backflow prevention. However, all pressure main line pliping receiving water from the reclaimed water system shall be of an approved type of purple pipe approved warning tape. Refer to reclaimed water notes for additional information.
- 1. Anti-drain valves shall be of heavy duty virgin PVC construction with F.I.P. thread inlet and
- outlet. Internal parts shall be stainless steel and neoprene. Anti-drain valve shall be field adjustable against drawout from 5 to 40 feet of head. Anti-drain valve shall be similar to the Valcon ADV or approved equal
- Control Writing:

 1. 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 wire for each automatic controller. Common wires shall be white with a different color stripe for each automatic controller. Install in accordance with valve manufacturers specification and wire chart. In no case shall wire size be less than number 14.

 2. Writing shall occupy the same trench and shall be installed along the same route as pressure
- supply or lateral lines wherever possible
- 3. Where more than one (1) wire is placed in a trench, the wiring shall be taped together at itervals of ten (10) feet.
- intervals of ten (10) that have a second and at the expansion our should be provided within three (3) feet of each wire connection and at least every one hundred (100) feet of wire length on runs more than one hundred (100) feet in length. Expansion curls shall be formed by wrapping at least five (5) turns of wire around a one-inch in diameter pipe then withdrawing the pipe.
- 5. All splices shall be made with Scotch-Lox #3576 Connector Sealing Packs, Pen-Tite wire connector, or approved equal. Use on splice per connector sealing pack.
 6. Field splices between the automatic controller and electrical control valves will not be allowed without prior approval of the Architect.

- K. Automatic Controllers:
 1. Automatic controllers shall be of size and type shown on the plans.
 2. Final location of automatic controllers shall be approved by the Owners authorized.
- representative.

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

 Electric Control Valves:

 1. All electric control valves shall be the same manufacturer as the automatic controllers, or per
- plan.

 2. All electric control valves shall have a manual flow adjustment
- de and install one control valve box for each electric control valve.
- ontrol Valve Boxes: 1. Use 9 inch x 24 inch round box for all gate valves, Brooks number 9 or approved equal. 2. Use 9-1/2 inch x 16 inch x 11 inch rectangular box for all electrical control valves. Carson industries
- 1419-128 or approved equal. All sprinkler heads shall be of the same size, type and deliver the same rate of precipitation
- 1. All sprinker neads a han bed into same size, type and observe the same rate of precipitation with diameter (or radius) of throw, pressure, and discharge as shown on the plants and or specified in these special provisions.
 2. Spray heads shall have a server adjustment.
 3. Riser units shall be tabricated in accordance with the details shown on the plans.
 4. Riser inplies for all sprinkler heads shall be the same size as the riser opening in the sprinkler.
- body.

 5. All sprinkler heads of the same type shall be of the same manufacturer.

 6. Overhead irrigation shall not be permitted within 24-inches of any non-permeable surface.

VII. INSPECTION

- A. Site Conditions:

 1. All scaled dimensions are approximate. The contractor shall check and verify all size dimensions and receive Architects approval prior to proceeding with work under this section.

 2. Exercise extreme care in excavating and working near existing utilities, Contractor shall be responsible for damages to utilities which are cause by his operations or neglect. Check existing utilities drawings for existing utility locations.

 3. Coordinate installation of sprinkler irrigation malerales, including pipe, so there shall be NO interference with utilities or other construction or difficulty in planting trees, shrubs, and ground covers.
- covers.

 4. The contractor shall carefully check all grades to satisfy himself that he may safely proceed before starting work on the sprinkler irrigation system.

VIII. PREPARATION

- A. Physical Layout:
 1. Prior to installation, the contractor shall stake out all pressure supply lines, routing and
- location of sprinkler heads.

 2. All layout shall be approved by Architect prior to installation.
- kler irrigation system shall be connected to water supply point of connection as indicated
- on the drawings.

 2. Connections shall be made at approximate locations as shown on drawings. Contractor is responsible for minor changes caused by actual site conditions.

 C. Electrical Supply:

 1. Electrical connections for automatic controller shall be made to electrical points of connection
- Electrical conhections for automate visitation as indicated on the drawings.
 Connections shall be made at approximate locations as shown on drawings. Contractor is responsible for minor changes caused by actual site conditions.

IX. INSTALLATION

- A. Trenching:
 Dig trenches straight and support pipe continuously on bottom of trench. Lay pipe to an even grade. Trenching excavation shall follow layout indicated on drawings and as noted.
 Provide for a minimum of eighteen (18) inches cover for all pressure supply lines.
 3. Provide for a minimum cover of twelve (12) inches for all non-pressure lines. 4. Provide for a minimum cover of eighteen (18) inches for all control wiring.

