Exhibit L Conditions of Approval

City of Fresno Planning and Development Department

Conditions of Approval December 2, 2020

Conditional Use Permit Application No. P20-01643

Planner: Thomas Veatch

PROJECT DESCRIPTION

Conditional Use Permit Application No. P20-01643 proposes to develop (12) residential duplex buildings consisting of 23 residential units with a manager's office on a vacant 1.92 acre parcel located at 2056 S. Maple.

APN: 471-302-28 ADDRESS: 2056 S MAPLE AVE ZONING: RS-5 Residential Single-Family, Medium Density

PART A - ITEMS TO BE COMPLETED

The following items are required prior to plan check submittal:

Planner to check when completed

- Development shall take place in accordance with Plan Exhibits A, E, F, L-1 to L-13 dated 7-17-2020 and CP1 A dated 8/6/2020. Transfer all comments and conditions on Exhibits to the corrected exhibit(s) and submit to planner at least 15 days prior to plan check submittal.
- □ All exterior mechanical and electrical equipment shall be screened or incorporated into the design of buildings so as not to be visible from major streets, highways, passenger railways, or abutting Residential Districts. Please revise site plan to depict this requirement.
- □ Complete an address plan for the proposed units.
 - Revise site plan and elevations to depict compliance with open space requirement (15-1004-D) and Pedestrian Access requirement (15-1004-E).
- Revise site plan to show patio areas depicted on floor plan.
- Revise site plan to show any proposed fencing. Ensure fencing complies with Sec 15-2006.

PART B - OTHER AGENCY COMMENTS AND CONDITIONS

To be checked when completed where applicable

1.	Air Pollution Control District: See Attached District Comment letter dated 8/18/2020.			
2.	Airports: No Comment			
3.	Council District Committee: See attached CD5 PRC Voting Record for additional information dated 8/10/2020.			
4.	County PW and Planning: No Comment			
5.	DPU Planning and Engineering: Sewer See attached DPU conditions memo dated 8/7/2020.			

6.	DPU Water Division: Water See attached DPU conditions memo dated 8/7/2020.
7.	Fire Review: Approved as submitted. No appointment or initial required. Approval of this plan does not authorize or approve any omission or deviation from applicable adopted codes and adopted standards. Final approval is subject to field inspection. This project was reviewed by the Fire Department only for requirements related to water supply, fire hydrants, and fire apparatus access to the building(s) on site. Review for compliance with fire and life safety requirements for the building interior and its intended use are reviewed by both the Fire Department and the Building and Safety Section of DARM when a submittal for building plan review is made as required by the California Building Code by the architect or engineer of record
8.	for the building. Flood Control District: See attached FMFCD Notice of Requirements (NOR) dated 8/13/2020. NOR review and Grading plan review fees due. Drainage fees due.
9.	Fresno Area Express: No Comment
10.	 Fresno County Environmental Health: Recommended Conditions of Approval: Construction permits for the development should be subject to assurance that the City of Fresno community water system has the capacity and quality to serve this project. Concurrence should be obtained from the State Water Resources Control Board, Division of Drinking Water-Southern Branch. For more information call (559) 447-3300. Construction permits for development should be subject to assurance of sewer capacity of the Regional Wastewater Treatment Facility. Concurrence should be obtained from the California Regional Wastewater Treatment Facility. Concurrence should be obtained from the California Regional Waster Quality Control Board (RWQCB). For more information, contact staff at (559) 445-5116. The proposed construction project has the potential to expose nearby residents to elevated noise levels. Consideration should be given to the City's municipal code. As a measure to protect ground water, all water wells and/or septic systems that exist or have been abandoned within the project area should be properly destroyed by an appropriately licensed contractor. Should any underground storage tank(s) be found during the project, the applicant shall apply for and secure an Underground Storage Tank Removal Permit from the Fresno County Department of Public Health, Environmental Health Division. Contact the Fresno County Hazmat Compliance Program at (559) 600-3271 for more information.
11.	Police Review: Please consider combating crimes through the implementations of Crime Prevention through Environmental Design (CPTED) concept. Examples: Sufficient lightings helps deter crime and allows officers to properly evaluate the area of any potential criminal activities. Surveillance cameras should be installed at all entry/exit points, points of sales locations, locations where groups of people would congregate and parking lots. Surveillance systems should be digital HD format; hold a minimum of fourteen days (14) of recordings has the ability to play back and is downloadable.

12.	Public Works (CFD): No Comment
13.	Public Works ROW Landscaping: Please see redline comments under Documents File dated 7/22/2020.
14.	Public Works Traffic Planning: See the Public Works Traffic Planning conditions of approval and redlined CP1 exhibit dated 8/6/2020 For questions, contact Andreina Aguilar at andreina.aguilar@fresno.gov.
15.	School District: Fresno Unified School District See attached district comment letter dated 7/20/2020.

Operational Requirements

PART C - PLANNING - OTHER REQUIREMENTS

Development shall take place in accordance with the policies of the Fresno General plan, Roosevelt Community Plan, Specific Plan and with the Residential - Medium Density planned land use designation

- Development shall take place in accordance with the RS-5 Residential Single-Family, Medium Density z one district and all other applicable sections of the Fresno Municipal Code, specifically but not limited to section 15-906 (.Duplex and Multi-Unit Residential Standards).
- 3. Comply with the operational statement submitted for the proposed project dated 7/17/2020
- 5. Development shall comply with all prior special permits on the property and any applicable conditions of zoning.
- 6. Parking stalls and circulation shall comply with City of Fresno Parking Manual requirements.

PART D - MISCELLANEOUS AND GENERAL NOTES AND REQUIREMENTS

Not all notes and requirements listed below are applicable to all projects.

- 1. Approval of this special permit may become null and void in the event that development is not completed in accordance with all the conditions and requirements imposed on this special permit, the Zoning Ordinance, and all Public Works Standards and Specifications. This special permit is granted, and the conditions imposed, based upon the Operation Statement provided by the applicant. The Operation Statement is material to the issuance of this special permit. Unless the conditions of approval specifically require operation inconsistent with the Operation Statement, a new or revised special permit is required if the operation of this establishment changes or becomes inconsistent with the Operation Statement. Failure to operate in accordance with the conditions and requirements imposed may result in revocation of the special permit or any other enforcement remedy available under the law. The Planning and Development Department shall not assume responsibility for any deletions or omissions resulting from the special permit review process or for additions or alterations to construction plans not specifically submitted and reviewed and approved pursuant to this special permit or subsequent amendments or revisions.
- 2. Approval of this special permit shall be considered null and void in the event of failure by the applicant and/or the authorized representative, architect, engineer, or designer to disclose and delineate all facts and information relating to the subject property and the proposed development including, but not limited to, the following:

a) All existing and proposed improvements including but not limited to buildings and structures, signs and their uses, trees, walls, driveways, outdoor storage, and open land use areas on the subject property and all of the preceding which are located on adjoining property and may encroach on the subject property;

b) All public and private easements, rights-of-way and any actual or potential prescriptive easements or uses of the subject property; and,

c) Existing and proposed grade differentials between the subject property and adjoining property zoned or planned for residential use.

- 3. No land shall be used, and no structure shall be constructed, occupied, enlarged, altered, demolished, or moved in any zoning district, except in accordance with the provisions of this Code. Specific uses of land, buildings, and structures listed as prohibited in any zoning district are hereby declared to be detrimental to the public health, safety, and welfare.
- 4. Development shall take place in accordance with the Standards, Specifications, and Standard Drawings of the City of Fresno Public Works Department; <u>Click Here</u>
- 5. Development shall take place in accordance with all city, county, state and federal laws and regulations.
- 6. Owners and persons having ownership interest in businesses operating in the City of Fresno (including leasing out any commercial or industrial property, or renting out four or more dwelling units) are required by the Fresno Municipal Code to obtain a Business Tax Certificate. Contact the City of Fresno Finance Department's Business Tax Division at (559) 621-6880 for more information. Information and an application form is available at the following website: <u>Click Here</u>
- 7. All proposed building(s) or structure(s) constructed on the property must comply with the prevailing California Building Code Standards.
- 8. Any building modifications and/or additions not included with this application are not approved with this special permit and would be subject to a new special permit.
- 9. A permit granted under the Fresno Municipal Code shall automatically expire if it is not exercised or extended within three years of its issuance. Refer to section 15-5013, Expiration of Planning Entitlements, for more information about the exercise of rights.

FENCES/WALLS, LANDSCAPING, PARKING

- 10. Nothing in the Development Code shall be deemed to prohibit the erection of temporary fencing around construction sites in compliance with the Building Code and other applicable provisions of the Fresno Municipal Code.
- 11. Future fences shall be reviewed and approved by the Planning and Development Department prior to installation.
- 12. Fences, hedges, and walls shall be maintained in good repair, including painting, if required, and shall be kept free of litter or advertising. Where hedges are used as screening, trimming or pruning shall be employed as necessary to maintain the maximum allowed height. Fences shall be maintained and shall stand upright and shall not lean.
- 13. All planting and other landscape elements shall be permanently maintained in good growing condition. Such maintenance shall include, where appropriate, pruning, mowing, weeding, cleaning, fertilizing, and regular watering. Wherever necessary, plantings shall be replaced with other plant materials to insure continued compliance with applicable landscaping requirements. Yards shall be maintained free of refuse, debris, rubbish, or other accumulated matter and/or materials, and shall be maintained clean. Grass shall not exceed six inches in height.
- 14. New landscaping shall have an automatic irrigation system designed to provide adequate and efficient coverage of all plant material. Irrigation systems shall comply with the requirements of the

California Green Building Standards Code and/or the California Model Water Efficient Landscape Ordinance and/or the California Plumbing Code as may be amended.

- 15. Trees shall be maintained by property owners to be free from physical damage or injury arising from lack of water, chemical damage, accidents, vandalism, insects, and disease. Any tree showing such damage shall be replaced with another tree.
- 16. No tree for which a Tree Removal Permit is required shall be removed until all conditions of the permit have been satisfied and the decision has become final. In addition, tree(s) approved for removal in conjunction with a development application shall not be removed before the issuance of a Building Permit or unless all of the conditions of approval of the development applications are satisfied.
- 17. The review authority shall issue a Tree Removal Permit if any of the following general criteria is met:

a) The tree(s) is irreparably diseased or presents a danger of falling that cannot be controlled or remedied through reasonable preservation and/or preventative procedures and practices so that the public health or safety requires its removal.

b) The tree(s) can potentially cause substantial damage to existing or proposed main structure(s) (e.g. dwellings, other main structures, or public infrastructure) or interfere with utility services and cannot be controlled or remedied through reasonable relocation or modification of the structure or utility services.

c) The retention of the tree(s) restricts the economic enjoyment of the property or creates an unusual hardship for the property owner by severely limiting the use of the property in a manner not typically experienced by owners of similarly zoned and situated properties, and the applicant has demonstrated to the satisfaction of the Review Authority that there are no reasonable alternatives to preserve the tree(s).

- 18. Landscaping must be in place before issuance of the certificate of occupancy. A Hold on Occupancy shall be placed on the proposed development until such time that landscaping has been approved and verified for proper installation by the Current Planning Division. (Include this note on the landscape plan.)
- 19. Future tenant improvements shall be reviewed and approved by the Planning and Development Department to ensure that adequate off-street parking is provided.
- 20. Trees required for parking lots are in addition to trees required elsewhere on the site as prescribed in other sections of the Fresno Municipal Code.
- 21. Parking lots, including landscaped areas, driveways, and loading areas, shall be maintained free of refuse, debris, or other accumulated matter and shall be kept in good repair at all times.
- 22. A minimum number of accessible parking stalls are required for the proposed project per State of California Building Code.
- 23. All accessible stalls shall be marked with the international symbol of spaces and a warning that vehicles in violation of Section 10-1017 of the Fresno Municipal Code shall be towed away. The international symbol and tow-away warning shall be posted conspicuously on seven-foot poles. (Include this note on the site plan.)
- 24. Applicants are encouraged to provide shared vehicle and pedestrian access between adjacent properties for convenience, safety, and efficient circulation. A joint access covenant shall be required. (Include this note on the site plan.)
- 25. All general standards of Section 15-2015 of the Fresno Municipal Code shall apply when lighting is provided to illuminate parking, sales or display areas. **Depict all proposed lights on the site plan.**
- 26. Bicycle parking spaces shall be supplied according to Table 15-2429-D: Required On-Site Bicycle Parking Spaces of the Fresno Municipal Code. Each bicycle parking space shall be a minimum of 30 inches in width and eight feet in length and shall be accessible without moving another bicycle.

At least 30 inches of clearance shall be provided between bicycle parking spaces and adjacent walls, poles, landscaping, street furniture, drive aisles, and pedestrian ways and at least five feet from vehicle parking spaces to allow for the maneuvering of bikes. Overhead clearance shall be a minimum of seven feet. A minimum five foot aisle between each row of bicycle parking shall be provided for bicycle maneuvering beside or between each row, when multiple rows are proposed. Bicycle parking spaces shall not encroach into pedestrian ways, landscaped areas, or other required open spaces, and shall be located proximal to structures.

- 27. All general provisions of Section 15-2403 of the Fresno Municipal Code shall apply to all parking areas.
- 28. The parking lot is required to meet the <u>City of Fresno's Parking Manual, Public Works Standards (P-21, P-22, and P-23) and Specifications</u>. Parking must also comply with the California Building Code's accessibility requirements and the Fire and Solid Waste Department's minimum turning templates. Contact the Planning and Development Department for Parking Manual questions.

<u>SIGNAGE</u>

- 29. All future signs shall be architecturally compatible with the proposed building(s). Provide a set of drawings, with descriptive information, including, materials, design and colors to allow for a preliminary assessment of the future signage. It is recommended that you provide a copy of the signage early in the project process to allow for staff comment.
- 30. Signs, <u>other than directional signs, if applicable</u>, are not approved for installation as part of this special permit. **(Include this note on the site plan.)**
- 31. All proposed signs shall conform to the current sign ordinance. The submittal checklist for signs is available online at: <u>Click Here</u>
- 32. Window signs limited to the hours of operation, address, occupancy, and emergency information, subject to the following standards:

a) Operational windows signs shall not be mounted or placed on windows higher than the second story.

b) The maximum area of exempt window signage shall not exceed three square feet in area.

- 33. Banners, streamers, moving signs, and inflatables (including air dancers, balloons, and similar objects) are allowed subject to Temporary Use Permit approval for establishments within Non-Residential Districts. Signs of this type do not count toward total maximum sign area. No sign per this section shall be displayed for more than 30 days, and a period of 30 must lapse before displaying another sign. Signs shall not be displayed for more than 60 total days during a calendar year.
- 34. Every sign displayed within the city, including exempt signs, shall be maintained in good physical condition and shall comply with adopted regulations. All defective or broken parts shall be replaced. Exposed surfaces shall be kept clean, in good repair, and painted where paint is required.

MISCELLANEOUS

- 35. Noise levels shall not exceed the decibel levels described in Section 15-2506 of the Fresno Municipal Code at any time, measured at the nearest subject property line.
- 36. No vibration shall be produced that is transmitted through the ground and is discernible without the aid of instruments by a reasonable person at the lot lines of the site. Vibrations from temporary construction, demolition, and vehicles that enter and leave the subject parcel (e.g., construction equipment, trains, trucks, etc.) are exempt from this standard.
- 37. Lights shall be placed to deflect light away from adjacent properties and public streets, and to prevent adverse interference with the normal operation or enjoyment of surrounding properties.

Direct or sky-reflected glare from floodlights shall not be directed into any other property or street. Except for public street lights and stadium lights, no light, combination of lights, or activity shall cast light onto a residentially zoned property, or any property containing residential uses, exceeding onehalf foot-candle.

- 38. No use shall be operated such that significant, direct glare, incidental to the operation of the use is visible beyond the boundaries of the lot where the use is located. Windows shall not cause glare that may disrupt adjoining properties, traffic on adjacent streets, etc. Glare or heat reflected from building materials shall be mitigated so as to not disrupt surrounding properties.
- 39. The address listed in the conditions of approval is the 'Official Address' given to the building. If you would like separate suite or unit numbers for a building, provide a floor plan and contact the City of Fresno Planning and Development Department for 'Official Addresses'. Only those addresses assigned by the City of Fresno will be recognized as 'Official Addresses'. The United States Post Office will only recognize addresses assigned by the City of Fresno. If a non-official address is given to a building and or/separate suites, the City of Fresno has the authority to charge a fee and have those addresses corrected. In addition, the United States Post Office will cease mail delivery to those addresses that are not 'Official Addresses'.
- 40. All projects, including projects that involve less than one acre of property, are required to comply with the City of Fresno's Urban Storm Water Quality Management and Discharge Control Ordinance, Fresno Municipal Code Chapter 6, Article 7 (Sections 6-701 *et seq.*)

When a project involves one acre or more of construction activity (including, but not limited to, grading) the developer is required to obtain a stormwater discharge permit for construction, with a Notice of Intent (NOI) filed **prior to** commencement of any grading construction activity. Contact the Fresno office of the California Regional Water Quality Control Board at (559) 445-6281 regarding the required NOI and stormwater discharge permit. Additional information on California's construction stormwater regulation may be obtained from the Water Board via the internet:

www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml

Helpful information for preparing and implementing stormwater pollution prevention plans may also be obtained from the California Stormwater Quality Association via its website, <u>www.casqa.org</u>

When a project involves specified nonresidential activities (certain commercial and industrial activities), an ongoing industrial stormwater discharge permit is also required. Contact the Fresno office of the California Regional Water Quality Control Board at (559) 445-6281 to find out whether your project/business requires an industrial stormwater discharge permit, and to obtain details on securing this permit. Additional information on industrial stormwater regulations may be obtained from the following website:

www.waterboards.ca.gov/water_issues/programs/stormwater/industrial.shtml,

The California Stormwater Quality Association has additional information on preparing stormwater pollution prevention plans for industrial activities (<u>www.casqa.org</u>).

- 41. Screen all roof-mounted equipment from the view of public rights-of-way. **Depict all mechanical** equipment on site plan and elevations.
- 42. If archaeological and/or animal fossil material is encountered during project surveying, grading, excavating, or construction, work shall stop immediately. **(Include this note on the site plan.)**
- 43. If there are suspected human remains, the Fresno County Coroner shall be immediately contacted. If the remains or other archaeological material is possibly Native American in origin, the Native American Heritage Commission (Phone: (916) 653-4082) shall be immediately contacted, and the California Archaeological Inventory/Southern San Joaquin Valley Information Center (Phone: (805) 644-2289) shall be contacted to obtain a referral list of recognized archaeologists. An archeological

assessment shall be conducted for the project, the site shall be formally recorded, and recommendations made to the City as to any further site investigation or site avoidance/preservation. **(Include this note on the site plan.)**

- 44. If animal fossils are uncovered, the Museum of Paleontology, U.C. Berkeley shall be contacted to obtain a referral list of recognized paleontologists. An assessment shall be conducted by a paleontologist and, if the paleontologist determines the material to be significant, it shall be preserved. **(Include this note on the site plan.)**
- 45. Connection to a municipal water system is required unless approved measures are included in the project conditions of approval for an alternative water supply.
- 46. Connection to a municipal City of Fresno sewer system is required unless approved measures are included in the project conditions for alternative wastewater treatment facilities.
- 47. City of Fresno water and sewer connection charge obligations applicable to this project will be computed during the building construction plan check process and shall be payable at time of issuance of building permit unless other arrangements have been approved to defer such payments to a later date. For information relating to water and sewer service requirements and connection charges, contact Frank Saburit at (559) 621-8797.
- 48. Open street cuts are not permitted; all utility connections must be bored.
- 49. CROSS-CONNECTION CONTROL. A backflow prevention device may be required on the water service. Contact the Department of Public Utilities, Water Division (559) 621-5300 for requirements relating to approved devices, locations, testing and acceptance. This requirement must be satisfied prior to final occupancy.
- 50. This project was reviewed by the Fire Department <u>only</u> for requirements related to water supply, fire hydrants, and fire apparatus access to the building(s) on site. Review for compliance with fire and life safety requirements for the building interior and its intended use are reviewed by both the Fire Department and the Building and Safety Section of the Planning and Development when a submittal for building plan review is made as required by the California Building Code by the architect or engineer of record for the building.
- 51. Open storage (outside an enclosed building) shall be limited to vehicles, boats, recreational vehicles, and trailers. Outdoor storages areas shall be screened from public view by building façades or solid fences. At the discretion of the Review Authority, the treatment of the ground surface of the open storage area may be gravel or other materials as prescribed by the San Joaquin Valley Air Pollution Control District, the Public Works Department, the Fire Department, and the Fresno Metropolitan Flood Control District. All open storage must be depicted on the site plan and described in operational statement. If it is not, it is not allowed on the site.
- 52. If video surveillance cameras are required or installed, provide signs under the surveillance cameras which notify the public that the subject property is monitored by video surveillance.

FEES

(Not all fees will be applicable to all projects. Please reach out to Frank Saburit at (559) 621-8797 for fee questions.)

53. <u>NOTICE TO PROJECT APPLICANT</u>: In accordance with the provisions of Government Code Section 66020(d)(1), the imposition of fees, dedication, reservations or exactions for this project are subject to protest by the project applicant at the time of approval or conditional approval of the development or within 90 days after the date of imposition of fees, dedications, reservation, or exactions imposed on the development project. This notice does not apply to those fees, dedications, reservations, or exactions which were previously imposed and duly noticed; or, where no notice was previously required under the provisions of Government Code Section 66020(d)(1) in effect before January 1, 1997.

54. CITYWIDE DEVELOPMENT IMPACT FEES

a) Traffic Signal Charge (Fresno Municipal Code Section 12-4.1101 to 12-4.1103) This project shall pay its Traffic Signal Mitigation Impact Fee at the time of building permit based on the trip generation rate(s) as set forth in the latest Master Fee Schedule. Refer to the adopted Master Fee Schedule for fee rate. This fee shall be paid at time of building permit.

b) Fire Facilities Fee (Fresno Municipal Code Section 12-4.901 to 12-4.906) (based on building square footage, or residential units)

c) Police Facilities Fee (Fresno Municipal Code Section 12-4.801 to 12-4.806) (based on building square footage, or residential units)

d) Parks Facilities Fee (Fresno Municipal Code Section 12-4.701 to 12-4.706) (based on the number of residential units)

55. CITYWIDE REGIONAL AND NEW GROWTH MAJOR STREET IMPACT FEES (Fresno Municipal Code Section 12-4.1006)

a) Street Impact Fees shall be due and payable at the time of building permit issuance unless otherwise required by State law.

b) Street Impact Fees will be a condition on all development entitlements granted.