- sackfilling:

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

 2. A fine granular material backfill will be initially placed on all lines. No foreign matter larger

- 2. A fine granular material backfill will be initially placed on all lines. No foreign matter larger than one-half (fiz) inch in size will be permitted in the initial backfill.
 3. Flooding of trenches will be permitted only with approval of the Architect.
 4. If settlement occurs and subsequent adjustments in pipe, valves, sprinkler heads, lawn or planting, or other construction area is necessary, the contractor shall make all required adjustments without cost to the Owner.

- C. Trenching and Backfill Under Paving: 1. Trenches located under areas where paving, asphaltic concrete or concrete will be installed shall be backfilled with sand (a layer six (6) inches below the pipe and three (3) inches above the be baskfilled with sand (a layer six (6) inches below the pipe and three (3) inches above the pipe) and compacted in layer to defront compaction, using manual or mechanical tamping devices. Trenches for piping shall be compacted to equal the compaction of the existing adjacent undisturbed soil And shall be left in a firm univelding condition. All trenches shall be 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. Generally, piping under existing walks is done by jacking, boring or hydraulic driving, but where any cutting or breaking of sidewalks and/or concrete is necessary, it shall be done and replaced by the contractors. Permission to cut or break sidewalks and/or concrete shall be obtained from the Architect. No hydraulic driving will be permitted under concrete paving.

- concrete paving.

 Assemblies:

 1. Routing of sprinkler irrigation lines as indicated on the drawings is diagrammatic. Install lines (and various assemblies) in such a manner as to conform with the details per plans.

 2. Install NO multiple assemblies on plastic lines. Provide each assembly with its own outlet.

 3. Install all assemblies specified herein in accordance with respective detail. In absence of detail drawings or specifications pertaining to specific litems required to complete work, perform such work in accordance with best standard practice with prior approval of Architect.

 4. PVC pipe and fittings shall be thoroughly cleaned of dirt. dust and moisture before installation. Installation and solvent welding methods shall be as recommended by the pipe and fitting manufacturer.
- insulativity in a manufacturer in a manufacturer
- All lines shall have a minimum clearance of six (6) inches from each other and from lines of trades. Parallel lines shall not be installed directly over one and nstall as per manufacturers instructions. Remote control valves shall be connected to controller
- G, High Voltage Wiring for Automatic Controller:

 1. 120 volt power connection to the automatic controller shall be provided by the irrigation contractor.

 2. All electrical work shall conform to local codes, ordinances, and union authorities having

numerical sequence as shown on the drawings.

H. Remote Control Valves:

Install where shown on drawings and details. When grouped together, allow at least twelve (12) inches between valves. Install each remote control valve in a separate valve box. The irrigation controller letter and the valve station number shall be placed on a plastic identity tag not. attached to the valve wires. The valve box shall be branded on the cover with the same

I. Flushing of System:

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.

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

3. Sprinkler Heads:

1. 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.

2. 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.

X. TEMPORARY REPAIRS

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

XI. EXISTING TREES

Where it is necessary to excavate adjacent to existing trees, the contractor shaft use will possible care to avoid injury to trees and tree roots. Excavation in areas where two (2) inch and larger roots occur shall be done by hand. All roots two (2) inches and larger in diameter, except directly in the path of pipe or conduit, shall be tunneled under and shall be heavily wrapped with buriap to prevent scarring or excessive drying. Where a disthing machine is run close to trees having roots smaller than two (2) inches in diameter, the wail of the thench adjacent to the tree shall be hand frimmed, making clean cuts thorough. Roots one (1) inch and Grarger in diameter shall be painted with two coats of Tree Seal, or equal. Trenches adjacent to ages should be closed within twenty-four (24) hours; and where this is not possible, the sides the such adjacent to the tree shall be kept shaded with burlap or canvas. Where it is necessary to excavate adjacent to existing trees, the contractor shall 0 0 XII. FIELD QUALITY CONTROL FIELD QUALITY CONTROL

A. Adjustment of the System:

1. The contractor shall flush and adjust all sprinkler heads for openium authoritance and prevent overspray onto walks, roadways, and buildings as an such as beastle and adjustments in the irrigation equipment will proving proper and more adequate cover, the contractor shall make such adjustments prior ticklinning. Adjustments malso include changes in nozzle sizes and degrees of arc as required.

3. Lowering raised sprinkler heads by the contractor shall be accompliance with an including and after notification by Owner.