56. FRESNO COUNTY FACILITY IMPACT FEE

Fresno County adopted a Facilities Impact Fee, but the requirement to pay this fee was subsequently suspended by Fresno County. If the fee has been reinstated at the time of issuance of building permits for this project, or an alternative fee system has been adopted by Fresno County, proof of payment or payment of this fee will be required for issuance of building permits.

57. REGIONAL TRANSPORTATION MITIGATION FEE (RTMF)

Pay the RTMF fee to the Joint Powers Agency located at 2035 Tulare Street, Suite 201, Fresno, CA 93721; (559) 233-4148, ext. 200; <u>www.fresnocog.org</u>. Provide proof of payment or exemption prior to issuance of certificate of occupancy.

58. SCHOOL FEES

School fees must be paid, if required, prior to the issuance of building permits. Contact the applicable school district to obtain fee amount. Provide proof of payment (or no fee required) prior to the issuance of building permits.

59. FRESNO METROPOLITAN FLOOD CONTROL DISTRICT (FMFCD) FEES

a) A FMFCD Development Fee is required for review of proposed development projects, including applications for plan amendments, rezones, special permits, subdivisions, and grading plans. This fee is based on project acreage and must be paid directly to FMFCD in order for that agency to review projects and provide a Notice of Requirements. For more information, contact the FMFCD at (559) 456-3292.

b) FMFCD drainage fees are due, if required, prior to issuance of building permits and are payable at the rate in place at the time of building permit issuance. Unpaid drainage fee obligations that were unpaid for a prior project at the site of a new project must be satisfied by the developer of the new project. Drainage fees may be paid at the Planning and Development Department prior to, or at the time of building permit issuance. They may also be paid directly to FMFCD, and proof of payment provided to the City, in order to obtain construction permits.

- 60. SEWER CONNECTION CHARGES (Fresno Municipal Code Section 6-304(a)). The following sewer connection charges may be required and will be payable at the fee rate listed in the Master Fee Schedule at the time payment is due. New sewer connection charges adopted by the Council prior to the issuance of building permits may also be applied.
 - a) Lateral Sewer Charge (based on property frontage to a depth of 100')
 - b) Oversize Sewer Charge (based on property frontage to a depth of 100')

- c) Wastewater Facilities Charge
- d) Trunk Sewer Charge

Effective January 9, 1999, Ordinance No. 98-97 also amended certain sewer connection charges. Fresno Municipal Code Article 15, Section 12 provides property owners the incentives and deletes certain sewer connection charges pursuant to the Simple Tiered Equity Program (STEP) and the Employment Development Program (EDP). For additional information on the STEP and EDP, contact the Department of Public Utilities, Administration Division at (559) 621-8600.

- 61. WATER CONNECTION CHARGES: (Fresno Municipal Code Sections 6-507 to 6-513). The following water connection charges may be required and will be payable at the fee rate listed in the Master Fee Schedule at the time payment is due. New water connection charges adopted by the Council **prior to** issuance of building permits may also be applied.
 - a) Frontage Charge (based on property frontage)
 - b) Service Charges (based on service size required by applicant)
 - c) Meter Charges (based on service need)
 - d) Water Capacity fee (based on size of meter)
- 62. Deferment of the payment of Citywide development impact fees for Fire, Police, Parks, Streets, and Traffic Signals is available for projects located within the Downtown Priority Areas in accordance with the provisions of City of Fresno Resolutions Nos. 2009-265 and 2010-19.

PUBLIC WORKS DEPARTMENT GENERAL NOTES (to be added to the site plan)

- 63. Any survey monuments within the area of construction shall be preserved or reset by a person licensed to practice land surveying in the State of California.
- 64. Repair all damaged and/or off-grade concrete street improvements as determined by the Construction Management Engineer, prior to occupancy.
- 65. Two working days before commencing excavation operations within the street right-of-way and/or utility easements, all existing under-ground facilities shall have been located by underground services.
- 66. The performance of any work within the public street right-of-way requires a street work permit prior to commencement of work. All required street improvements must be completed and accepted by the City prior to occupancy.
- 67. Contact the Public Works Department, Traffic Engineering at (559) 621-8800, 10 working days prior to any offsite concrete construction.
- 68. For Standard Drawings Click Here
- 69. For Traffic Planning's website with useful links, additional notes, sample of legend, Parking Manual and Traffic Study Checklist <u>Click Here</u>.
- 70. Traffic Planning Checklist <u>Click Here</u>.
- 71. For Traffic Study questions please contact Jill Gormley at (559) 621-8792 or via email at <u>Jill.Gormley@fresno.gov</u>.

FRESNO METROPOLITAN FLOOD CONTROL DISTRICT NOTICE OF REQUIREMENTS

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PUBLIC AGENCY

THOMAS VEATCH DEVELOPMENT SERVICES/PLANNING CITY OF FRESNO 2600 FRESNO STREET, THIRD FLOOR FRESNO, CA 93721-3604

PROJECT NO: 2020-01643

DEVELOPER

TOMMY PHELEN, MAPLE LUXURY LIVING LLC 1004 RENO AVE. MODESTO, CA 95351

ADDRESS:	2056 S. MAPLE AVE.			
APN:	471-302-28			SENT: August 13, 2020
Drainage Area(s)	Preliminary Fee(s)	Development Review Service Charge(s)	Fee(s)	
GG	\$9,404.00	NOR Review	\$72.00	To be paid prior to release of District comments to Public Agency and Developer.
		Grading Plan Review	\$367.00	Amount to be submitted with first grading plan submittal.
	Total Drainage Fee: \$9,404.00	Total Service Charge:	\$439.00	

The proposed development will generate storm runoff which produces potentially significant environmental impacts and which must be properly discharged and mitigated pursuant to the California Environmental Quality Act and the National Environmental Policy Act. The District in cooperation with the City and County has developed and adopted the Storm Drainage and Flood Control Master Plan. Compliance with and implementation of this Master Plan by this development project will satisfy the drainage related CEOA/NEPA impact of the project mitigation requirements.

Pursuant to the District's Development Review Fee Policy, the subject project shall pay review fees for issuance of this Notice of Requirements (NOR) and any plan submittals requiring the District's reviews. The NOR fee shall be paid to the District by Developer before the Notice of Requirement will be submitted to the City. The Grading Plan fee shall be paid upon first submittal. The Storm Drain Plan fee shall be paid prior to return/pick up of first submittal.

The proposed development shall pay drainage fees pursuant to the Drainage Fee Ordinance prior to issuance of a building permit at the rates in effect at the time of such issuance. The fee indicated above is valid through 2/28/21 based on the site plan submitted to the District on 7/17/20 Contact FMFCD for a revised fee in cases where changes are made in the proposed site plan which materially alter the proposed impervious area.

Considerations which may affect the fee obligation(s) or the timing or form of fee payment:

Fees related to undeveloped or phased portions of the project may be deferrable. a.)

Fees may be calculated based on the actual percentage of runoff if different than that typical for the zone district under b.) which the development is being undertaken and if permanent provisions are made to assure that the site remains in that configuration.

- Master Plan storm drainage facilities may be constructed, or required to be constructed in lieu of paying fees. c.)
- The actual cost incurred in constructing Master Plan drainage system facilities is credited against the drainage fee d.) obligation.
- When the actual costs incurred in constructing Master Plan facilities exceeds the drainage fee obligation, e.) reimbursement will be made for the excess costs from future fees collected by the District from other development.
- Any request for a drainage fee refund requires the entitlement cancellation and a written request addressed to the
- General Manager of the District within 60 days from payment of the fee. A non refundable \$300 Administration fee or f.) 5% of the refund whichever is less will be retained without fee credit.

FRESNO METROPOLITAN FLOOD CONTROL DISTRICT NOTICE OF REQUIREMENTS

Page 2 of 3

Approval of this development shall be conditioned upon compliance with these District Requirements.

- 1. <u>X</u> a. Drainage from the site shall BE DIRECTED TO MAPLE AVENUE.
 - **b.** Grading and drainage patterns shall be as identified on Exhibit No.
 - **... c.** The grading and drainage patterns shown on the site plan conform to the adopted Storm Drainage and Flood Control Master Plan.
- 2. The proposed development shall construct and/or dedicate Storm Drainage and Flood Control Master Plan facilities located within the development or necessitated by any off-site improvements required by the approving agency:
 - ____ Developer shall construct facilities as shown on Exhibit No. 1 as
 - <u>X</u> None required.
- **3.** The following final improvement plans and information shall be submitted to the District for review prior to final development approval:
 - X Grading Plan
 - _____ Street Plan
 - _____ Storm Drain Plan
 - _____ Water & Sewer Plan
 - ____ Final Map
 - ____ Drainage Report (to be submitted with tentative map)
 - ____ Other
 - ____ None Required
- **4.** Availability of drainage facilities:
 - **a.** Permanent drainage service is available provided the developer can verify to the satisfaction of the City that runoff can be safely conveyed to the Master Plan inlet(s).
 - **b.** The construction of facilities required by Paragraph No. 2 hereof will provide permanent drainage service.
 - X c. Permanent drainage service will not be available. The District recommends temporary facilities until permanent service is available.
 - **d.** See Exhibit No. 2.
- **5.** The proposed development:
 - Appears to be located within a 100 year flood prone area as designated on the latest Flood Insurance Rate Maps available to the District, necessitating appropriate floodplain management action. (See attached Floodplain Policy.)
 - **X** Does not appear to be located within a flood prone area.
- 6. _____ The subject site contains a portion of a canal or pipeline that is used to manage recharge, storm water, and/or flood flows. The existing capacity must be preserved as part of site development. Additionally, site development may not interfere with the ability to operate and maintain the canal or pipeline.

FRESNO METROPOLITAN FLOOD CONTROL DISTRICT NOTICE OF REQUIREMENTS

Page 3 of 3

- The Federal Clean Water Act and the State General Permits for Storm Water Discharges Associated with Construction and Industrial Activities (State General Permits) require developers of construction projects disturbing one or more acres, and discharges associated with industrial activity not otherwise exempt from National Pollutant Discharge Elimination System (NPDES) permitting, to implement controls to reduce pollutants, prohibit the discharge of waters other than storm water to the municipal storm drain system, and meet water quality standards. These requirements apply both to pollutants generated during construction, and to those which may be generated by operations at the development after construction.
 - **a.** State General Permit for Storm Water Discharges Associated with Construction Activities, effective July 1, 2010, as amended. A State General Construction Permit is required for all clearing, grading, and disturbances to the ground that result in soil disturbance of at least one acre (or less than one acre) if part of a larger common plan of development or sale). Permittees are required to: submit a Notice of Intent and Permit Registration Documents to be covered and must pay a permit fee to the State Water Resources Control Board (State Board), develop and implement a storm water pollution prevention plan, eliminate non-storm water discharges, conduct routine site inspections, train employees in permit compliance, and complete an annual certification of compliance.
 - **b.** State General Permit for Storm Water Discharges Associated with Industrial Activities, April, 2014 (available at the District Office). A State General Industrial Permit is required for specific types of industries described in the NPDES regulations or by Standard Industrial Classification (SIC) code. The following categories of industries are generally required to secure an industrial permit: manufacturing; trucking; recycling; and waste and hazardous waste management. Specific exemptions exist for manufacturing activities which occur entirely indoors. Permittees are required to: submit a Notice of Intent to be covered and must pay a permit fee to the State Water Resources Control Board, develop and implement a storm water pollution prevention plan, eliminate non-storm water discharges, conduct routine site inspections, train employees in permit compliance, sample storm water runoff and test it for pollutant indicators, and annually submit a report to the State Board.
 - c. The proposed development is encouraged to select and implement storm water quality controls recommended in the Fresno-Clovis Storm Water Quality Management Construction and Post-Construction Guidelines (available at the District Office) to meet the requirements of the State General Permits, eliminate the potential for non-storm water to enter the municipal storm drain system, and where possible minimize contact with materials which may contaminate storm water runoff.
- **8.** A requirement of the District may be appealed by filing a written notice of appeal with the Secretary of the District within ten days of the date of this Notice of Requirements.
- 9. The District reserves the right to modify, reduce or add to these requirements, or revise fees, as necessary to accommodate changes made in the proposed development by the developer or requirements made by other agencies.
- 10.

7.

X See Exhibit No. 2 for additional comments, recommendations and requirements.

Digitally signed by Debbie Campbell Date: 8/13/2020 8:59:18 AM

lettri Campbell

Debbie Campbell Design Engineer, RCE Al GOm

Digitally signed by Rick Lyons Date: 8/6/2020 1:31:40 PM

Rick Lyons Engineering Tech III

CC:

JERRY HOWELL, GATEWAY ENGINEERING

405 PARK CREEK DR.

CLOVIS, CA 93611

OTHER REQUIREMENTS EXHIBIT NO. 2

In an effort to improve storm runoff quality, outdoor storage areas shall be constructed and maintained such that material that may generate contaminants will be prevented from contact with rainfall and runoff and thereby prevent the conveyance of contaminants in runoff into the storm drain system.

The District encourages, but does not require that roof drains from non-residential development be constructed such that they are directed onto and through a landscaped grassy swale area to filter out pollutants from roof runoff.



COUNCIL DISTRICT 5 PROJECT REVIEW COMMITTEE PROJECT REVIEW August 10, 2020 Project Record

ITEM 4B Conditional Use Permit No. P20-01643

PROJECT INFORMATION

Conditional Use Permit No. P20-01643 was filed by Tommy Phelen of Maple Luxury Living LLC and pertains to the 1.92 acres located at 2056 S. Maple. The applicant proposes to develop (12) residential duplex buildings consisting of 23 residential units with a manager's office. The parcel is zoned RS-5. DRC Application: P20-01253.

COMMITTEE RECOMMENDATION

APPROVE APPROVE WITH CONDITION(S) DENY NO ACTION						
	Rabara (Chair)	Kiran	Hansen- Smith	Singh		
Approve	Х		Х	Х		
Deny						
Abstain						
Absent		Х				

COMMITTEE CONDITIONS / COMMENTS

The applicant presented the proposed project.

Committee members inquired about the amount of parking that each unit would have.

The applicant explained that each unit would have a two-car garage and a separate guest parking spot adjacent to the unit.

Committee members inquired as to what made the proposed project "luxury".

The applicant explained that the building finishes and square footage made the apartments "luxury" apartments.

Committee member Singh requested that speed bumps be incorporated within the complex to enhance safety.

The applicant stated that they would not be opposed to adding speed bumps to the project.

Committee member Singh moved and committee member Rabara seconded the motion to approve Conditional Use Permit No. P20-01643 with the condition that speed bumps be added to the site to enhance safety. The motion carried three votes to zero.

Staff Facilitator: _ Marisela Martinez_____

Date: 8/10/2020

Marisela Martínez, Planner I



- **SUBJECT:** Conditions of Approval for **P20-01643**
- **DATE:** August 6, 2020
- **TO:**Thomas Veatch, Planner IIPlanning and Development Department
- **FROM:** Andreina Aguilar, Engineer II Public Works Department, Traffic Planning Section

ADDRESS: 2056 South Maple Avenue

APN: 471-302-28

ATTENTION: The items below require a separate process with additional fees and timelines, in addition to the development permit process. Submit the following items early to avoid delaying approval of building permits. Final approval of the site plan is contingent on receipt of all items checked below. Total addition Total approval of building permits. Final approval of the site plan is contingent on receipt of all items checked below.

To be completed:	Point of Contact	Department and Contact Information
Deeds (up to 2 month processing time)		
Deeds are required to provide easements to the City for required public improvements. They shall be prepared by the owner / developer's engineer. Contact Jeff Beck for fees and processing requirements. Provide a copy of the recorded dedications to Traffic Planning prior to the issuance of building permits.	Jeff Beck	Public Works Department (559) 621-8560 <u>Jeff.Beck@fresno.gov</u>

ATTENTION:						
Prior to resubmitting the corrected exhibit, provide the following information and						
	conditions of approval on the site plan:					
A. GEN	A. GENERAL REQUIREMENTS					
□ 1.	Easements: Identify and dimension the required pedestrian easement.					
2.	Required Notes: Revise General Notes to include the required Public Works					
	Department notes.					
	Any survey monuments within the area of construction shall be preserved or reset by a person licensed to practice land surveying in the State of California.					
	Repair all damaged and/or off-grade concrete street improvements as					
	determined by the Construction Management Engineer, prior to occupancy.					
	Two working days before commencing excavation operations within the					
	street right-of-way and/or utility easements, all existing under-ground					
	facilities shall have been located by underground services.					
	street work permit prior to commencement of work. All required street					
	improvements must be completed and accepted by the City prior to					
	occupancy.					
	Deeds are required to provide easements to the city for required public improvements. They shall be prepared by the owner / developer's engineer.					
	Executed copies shall be submitted to the city with verification of ownership prior to the issuance of building permits.					
	All existing driveway approaches which no longer provide access to					
	approved vehicle parking areas shall be removed unless otherwise approved by the City Engineer. Such areas shall be reconstructed with curb, gutter and sidewalk to match existing adjacent street improvements. This works					
	shall be completed and accepted <u>before</u> a Permit of Occupancy is issued or the building is occupied per FMC 13-211.					
	Underground all existing off-site overhead utilities within the limits of this					
	application as per Fresno Municipal Code Section 15-2017 and Public Works Policy No. 260.01.					
	Submit street construction plans to the Public Works Department.					
	Provide and maintain a 4' minimum path of travel along the public sidewalk					
	directly in front of property, to meet current accessibility regulations. A pedestrian easement may be required if requirements are not met.					
	Contact the Public Works Department, Traffic Engineering at 559-621-8800,					
	10 working days prior to any offsite concrete construction.					
	All existing sidewalks in excess of 2% maximum cross slope must be brought					
	into compliance prior to acceptance by Public Works.					
B. <u>OFF</u>	B. OFFSITE INFORMATION:					
<u> </u>	Section Line: Identify the section line.					
2 .	Dedications: Identify and dimension pedestrian dedication.					

3.	Public Street Improvements:						
	a. Sidewalk drains: Identify the sidewalk drain locations; not to be within						
	3' from the drive approach wings.						
	b. Drive approach: The proposed drive approach needs to be wider per						
	City standards with 5' wings. The wider drive approach may affect the						
	location of the units nearest to the street.						
	c. Street-type approaches: The proposed street type approach is not						
	permitted; revise to meet City of Fresno Standards P-2 and P-6.						
4.	Accessibility: Identify and dimension the required 4' minimum path of travel						
	along the public sidewalk adjacent to the property. Provide pinch point						
	dimensions. A pedestrian easement may be required if Title 24 requirements						
	cannot be met.						
C. <u>ONS</u>	C. ONSITE INFORMATION:						
☐ 1.	State standard "STOP": Identify and install a 30" state standard "STOP" sign						
	at the location shown. Signs shall be mounted on a 2" galvanized post with the						
	bottom of the lowest sign 7 ' above ground, located behind curb and						
	immediately behind a major street sidewalk.						
2.	Parking lot paving: Paving shall be per Public Works Standards P-21, P-22,						
	and P-23.						

PUBLIC IMPROVEMENT REQUIREMENTS

The following requirements are based on city records and the accuracy of the existing and proposed on-site and off-site conditions depicted on the exhibits submitted. Requirements not addressed due to omission or misrepresentation of information, on which this review process is dependent, will be imposed whenever such conditions are disclosed. Construct additional offsite improvements, including but not limited to, concrete curb, gutter, sidewalk, approaches, ramps, pavement, utility relocations, etc. in accordance with *City of Fresno's Public Works Standards, Specifications* and the approved street plans.

Repair all damaged and/or off grade off-site concrete street improvements as determined by the City of Fresno Public Works Department, Construction Management Division, (559) 621-5600. Pedestrian paths of travel must also meet current accessibility regulations.

All existing sidewalks and trails in excess of 2% maximum cross slope must be brought into compliance **prior** to acceptance by Public Works.

The construction of any overhead, surface or sub-surface structures and appurtenances in the public right of way is prohibited unless an **Encroachment Covenant** is approved by the City of Fresno Public Works Department, Traffic and Engineering Services Division, (559) 621-8693. **Encroachment Covenant** must be approved <u>prior</u> to issuance of building permits.

Maple Avenue: Collector

(Provide the following as notes on the site plan.)

- 1. Dedication Requirements:
 - a. Dedicate **4'** of property for pedestrian purposes behind the driveway approach.
- 2. Construction Requirements:
 - a. Remove existing driveway approaches not identified for utilization as noted on Exhibit "A", and install sidewalk, curb, gutter and paving per City of Fresno Public Works Standard Drawings P-5 and P-48 to match existing or proposed street improvement line and grade per Fresno Municipal Code (FMC) 13-211.
 - b. Construct a 30' to 35' drive approach to Public Works Standards P-2 and P-6, as approved on the site plan. Construct permanent paving as needed per Public Works Standard P-48. Construct a concrete pedestrian walkway behind all driveway approaches as identified on Exhibit "A".
 - c. Provide a **12**' visibility triangle at all driveways, per Fresno Municipal Code (FMC) 15-2018B.

Street Construction Plans are required and shall be approved by the City Engineer. All improvements shall be constructed in accordance with the *City of Fresno, Public Works Department Standard Drawings and Specifications*. The performance of any work within the public street right of way (including pedestrian and utility easements) requires a **STREET WORK PERMIT** <u>prior</u> to commencement of work. When preparing Street Plans and/or Traffic Control Plans, contact Harmanjit Dhaliwal at (559) 621-8694, **10 working days** in advance, to make sure that sidewalks or an approved accessible path remain open during construction. Submit construction plans for all required work, in a single package, to the City of Fresno's, Traffic and Engineering Services Division. All work shall be reviewed, approved, completed, and accepted <u>prior</u> to obtaining a certificate of occupancy. Utility poles, street lights, signals, etc. shall be relocated as determined by the City Engineer.

Two working days before commencing excavation operations within the street right of way and/or utility easements, all existing underground facilities shall have been located by Underground Services Alert (USA) Call 811.

Any survey monuments within the area of construction shall be preserved or reset by a person licensed to practice Land Surveying in the State of California.