4. All sprinkler heads shall be set perpendicular to finished grades unlassed the relians.

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1. The contractor shall request the presence of the Architect in writing

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8. Testing of Irrigation system:

1. The contractor shall request the presence of the Architect in writing and set 2 hours advance of testing.

2. Test all pressure lines under hydrostatic pressure of 150 lbs, per against nicky and prove watertight. Note: Testing of pressure main lines shall occur prior to useful allow a provide watertight. Note: Testing of pressure main lines shall occur prior to useful allows a provide watertight. The provide watertight prior to paving.

3. All piping under paved areas shall be tested under hydrostatic pressure of 150 lbs. presequare inch, and proved watertight.

4. Sustain pressure in lines for not less than two (2) hours. If leaks development are passible to the state until entire system is proven watertight.

5. All hydrostatic tests shall be made only in the presence of the Architect prior the following the provide presentative of the Owner. No pipe shall be backfilled use this pren inspected tested and approved in writing.

6. Furnish necessary force pump and all other test equipment.

7. When the sprinkler irrigation system is completed, perform a coverage (5) if the presence of the Architect to determine if the water coverage for planting areas is completed adequate. Furnish all materials and perform all work required to correct any inpreguacies of coverage of the Architect to determine if the water coverage for planting areas is completed on the draw when it is obviously inadequate, without bringing this to the attention of the Architect. This testial is a accomplished before any ground cover is planting.

8. Upon completion of each phase of work, entire system shall be tested and adjusted to meet still requirements. r square note and prove ir to installation of element cont ressure of 150 bs. per square developreplace joints and

A. The entire sprinkler irrigation system shall be under full automatic operation for a period of

XIII, MAINTENANCE

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 on the work of others shall be repaired to original conditions.

XVI. FINAL INSPECTION SCHEDULE

8. When inspections have been conducted by other than the Architect show evidence of when

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REVISION IN CHA 17454 ST, CHATSWORTH SADA HILLS, CA 91 17454 C GRANA[

DATE: NOVEMBER 2017

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SCALE 1/8"=1"-0"

seven (7) days prior to any planting.

B. The Architect reserves the right to waive or shorten the operation period.

XV. FINAL INSPECTION PRIOR TO ACCEPTANCE A. The contractor shall operate each system in its entirety for the Architect at time of final inspection. Any items deemed not acceptable by the inspector shall be reworked to the complete.

- atisfaction of the Architect. satisfaction or the Architect.

 B. The contractor shall show evidence to the Architect that the Owner has received all accessories, charts, record drawings, and equipment as required before final inspection can occur

A. Contractor shall be responsible for notifying the Architect in advance for the following inspections, according to the time indicated:

1. Pre-job Conference - 7 days

2. Pressure supply line installation and testing - 72 hours

3. Automatic controller installation - 72 hours

4. Control wire installation - 72 hours

5. Lateral line and sprinkler installation - 72 hours

5. Coverage test - 72 hours

7. Final inspection - 7 days

8. When is executions have been conducted by other than the Architect show evidence of a

when inspections have been conducted by other than the Architect show whether or when and by whom these inspections were made. C. No inspection will commence without as-built drawings, without so-built for an inspection willout as-built drawings, without completing previously noted corrections, or without preparing the system for inspection, he shall be responsible for reimbursing the Architect at the rate of \$75.00 per hour portal to portal (plus transportation costs) for the inconvenience. No further inspections will be scheduled until this charge has been paid.

Signature 69 MolouBun

PLANTING SPECIFICATIONS

I. SCOPE

Case No: TBD at filing appt. Furnish all material labor transportation eq. of the planting areas shown on the drawings, or re Included as a part of the work of this Section, but Date: November 29, 7017

following items:

A. Pre-planting weed control of all planting areas.

B. Soil preparation and fine grading of all planting

amendments.

C. Preparation of all planting and specimen tree holes to be a constant of all planting and specimen tree holes to be a constant of all plant materials lawn becomes, mulcipes, ed.

E. Furnishing and installation of all required planting backfill materials, tree stakes, guy wires.

and miscellaneous material. F. Providing maintenance for ninety (90) continu

G Guarantee and replacement

All materials shall be of standard, approved and first grade quality and shall be in prime conditions when installed and accepted. Any commercially processed or packaged material shall be delivered to the site in the original unopened container bearing the manufacturers guaranteed analysis. Contractor shall supply Owner with a sample of all supplied materials ccompanied by analytical data from an approved laboratory source illustrating compliance or bearing the manufacturers guaranteed analysis.