PRIVATE IMPROVEMENT REQUIREMENTS

Off-Street Parking Facilities and Geometrics:

The parking lot is required to meet the *City of Fresno's Parking Manual, Public Works Standards (P-21, P-22 and P-23) and Specifications.* Parking must also comply with the *California Building Code's* accessibility requirements and the Fire and Solid Waste Department's minimum turning templates. Contact the Planning and Development Department for Parking Manual questions.

Provide corrections as noted on **Exhibit "A"**.

Traffic Signal Mitigation Impact (TSMI) Fee: This project shall pay all applicable TSMI Fees **at the time of building permit.** Contact the Public Works Department, Frank Saburit at (559)621-8797. The fees are based on the Master fee schedule.

Fresno Major Street Impact (FMSI) Fees: This entitlement is in the **Infill Area**; therefore pay all applicable City-wide regional street impact fees. Contact the Public Works Department, Frank Saburit at (559) 621-8797.

Regional Transportation Mitigation Fee (RTMF): Pay all applicable **RTMF** fees to the Joint Powers Agency located at 2035 Tulare Street, Suite 201, Fresno, CA 93721; (559) 233-4148 ext. 200; www.fresnocog.org . Provide proof of payment or exemption **prior** to issuance of certificate of occupancy.

Questions relative to these conditions may be directed to Andreina Aguilar (559) 621-8674 or <u>Andreina.Aguilar@fresno.gov</u> in the Public Works Department, Traffic Planning Section.



DEPARTMENT OF PUBLIC UTILITIES MEMORANDUM

- TO:
 MINDI MARIBOHO Development Services Coordinator

 Planning & Development Dept/Current Planning
- **FROM:** KEVIN GRAY, Supervising Engineering Technician Department of Public Utilities – Utilities Planning & Engineering
- **THRU:** ROBERT A. DIAZ, Supervising Engineering Technician Department of Public Utilities – Utilities Planning & Engineering

SUBJECT: P20-01643 MAPLE LUXURY APARTMENTS DPU CONDITIONS

Water Requirements

City of Fresno Water Division approves of the proposed project, subject to the following conditions listed below:

- 1. To provide a reliable and redundant water supply for the project, the project shall require two points of connection to the City's water system.
- 2. On-site water facilities shall be private.
- 3. Installation of a master water service with meter & meter box shall be required.
- 4. The project applicant shall be required to pay all water-related fees and charges in accordance with the City's Master Fee Schedule and Municipal Code.
- 5. The water supply requirements for this project are as follows:
 - a. The project applicant shall be required to pay Water Capacity Fee charges for the installation of new water services and meters to serve the property.
 - The Water Capacity Fee charge assessed to the applicant shall be based on the number and size of service connections and water meters required to serve the property.
 - The applicant shall provide a forecast for the Total Annual Water Demand (gallons) at full build out for the project, including domestic, irrigation, and industrial demands.
 - The Water Capacity Fee charges by meter size are defined in the City's Master Fee Schedule.
 - The City reserves the right to require an applicant to increase or decrease the size of a water meter for a project or a property to ensure that the

MEMORANDUM MINDI MARIBOHO – Development Services Coordinator Planning & Development Dept/Current Planning August 7, 2020 DPU REQUIREMENTS FOR P20-01643 MAPLE LUXURY APARTMENTS Page 2 of 4

meter is properly sized to accommodate fire protection requirements, and to allow for accurate volumetric flow measurements at low- and high-flow conditions.

• The Water Capacity Fee Charge for any new or expanded service connection shall be payable prior to the issuance of a building permit at the fee level in effect on the date such permit is issued.

Sewer Requirements

The nearest sanitary sewer main to serve the proposed project is an 8-inch sewer main located in South Maple Avenue. Sanitary sewer facilities are available to provide service to the site subject to the following requirements:

- 1. All underground utilities shall be installed prior to permanent street paving.
- 2. All sanitary sewer mains shall be extended within the proposed tract to provide service to each lot.
- 3. All public sanitary sewer facilities shall be constructed in accordance with City Standards, specifications, and policies.
- 4. Installation of sewer house branch(s) shall be required.
- 5. Separate sewer house branches are required for each lot.
- 6. Street work permit is required for any work in the Right-of-Way.
- 7. On-site sanitary sewer facilities shall be private.
- 8. Abandon any existing on-site private septic systems.
- 9. The Project Developer shall contact Wastewater Management Division/Environmental Services at (559) 621-5100 prior to pulling building permits regarding conditions of service for special users.

Sanitary Sewer Fees

The following Sewer Connection Charges are due and shall be paid for the Project:

- 1. Sewer Lateral Charge.
- 2. Sewer Oversize Area.
- 3. Sewer Facility Charge (Multi-Residential)

MEMORANDUM MINDI MARIBOHO – Development Services Coordinator Planning & Development Dept/Current Planning August 7, 2020 DPU REQUIREMENTS FOR P20-01643 MAPLE LUXURY APARTMENTS Page 3 of 4

- 4. Upon connection of this Project to the City Sewer System the owner shall be subject to payment of Sewer Facility charges per Fresno Municipal Code Sections 6-304 and 6-305. Sewer Facility Charges consist of two components, a Wastewater Facilities Charge and Trunk Sewer Charge where applicable.
- 5. Sewer Facility Charges are collected after occupancy on a monthly basis over time based on metered (water or sewer effluent) usage. The developer may contact the Department of Public Utilities/Wastewater-Environmental Control at (559) 621-5153 to receive an estimated cost of the Sewer Facility Charges applicable to the project (based on a constant sewer discharge and loading (Biochemical Oxygen Demand [BOD] and Total Suspended Solids [TSS] levels anticipated) at the current rates in effect, at that time, per Fresno's Master Fee Resolution. The developer shall provide data regarding estimated sewer discharge rates [flow] and loading [BOD/TSS levels] required for calculating the estimated charges.

Multi-Family Service Requirements

For the purpose of establishing city solid waste service policies, multi-family complexes are defined as complexes composed of three (3) dwelling units or more per parcel. These service requirements apply to all multi-family complexes within the City of Fresno.

- All trash bins provided to multi-family complexes must be serviced with a frequency of at least twice per week. This standard does not apply to frequency of service for recycling bins. Solid Waste bin service will be provided by the City of Fresno, per FMC 9-405.
- 2. All multi-family complexes are required to subscribe for recycling services, per FMC 9-405.1. Recycling services may be provided by the City of Fresno or any private recycling service provider. Recycling services must include at the minimum cardboard, newspaper, paper, glass, plastics, beverage containers, and metal recycling.
- 3. All trash and recyclable material must be placed in approved containers, per FMC 9-404. At no time may trash and recyclable material be placed on the ground or pavement.
- 4. Bin enclosures, if provided on site, must be used exclusively for the storage of trash and recycling bins, per public works standard specifications P-33 & P-34.
- 5. All Solid Waste and Recycling service collectively must equal or exceed a 2:1 ratio of 2 units per one cubic yard of service per week. This minimum service applies to all multi-family complexes. (i.e. 24 unit complex must have a minimum of 12 cubic yards of solid waste and recycling service per week.)
- 6. Service Route Permits and Location Permits are required for all private trash company service within the City of Fresno, per FMC 9-408. All private company trash service arrangements must be pre-approved through Solid Waste Management Division.
- 7. Developer will need to provide a 44' (centerline) turning radius at all corners and a Tturnaround (or hammerhead) area where the solid waste vehicle is to turn around.

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MEMORANDUM MINDI MARIBOHO – Development Services Coordinator Planning & Development Dept/Current Planning August 7, 2020 DPU REQUIREMENTS FOR P20-01643 MAPLE LUXURY APARTMENTS Page 4 of 4

- 8. ADA requirement for multifamily residential
- 9. Developer shall install (or construct) a trash enclosure for the project that complies with the City's ADA requirements as defined in the City's standard drawings, details and specifications. The certificate of occupancy for the project shall be withheld until developer installs (constructs) the trash enclosure in accordance with the City's ADA requirements.



Preparing Career Ready Graduates

July 20, 2020

Thomas Veatch Development and Resource Management City of Fresno 2600 Fresno Street, Third Floor Fresno, CA 93721-3604

SUBJECT: APPLICATION NO. P20-01643 PROPOSED 24-UNIT RESIDENTIAL DUPLEX DEVELOPMENT 2056 S. MAPLE AVE.

Dear Mr. Veatch,

Fresno Unified School District submits the following response to your request for review and comment on the above referenced planning application. The applicant proposes the construction of a 12-duplex, 24-unit residential complex to be located at 2056 South Maple Avenue.

Any urban residential development occurring as a result of project approval will have an impact on the District's student housing capacity. The District, through local funding, is in a position to partially mitigate its shortage of classrooms to accommodate planned population growth for the foreseeable future. However, the District recognizes that the legislature, as a matter of law, has deemed, under Government Code Section 65996, that all school facilities impacts are mitigated as a consequence of SB 50's Level 1, 2 and 3 developer fee legislative provisions.

New development on the above referenced property is subject to development fee rates in effect at the time of payment, and are currently \$3.79 per square foot for residential development. Fees will be calculated pursuant to rates effective at the time of payment and new development on the property will be subject to the development fee prior to issuance of a building permit. Please note that fees for residential development will increase to \$4.08 per square foot on August 17, 2020.

The project is presently within the attendance areas of the schools identified below.

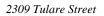
Elementary School:	Balderas
Middle School:	Sequoia
High School:	Roosevelt

The district appreciates the opportunity to comment on the proposed project. Please contact our office at 457-3066 if you have any questions or require additional information regarding our comments.

Sincerely,

Alex Belanger, Assistant Superintendent Facilities Management and Planning

AB:hl



Free Littled School District X

BOARD OF EDUCATION

Keshia Thomas, President Valerie F. Davis, Clerk Claudia Cazares Genoveva Islas Elizabeth Jonasson Rosas Carol Mills, J.D. Major Terry Slatic USMC (Retired)

> SUPERINTENDENT Robert G. Nelson, Ed.D.

Fresno. CA 93721-2287

DWC





August 18, 2020

City of Fresno Planning and Development Department 2600 Fresno Street, Third Floor Fresno, CA 93721-3604

Project: Planning Application-P20-01643

District CEQA Reference No: 20200637

To Whom It May Concern:

The San Joaquin Valley Unified Air Pollution Control District (District) has reviewed the project referenced above from the City of Fresno (City) consisting of the construction of 12 residential duplex buildings (Project). The Project is located at 3080 East Olive Avenue in Fresno, CA (APN 471-302-28). The District offers the following comments:

Project Scope

The Project consist of the construction of 12 residential duplex units for a total of 23 single family apartment units and one managers unit on 1.92 acres zoned for residential use.

According to the City of Fresno, the Project at full buildout will result in an increase in single occupancy vehicles trips, and on average will generate up to 16 trips from solid waste and recycling vehicles.

Based on information provided to the District in the operational statement, Project specific annual emissions from construction and operation (permitted and non-permitted) emissions of criteria pollutants are not expected to exceed any of the following District significance thresholds: 100 tons per year of carbon monoxide (CO), 10 tons per year of oxides of nitrogen (NOx), 10 tons per year of reactive organic gases (ROG), 27 tons per year of oxides of sulfur (SOx), 15 tons per year of particulate matter of 10 microns or less in size (PM10), or 15 tons per year of particulate matter of 2.5 microns or less in size (PM2.5).

Samir Sheikh Executive Director/Air Pollution Control Officer

Northern Region 4800 Enterprise Way Modeste, CA 95356-8718 Tel: (209) 557-6400 FAX: (209) 557-6475 Central Region (Main Office) 1990 E. Gettysburg Avenue Fresna, CA 93726-0244 Tel: (559) 230-6000 FAX: (559) 230-6061 Southern Region 34946 Flyover Court Bakersfield, CA 93308-9725 Tel: (661) 392-5500 FAX: (661) 392-5585

www.valleyair.org www.bealthyairliving.com

Other potential significant air quality impacts related to Toxic Air Contaminants (see information below under Health Risk Assessment), Ambient Air Quality Standards, Hazards and Odors, may require assessments and mitigation. More information can be found in the District's Guidance for Assessing and Mitigating Air Quality Impacts at: <u>https://www.valleyair.org/transportation/GAMAQI_12-26-19.pdf</u>

The District offers the following comments:

1) Project Construction Related Criteria Pollutant Emissions

Based on the information provided, the construction related criteria pollutant emissions are not expected to exceed District significance thresholds. Although the construction-related emissions are expected to have a less than significant impact, the District suggests that the City advise project proponents with construction-related exhaust emissions and activities resulting in less than significant impact on air quality to utilize the cleanest reasonably available off-road construction fleets and practices (i.e. eliminating unnecessary idling).

2) District Rule 9510 (Indirect Source Review)

The District has reviewed the information provided and has determined the project size is below the District Rule 9510, section 2.1 applicability threshold of 50 dwelling units for a residential development. Therefore, District Rule 9510 requirements and related fees do not apply to the project.

3) Other District Rules and Regulations

The proposed Project may be subject to other District Rules and Regulations, including, but not limited to: District Rule 2010 (Permits Required), Rule 4102 (Nuisance), Rule 4601 (Architectural Coatings), Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations), and Rule 4307 (Boilers, Steam Generators, and Process Heaters-2.0 MMBTU/HR to 5.0 MMBTU/HR (Certified Water Heaters). In the event an existing building will be renovated, partially demolished or removed, the Project may be subject to District Rule 4002 (National Emission Standards for Hazardous Air Pollutants).

The list of rules above is neither exhaustive nor exclusive. Current District rules can be found online at: <u>www.valleyair.org/rules/1ruleslist.htm</u>. To identify other District rules or regulations that apply to this Project or to obtain information about District permit requirements, the applicant is strongly encouraged to contact the District's Small Business Assistance (SBA) Office at (559) 230-5888.

Current District rules can be found online at: <u>www.valleyair.org/rules/1ruleslist.htm</u>.

4) Assembly Bill 617

Assembly Bill (AB) 617 (2017, Garcia) requires the California Air Resources Board (CARB) and air districts to develop and implement Community Emission Reduction Programs (CERPs) in an effort to reduce air pollution exposure in impacted disadvantaged communities. The South Central Fresno AB 617 area is one of the Valley communities selected by CARB for investment of additional air quality resources and attention under AB 617.

The CERP for the South Central Fresno was developed through an extensive community engagement process, which included input from Community Steering Committee members, and was adopted by the District Governing Board in September 2019 and by the CARB Board in February 2020. The CERP identifies a wide range of measures designed to reduce air pollution and exposure, including a number of strategies to be implemented in partnership between agencies and local organizations. For more information regarding the CERP approved for South Central Fresno, please visit the District website at: http://community.valleyair.org/selected-communities/south-central-fresno. The following emission reduction measures and strategies described below apply to the proposed project:

Incorporation of Clean Air Measure: Vegetative Barriers and Urban Greening

The Project is located in a densely populated area. There are residential units located south, east, southeast, north, and northwest from the Project on South Maple Avenue and East Woodward Avenue. The Project is located 427 feet north of an industrial development, with additional industrial/business facilities located 1,800 feet west, and 1,180 feet south. The District suggests the City consider the feasibility of incorporating vegetative barriers and urban greening as a measure to further reduce air pollution exposure on sensitive receptors (i.e. residential units). While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, vegetative barriers have been shown to be an additional measure to potentially reduce a population's exposure to air pollution through the interception of airborne particles and the update of gaseous pollutants. Examples of vegetative barriers include, but not limited to the following: trees, bushes, shrubs, or a mix of these. Generally, a higher and thicker vegetative barrier with full coverage will result in greater reductions in downwind pollutant concentrations. In the same manner, urban greening is also a way to help improve air quality and public health in addition to enhancing the overall beautification of a community with drought resistant low maintenance greenery.

Incorporation of Clean Air Measure: Solar Deployment in the Community

It is the policy of the State of California that renewable energy resources and zerocarbon resources supply 100% of retail sales of electricity to California end-use customers by December 31, 2045. While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, the production of solar energy is contributing to improving air quality and public health. The District suggests that the City consider the feasibility of incorporating solar power systems, as an emission reduction strategy for this Project.

Incorporation of Clean Air Measure: Clean Lawn and Garden Equipment in the Community

Since the Project consists of residential development, gas-powered residential lawn and garden equipment have the potential to result in an increase of NOx and PM2.5 emissions. Utilizing electric lawn care equipment can provide residents with immediate economic, environmental, and health benefits. The District recommends the project proponent consider The District's Clean Green Yard Machines (CGYM) program which provides incentive funding for replacement of existing gas powered lawn and garden equipment. More information on the District CGYM program and funding can be found at: <u>http://www.valleyair.org/grants/cgym.htm</u> and http://valleyair.org/grants/cgym-commercial.htm.

Incorporation of Clean Air Measure: Charge Up! Electric Vehicle Charger

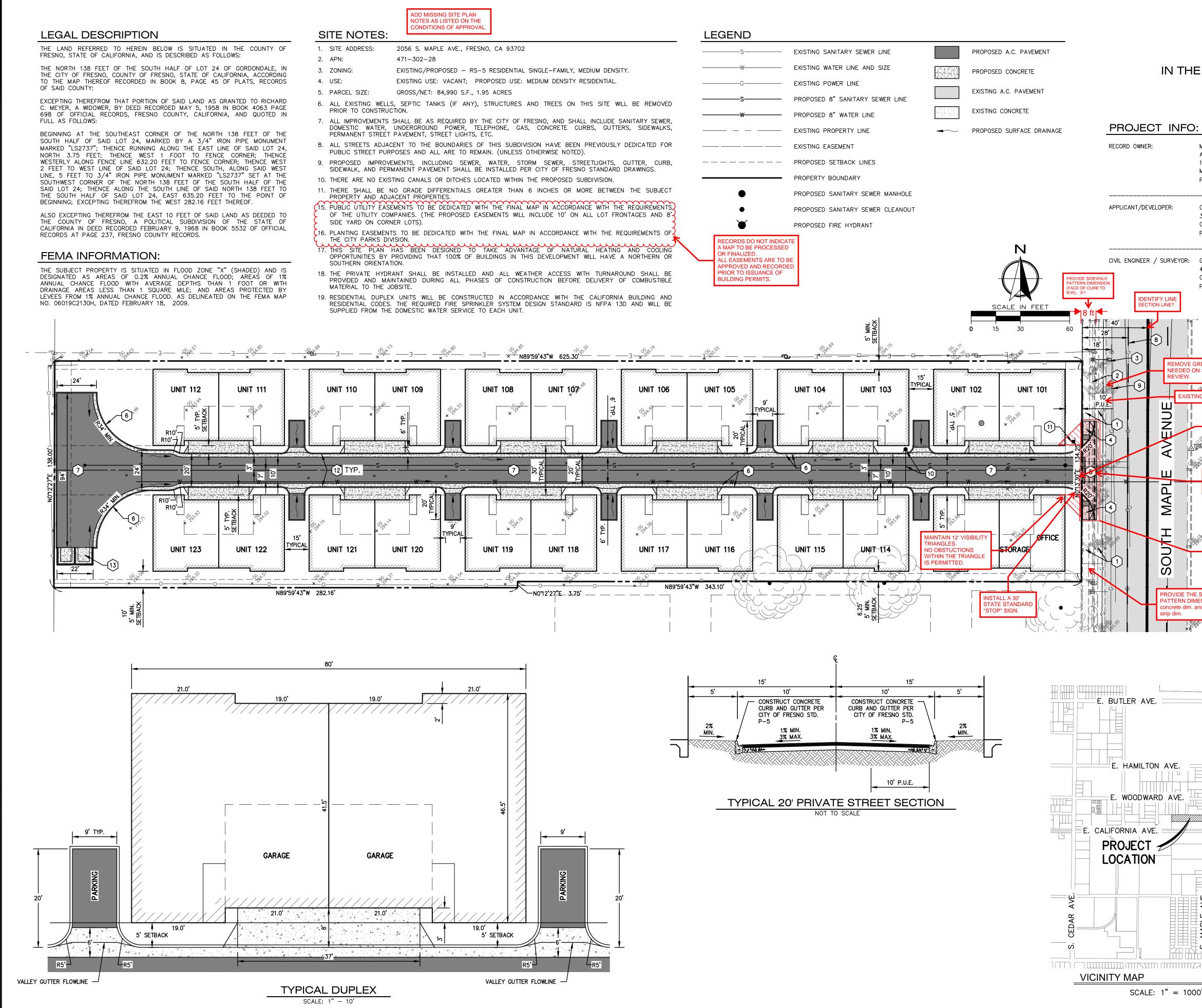
To support further installation of electric vehicle charging equipment and development of such infrastructure, the District offers incentives to public agencies, businesses, and property owners of multi-unit dwellings to install electric charging infrastructure (Level 2 and 3 chargers). The purpose of this incentive program is to promote clean air alternative-fuel technologies and the use of low or zero-emission vehicles. The District suggests that the project proponent consider the feasibility of installing electric vehicle chargers for this Project.

The District recommends that a copy of the District's comments be provided to the Project proponent. If you have any questions or require further information, please contact Cherie Clark by e-mail at <u>Cherie.Clark@valleyair.org</u> or by phone at (559) 230-5940.