Topsoil, as required, shall be obtained from on site excavations

Soil conditioners may include any or all of the specific conditioners herein specified.

Soil conditioners may include any or all or the specific Conditioners may include any or all or the specific Conditioners may include any or all or the specific Conditioners and include any or all or the specific Conditioners and include any or all or the specific Conditioners and include any or all or specific Conditioners and include any or all or the specific Conditioners and include any or all or the specific Conditioners and include any or all or the specific Conditioners and include any or all or the specific Conditioners and include any or all or the specific Conditioners and include any or all or the specific Conditioners and include any or all or all

Nitrogen Content (dry weight) - 0.65% - 0.84% Iron Content - Minimum 0.08 % dilute acid soluble Fe. on dry weight basis. Soluble Salts - Maximum 3.5 Millimohos centimeter at 25 degrees centigrade as determined by saturation extract method

Ash - (dry weight) 0 - 6.0%

2. Other Materials:
Fertilizer shall be delivered to the site in the original unopened containers and of commercial grade, uniform in composition, dry and free flowing, of the following analysis a. Gro-Power Plus b. Gro-Power planting tablets c. As Specified
C. Tree Support:
Materials for staking and guying shall be as follows:

1. Support stakes shall be lodge pole pine stakes, Length as determined to facilitate upright stands as described.

stand as described.

I des: Elastic webbing, polyethylene tape, or Owner approved tie.

Guy wire, steel guy anchor and plastic hose tie of adequate size and length to safely support

D. Miscellaneous Materials:

Sand: Washed river sand or equal Post Emergent Weed Killer: Paraguat, Roundup, or Owner approved herbicide.

Tree Wound Paint: As approved.
Fiber: Wood cellulose mulching fiber Conweb or equal

Chemical Additive: Seed germinating additive CPA 4000 or equal.

Nomenciature:
 The scientific and common names of plants herein specified conform with the approved names given in A Checklist of Woody Ornamental Plants in California, Manual 32, published by the University of California School of Agriculture (1963).
 Plant List for Bid:

A Frank USE VID DIU.

The contractor is herein referred to the landscape plans for the plant material selection and the requirements of this section of the specifications. Container sizes, unless otherwise stated, have been used to indicate the size of the plant material required.

5. Each group of plant materials delivered to the site shall be clearly labeled as to species, variety and nursery source; however, determination of plant species or variety will be made by the Landscape Architect, and his decision will be final. The contractor shall notify the Landscape Architect 72 hours in advance of delivery of all plant materials and shall submit an itemized list of

As a convenience to the contractor, the Landscape Architect upon request, will inspect box size material at the source nursery prior to

delivery at the cost of the contractor. Said source nurseries shall be reasonably close to the project site as determined by the Landscape Architect. Plant material so inspected shall arrive at the project site in an undamaged condition.

Architect. Plant material so inspected shall arrive at the project site in an undamaged condition.

4. Quality and Size:

Plants shall be in accordance with the California State Department of Agricultures regulation for nursery inspections, rules and grading. All plants shall have a normal habit of growth and shall be sound, healthy vigorous, and free of insect infestations, plant diseases, sun scalds, fresh abrasions of the bark, excessive abrasions, or other objectionable disfigurements. Tree trunks shall be sturdy and well (hardened off). All plants shall have normally well developed branch systems and vigorous and librous root systems which are not root or pot bound. In the event of disagreement as to condition of root systems, the root condition of the plants furnished by the contractor in containers will be determined by removal of earth from the roots of not less than two plants or more than two percent of the total number of plants of each species or variety. Where container grown plants are from several sources, the roots of not less than two plants of each species or variety trom each source will be inspected. In case the sample plants inspected are found to be defective, the Landscape Architect reserves the right to reject the entire lot or lots of plants represented by the defective samples, The Landscape Architect is the sole judge as to acceptability. Any plants rendered unsuitable for planting because of this inspection will be considered as samples and will be provided at the expense of the contractor.

The size of the plants will correspond with that normally expected for species and variety of commercially available nursery stock, or as The size of the plants will correspond with that normally expected for species and variety of commercially available nursery stock, or as specified in the Special Conditions or drawings. The minimum acceptable size of all plants, measured before pruning with the branches in normal position, shall conform with the measurements, if any specified on the drawings in the list of plants to be furnished. Plants larger size than specified may be used with the approval of the Landscape Architect, but the use of larger lants will make no change in contract price. If the use of larger plants is approved, the ball of earth or spread of roots for each plant will be increased proportionately.

be marked as rejected and immediately removed from the site of the work and replaced with new plants at the contractors expense. Ti plants shall be of the species, variety, size and condition specified herein or as shown on the drawings. Under no condition will there be any bstitution of plants or sizes of those listed on the accompanying plans, except with the expressed consent of the Landscape Architec

6. Pruning: At no time shall trees or plant material be pruned, trimmed or topped prior to delivery and any alteration of their shape shall be conducted only with the approval and when in the presence of the Landscape Architect and as noted in the Planting Specifications.

All plants at all times shall be handled and stored so that they are adequately protected from drying out, from wind burn, or from any other

injury.

8. Right of Inspection:
The Landscape 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 condition

ed used shall be labeled and shall be furnished in sealed standard containers with signed

o-Mulching Materials: dro-mulch mix shall consist of wood cellulose mulching fiber. Conweb mulching fiber

G. Hydro-Mulching Application:

Hydro-Mulching Application:

Equipment: Hydraulic equipment used for the application of the fertilizer, seed and slurry of prepared wood pulp shall be of the Super Hydroseeder type as approved by the Landscape Architect. This equipment shall have a built-in agriation system and operating capacity sufficient to agritate, suspend and homogeneously mix a slurry containing not less than 40 lbs. of fiber mulch plus a combined total of 7 lbs. fertilizer solids for each 100 gallons of water. The slurry mulping a combined total of r los, termizer solids for each not gallons or water. The shurry distribution lines shall be large enough to prevent stoppage and shall be equipped with a set of ingraulic spray nozzles which will provide a continuous non-fluctuating discharge. The slurry tank shall have a minimum capacity of 1,500 gallons and shall be mounted on a traveling unit, either self-propelled or drawn by a separate unit, which will place the slurry tank and spray nozzles within sufficient proximity to the areas to be seeded.

III. GRADING AND SOIL PREPARATION

The general subsoil grading, deep ripping, tilling, and establishment of the rough grade will be done by others, under a separate contract. Other work such as fine grading, cultivation (and in some cases, addition of topsoil) and/or soil conditioners are required to prepare the finish grade. After approximate finished grades have been established, soil shall be conditioned and fertilized in the following manner. Materials shall, at the following rates, be uniformly spread and cultivated thoroughly by means of mechanical tiller into the top 6 healthforties for the following feet. Application Rate 900 square feet:

See Soil Notes 4 cu. Yards of Nitrogen Stabilized

Organic Amenda

Organic Amendment
All soil areas shall be compacted and settled by application of heavy irrigation to a minimum
depth of twelve (12) inches.
A. Final Grades:
Alter the foregoing specified deep watering, minor modifications to grade may be required to
establish the final grade. These areas shall not be worked until the moisture content has been
reduced to a point where working it will not destroy soil structure.
I. Finish grading shall insure proper drainage of the site.
2. All areas shall be graded so that the final grades will be one inch below adjacent paved areas,
sidewalks valve boxes, headers, clean-outs, drains, manholes, etc.

sidewalks, valve boxes, headers, clean-outs, drains, manholes, etc.

3. Surface drainage shall be away from all building foundations.

Eliminate all erosion scars.

5. For soils less than 6% organic matter in the top 6 inches of soil, compost at a rate of a minimum of four cubic yards per 1,000 square feet of permeable area shall be incorporated to a depth of six inches into the soil.

Actual planting shall be performed during those periods when weather and soil co suitable and in accordance with locally accepted practices, as approved by the Landscape

After soil preparation and establishment of final grades prior to any planting, the contractor shall arter soil preparation and establishment of final grades prior to any planting, the contractor irrigate thoroughly for a period of time, two (2) to three (3) weeks or until weed seeds have germinated. When there is sufficient weed seed germination, the contractor shall apply a post-emergent weed killer, according to the directions of the manufacturer. The contractor then wait an additional one (1) week to allow the weed killer to dissipate, then plant as indicated n the plans and specifications.

 B. Layout of Major Plantings:
 Locations for plants and outlines of areas to be planted shall be marked on the ground by the observable of the parts and provided the provided provided the provided provided provided by the Landscape of the Architect. If an underground construction of utility line is encountered to the cavaliance of the construction o

C. Planting of Trees, Shrubs and Vines Excavation for planting: Excavation for planting shall include the stripping and stacking of all
acceptable topsoil encountered within the areas to be excavated for trenches, tree holes, planting. intered within the areas to be excavated for trenches, tree holes, plant

planting site.

b. All excavated holes shall have vertical sides with roughened surfaces and shall be of a size that is twice the diameter and 6 inch minimum deeper than the root ball.

c. Excess soil generated from the planting holes and not used as backfill or in establishing the final grades shall be removed from the site.