Sincerely,

Jacob Whitson Program Manager

JW: cc



:19:56 PM K:\GATEWAY PROJECTS\RUBIK BUILT\20-023 MAPLE LUXURY LIVING\DRAWINGS\SHEET\20-023 SITE PLAN.DWG-VLADIMIR MIKULESKU

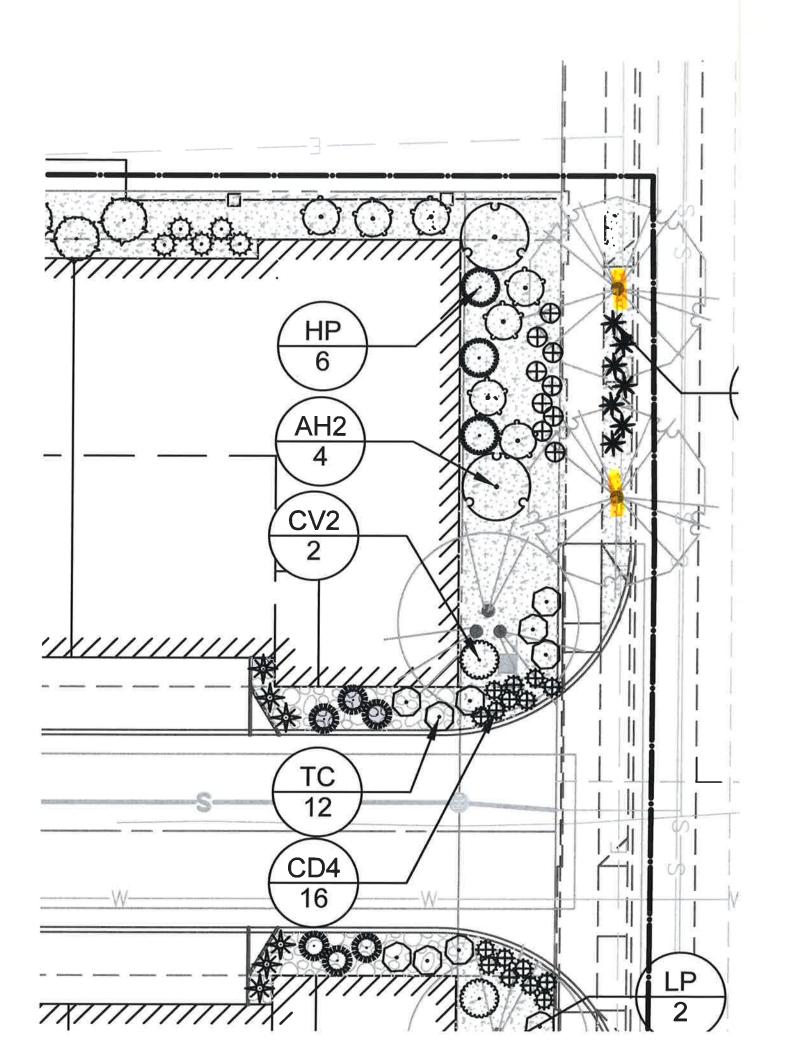


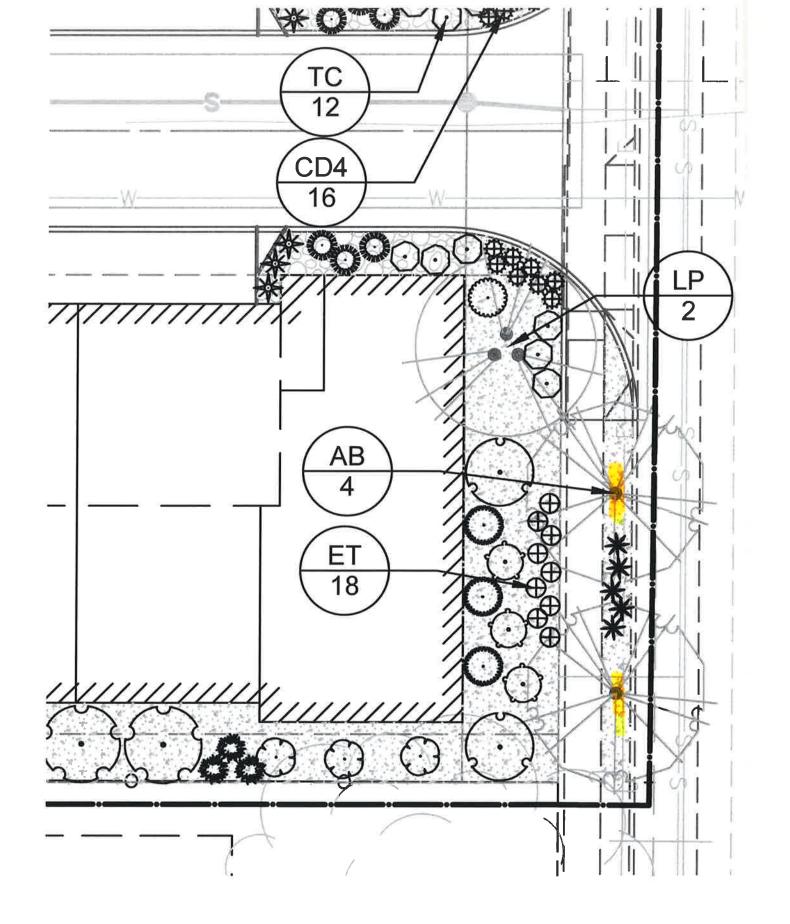
IN THE CITY OF FRESNO, FRESNO COUNTY, CALIFORNIA PREPARED AND PLATTED IN MARCH, 2020

UTILITY INFO: CITY OF FRESNO MAPLE LUXURY LIVING, LLC SOLID WASTE & A CALIFORNIA LIMITED LIABILITY COMPANY RECYCLING: 2600 FRESNO STREET 1004 RENO AVENUE FRESNO, CA 93721 MODESTO, CA 95351 PHONE: (559) 621-8600 PHONE: (___) ___-SEWER AND WATER: CITY OF FRESNO CEN CAL BUILDERS & DEVELOPERS 2600 FRESNO STREET FRESNO, CA 93721 3497 E. INTERNATIONAL AVE. CLOVIS, CA 93619 PHONE: (559) 621-8650 PHONE: (559) 225-6697 GAS AND ELECTRICITY: PACIFIC GAS AND ELECTRIC 650 O STREET, 3RD FLOOR CIVIL ENGINEER / SURVEYOR: GATEWAY ENGINEERING, INC. FRESNO, CA 93760 405 PARK CREEK DRIVE PHONE: (559) 463–5636 CLOVIS, CA 93611 PHONE: (559) 320-0344 ____ CABLE: COMCAST 05/18/2020 2441 NORTH GROVE INDUSTRIAL DR., FRESNO, CA 93727 PHONE: (559) 252-8210 X 4222 STORM DRAIN: FRESNO METROPOLITAN FLOOD CONTROL DISTRICT EMOVE GREY TEXT. NO EDED ON SITE PLAN 5469 E. HEDGES AVE., FRESNO, CA 93727 6.80 PHONE: (559) 456-3292 (ISTING OR PROPOSE TELEPHONE: AT&T 5555 E, OLIVE AVE. Ζ FRESNO, CA 93727 PHONE: (559) 454–3778 C ш Шų Ŷ Ā **KEY NOTES:** ЫA G ш DNSTRUCT 30'-35' DRIVE & 🗒 : 1 EXISTING SIDEWALK, CURB AND GUTTER TO REMAIN IN PLACE ROACH PER PW STDS AND P-6 DEMOLISH EXISTING CONCRETE DRIVE APPROACH AND 2 DEMOLISH EXISTING CONCRETE DRIVE APPROACH AND REPLACE WITH SIDEWALK AND CURB_PER CITY OF FRESNO EC 20 STD. P-5 Z CURB AND GUTTE 3 EXISTING STREET LIGHT TO REMAIN IN PLACE ш 0 FREET TYPE APPROACH NO (4) CONSTRUCT MODIFIED CURB RAMP PER CITY OF FRESNO STD. P-29 ERMITTED. NO RAMPS. Ο REMOVE EXISTING SIDEWALK AND CURB AND CONSTRUCT S 5 REMOVE EAISTING SIDE TALES AND STATE CONCRETE VALLEY GUTTER PER CITY OF FRESNO STATE P-10 CONSTRUCT A 30'-35' DRIVE APPROACH PER PW STDS P-2 AND P-6 VIDE THE SIDEW CONSTRUCT PROPOSED CURB AND GUTTER PER CITY OF 6 CONSTRUCT FROM CO. FRESNO STD. P-5 ERN DIMENSION crete dim. and planter CONSTRUCT PERMANENT PAVING PER CITY OF FRESNO STD. P-21, P-22, AND P-23 (8) EXISTING 4" GAS LINE TO REMAIN IN PLACE EXISTING 16" GAS LINE TO REMAIN IN PLACE PROPOSED PRIVATE FIRE HYDRANT WITH 8" MIN. SERVICE SIGNAGE: PROVIDE A GRAPHIC ADDRESS DIRECTORY AT THE ENTRANCE. ALSO, PROVIDE A CVC 22658 FIRE LANE TOW-AWAY WARNING SIGN ADJACENT TO THE DRIVEWAY. ALL CURBS ALONG THE DRIVEWAY AND TURN AROUND ARE TO BE DESIGNATED WITH RED CURB AND STENCILED "FIRE LANE NO PARKING" 3 INCH STENCIL EVERY 50 FEET. Image: 13TYPICAL BIN ENCLOSURE PER CITY OF FRESNO STD.
DETAILS ON P-33 & TYPICAL DETAILS AND NOTES ON P-34 APPL. NO. P20-01643 EXHIBIT A DATE 07/17/2020 PLANNING REVIEW BY DATE TRAFFIC ENG. DATE DATE **APPROVED BY** CITY OF FRESNO DARM DEPT REVIEWED NGINEER: JOSEPH D. DAG Ν By PUBLIC WORKS - ANDREINA AGUILAR at 5:20 pm, Aug 06, 2020 LICENSE NO: 71873 DRAWN BY: VM CHECKED BY: JDD SCALE: AS SHOWN **PROJECT NO:** 20-023 SCALE: 1" = 1000' SHEET

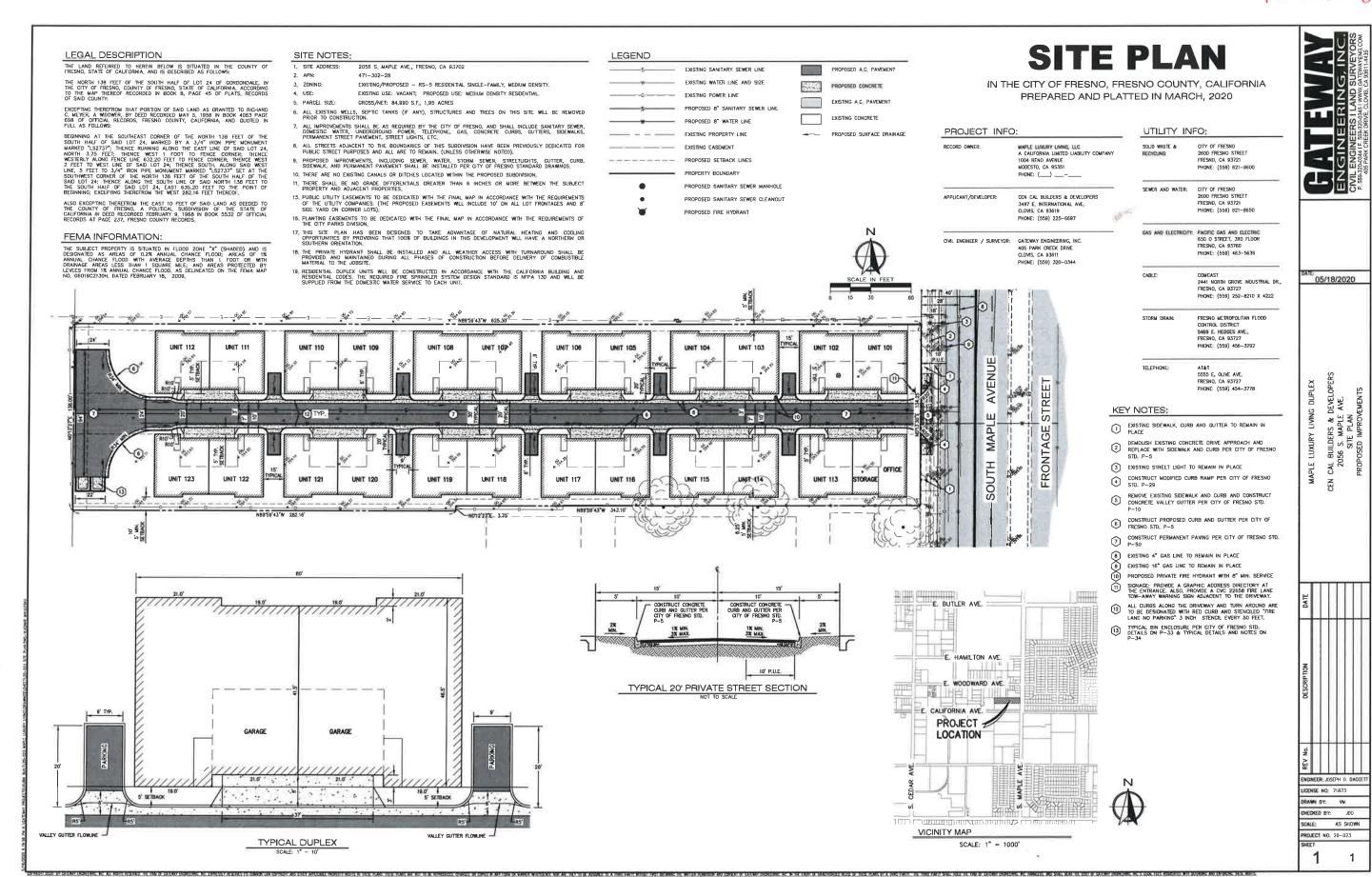
Plant Legend

TREES	CODE	BOTANICAL / COMMON NAME	SIZE	TYP
	AB	Acer buergerianum NOT AN APPROVED Trident Maple STREET TREE	15 gal	Deci
A STATE A STAT	CD	Cercidium x `Desert Museum` Thornless Palo Verde	15 gal	Deci
	CW	Cercis occidentalis Western Redbud Multi-trunk	15 gal	Deci
	LP	Lagerstroemia indica `Purple Tower` Purple Tower Crape Myrtle	24"box	Deci
	QW	Quercus wislizenii Interior Live Oak	15 gal	Ever
SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	<u>TYP</u>
*	AB2	Agave x `Blue Glow`	2 cal	Ever









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720-01643

Maple St. Luxury Duplexes

Fresno, Ca

PROJECT TYPE: F	PRIVATE
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WATER SUPPLY: POTABLE

CITY OF FRESNO PUBLIC WORKS WATER SUPPLIER: DEPARTMENT

TOTAL LANDSCAPED AREA: 21,165 SF

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

Landscape Document Package checklist:	
X (1.) Project information	X (4.) Landscape Design Plan
X (2.) Water Efficient Landscape Worksheet	X (5.) Irrigation Design Plan
(3.) *Soil Management Report	(6,) *Grading Design Plan

*When a project involves mass grading of a site, the Contractor shall submit the soil management report with the Certificate of Completion package,

*See Civil Engineer's plans for the Grading Design.

** It is the responsibility of the Contractor to submit a Certficifate of Completion package and all the associated information to the governing jurisdiction prior to the end of the maintenance (warranty) period. Copies of that submittel package shall be provided by the Contractor to the Owner and Owner's Representative for their records.

SHEET INDEX

- T-1 TITLE SHEET
- L-1 PLANTING SOIL PLAN
- L-2 IRRIGATION PLAN
- L-3 IRRIGATION DETAILS & NOTES
- **IRRIGATION DETAILS & NOTES**
- L-4 **IRRIGATION DETAILS & NOTES**
- L-5
- L-6 PLANTING PLAN
- L-7 PLANTING DETAILS & NOTES
- L-8 PLANTING DETAILS & NOTES
- L-9 SPECIFICATIONS
- L-10 SPECIFICATIONS
- L-11 SPECIFICATIONS
- L-12 SPECIFICATIONS

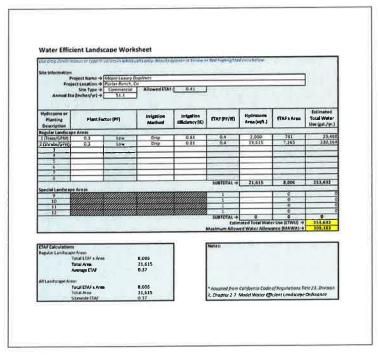
CITY SIGNATURES	DATE

"I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the landscape design and irrigation plan. Signature



SITE VICINITY MAP

N.T.S.



VISALIA, CA 993291 559, 786, 9600

ARCHITECT CLOVIS, CA 93611 559, 708, 4046

CONTACT INFO

TYSON CARROLL

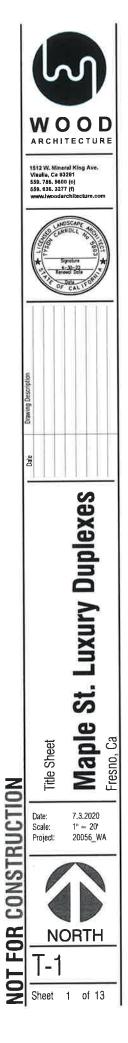
WOOD ARCHITECTURE 1512 W MINERAL KING AVE tyson@iwoodarchitecture.com

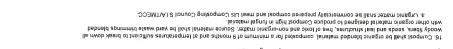
RUSS TAYLOR

TAYLOR GROUP ARCHITECTS 410 PARK CREEK DR. Russ T@tlgarchitects.com

7-17-20

APPL. NO. P20-01643	EXHIBIT L-1	DATE
PLANNING REVIEW BY		DATE
TRAFFIC ENG.	_	DATE
APPROVED BY		DATE
CITY OF	FRESNO DAR	M DEPT





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15. Imported top soil shall be forder, bisble soil containing less than 5% total volume of the combinition of subsol, rehere, noise larger 15. Imported top soil shall be forder, bisble soil containing less than 5% total volume of the combinition const than 7° cannows, heavy or staff day. Kenne Lapove objects shall be controlled by sorrie selection nois by screening the coal. Topsoil chall be suitable for the gemma provide the Kenne Lapove objects shall be controlled by sorrie selection nois by screening the coal. Topsoil chall be suitable for the gemma provide the kenne of the supput of vergetieries growth. Imported Topsoil shall not contain weed seeds in dualities that cause noirceable weed infested on the final planting beds.

anoileoficeage ant to eausic estimates off the specifications

a. Source at the constraint of the constraint suices rust wordin hegalively impactine nearin or pishtings, tubrication shall har proceed with work until concerted 14. Contractor shall be aware of all surface and subsurface ronditions, and to notify the Owner's Representative, in writing of any

13, soli testing shafi be at the expense of the Contractor. Copies of the soli test analysis along with receipts and delivery site of the receipt and the receipt an

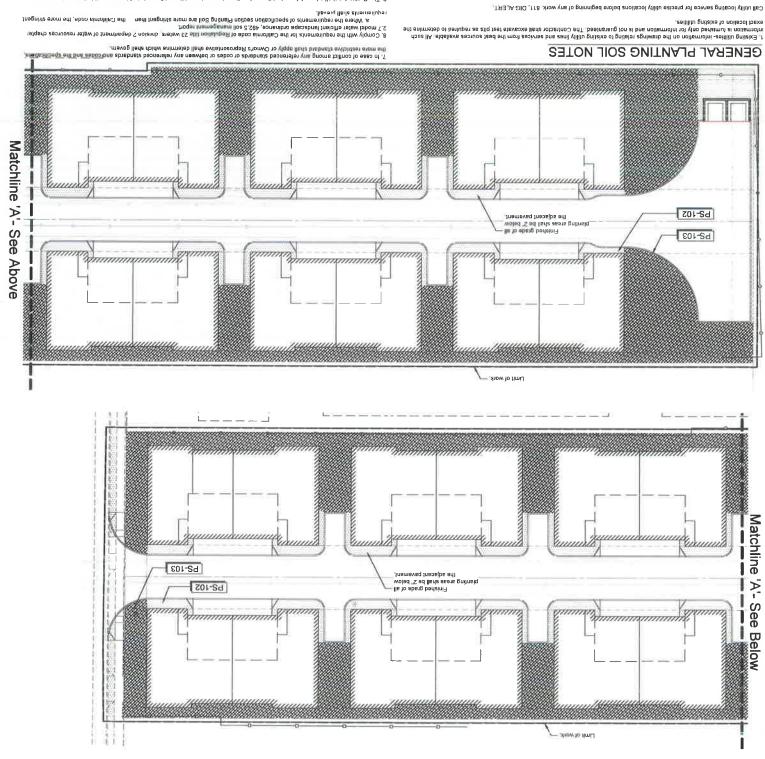
זא. Submit all festing required by California code of Regulation tide 23 waters, division 2 department of water משמע Brident landscape ordinance. 492 ל אחון תאחאקושהאו והףחול

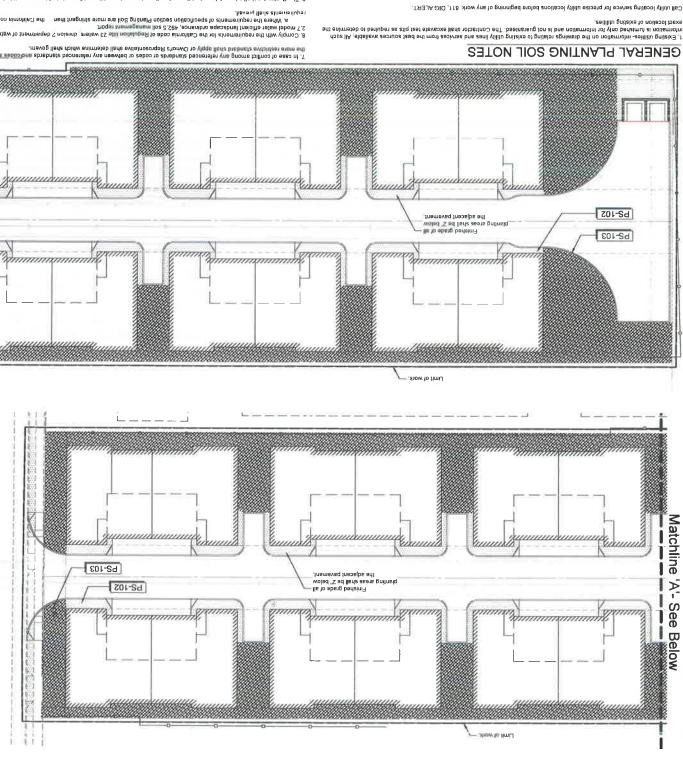
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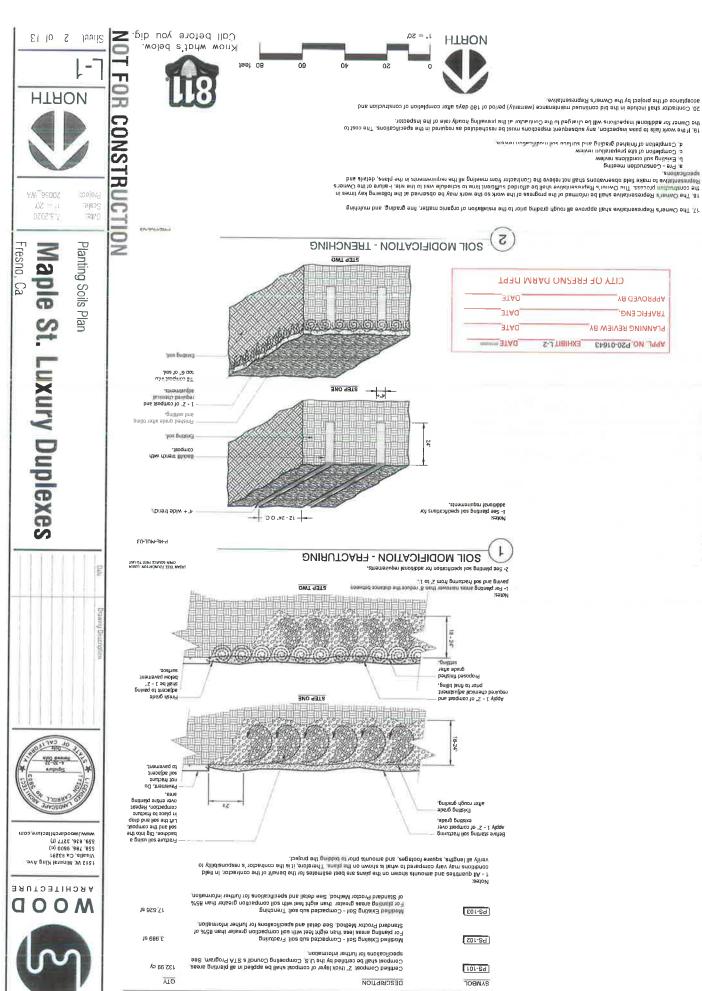
of 1, 1 to start external site soil test and the finite stating Submit soil test analysis report for each sample of Toponi, existing site soil

зарівни 10 f for the contractor shall be responsible for any coordination with subcontractors as requiring to accomplish the soil preparation

injury due to the Contractor's actions. 9. The Contractor shall adequately protect the work, adjacent property, and the public, and shall be responsible for any damages or







Planting Soils Legend

2. Utility Requirements- The Conitiactor shall notify the following agencies at least 48 hours in advance of excavaling around any of ihelr structures. The utility companies listed below shall be contacted. Company

- Company - Gas Company - Elephone Company - Celephone Company - Cale Lefevision Company - Water Supply Company

Averes and but how bank

notiountenos lo files etant of construction namer to be readily accessible and in good operating condition. The Contractor shall notify the gas company's headquarters planning of the start of construction the California Public Unifies Commission mandates that in, in the interest of public safety, main line gas valves be maintained in a

selfility for any cost incurred due to damage of said utilities. Contractor shall be responsible for making himself familier with all underground utilities pipes, and structures. Contractor shall take sole consortibility for any activities due to demage of sold utilities.

4. All scaled dimensions on the drawings are approximate. Before proceeding with any work, the Contractor shall carefully check and vering all offerencies and quantities, and shall immediately inform the Owner's Representative of any discrepancies between the information on the diuwings und the uclouh conditions retinining into moning any work in said areas until given Approval to no 54 by the Checker Schedule and the diversion of the uclouh conditions retinining into work in said areas until given Approval to no 54 by the Owner's Restoreanabilitie.

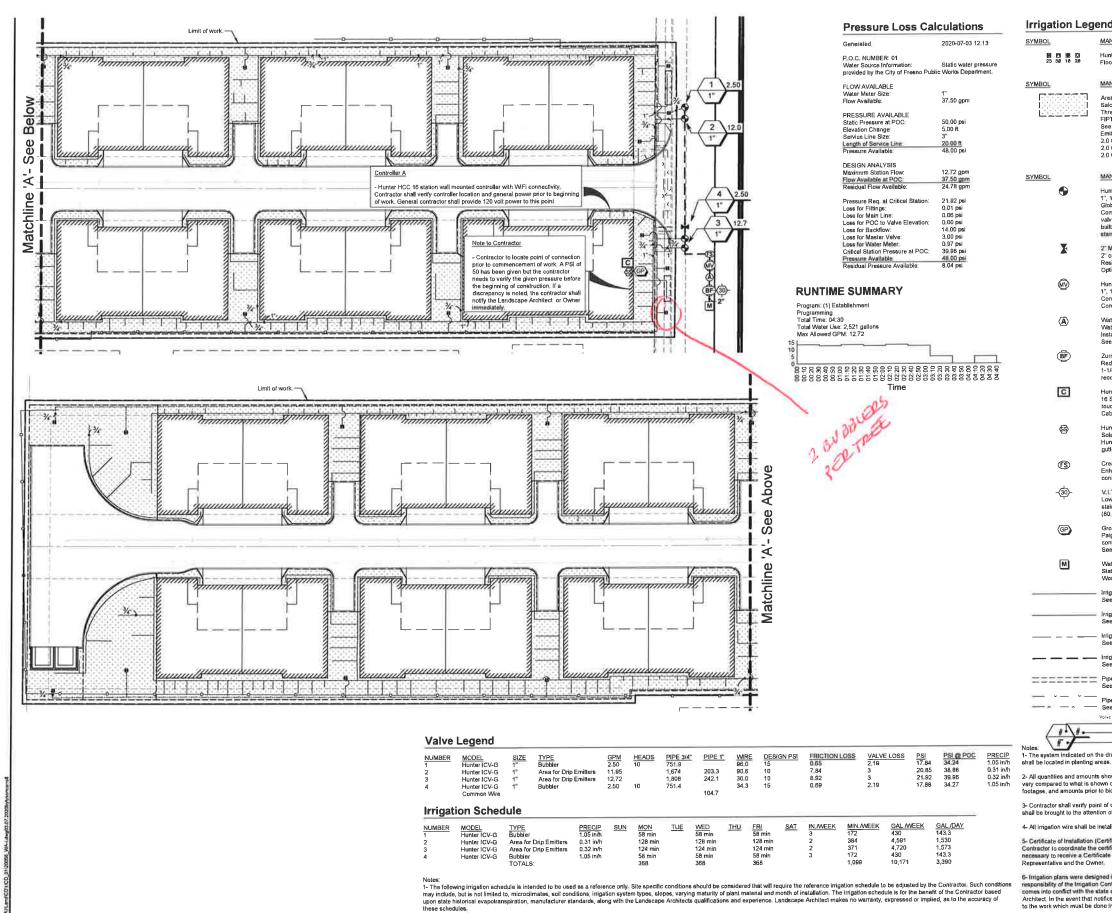
evitetnezerqeR a'renwC

6. The Contractor shall obtain and pay for all permits related to this section of the work unless previously excluded under provision of the contractor shall obtain and pay for all permits related to this vection of the work unless previously excluded under provision or optime set demonstrated previously excluded under provision or optime set demonstrate set demonstrating on the permit of the work and a set demonstrate related to the work unless previously excluded under provision or optime set demonstrate the set of the work and a set demonstrate set demonstrate and the work unless provided under provision or optime set demonstrate set demonstrate and the work unless provided and the secondard and set demonstrate set demonstrate and the secondard set of the work and the set of the work and the set of the work and the set of the set of the set of the work and the set of the s

neer price resulting from changes in the work.

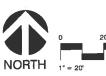
wision of the standards and codes current on the effective date of this contract shall apply, unless expressly set forth Wherever references are made to standards or coded in accordance with which works is to be performed or tested, the edition or

ha more restrictive standard share or Owner's Representative shall determine which shall gevern subjection of complexity of the second attemption of second of the second of the second second of the second of



APPL, NO. P20-01643 EXHIBIT L-3 DATE MARON PLANNING REVIEW BY DATE TRAFFIC ENG. DATE

DATE



CITY OF FRESNO DARM DEPT

APPROVED BY

	IF PCB	20	15
	Bubbler, 1/2" FIPT. See irrigation detail.		
MANI	JFACTURER MODEL/DESCRIPTION		
Area	to Receive Drip Emitters		
Salco	Drip Emitter by Area aded pressure compensating drip emitter with 1/2" (1.27cm)	21,428 в.f.	
FIPT	inlet and Diffuser Cap Outlet, Model # SLV-PST-CV-2.		
	rrigation detail		
	er Notes: PH emitters (1 assigned to each 1 gal plant)	517	
20G	PH emitters (1 assigned to each 2 gal plant)	72 155	
2 0 G	PH emitters (1 assigned to each 5 gal plant)	155	
MAN	FACTURERMODEL/DESCRIPTION		
Hunte	er ICV-G 1"	4	
1" 1-	172" 2" and 3" Plastic Electric Remote Control Valves.		
Comr	a Configuration, with NPT Threaded Inlat/Outlet, for nercial/Municipal Use. Install each remote control irrigation		
valve	with a Rainbird PRB-QKCHK-100, 1" Basket Filter with		
built-i	n Pressure Regulator (40 psi) and 200 mesh (75 micron)		
staini	ess steel screen. See irrigation detail.		
2" Mi	tco-Norca 200WNW	1	
2" car	st iron gate isolation valve, Flanged Gasket Ends ent wedge, Non-Rising Stern, with Epoxy Coating, With		
	nal Nut. Same size as mainline pipe		
		a.	
Hunte 1", 1-	er IBV 1" 1/2", 2", and 3" Brass Electric Master Valve, Globe	- 22	
Confi	guration, with NPT Threaded Inlet/Outlet, for		
	nercial/Municipal Use. See irrigation detail		
Watte	s Surge Arrestor	1	
Watte	1" lead free water hammer arrestor model # LF15M2-F		
	l per manufacturer's specifications and recommendations rrigation detail		
		-	
	375 XLB 1" ced Pressure Principle Assembly, Sizes 1/2", 3/4", 1",	1	
	", 1-1/2", 2ê€. Install per manufacturer's specifications and		
	nmendations. See irrigation detail.		
Hunte	er HCC-1600-M	(4)	
16 St	ation Outdoor WI-Fi enabled, full-functioning controller with		
	screen & one ICM-800 Module, Commercial Use, Matal		
Cabii	ier.		
Hunte	er Solar-Sync-Sen ; rain freeze sensor with outdoor interface, connects to	1	
Hunte	er X-Core and ACC Controllers install as noted Includes		
gutte	r mount bracket. Wired, Module not included,		
	tive Sensor Technology ELF-T10-N01	1	
Enha	nced Low Flow Sensor with 1" male NPT threaded	16	
conn	action, flow range between 0.20 to 20 gpm.		
VIT	Products SBBC-30SS	1 C	
Low	profile, tube and wire construction smooth touch surface,		
6tain (80.0	ess steel backflow enclosure, 31,5"L, 28"H, 17,75"W 1cm L, 71,12cm H, 45,085cm W), See irrigation detail		
		1	
Grou	nding Plate • Electric 4" x 36" copper grounding plate, Install per	12	
contr	oller manufacturer's specifications and recommendations.		
See i	rrigation delail		
	r Meter 1"	1	
Statin	water pressure provided by the City of Fresho Public		
	s Department		
	tion Lateral Line: PVC Class 200 SDR 21 (Shrubs) 3/4"	3,4821.f	
Seei	rrigation detail		
	tion Lateral Line: PVC Class 200 SDR 21 (Shrubs) 1"	445.4 l.f.	
	rrigation detail		
kriga	tion Lateral Line: PVC Class 200 SDR 21 (Trees) 3/4"	1,503 l.f.	
See	rrigation detail		
Inida	lion Mainline: PVC Schedule 40 (Mainline) 2"	104.7 Lr.	
See	irrigation della		
Pine	Sleeve: PVC Schedule 40 (Lateral Line)	11.6 l.f.	
See	rrigation detail	1000	
	Sloove: BVC Schedule 40 (Mainline)	31.8 l.f.	
	Sleeve: PVC Schedule 40 (Mainline)	01011	
Volve (Callaul		
_	- Valve Number		
	- Value Files		

The system indicated on the drawing is diagrammatic. All equipment shown in paved areas is disall be located in planting areas. Avoid any conflicts between the irrigation system, planting or areas areas and any conflicts.

2- All quantilies and amounts shown on the plans are best estimates for the benefit of the Contractor. In field conditions m vary compared to what is shown on the plans. Therefore, it is the Contractor's responsibility to verify all lengths, square footages, and amounts prior to bidding the project.

3- Contractor shall verify point of connection and minimum static pressure prior to commencing of work. Any discrep shall be brought to the attention of the Owner and Landscape Architect prior to starting work.

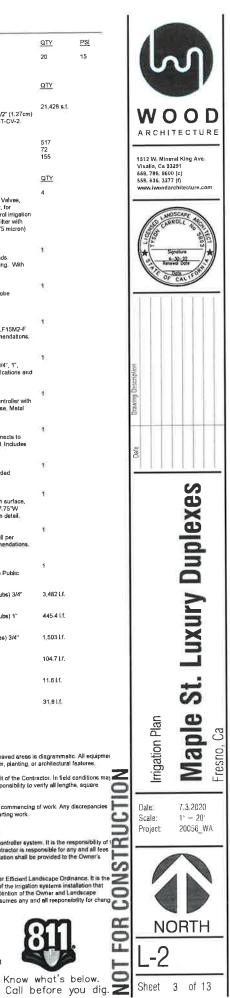
4- All irrigation wire shall be installed in a minimum 1.5" Sch. 40 electrical conduit.

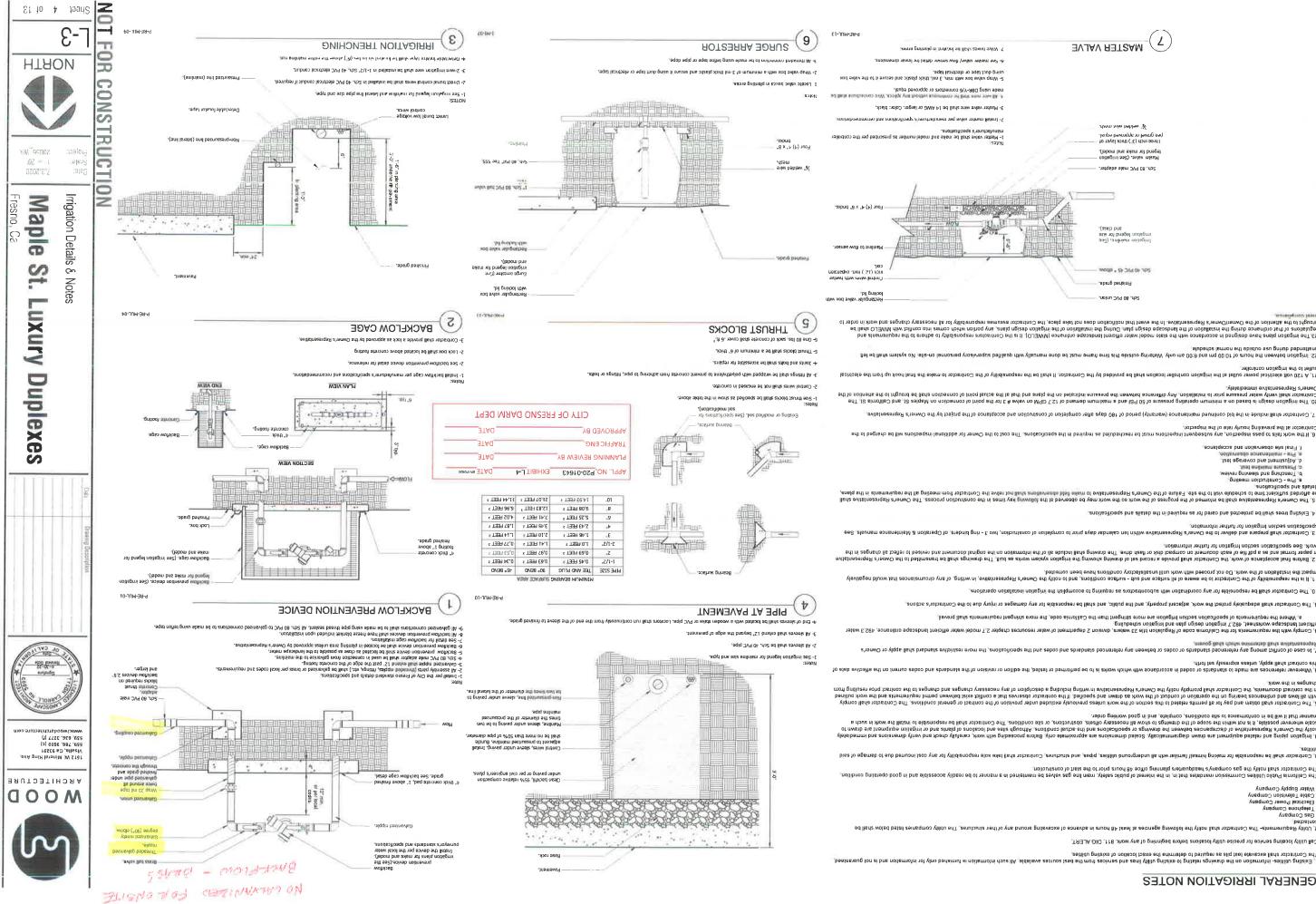
S- Certificate of Installation (Certified Start Up) shall be required for the irrigation controller system. It is the responsibility of Contractor to coordinate the certification and inspections with Ewing Irrigation. Contractor is responsible for any and all fees necessary to receive a Certificate of Installation. Copies of the Certificate of Installation shall be provided to the Owner's Representative and the Owner. bility of I

6- Irrigation plans were designed in accordance with CA AB 1881; the Model Water Efficient Landscape Ordinance. It is the responsibility of the trigation Contractor to adhere to that ordinance. Any portion of the irrigation systems installation that comes into conflict with the state ordinance shall be immediately brought to the attention of the Owner and Landscape Architect. In the event that notification does not occur, the triggition Contractor assumes any and all responsibility for change to the work which must be done in order to meet compliance.









GENERAL IRRIGATION NOTES

all utility locating service for precise utility locations before beginning of any work. B11, DiG ALERT

3as Company

Telephone Company Cable Television Company Water Supply Company

Vater Supply Company

ae Contractor shall notify the gas company's headquarters planning office 48 hours prior to the start of construction. Up California Public Unilities Commission mandates that in, in the interest of public safety, main line gas valves be mainteined in a manner to be readily accessible and in good operating.

Contractor shall be responsible for making himself familiar with all underground utilities, pipes, and stuctories, Contractor shall take sole responsibility for any cost incurred due to damage of said

L, intigation piping and related equipment are drawn diagrammalically. Scaled dimensions are approximate only, Belore proceeding with work, carefully check and verify dimensions and immediately used with a set drawn to equipment are drawn to expensive the transmitter of the advance of the a

Fig. The Contractor shall obtain and pay for all permits related to the work unless previously excluded under provision of the contractor shall comply excluded under provision of the contractor shall comply excluded under provision of the contractor shall and the work cultured of the work and the softwards of the softwards

NIOW OR IN THE WOLK The contract documents, the contractor and the contracts representance in writing incurating a description of any necessary changes and changes to the contract price featuring from

is contract shall apply, unless expressly set forth Wherever relevences are made to standards or coded in accordance with which works is to be performed or tested, the edition or tevision of the standards and codes current on the effective date of

which shall gov L in case of conflict among any relevance standards or codes or between any referenced standards and codes and the specifications, the more restrictive standard shall apply or Owner's

Comply with the requirements for the California code of Regulation tille 23 waters, division 2 department of water resources chapter 2,7 model water efficient landscape ordinance, 492,13 water

t landecape worksheet, 492./? irrigation saction plan and irrigation scheduling. I Morete the requirements of specifications section findgation scheduling.

The Contractor shall adequately protect the work, adjacent property, and the public, and shall be responsible for any damages or injury due to the Contractor's actions.

The Contractor shall be responsible for any coordination with subcontractore as requiring to accomplicit the imigation indicated on the contractore.

set the installation of the work. Do not proceed with work until unsatistationy conditions have been contexe 1. It is the createring the prime of the Contractor to be aware or all strategies and such a surface conditions, and to notify the Owner's Representative, in writing, of any circumstances link would negatively

ork. See specification section irrigation for further information baber format and as a partitie or each accument on compact disk or tigen dive in the drawing shall include all or the information on the original document and review or clifect all changes in the 2. Before final acceptance of work, the Contractor shall provide a record set of drawing showing the it

3. Contractor shall prepare and deliver to the Owner's Representative within ten calendar days prior to completion of construction, two 3 - ring binders, of Operation & Maintenance manuals, See

ecilication section imgalion for further information

Existing trees shall be protected and carea for as required in the details and specifications.