No planting shall be done in any area until the area concerned has been satisfactorily prepared in

Only as many plants as can be planted and watered on that same day shall be distributed in

Containers shall be opened and plants shall be removed in such a manner that the ball of earth Containers shall be opened and plants shall be removed in such a manner than the bail of earling surrounding life roots is not broken, and they shall be planted and watered as herein specified immediately after removal from the containers. Containers shall not be opened prior to placing the plants in the planting area.

Container plants shall be backfilled with:

See Soil Notes

Palm Backfill

8 parts by volume washed river sand 2 parts by volume nitrogen stabilized organic amendment 10 lbs. Gro-Power palm fertilizer per cubic yard of mix

2 lbs. Agricultural gypsum per cubic yard of mix

Z lbs. Agricultural gypsum per cubic yard of mix.

All plants which settle deeper than specified above shall be raised to the correct level. After the plant has been placed, additional backfill shall be added to the hole to cover approximately one-half of the height of the root ball. At this stage water shall be added to the top of the partly filled hole to thoroughly saturate the root ball and adjacent soil.

After the water has completely drained, planting tablets shall be placed as indicated halfow.

15 tablets per fifteen gallon container 16 tablets per 20 inch and 24 inch box

18 tablets per 30 inch box 20 tablets per 36 inch box

22 tablets per 42 inch box 24 tablets per 48 inch box

Larger sizes: For each half inch caliper measured 14 inches above soil level use 3 additional tablets.

The reminder of the hole shall then be backfilled. Planting tablets shall be set with each plant on the top of the root ball while the plants are still in their containers so the required number of tablets to be used in each hole can be easily

After backfilling, an earthen basin shall be constructed around each plant. Each basin shall be of a depth sufficient to hold at least two inches of water. Basins shall be of a size suitable for the individual plant. In no case shall a basin for a fifteen gallon plant be less than four feet in diameter, a five gallon plant, less than three feet in diameter; and a one gallon plant, less than two feet in diameter. The basins shall be constructed of amended backfill materials.

compensate for loss of roots during transplanting, but never to exceed one-third of the branching structure. Upon approval of the Landscape Architect, pruning may be done before delivery plants, but not before plants have been inspected and approved. Outs over three-quarters of an ch in diameter shall be painted with tree wound paint.

inch in diameter shall be painted with tree wound paint.

4. Staking and Guying:

Staking of all trees shall conform to tree staking and tree guying details and as herein specified.
Protective stakes may be planted with the tree, driving them into undisturbed soil at the bottom of the planting hole until 18 inches remains above ground level.
Support stakes tall enough to support the particular tree shall be driven 18 inches into the soil. A line drawn between the two support stakes shall be at right angles to the most troublesome wind direction. Attach crossites to the supportive stakes on the leeward side of the prevailing wind.
Ties shall be place as low on the trunk as possible but high enough so the tree will return to
undertain the processing of the prevailing wind.

To find the proper height for tie locations, hold the trunk in one hand, pull the top to one side and release. The height at which the trunk will just return to the upright when the top is released

is the height at which to attach the ties. Ties are to form a loose loop around the tree trunk and auxiliary stake so that the trunk cannot work towards the support stakes. Support stakes are not to exceed 6 inches above the tie locations. The auxiliary stake shall be attached to those trees needing extra frunk support as determined by the Landscape Architect

Wind and wrap the top of the wire with friction tape. One tree of each size shall be staked and approved by the Landscape Architect prior to continued

D. Ground Covers

Ground covers will be planted in the areas indicated on the plans. Ground covers win the plantes shall be grown in flash speak pots, or taken as cuttings, as indicated on the plans. Flat grown plants (rooted cuttings) shall remain in those flats until transplanting. The flats soil shall contain sufficient moisture so that it will not fall apart when lifting the plants. If plants

soil shall contain sufficient moisture so that it will not fall apart when lifting the plants. If plants from peat pits are used, the pots shall be protected at all times prior to plantling to prevent unnecessary drying of the root ball.

Unrooted cuttings shall be 10 inches or more in length. They shall be insect and disease free tip cuttings from healthy, vigorous and strong growing plants. Mature or brown-colored stem growths or cuttings which have been trimmed or rooted before plantling will not be accepted. Cuttings shall be planted not more than 2 days after cutting and shall not be allowed to dry or wither.