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Trenching and sleev

Adjustment and coverage test

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2. The introlition of the second of the point of connection on the point of connection on the point of connection on the price of the second o

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1. A 120 volt electrical power outlet at the impairement on costion shall be provided by the Contractor. It shall be the responsibility of the Contractor to make the final hour up the electrical

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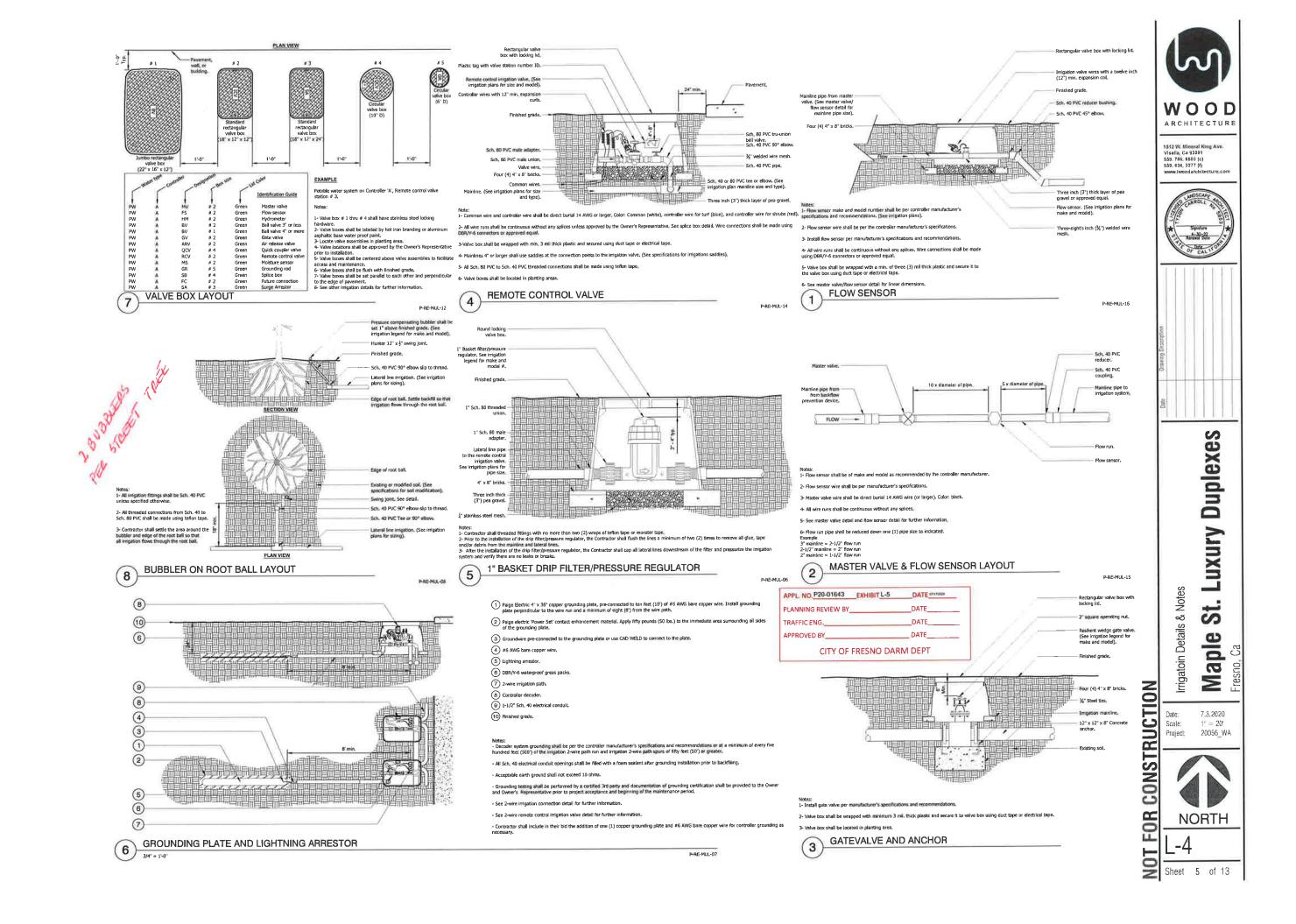
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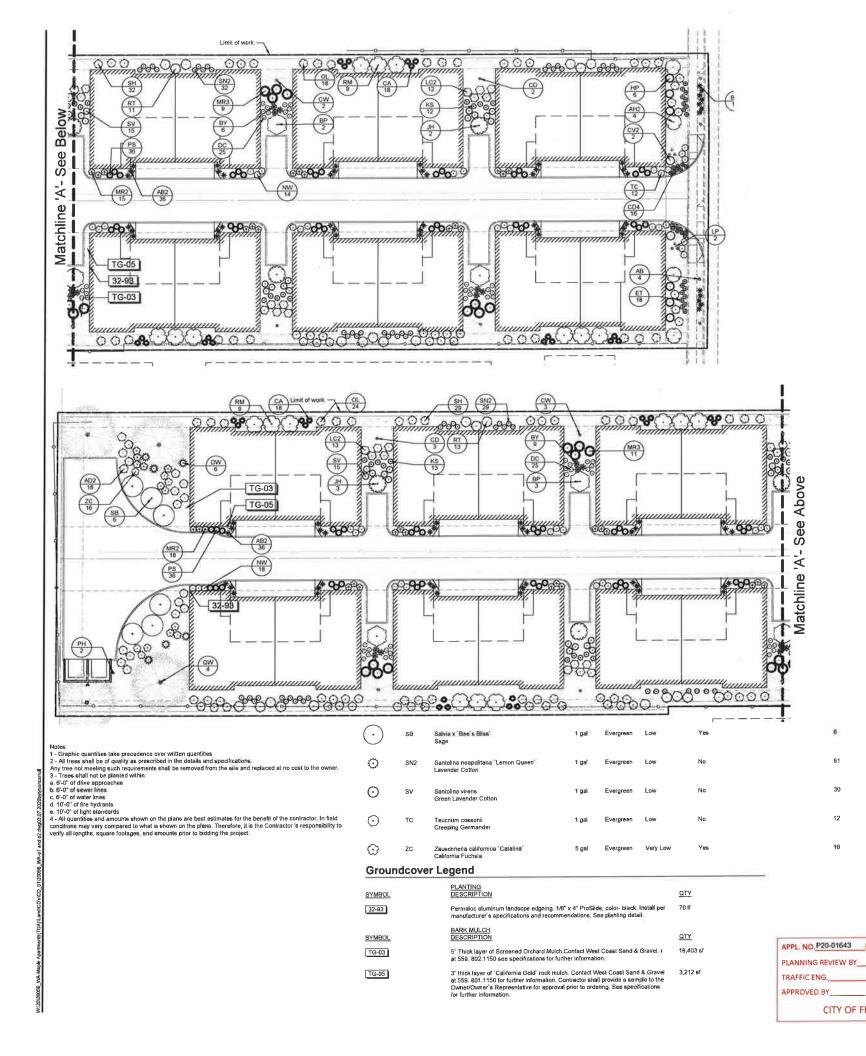
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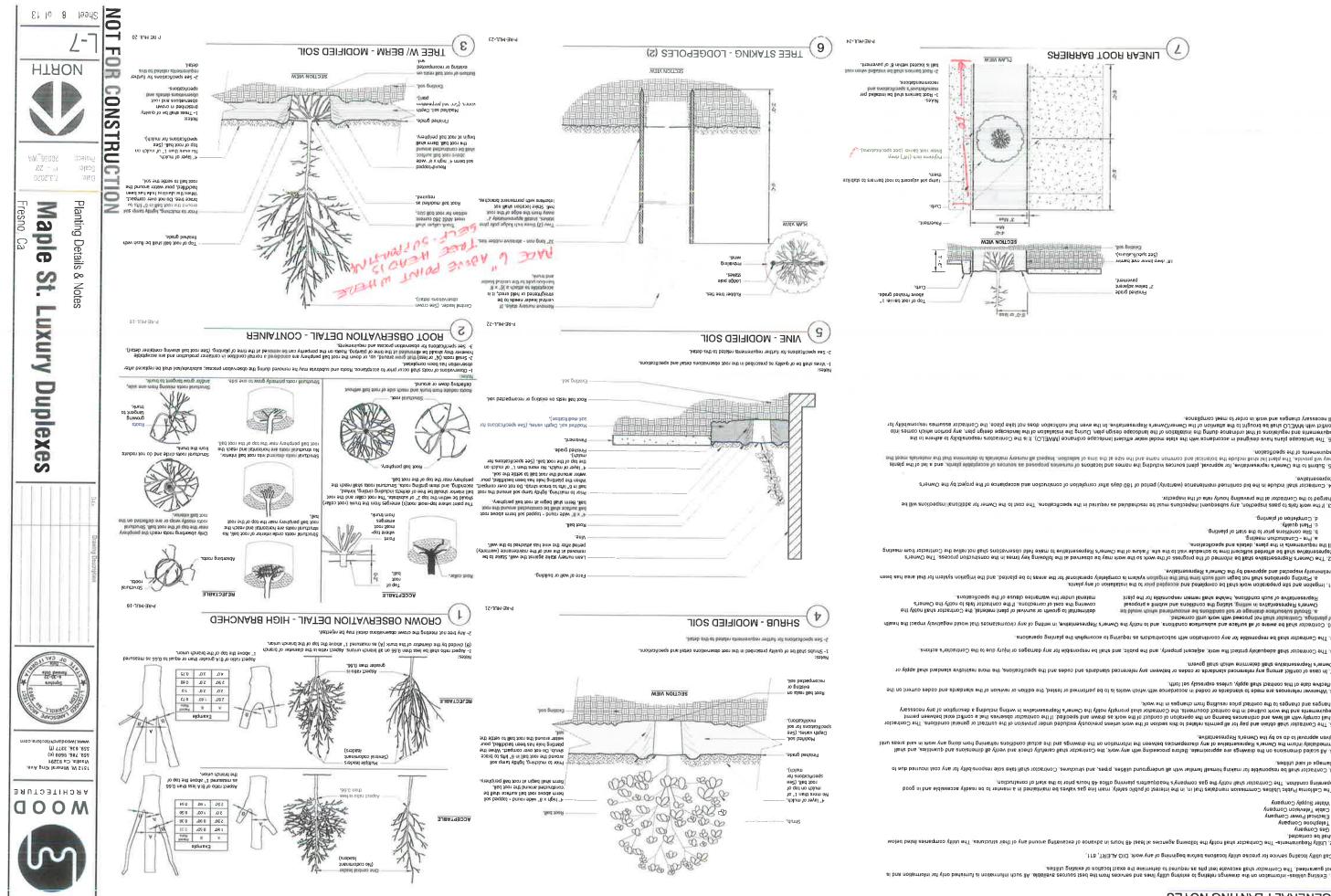
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	TREES	CODE	BOTANICAL / COMMON NAME	SIZE	TYPE	USE	WUCOLS	STYLE	CA NATIVE	QTY			
	INCEO	AB	Acer buergerianum	15 gal	Deciduous	Street Tree	Medium	Standard	No	24			S
		05	Trident Maple	15 gal	Deciduous	Accent Tree	Low	Multi	No	5			
	<u>.</u> /	CD	Thornless Palo Verde									WO	
	-940	CW	Cercis occidentalis Western Redbud Multi-trunk	15 gal	Deciduous	Screen Tree	Low	Multi	Yee	5	\sim	ARCHIT	TECT
	X	LP	Lagerstroemia indica `Purple Tower" Purple Tower Crape Myrtle	24"box	Deciduous	Accent Tree	Low	Stendard	No	2		1512 W. Miner Visalia, Ca 83	
	\odot	QW	Quercus Wislizenii Interior Live Oak	15 gal	Evergreen	Specimen Tree	Low	Standard	Yes	4		559 786 9600 559 636 3277 www.iwoodar	(=) (1)
		CODE AB2	BOTANICAL / COMMON NAME Agave x "Blue Glow' Blue Glow Agave	SIZE 2 gal	TYPE Evergreen	WUCOLS Very Low	CA NATIVE No			<u>QТҮ</u> 72			SCAPE AN
	\bigcirc	AH2	Arctostaphylos densifiora "Howard McMinn" Howard McMinn Manzanita	5 gal	Evergreen	Very Low	Yes			4		13 AL 59	seture 30-22
	\odot	AD2	Arctostaphylos x [*] John Dourley John Dourley Manzanita	1 gal	Evergreen	Low	Үев			18		Str. Os	CALIFO
	\bigcirc	BP	Baccharis pilularis "Pigeon Point" Covote Brush	5 gal	Evergreen	Very Low	Үев			5			
	*	BG	Bouteloua gracilis	1 gal	Evergreen	Low	No			12			
	影	BY	Blue Grama Grass Bulbine frutescens 'Yellow African'	1 gal	Evergreen	Low	No			15		c	
			Yellow African Bulbine Calamagrostis x acutiflora "Karl Foerster"	1 gal	Evergreen	Medium	No			36		Descriptio	
	•	CA	Feather Reed Grass	-						16		Drawing	
	⊕	CD4	Carex divulsa Berkeley Sedge	1 gal	Evergreen	Low	Үев						
	\odot	CV2	Ceanothus maritimus "Valley Violet" Maritime Ceanothus	5 gal	Evergreen	Low	Үев			2		Date	
	$\dot{\omega}$	DW	Dasylirion wheeleri Grey Desert Spoon	5 gal	Evergreen	Very Low	No			6			5
	\odot	DC	Dianella caerulea "Cassa Blue` Cassa Blue Flax Lily	1 gal	Evergreen	Very Low	No			50			Xe
	\oplus	ET	Euphorbia x martinii "Tiny Tim` Euphorbia	1 gai	Evergreen	Low	No			18			Duplexes
	O	HP	Hesperaloe parviflora Red Yucca	5 gal	Evergreen	Very Low	Үев			6			
	\odot	JH	Juniperus horizontalis `Blue Chip' Blue Chip Juniper	5 gal	Evergreen	Low	No			5			
	Ð	KS	Kniphofia uvaria Shining Sceptre	1 gal	Evergreen	Low	No			25			
	\odot	LC2	Poker Plant Leucophyllum frutescens "Compacta"	5 gal	Evergreen	Low	No			25			XII
	÷	MR2	Compact Texas Ranger Mahonia repens	1 gal	Evergreen	Low	Үев			33			-
			Creeping Barberry			Low	Үес			20			Ś
	O	MR3	Muhlenbergia rigens Deer Grass	1 gal	Evergreen					32		lan	anle St.
	\odot	NW	Nepeta x faessenii "Walkers Low" Walkers Low Catmint	1 gel	Evergreen	Low	No					Planting Plan	2n
	\odot	OL	Olea europaea "Little Ollie" TM Little Ollie Olive	5 gal	Evergreen	Low	No			42	Z	Plant	Σ
		РН	Parthenocissus quinquefolia 'Hacienda Cresper' Hacienda Creeper	5 gal	Evergreen	Low	No			2	TIC	Dale:	7.3.20
	o	PS	Pennisetum spathiolatum Rye Puffs	1 gel	Deciduoue	Low	No			72	UC	Scale: Project:	1' = 2 20056
	\odot	RM	Rhamnus californica "Mound San Bruno" California Coffeeberry	5 gal	Evergreen	Low	Yes	A11 -	NSITE	18	TB		
	\odot	RT	Rosmarinus officinalis `Tuscan Blue' Tuscan Blue Rosemary	5 gal	Evergreen	Low	No	1.	ONSITE	24	NS		
	\odot	SH	Salvia greggii "Hot Lips" Autumn Sage	1 gal	Evergreen	Low	No ,	7.20	-20	61	CO		
EXI	HIBIT L-7	DATE							RII		OR	NC	DRT
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GENERAL PLANTING NOTES

L Exading utilities- information on the drawings releating utility lines and services from the best sources svaliable. All auch information is furnished only for information is universed to strong to exact location of existing utilities.

call utility locating service for precise utility locations before beginning of any work. DIG ALERT, 811.

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seminu pies lo egeme L Contractor shall be responsible for making himself familier with all underground utilifies, pipes, and structures. Contractor shall be responsibility for any cost incurred due to

IVER Approval to do so by the Owner's Representative unteristery inform the Condition the Condition of any discrete periver in a information on the diawings and the actual conditions retraining from doing any work in said areas until 4. All scaled dimensions on the diawings are approximate. Before proceeding with any work, the Contractor shall carefully check and verify all dimensions and quantities, and shall be

. The Contractor shall obtain and pay for all permits related to this section of the work unless previously excluded under provision of the contract or general conditions. The Contra

hanges and changes to the contract price resulting from changes in the work per person of the conflict of the contract of the work as drawn and specified. If the contractor observes that a conflict axis between per requirements and the work outlined in the contract documents, the Contract or the work of the contractor observes that a description of any necess

with which works is to be performed or tested, the edition Wherever references are made to standards or coded in accordance

WAADD IIEUS UDWAA BUILUIDIDD NEUS AAN In case of conflict among any reference to standards or codes or between any referenced standards and codes and the specifications, the more restrictive standard shall apply or

. The Contractor shall adequately protect the work, adjacent property, and the public, and shall be responsible for any damages or injury due to the Contractor's actions.

0. Contractor shall be aware of all surface and subsurface conditions, and to notify the Owner's Representative, in writing of any circumstances that would negatively impact the health . The Contractor shall be responsible for any coordination with subcontractors as requiring to accomptien (he planting operations.

a. Should subsurface drainage or sol conditions be encountered which would be Owner's Representative in writing, stating the conditions and submit a proposal I plantings. Contractor shall not proceed with work until corrected.

intetive of such conditions, helene shall remain responsible for the plant

c) Indigatory and set operations work static be completed and excepted prior to the installation of any places of the and the installation of any places of the and the installation of any places of the angle of strailation of any plants

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harged to the Contractor at the prevailing hourly rate of the inspector 3. If the work fails to page interpret of a more than a more than the page of the more than a more than a difficient in the page of the owner for additional inspection.

4. Contractor shall include in the bid continued maintenance (warranty) period of 180 days after completion of construction and acceptance of the project by the Owner's

the provide The Owner's representative, for approval, plant sources including the names and locations of nurvanne proposed as sources of noceptable plants, and a list of the plants and the owner's proposed as sources of noceptable the tract the plant of will be write the provide The plant is in data write the plant owner's proposed as sources of noceptable the plant owner and the plant owner write the plant owner's plant owner's proposed as sources of noceptable the plant owner's proposed as sources of noceptable the plant owner own

Il necessary changes and work in order to meet compliance aquiterments and regulations of the tratalitation of the landscape design plan, During the installation of the landscape design plan, any portion which comes into aquiterments and regulations of the landscape design plan, any portion which comes into confiscent as the Contractor assumes responsibility for contractor assumes responsibility for the contractor assumes responses 6. The landscape plans have designed in accordance with the state model water efficient landscape ordinance (MMELO). It is the Contractors responsibility to adhere to the

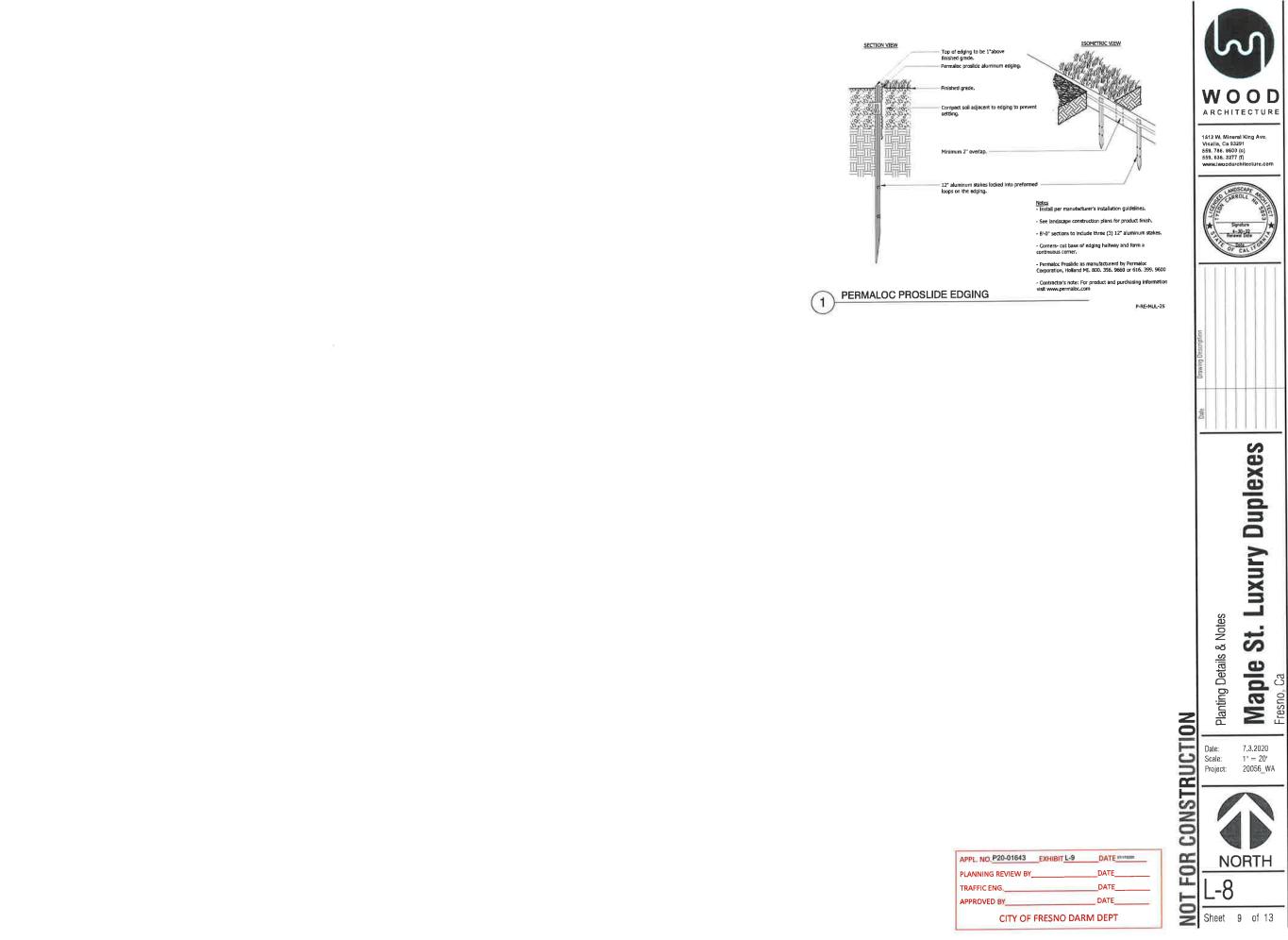
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GENERAL CONDITIONS

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I give Contractor observes that a variance oracle therewith herein shall promptly notify the property. This Constrator shall obtain and pay for all points and comply with all low and industrices located on the operation or conduct of the weith as drawn and specified. D. SURVEYS, PERMITS, REGULATIONS: The Owner shall have an elequate survey of

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P. CHÁNGES IN THE WORK. The owner may order changes in the work, and the control turn being adjusted accordingly. All such orders and adjustments plot claims by the sum being adjusted accordingly. All such orders and adjustments plot claims by the

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3.14 PROTECTION DURING CONSTRUCTION

A. The Contractor shall protect planking and related work and other site work from damage due to planking operations, operations by other Contractors or trespassers.