I Ground cover shall be planted in straight rows and evenly spaced, unless otherwise noted, and at intervals called out in the drawings. Triangular spacing shall be used unless otherwise noted on the plans.

2. Each rooted plant shall be planted with its appropriate amount of flat soil or in a peat pot, in a manner that will insure minimum disturbance of the root system, but in no case shall this depth be less than two nodes. To avoid drying out, plantings shall be immediately sprinkled after planting unlit the entire area is soaked to the full depth of each hole, unless otherwise noted on

E. Lawn:

Lawn shall be planted by hydroseeding and sodded as indicated on the plans. All areas shall be free from weeds and weed residue.

and post-planting irrigation.

 After soil preparation, establishment of final grades and weed control, the surface two (2) inches of soil shall be loosened by harrow rototiller and floated level and irrigated just prior to

planting. reparation: The slurry preparation shall take place at the site of work and shall begin by Preparation: The slurry preparation shall take place at the site of work and shall begin by adding water to the tank when the engine is at half throtile. When the water level has reached the height of the agitator shaft, good recirculation shall be established and at this time the seed and chemical additive shall be added. Fertilizer shall then be added followed by wood pulp mulch. The wood pulp mulch shall only be added to the mixture after the tank is at least one-third filled with water. The engine throttle shall be opened to full speed when the tank is half filled with water. All the wood pulp mulch shall be added by the time the tank is two-thirds to three-fourths full. Spraying shall commence five minutes after addition of the chemical additive when the tank is hull.

Application rates: Fiber 1,500 lbs. per acre.

Seed See plans

Gro-Power Plus 1,200 lbs. per acre (if area has been soil prepped, only use 400 lbs. per

mical Additives 3 gallons per acre

Chemical Additives 3 gainons per acre
Urea Formaldehyde 300 lbs. per acre
Application: The operator shall spray the area with a uniform visible coat by using the green
color of the wood pulp as a guide. The siurry shall be applied in a sweeping motion, in an arche
stream so as to fall like rain allowing the wood fibers material to spread at the required rate per

be rejected and removed from the project at the contractors expense.

5. Irrigation: Immediately after completion of hydroseeding, each area shall be irrigated. Irrigation during the germination period of the seeds shall keep the hydro-mulch moist at all times without creating run-off, erosion or over-saturation. The irrigation system is to be in operating condition and have been tested before planting is started.

V. ESTABLISHMENT AND MAINTENANCE PERIOD

The contractor shall continuously maintain all areas involved in this contract during the progress of the work and during the establishment period until final acceptance of the work by the Owner. The contractor shall request an inspection to begin the plant establishment period after all planting and related work has been completed in accordance with the Contract Documents. A prime requirement is that all lawn areas shall show an even, healthy stand of grass seedlings which shall have been mowed twice. If such criteria is met to the satisfaction of the Landscape Architect, a field notification will be issued to the contractor to establish the effective beginning

Architect, a field notification will be issued to the contractor to establish the effective beginning date of the plant establishment and maintenance period.

Any day when the contractor falls to adequately maintain plantings, replace unsuitable plants or do weed control or other work, as determined necessary by the Landscape Architect, will not be credited as one of the plant establishment working days. Improper maintenance or possible poor condition of any planting at the termination of the scheduled establishment period may cause postponement of the final completion date of the contract. Maintenance shall be continued by the contractor until all work is acceptable. In order to carry out the plant establishment work, the contractor shall furnish sufficient men and adequate equipment to perform the work during the plant establishment period.

Maintenance shall be according to the following standards:

All areas shall be kent free of thekris and all planted areas shall be weeterl and cultivated at

A. All areas shall be kept free of debris and all planted areas shall be weeded and cultivated at intervals of not more than ten (10) days. Watering, mowing, rolling, edging, trimming, fertilization, spraying and pest control, as may be required, shall be included in the establishment period. The contractor shall be responsible for maintaining adequate protection of the area. Damaged

areas shall be repaired at the contractors expense.

C. Between the 15th day and the 20th day of the establishment period, the contractor shall

C. Between the 15th day and the 20th day of the establishment period, the contractor shall reseed all spots or areas within the lawn where normal turf growth is not evident.

D. Fertilize all planting areas with the following - See soil notes

E. Mowing of turf will commence when the grass has reached a height of two inches. The height of cut will be 1 to 1-1/2 inches. Mowing will be at least weekly after the first cut. Turf must be well established and free of bare spots and weeds to the satisfaction of the Landscape Architect prior to final acceptance.