- Maintain protection during installation until the date of plant acceptance (see specifications section -ting). Treat repair or replace damated work immeriatals.
- Provide temporary environ control as needed to stop sell ension until the site is stabilized with multiplentings or luni.
- B. Damage done by the Contracter, or any of their sub-contractors to wisking or installed plants, or any other parts of the work or exiting features to remain, including large entirefying trans, soil, paving utilities, lapting impairsin, other minihed work and european including large entirefying and the sub-reparted or inplaced by the Contractor also expenses to the Dower. The Dower's Representative shall determine when used damary explosionemer or repairs is exilicatory. Damage to existing verse shall be essessed by a certified arborist.
- 3.15 SUBSTANTIAL COMPLETION ACCEPTANCE
- A. Upon written notice from the Contractor, the Owners Representative shall review the work and make a determination if the work is substantially complete
- B. The date of substantial completion of the planting soil shall be the date when the Owner's Reaccepts that all work in Planting Planting Soil, and Irrigation installation sections is complete.
- 3.16 FINAL ACCEPTANCE / BOIL BETTLEMENT A Al the and of the plant warrantee and maintenance period, (see Specification section -Owner's Representative shall observe the soil installation work and establish that all pro contract are complete and the work is satisfactory.
- Restore any set settlement and an incision areas to the grides shown or the drawings. When restoring soil
 grades service glams and multit and add soil settlements the planting. Do not add soil over the root balls of
 plants or not got multit.
- B. Failure to pass acceptance. If the work fails to pass final acceptance, any subsequent observations must be rescheduled as per above. The cost to the Owner for additional observations will be charged to the Contractor at the prevailing hourly rate of the Owner's Representative
- END OF SECTION 32 91 0

SECTION 32 84 00 RHIGATION

- PART 1 GENERA
- 1.1 SUMMARY
- A Irrigation system required for this work includes but is not limited to the furnishing of all labor, loals materials, applances, lests, parmits, laxes, etc., necessary for the installation of a landscape imga system as herein specified and shown on the drawings, and the removal of all dobris from the ske
- Locate, purchase, deliver and install piping, conduit, sleeves, 120 volt and tow voltage electrical and water colors, volves, backflow preventer devices, controllers, ruin sensors, spray and bubbler heads, dny inigation and associated accessories for a Utily operational automatic inigation system.
- Tranching and water setting of backfill material.
- Testing and startup of the lingation system.
- repare an as built record as a drawings
- Training of the Owner's maintenance personnel in the operational requirements of the Imigation system
- Clean up and disposal of all excess and surgius material.
- faintenance of the irrigation system during the proscribed maintenance pend B. The system shall efficiently and evenly irrigate all areas and be complete in every respect and shall be left ready for operation to the satisfaction of the Owner's Representative.
- C. Coordinate with other trades, as needed to conside work, including but not limited to Water Meter, Point of Connection (POC) and Backflow Preventer Device (BFPD) location and electrical hookups.
- 1.2 CONTRACT DOCUMENTS
- A Shall consist of specifications and its general conditions and the drawings. The intent of these documents is to include all labor, materials, and services necessary for the proper execution of the work. The documents are to be considered as one. Whatever is called for by any part shall be as binding as if called for in all parts.
- 3 RELATED DOCUMENTS AND REFERENCES A. Related Documants:
- Drewings and general provisions fications, apply to work of this sector ons of contract, including general and supplementary conditions and Division
- Related Specification Sections
- a Section Planting
- b. Section Planting So
- c_Sections Mechanical/Plumbing
- d Sections Electrical
- 8 References
- American Society of Testing Materials (ASTM): cited section numbers
- National Santation Foundation (NSF) rating system
- Irrigation Association Turf & Landscape Irrigation Best Management Practices
- 1.4 VERIFICATION
 - A. Injustion piping and related equipment are drawn diagrammatically. Scaled dimensions are approximate impaining port of vessel or upporter and or upporter and or upport of the second of th site conditions. The Contractor shall be responsible to install the work in such a manner that it will be in conformance to site conditions, complete, and in good working order.
- B. The Contractor shall not willfully install the impation system as shown on the drawings when it is obvious in the field that obstruction, grade difference or discrepancies in area dimensions exist that might not have In service discretion given better the observation of differences should be brought to the discretion of the been considered in engineering. Such obstruction of differences should be brought to the distribution of the Owner's Representative as soon as detected, in the event that notification in the Owner and Owner's Representative does not eccer. The Contrader table assume full expensibility for any ministro necessary means the distribution of the Contrader table assume full expensibility for any ministro necessary means the distribution of the Contrader table assume full expensibility for any ministro necessary means the distribution of the Contrader table assume full expensibility for any ministro necessary means the distribution of the Contrader table assume full expensibility for any ministro necessary means the distribution of the Contrader table assume full expensibility for any ministro necessary means the distribution of the Contrader table assume full expensibility for any ministro necessary means the distribution of the contrader table assume full expensibility for any ministro necessary means the distribution of the distruction of the distribution of the distributio
- C. Point and equipment is to be located within the designated planting areas wherever possible unless

PERMITS AND REGULATIONS

- A. The Contractor shall obtain and pay for all permits instrated to this section of the work unless periods/ avoided under provision of the contract or general conditions. This Contractor shall comply with all laws and unlinences bearing on the operation or conduct of the work as drawn and specified. If the Contractor bearing and the conflict davids between permit requirements and the work outlined in the contract. locuments, the Contractor shall promptly notify the Owner's Representative in writing including a scription of any necessary changes and changes to the contract price resulting from changes in the
- B. Whenever references are mode to standards or codes in accordance with which work is to be performed or tested, the edition or remains of the standards and codes current on the effective date of this contrast what apply, which otherwise expressly safe form.
- C. In case of conflict among any referenced standards or codes and between any referenced standards and codes and the specifications, the more restrictive standard shall apply or Owner's Representative shall determine which shall govern
- PROTECTION OF WORK PROPERTY AND PERSON
- A. The Contractor shall adequately protect the work, adjacent property, and the public, and shall be responsible for any demages or injury due to the Contractor's actions.
- 1.7 CHANGES IN THE WORK
- A. The Owner's Representative may order changes in the work, and the contract sum being adjusted accordingly. All such orders and adjustments plus claims by the Contractor for extra compensation be made and approved in writing before assuring the work involves.
- B. All changes in the work, notifications and Contractor's request for information (RFI) shall conform to the
- 1.8 CORRECTION OF WORK
- A The Continuistics shall measure any work that fails to contorm to the requirements of the contrast and shall remedy defects due to faulty materialise workmannihip upon written notice from the Owner's Representative, at the sonnel as possible time that can be contraded with defect work, and seasonal waterier demands. but not more than 100 (hindly) days after nutification,
- 1.8 DEFINITIONS
- A. Owner's Representative. The person appointed by the Owner to represent their interest in the review and approval of the work and to serve as the contracting authority with the Contractor, The Owner's Representative may appoint other persons to raview and approve any aspects of the work.
- 8. Substantial Completion Acceptance: The data at the end of the Flanding. Planting Soil, and Impation installation where the Obserfa Representative accepts that all work in these sections is complete and Warranty period has begun. This Gale may be different that the data of substantial completion for the other sections of the project.
- C. Final Acceptance: The data when the Owner's Representative accepts that the plants and work in this section meet all the requirements of specification. It is intended that the materials and workmanship

- warranty for Planting Planting Soil, and Irrigation work run concurrently
- 1.10 SUBMITTALS A. See the contract General Conditions for policy and procedures related to submittale
- B, Product data Submit a minimum of (3) complete lists of all irrigation equipment to be used, manufacture's brochures mance manuals, warrantees and ope/stiling instructions, within 15 days after the notice to proceed.
- a This submission may be done digitally and all documents shall be submitted in one PDF document. 2 The submittels shall be packaged and presented in an organized manner, in the quantity described in Division 1 of the specifications. Provide a table of contents of all submitted items.

e satisfaction of the Owner's Representative, including the selection of a Contractor to undertake the ir or maintenance, Repairs shell be at no cost to the owner.

For these damaged to the point where they will not be expected to survive or which are severely disfigured and that are too large to replace, the cost of damages shall be as determined by the Owner's alcohal using

D. The Contrastor shall rehain from benching within the drip has of any existing tree to exmain. The Owner's Representative may require the Contractor to relocate proposed irrighton work, bore have beneath houts or use all space technology to do grenches through and under the root system to avoid demays to existing rise not areas.

A Contractor shall carefully examine the six (record, and survey drawings to become familiar with the axisting underground conditions before digging.

B. Notification of D/G ALERT, 811, is required for all excevation around utilities. The Contractor is responsible for knowing the location and avoiding utilities that are not covered by the D/G ALERT

A. The point of connection of the irrigation system to its electrical power sources shall be prove General Contractor's licensed electrical Contractor por govorning codes at the location show drawings. The irrigation Contractor will connect the power to provided junction box or ground secondaria.

C. Section 4216/4217 of the government code requires a dig-eleft identification number be issued before a "permit to escavate" will be valid. For your dig-eleft identification number cell underground service alert toll free 1-800-422-4133 to weaking days before beginning construction.

The point of connection of the intigation system to 4s polable and or men-potentia water sources, including the main shuff viele and backflow preventer shall be provided by the Gaveral Contractor's licensed plantiang Contractor per governing codes at the location shown on the daverage. The trainium size and water pressure of the pressured line will be as noted on the impation drawing.

A. All temporary piping wining meters, panels and other related appurtenances required between source of supply and point of use shall be provided by the Cortexters and coordinated with the Owner's Representative. Existing divides may be used with the writing permission of the owner,

The Contractor shall do all cutting fitting litenching or patching of their work that may be required to make its several parts come together as shown upon or implied by, the drawings and specifications for the

B. Digging and trenching operations shall be suspended when the soil moisture is above field capacity

B. Contractor parking and material and equipment storage shall in areas approved by the Owner's

A The Contractor shall confine likely apparetus; the storage of materials, and the operations of their workers to limits indicated by the low, ordinances, or permits and shell not unreasonably encumber the premises with their materials.

A. Immediately upon the installation of any bunad pipe or equipment, the Confractor shall indicate on the progress record drawings the locations of said gaps or equipment. The progress record drawings shall be made available at any time or review by the Owner's Representative.

B. Before final acceptance of work, the Contractor shall provide an as built recent set of drawings showing the inigistic system work as built. The drawings shall be innermited to the Dwnri¹'s Representation is paper formal and a pdf fiel of active document in contract disk of filsh forms. The drawings shall inside all drawings shall incide it following and contract document in an even to reflect all changes in the work. The drawings shall incide it following shall information.

All velves shall be numbered by station and corresponding numbers shall be shown on the as built record

All main line pipe or irripation equipment including sleeves, valves, controllers, irrigation wire runs which

2. In terms may pape to implant's departure inclusing service, variante, unreasting, implant and the service includes and the service includes

3. As built record set of drawings shall be signed and dated by the Contractor attesting to and certifying the accuracy of the as built record set of drawings. As built record set of drawings shall have "As Built Record Set of Drawings", company name, address, phone number and the name of the parson who created the drawing and the contract name (drawing).

1. On the mode systex of the cover of each automatic controller, progress and mourt a color-coded shart showing the valves, mean her, and systems serviced by that particular controller. All valves shall be numbered to mode and the dearing. Dely these areas controlled by that controller and to be thom. This chart hall be aplet plan, entire or partial to being building valve, roads and walks. The plan, reduced as necessary and splate and the controller cover and be appreciable, shall be made to a sport well by the control reduced as a back will fill in the on controll cover. This prior shall be appreciable to a sport well by the control reduced as necessary of the control reduced as a prior will into the controller cover and be second to the inside back of the controller cover and be second to the inside back.

Programming chart shall be 8.5" x 11" letter size and laminated Programming chart shall include but is not

a Valve numbers and brief description of the valve use along with program associated to each valve.

. Decoder model numbers associated with each valve, pump relay, and hydrometers, if applicable

C. The Owner shall make the original contract drawing files available to the Contract

A. Provide one consoller chart for each automatic controller installed

b. Program numbers and brief description of its use

g Controller model number, if applicable

e. Ublity numbers such as the irrigation and electrical meter.

h. Booster pump make and model number, it applicable

1.25 OPERATION AND MAINTENANCE MANUALS AND GUARANTEES

Catalog and parts sheets on all material and equipment

Inigaton product manufacturers warrantees.

Complete operating and maintenance instruction for all major equipment

Moisture sensor associated to each valve and program, if applicable.

Model numbers for cell phone module or WFI module, if applicable

The controller chart shall be completed and approved prior to acceptance of the work

A Prepare and deliver to the Dwner's Representative within tan calender days prior to completion of construction. Iwo 3-ring hard cover binders containing the following information

Guarantee statement. The start of the guarantee period shall be the date the irrigation system is accepted by the Owner.

B. In addition to the above-mentioned maintenance manuals, provide the Owner's maintenance personne

A. All materials shall be of standard, approved and first grade quality and shall be new and in perfect

A. Individual types of pipe and littings supplied are to be of compatible manufacturer unless otherwise approved. Pipe sizes shown are nominal inside diameter unless otherwise noted.

All pipe shall be free of blisters, internal sinations, crecks, or any other defects or imperfections. The pipe be continuously and permanently marked with the following information manufacturer's name or Inde mark, closs and type of prepressure rating, quality control identifications, date of extrusion, and National Ganitation

C. Approval of any items or substitutors indicates only that the product(s) significantly meet the requirements of the drawings and spontiations on the lasts of the information or samples submitted. The Contractor shall be response to the submitted in the portionnes of volatized and the the contractor proves to be unsatisfactory or nci composition with other rank of the system; the Contractor shall be place and a more with the original guedricat dame, utilizing all ancessary or with and engines to targitize the terms, at whith the original guedricat dame, utilizing all ancessary or with and engines to targitize the terms, at

B. See the parts schedule on the drawings for specific components and manufacturers.

ctions for maintaining major equipment and show evidence in writing to the Owner's ative at the conduction of the project that this has been rendered.

Index sheet stating Contractor's address and telephone number, list of equipment with name and addresses

A. Provide all required system testing with written reports as described in port 3

Determine location of underground utilities and perform work in a memore that will avoid possible damage Hand excervate, as required. Maintain stakes and or markings set by others until parties concerned maturbit aren to liter communit

1. Do not begin any excavation until all underground utilities have been located and market

1.18 EXCAVATING AROUND UTILITIES

1.18 POINT OF CONNECTION

1.20 TEMPORARY UTLITIES

1.22 USE OF PREMISES

1.24 CONTROLLER CHARTS

2 Imited la

1,25 TESTING

of local manufecturers' representatives

PART 2 PRODUCTS

2.1. MATERIALS GENERAL

no coat to the owner

2.2 PIPING MATERIAL

1.21 CUTTING PATCHING TRENCHING AND DIGGING

1.23 AS BUILT RECORD SET OF DRAWINGS

Pressure main line for piping upstream of remote control valves and quick coupling valves

a. Pipe aneller than 2 inch diameter shall be plastic pipe for use with solvent weld or threaded titings Shall be manufactured rigid virgin polyvinyl extende (PVC) 1220 Type 1, Grade 2 contenting to ASTM D 1785 designated as Schedule 40.

b. Pipe 2 - 3 inch diameter shall be manufactured rigid virgin polyvinyl chloride (PVC). Type 1, Grade 2 conforming to ASTM D 1785, designated as bell gaskel Class 315.

on - pressure lateral line for piping downstream of remote control valves plastic pipe for use with solvert breaded (fittings, Shall be menuficitured ngid virgin polyving) chloride PVC 1220 (type 1, grade 2) g to ASTM d1785, designated as Clase 200, 3/4 minimum size

Steave carrying pipes and conduits under paving 2 inches in diameter and larger shall be Sch. 40 solven ald PVC conforming to ASTM D 1785.

Low voltage irrigation control wire conduit, direct burial, 1.5' in elameter and larger shall be Sch. 40 PVC solvent weld, grey in color and confirming to NEMA-TC2

Pipe shall be hot dip galvanized continuous welded seamless, Schedule 40 conforming to applicable

FITTINGS NRU CONTECT INVALID Replaying Identify post fitting and connections. Type III, Grade 1, Scheolle 40, high impact molded fittings, manufactured from vigin compounds as specified for piping learner societ or molded three hype, suitable or other e oldwirt welf or acreved downerkonic. Machine Interacted fittings and piping and farge fittings are not acceptable. Furnish fittings permemently marked with following information nominal pipe size, type and chrodike of material, and National Santilation Foundation (NSF) seal of approval IPVC fittings shall contorn to ASTM D2464 and D2468.

Bress pipe fittings, unions and connections: standard 125 pound class 85% red brass fittings and connections, IPS Unraided

D. Galvanized pipe fittings shall be galvanized malleable iron ground joint Schedule 40 conforming to applicable current ASTM standards.

C PVC Schedule 80 threaded risers and naples. Type 1 grade 1, Schedule 80, high impact molded manufastured from vigin compounds as specified for priority and conforming to ASTM D-2464. Threaded ends shall be molded threads any, Machined threads are not acceptable.

Society Control Control of The Control of the Control of Contro

B. Thread lubricant shall be Tellon roborshype, or approved equal, suitable for threaded installations as por

C. Pipe Joint Compound (Pipe dope) shall be used on all pakanized threaded connections. Pipe Joint Compound is a white colored, non-separating thread static compound designed to a sall intradiad connections against lealage date is internary loss such all Joint Am PTEP (Paylandhoosthyher) parmit a lighter assembly whito hover torque, secure parament sealing of all threaded connections a latev for any classembly whito hover torque, secure parament sealing of all threaded connections a latev for any classembly whito hover torque, secure parament sealing of all threaded connections a latev for any classembly whito hover torque, secure parament sealing of all threaded connections a latev for any classembly whito hover torque, secure parament sealing threads.

A. The backflow prevention device shall be certified to NSF/ANSI 372 shall be ASSE Listed 1013 reled to 180 degree F and supplied with full port ball valves.

C. The seat ring and all internal polymers shall be NSF Listed Noryl and the seat disc elastomers shall be

A. Pressure regulator shall cartified to NSF/ANSI 372, consisting of low lead bronze body belt housing, a separate access cap shall be threaded to the body and shall not require the use of lericus acrews

D. The essembly shall be of the belanced piston design and shall reduce the pressure in both flow and ho flow conditions.

A. A heavy-duty steel mesh cage with rust proof linish. The caging shall be sized to allow space for the entire piping assembly associated with the Backflow Preventer unit, and all associated equipment.

A. Water harmmer arrester shall be a single copper piece with a one - inch (1") threaded lead free bress

B. Water harmer ension shall have a polypropylene piston, EDPM o-ring seal and brass NPT threaded connection.

A. Ball valves for 3/4 inch through 2 - 1/2 inch shall be of Sch 80 PVC, block, tru-union design with EDPDM

Ball valves for 2 inch and larger shall be gate design and shall be iron body, brass or borze mounted AWMA gate valves, and shall have a clear valuary output to the (Anominal downeting of the valve, and shall be rubber gate its, flanged or machanical joint only, and shall be able to writestand a continuous working measure of 150 PSI (Valve Intal be acquiped with a square-pending rul.

C. All ball valves located in a valve manifold shall be the same size as the main line (1-1/2 inch size minimum). Provide pipe - tocking adapters down stream of valves, as required. All ball valves in line shall be the same size as the pipe

A. Remote control velves shall be electrically operated, single seet, normally closed configuration, equipped with flow control adjustment and capability for manual operation.

B. Valves shall be actuated by a normally closed low wattape solenoid using 24 volts, 50/60 cycle solenoid power requirement. Solenoid shall be spoxy encased. A union shall be installed on the discharge end.

C. Remote control valves shall be wired to controller in same numerical sequence as indicated on drawings

A Pressure regulating basket filter shall have an operating range of 5.0 to 20 0 gallons per minute

C. Pressure regulating basket fifter shall have a 200 mesh stainless steel filtration mas

E. Pressure regulator and basket shall come with a filter replacement indicator.

A. Master Control Valve shall be compatible with the irrigation controlle

B. Master control valves shall be as indicated on the shawings.

A. Flow sensor shall be compatible with the irrigation controller

Swing joint shall be low density poly tubing 0.49' in diameter

A Flow sensor shall be as indicated on the drawings.

Swing joints shall be pressure rated to 150 PSJ

5 See irrigation details for sice and diameter of swing joints

k. Internal Paris: Corrosion resistant

Swing joints shall be either 14" or 14" in size

A. Pop-up spray bodies or bubblens

Pressure regulating basket filter shall regulate pressure to 40 psi and have an infet pressure between 15-150 psi.

D. A Sch. 80 mate adapter and threaded union shall be installed upstream and downstream of the pressure regulating backet filter.

A. Fixed bubbler emitters with emission rates between $\frac{1}{2}$ gallon per hour up to 2 gallons per minute.

C. Water Hammer arrestor shall be designed to operate on all domestic and commercial times with a minimum 150 PBI working pressure.

D. Water hemmer arrestor shall be the manufacturer, model and size as indicated on the drawings

B. The cage shall include the manufacturers' standard lamper proof locking mechanism.

D Backflow Preventer Cage type manufacturer and color shall be as indicated on the plan

B. The main body and access covers shall be low lasd bronze (ASTM B 584)

D. Backflow Preventer shall be as indicated on the drawings

B. The main value body shall be cast bronze (ASTM B 584).

E Pressure regulator shall be as indicated on the drawings

C. Provide a norwate taxe as detailed on the drawings.

D. Ball valves shall be as indicated on the drawings

2.12 PRESSURE REGULATOR & BASKET FILTER

). Remote control valves shall be as indicated on the drawings

C. The access covers shall be bronze (ASTM B 584 or Brass ASTM B 16)

C. Galvanized pipe shall be used for above ground connections to backflow prevention devic hose bibs, and booster pumps and as shown on the plans and details.

2

2.4 FITTINGS AND CONNECTIONS

2.5 SOLVENT CEMENTS AND THREAD LUBRICANT

itting manufacturer and pro coment shall be light blue.