The contractors maintenance period will be extended if these provisions are not filled

ractor shall keep the premises free from accumulation of waste materials and debris. The contractor shall keep the premises free from accumulation of waste materials and deutis.

After all planting operations have been completed, the contractor shall remove all trash, exce soil, empty plant containers, tools, and equipment used in this work and/or any other debris. resulting from his work on the site. Any scars, ruts, or mars in the area caused by the landscape work shall be repaired at the contractors expense.

The contractor shall leave the site area broom clean and shall wash down all paved areas within the contract area leaving the premises in a clean condition.

GUARANTEE AND REPLACEMENT

A. All plant material installed under the contract shall be guaranteed against any and all poor A. All plant material installed under the contract shall be guaranteed against any and all poor, inadequate or inferior materials and for workmanship for a period of one year. Any plant found to be dead or in poor condition due to faulty materials or workmanship, as determined by the Landscape Architect, shall be replaced by the contractor at his expense.
S. Any materials found to be dead, or in poor condition during the establishment period shall be replaced immediately. The Landscape Architect shall be the sole judge as to the condition of material. Material to be replaced within the guarantee period shall be replaced by the contractor within 15 days of written notification by the Owner.
Replacement shall be made in the same manner as required for original plantings. Materials and labor involved in the replacing of material shall be supplied by the contractor at no additional cost to the Owner.

Normal progress inspection shall be requested from the Landscape Architect at least 72 hours in advance of an anticipated inspection. An inspection will be made by the Landscape Architect on each of the steps listed below. The contractor will not be permitted to initiate the succeeding steps of work until he has received written approval to proceed by the Owner.

A. Immediately prior to the commencement of the work on this section.

B. Completion of fine grading.

Completion of soil conditioning
 Prior to application of post-emergent weed killers
 Fre or post-delivery of all plant material.

F. Completion of major plant layout. G. Prior to hydroseeding or installation of sod.

N. Completion of maintenance.
 I. Completion of first 30 day maintenance period.
 Final Acceptance of the Project: Prior to the date of the final inspection, the contractor shall acquire from the Owner approved mylar prints, and finally record from the job record set all changes made during construction, label said prints As-Builts, and deliver to the Landscape Architect. Prior to the date of final inspection, the contractor shall deliver to the Landscape Architect by the Completion of the Completion

SOIL NOTES Soil Preparation - add 50 lbs. of Agricultural Gypsum 1,000 sq. ft.
 Backfill shall consist of the following:
 parts native on site soil, by volume

3 parts nitrolized shavings, by volume 16 lbs. Gro-power Plus per cubic yard of mix

3. Hydro-seeding - For already soil prepared areas, apply 280 lbs. Gro-power Hi-Nitrogen per For non-prepped soil areas, apply 1,000 lbs. Gro-power Plus and 300 lbs. Gro-power Controlled

4. Maintenance - Feed with 20 lbs. Gro-power Plus 1,000 sq. ft. on days 45 and 85 of

The above materials are for bid purposes only. The exact materials will be determined after the grading is completed, along with a soils test by the Landscape Contractor

AGRONOMIC SOIL REPORT

CONTRACTOR SHALL OBTAIN A AGRONOMIC SOIL REPORT PRIOR TO START OF CONSTRUCTION. THIS REPORT IS REQUIRED FOR PRE-INSTALLATION MEETING ALONG WITH ALL IT'S RECOMENDED MATERIAL BEING ON-SITE FOR INSPECTION PRIOR TO BEGINING

LLC CHAT 17454 CHATSWORTH GRANADA HILLS, CA 91

DATE: NOVEMBER 2017 SCAE: 1/8"=1"=0" JOB : 16-677

PLANTING SPECIFICATIONS

L-11



ELEVATION NORTH (CHATSWORTH ST.)

Granada Hills Specific Plan FOR DISTRIBUTION TO THE DRB

Case No .: TBD at filing appt.

Date: November 21, 2017

Sheet 25 of 27

Signature <u>Kop Malow 1900</u>

PROJECT 17454 CHATSWORTH ST, GRANADA HILLS, CA 91344

DRAWING TITLE

DATE: ASE 2017
SOLE: 1/8"-1"-0"
DATE: 4840 APPLOADE: 16.
A

A-7.1







17454 CHATSWORTH ST, GRANADA HILLS, CA 91344

DRAWING TITLE

A-7.2

ELEVATION WEST (ENCINO AVE.)

Granada Hills Specific Plan FOR DISTRIBUTION TO THE DRB

Case No.: TBD at filing appt.

Date: November 29, 2017

Sheet 76 of 77
Signature Affinator Bul