2.6 BACKFLOW PREVENTION DEVICES

2.7 PRESSURE REQULATOR

2.4 BACKFLOW PREVENTER CAGE

2.9 WATER HANNER ARRESTOR

seals and o-ring

2.11 REMOTE CONTROL VALVES

2.13 MASTER CONTROL VALVES

2.14 FLOW SENSOR

2.15 SWING JOINTS

2.16 BUBBLERS

1 Description i Nazzle ABS

2.10 BALL VALVES

- Clearly identify on each submitted sheat by undariming or highlighting (on each copy) the specific product submitted for approval. Failure to clearly identify the specific product being submitted will result in a rejecton
- for the entire submittal. No substitutions of material or procedures shall be made concorning these documents without the written consent of an accepted equivalent by the Owner's Representative. Equipment or materials instelled or turn/shed without prior approval of the Owner's Representative, may be led by the Owner's Representative and the Contractor shall be required to remove such materials from the site
- 5. Approval of substitution of material and/or products, sither than those specified shall not releve the Contractor from complying with the requirements of the contrast documents and specifications. The Contractor shall be responsible, at their own expense, for all changes that may result from the spervoid subbitutions, which effect the installation or operations after times of their own work and/or the work of after Contractors.
- C. Samples: Samples of the equipment may be required at the request of the Owner's Representative if the equipment is other than that specified.
- D Other Submittals Submit for approval Documentation of the installer's qualifications
- a. Contractor's License
- 2 As built record set of drawings
- Witing diagram
- Controller charts
- Colored zoning charts Show each imgation zone and the valve it is controlled by.
- Controllar imgetion schedule | Indicate zone run times, zones for each program, program run times, times ays of operation, flow menagement information and soil moisture sensor settings, if applicable |
- 7. Testing data from all required pressure letting.
- Backflow prevention device centification. Certification from the manufactures or their represe low prevention device has been installed correctly according to the manufactures requirements.
- In Impation controller contribution: Certification from the manufacturer or an authorized distributor that the Controller has been installed contextly according to the monufactures requirements.
- 1.11 OBSERVATION OF THE WORK
- A. The Owner's Representative may inspect the work at any time. They may remove samples of materials for conformity to specifications. Rejected materials shall be immediately removed from the site and replaced at the Contractor's expense. The cost of leasting materials not meeting specifications shall be paid by the Contractor.
- B. The Owner's Representative shall be informed of the progress of the work so the work may be observed at the following key limes in the constitution process. The Owner's Representative table as efforded sufficient time to schedule visit to the sche. Failure of the Owner's Representative to make field observations what not allow the Constant's non-marks all the representative to make field observations what not allow the Constant's non-marks all the representative to make field observations. If the Constant's non-marks all the representative to make field observations what not allow the Constant's non-marks all the representative to make field observations what no states the Constant's non-marks allowed and the schedule observations.
- Trenching directional boring, and sleeving review
- Hydrostatic pressure texting.
- Valve manifolds, tateral lines, and emiliars
- Sensor installation and controller operatio Adjustment and coverage test
- Pre-maintenance observation
- Final acceptance / system malfunction corrections
- 1.12 PRE-CONSTRUCTION CONFERENCE
- A. Schedule a pro-construction meeting with the Owner's Representative at least seven (7) days belt beginning work to review any questions the Contractor may have regarding the work, administration provedures during construction and consistent work schedule. 1.13 QUALITY ASSURANCE
- A. It is the intention of this specification to accomplish the work of installing an automatic irrigation system which will operate in an efficient and satisfactory manner. The irrigation system shall be installed and mean mu sparane man ensume are semistatory manner, in strigaton system scan be installed and made operational according to be workmanike standards established for landscape installetion and sprinkler inigation operation as set forth by the most recent Best Management Practices (BMP) of the trigation Association.
- B. The specification can only indicate the intent of the work to be performed rather than a detaile description of the performance of the work. It shall be the responsibility of the Contractor to install sail materials and equipment in such a manner that they shall operate efficiently and eventy and suppon optimum pient growth end handth...
- C. The Owner's Representative shall be the sole judge of the true intent of the drawings and specifications and of the quality of all materials furnished in performance of the contract.
- D. The Contractor shall keep one copy of all drawings and specifications on the work site, in good order. The Contractor shall make these documents available to the Owner's Representative when requested.
- E. In the event of any discrepancies between the drawings and the specification, the final decision as to which shall be followed, shall be made by the Owner's Representative.
- F. In the event the installation is contradictory to the direction of the Owno's Representative, the installation shall be extilled by the Contractor at no additional cost to the Owner. The Contractor shall immediately bring any such discrepancies to the attention of the Owner's Representative.
- Q. It shall be distinutly understood that no anal statement of any person shall be allowed in any moment is modify any of the contract provisions. Changes shall be made only an written authorization of the Own
- H, Installer Quakfications. The installer shall be a firm having at least 5 years of successful expensions of a scope similar to that required for the work.
- a. Installer Field Supervision. The installer shall maintain on site an experienced full-time supervisor who can communicate in English with the Oviner's Representative. Submit the installer's qualifications for approval.
- 1.14 IRRIGATION SYSTEM WARRANTY.
- A. The Contractor shall Warrantee all workmanship and materials for a period of 1 year (s) following the

1.15 SITE CONDITIONS

1.17 PROTECTION

1.16 DELIVERY STORAGE AND HANDLING

C. Siting in accordance with the manufacturers' recommendations.

progress of the work

acceptance of the work Any parts of the impacton work that fiels or is defective shall be replaced or reconstructed at no expense to the Owen including bat not include to: replacing grades that have satisfied in throches and eccentrions, refield to the work. Reconstruction that includes any plantings, soil, multich or other parts of the constructed landscape that may be demanded during the repear or that replace that may be demand.

8 The date of acceptance of the work and start of the Guarantee period shall be determined by the 0 Representative, upon the Ending that the ontro impation system is installed as designed and spec and found to be operating correctly, supplying water every to all planting and/or taken areas.

C. The system controller shall be warranted by the equipment manufacturer against equipment mailunction and defects for a period of 5 years, following the acceptance of the work.

D. Neither the final acceptance nor any provision in the contract documents shall releva the Contractor of responsibility for faulty material or workinametry. The Contractor shall remedy any defects within a period of 7 days (s) from the date of notification of a defect.

A. It is the responsibility of the Contractor to be aware of all surface and sub-surface conditions, and to notify the Owner's Representative, in writing, of any circumstances that would negatively impact the installation of the work. Do not proceed with work with unsatisfedary conditions have been corrected.

A. All materials and equipment shall be stored properly and protected as required by the Contractor. The Contractor shall be entirely responsible for damages or loss by weather or other cause to work under the

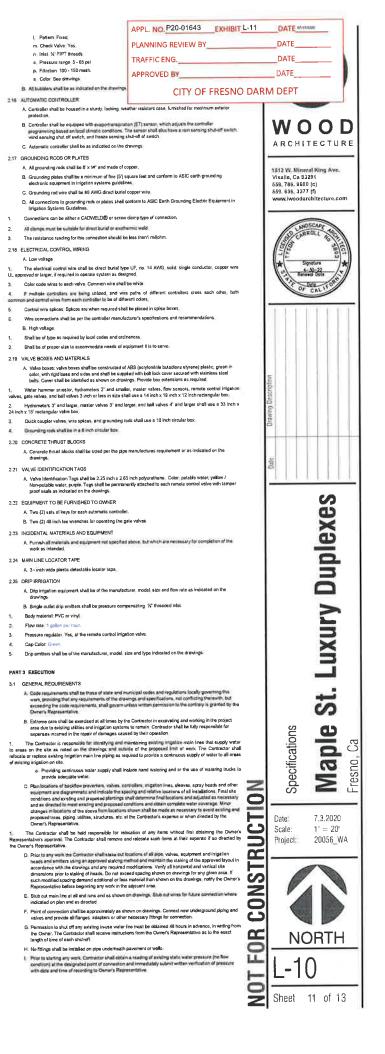
contract. Neterials shall be jurnished in ample quantities and at such times as to ensure uniterrubled

B Deliver the products to the job sits in their original unopened container with labels intact and legible at line of use

A. The Contractor shall continuously mantals adequate protection of all their work from demage, destruct or loss, and shall protoch the overan's property from demage arising in connection with this contract. Contractor shall make good any such damage, destruction, loss or injury. Contractor shall adequality protect adjection property as provided by Jaw and the contract documents.

B. The Contractor shall meintain sufficient safeguards, such as rollings, lemporary walks, lights, etc., spains the occurrence of accidents, injuries or damage to any person or property resulting from their work, and shall alone be responsible for the same if such occurs.

All all off to the polytic service across exponent or plant methods and the protected at all times, including the impation system related to splarts, from damage by workers and equipment. The Contractor shall follow all protection requirements including plant protection provides of the general contract documents. All damages shall be majored or related to the Contractor sepress. Repair and or replocement chall be



ISO COVEREDO LOSI

presoure and during immer ratio overspray and walks. Koadways and buildings when under manuer operating. 2. Adjust all spinivas have a for a overspray and walks.

ADJUSTMENT AND COVERAGE TEST ngen de normal de la server en anne stemme Temme Temmete were no server box. Provide encough height of wire to make a loop and attach wire marker with the designation "pacer wire".

2. The tracer wire shall be placed on the bottom of the trench under the vertical projection of the pipe with spaced joints soldered and covered with installition type tape. WAR WAR AND AN ADVANCE NAMES AND A

bits up have a reason which as a reason which we would be reached as the reason of the reason were and the reason of the reason reas -----

angery date day is have of аці Ад ралоніків роціани в бигалірі, ход алівлі јо бој на звідні зарочнат на рим зарин

Convelopment of the provided after compaction of all trenches. Finel portion of gravel anell be pleced inside valve box after valve is backfred and compacted. is inter all the second dates in edit thes to you at the light it is saxod eviev

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ia lo service eách velve in system a(s) per contreller

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Anete practical. The wire shall be bundled and secured to the lower quadrant of the Irench at 10 fool Anete practical and an experimentations. r Control wing between controller and electrical valves shall be installed in the same french as the main line PREMA NOT

BUUMA

Contractor shall be approved and for provident and the controlled in the control of provident of the insulation is Contractor shall be approved and for insulation of the controlled in the control of the insulation of Connections to control wring shall be reade within the podestal of the controller. All wre shall follow the preserve main insoler as possible.

2. Controller shall be tested with complete electrical connections. The Confroetist shall be responsible to temporary power to the controller for operation and testing purposas

yound without mode an economy administry of substances of batternos ad Barls aevier lattogo adminik-รมลแอสมอว บอเซอินม 🤄

c) and second properties of the second se

Grounding devices cannot be located in the same trench as the impation mainline. Grounding devices shall be located aight (eat (8) to ren lear (10) away from the lightning areason

Crounding devices shall be much as shown in the details at locations shown on the drawings Select to box gribhulos

5. Start stourout the bubbler and swing joint shall be water settled to remove air pockets so that imgention water runs. i Alista in a agoiwanb anti no balangueba arkivantio seola un basa diarni ali relizionargia di se ad lanta rakabud Al

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Single -

anni yawa (13) away una maximum a bina (1) and a minimum at one (1) and a maximum at three feet (3) away from Una remote control ingation valve.

springlor & basket filter as indicating in the drawings reserve and to mean demonds three meanings beliefern as flare engine 05 more time wateries aliver 05 mold. A. 2

Install one (1) preserve regulation/filter per velve box. mate tooland & solutions museur?) (C

A listic process of the second secon second sec

B. Remote control valve maintaide and quick couples valves eavier and the second of value of a quick couples with WAYER YORK OC MERLING

et is batest or fairly encloser on noisigits. Along a see grave and more than the holder of at 1979. 2 and or data for the set of the second provided provided and and or the second provided at the second provided provided provided at the second provided provide a. For 2-whe systems solehood wres shall be connected to the 2-whe path and controller decoder. approved connectors

av/ev rectagrin formus etterne ert fo maarterveds belatteri ed Bartz norvulde intil A. . 8 eview noilegimi knihoo etomen erit to meestaqu belikaları ed literte seview lited nonu-uri 08 xb2 A X

Trafestion (ed exter jointop elone) eno getter Ramote control valvee

5. Arreator may be installed either parallel or perpendicular to the mainline pipe. Lines shall be flushed (horoughly pror to the mitaliation of the ansator

08 rb2 ed litera equi bre rotaerre edi mon bre si ensistennos 44 . 5 regard retension when so have another may be be with the

A mater state in the book of the state water in the master valve/mycometer and the backgow prevention device in a painting area. The mount dialateries between amelior can be located between both process of equipment is two field [7] on either state. STREAM ADMIRTH 2010

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egnivers of in or basing the strong as the socation (s) and as designated and defailed on the drawing Verify all locations with the Owner's Representative.

paits of the design, obtain the Owner's Reptice entative's written subfactation and approval for any modificatione. ing with the man taylong with to an environment of a man of balance of factors having up to be a set of the se General

THENRINGE TO NOITALLATENI

ل الله دمقا ما علا بعدسم بعدةمتقامم سمنة عليها أنه الله تعوممتها إلا ما ثلاثة التروعادم الاصدام سافعة الته تتقصم الأس الله وعباسم سعة لكم وتحدسمية عوتعصمتا, اعتا لم الله ويقصفنا وتحويط بقا ما مناوعات محاسبات المعاد المحدمين YOM BUILD alialisme gnates as a state shall be instantee and with stand materials quality and thickness as assisting maleri Shandg realonston on tall be performed by the project parting Sub-confristion or an approved Centractor SNB al in Parving realonston

A filterine all surfaces and report entating under grading one damaged or cut as a result of the en-their original condition satisfactory in the Commit Representations.

STANDARD REPORT AVAILABLE OF T

C. Any setting of basing matriced during the matchington or semantly period shall be reported at the Contract Any entering, inducting any matched during the report of and, prior and plant matched or periors surfaces.

C. Finally grade of all interches shall conform to adjacent grades without dops or other integularities. Drapase of excess vol ar others of the static conformation expense.

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A. Related Documents:

23 RELATED DOCUMENTS AND REFERENCES

Sheet 12 of 13

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Q. The Contractor shall require the grower or re-wholesale supplier to permit the Owner's Representative to observe the contractor shall require the nursery or tob site error to elariting including random removal of soil or the cost system of all beints at the nursery or tob site error to elariting including random removal of soil or

Trom where the trace were obtained by the re-whole-cale selfer. The re-wholespla prureary shall be responsible (a) any required prant, can be proved to the provided the response of the respo

Treas shad be purchased from the growing rursary. Re-wholeade plant suppliers from a growing rursary. Yhmin Lufers the Contractor can carfed that the required teast are not directly svalable from a growing rursary. Athen An end of the contractor can be also be

5: Submit processing and processing and processing the processing induction of processing and
The Owner's Rigordevolative anay make invasive observation of the plant's tool system in the area of the root. The Owner's Rigordevolative anay make invasive observation at the plant meaks the quality requirements for depth of the too' collar and preserves of roots above the root collar. Such observations with not hear make Heart

3. Provide Section The Owner of providence and the Section of t

shali natipevani dhat komi bian komi aka nati biat the perit that the plant quality changes or prevously avising defects become apparent that were not observed:

A. The Owner's Representative may review all plants subject to approval of size, insuling character, etc. Review or special of the plant subject set and subject to approval of size, insuling representation of the Review or special share the real statement of the plants and section of the plant plants and subject insulation.

Z. End of Warranty Final Acceptance will be given only whell and requirements of the work under this specification and in specification sections Planking Soli and Intigation have been met.

B. End of Warranty Final Acceptance - Acceptance of plants at the and of the meruly pendu-

(4) the end of the contraction. The iscuest shall be received at least ten calendar days before the anticipated data request of the Contractor. The request shall be received at least ten calendar days before the anticipated data request of the contractor.

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8. The winner of all representations from a trained for an additional one-year period from the date all trainers of all representation and approximation of a comparison of the and main additional one and year of the and main additional one and year one holds ensement and main additional one additional and additional one additional

A provide a state cost to the cost of the same software of the same species. Represented a state cost to the Owner, and recensing the same species and the owner, show all necessary repairs and the same species and the owner.

8. The domination is any more than the substantial domination of comparison of comparison of comparison of substantial of standard by a substantial domination of comparison of compa

5. Any work as also provide the second on the characteristic allocated and second plant programs of the second plant allocation are second as the characteristic and the second plant allocation of the second and the second allocation of the second and the second allocation of the second and the second allocation of th

Flants determined to watercover shell be removed immediately upon nonfication by the Owner's representative and replaced without cost to the Owner, as soon as weather conditions permit and within the specified behive activity

A before she also were the more than the processing of the sector of the

Nitren Line work is accepted in parts, line writering yeareds shall extend trom each of the particle Scholardia Comparion for Accepted in the International of the line Line Line Line and Warrand Prince, all warrandy periods for each dates of plant warrandy shall formulate at one time

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. The Contractor agrees to replace defactive work and defactive plants. The Owner's Representative shall make The final defarmention if plants meet these specifications or that plants are defactive.

5 Submit releases of past projects, employee (valiming certifications fibst support that the Contractors meets all of the above reliable qualitations and applicable incensures.

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i instalen's field supervisor shall have a minimum of they years experience as a field supervisor install field and lease of the quality and scale of the proposed project, and can communicate in English with the Owmer's Ropresentative

2. Installer Field Supervision When any planning work is in progrees. Installer shall maintain on sile, a full-lime supervisor who can communicate in Englikh Mith the Owner's Representative

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Contractor's Quality Assurance Responsibilities. The Contractor is solely responsible for quality control of the work.

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3. Any plants that are deemed defective as defined under the provisions below shall not be accepted.

I. Once the Contractor completes the institution of all items in this section, the Owner's Representation and some the Contractor completion Accessing the Contractor observe all work for Substitution Sciences and some the contractor observe all work for Substitution Sciences and Sciences

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2 COMPLETION OF THE PLANT LAYOUT STAKING Review of the plant layout

A Substantial Completion Acceptance - Acceptance of the work prior to the start of the warranty pened

avitatine context of a work under this section shall be approved by the Owner's Representative.

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D. All plants that are rejected shall be immediately removed from the site and acceptable replacement plants provided at no cost to the Owner.

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PRE-CONSTRUCTION CONFERENCE

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Corrections are to be undertaken at the nursery prior to shipping

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A. The Owner's Representative shall be informed of the progress of the work so the work may be observed at the control and y more than the information of the progress of the work so that and the progress of the sound in work of the sound in work of the progress of the sound in work of the sound in t

A The Owner's Representative may observe the work at any time. They may remove samples of maintails for conformity to specifications, Rejected uniteralis shall be immediately removed from the sub and replaced at the conformity to specifications. The cost of leating maintains to meeting specifications shall be paid by the Londactor of the cuties of the cost of leating maintains on meeting specifications shall be paid by the Londactor of the cuties of the cost of leating maintains of the cost of leating maintains and the sub-contraction of the cost of leating maintains of the cost of leating maintains of the cuties of the cost of the cuties of the cost of leating maintains of the cuties of the cost of leating maintains of the cuties
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l, Mainterance period. The time period as defined in this specification, which the Contractor is to provide mainterance

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C. Delective plant: Any plant that tails to meet the plant quality requirement of this specification.

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B Container plant: Plants that are grown in and/or are currently in a container inducting boxed trees.

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The Constraicts, all hard own cost shall be all versection any variable for all of continue to the request of a constrat de radiation and own cost shall be all variable or workmanely any more written value (rom her Dware Ropesentations of the soonest as possible inter that can be constrained with the source of the source and any s

B. All changes in the work notifications and contractors request for information (RFI) shall conform to the contract general condition requirements.

A The Owner's Representation may order changes in the work, and the contract sum should be adjusted proceedings. All such usins used approximate plats claims by the Contraction for exists compensation must be and approxed in writing before several plat work involved.

C. In case of conflict among any referenced standards or codes or between any referenced standards and codes and the specifications, the more restrictive standards shall apply to Owner's Representative shall determine which shall

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A It such a memory on the second strategories and such as the second strategories of the second strategories and the second strategories and s

Closesty of Aboricultural Terms International Society of Albanculture. Champagn IL most current edition

3. Pruning practices shall conform to recommendations. Structural Pruning A Guide For The Green Industry most current action, published by Unbar Tree Foundation, Visable, California.

b, Manual of Woody Landscape Plants, Michael Din; Shipes Publiching, Champaign, Illinois; Mosi Current Edition

5 Interpretation of plant names and descriptions shall reference the following documents shall persult participants of plant documents and descriptions of plant and as of plant documents and persult provides of the most of the most of the provident of plant documents of the example of the provident of the pr

ANSI A 300 - Standard Practices for Tree, Skrub and other Woody Rank Mainteenance, most current addion and

For the set of the

ا. State of California, Department of Food and Agriculture: Regulations for Nursery Inspections. Rules and Grading.

Fonda Grades and Standards for Nursery Slock, current edition (Florida Department of Agnouture, Tallahaseee FL)

c. The New Sunset Western Garden Book, Oxmoor House, most current, edition

USDA - The Gamping methods methods of ADD 6

notable Inerror Jzorn Starts vires for Nursery Stock moviem 4 h DSX ISNA

A. The Contractor shall adequately protect the work, adapted property, and the public and shall be inspected any damages or mjury due to his/her actione

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F. Close out submittale. Submit to the Owner's Representative for approval.

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Normal: the prevaiing protocol of industry standard(s)

F Kinked root: A root within the root package that bends more than 90 degrees.

A. See contract general conditions for policy and procedure related to cubmittaly.

boned themewierd principle straid bethody We to extensions M. . X

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A Maintenance of all specified plants until the beginning of the warranty period.

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2 Water all specified plants

T. Locate purchase deliverand include listed plants

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The Carriador shall show anderca that the Owner's Representative has received all charts records drawings C. The Carriador shall show anderca that a cogramoe

B The Convictor thall show all constiters made inon purch list. Any items deemed net assertable shot ite reworked and the maintenance period will be extended.

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maker noted in and to she hand on a contract to so the sector system.

A when a child of the Plant Warrentee and Mainteeners period. (See specification rection Planting) the Owner's De motection of the system is worked outside that is provisions of the impate outside and compare and the system is working correctly. 219 FINAL ACCEPTANCE / \$YSTEM MALEUNCTION CORRECTIONS

3. The date of substantial complete more than impact and libra interface when the Owner's Representative accepts the law work in Planting, ("Planting Coll, and Install be the state to accept the complete.") A The date of substantial model with compare the overlap of the date of the work and model and the contractor the Owner Representation of the date of the date of substantial consistence.

BOD STANTIAL COMPLETION ACCEPTANCE

B. The maintenance period for the irrigation system shall coincide with the maintenance period for the Pranting specification section "Planting" Al the and al the maincheance period, lum over all operations logs, immunds, instructions, schedules, frequent any other equipment necessary for operation of the impactor system to the Owner's Representative who will assume response to the operations and maintenance of the impactor system.

During the fact werk of the maintenance period, provide equipment familiarization and instruction on the table operations of the system to table more theorem all counciles of the maintenance from a system for the more At the period of our maintenance period from each all counciles of the more and the maintenance of the more and the more and our more and the more all counciles of the more and Restants of all forming changes to control tables from end all established to freed acceptions and for each of each of each of the acception of the control back and under the other of final acceptions of the acception of the ac

ل قصفتها maintenance period shall begon immediately after installation of impabon system. The general ma the maintenance period shall include the following

COMPACT CENERAL AND THE WANTERNAM JAPANED 11.6 B. This is not final acceptance and does not relieve the Contractor from any of the responsibilities documents.

. Oreal the arrive system shall be completely intaken and spensional and all fair variabiling all feine to be concreted and the peginning delta of the markenence period. The beginning delta of the markenence period. NOLLYABBOD DOWNELING - Bed SIT

elbammi viow degemes aspide or internet. Treat, repair or repieres damaged work merue. Mandam protection during installabon until Acceptance until tradimient or repair is salistactory. The Owner's Representative Shell defermine when such tradimient, inspecement or repair is salistactory.

A. The Contractor shall protect installed imgation work from damage due to operations by other Contractors or Instantants

NOITOBTOPP 21.6 7 Namova and disposa or all excess soil, packaging, and other material brought to the site by the Contractor.

he work or other to grades rule, and damage to the work or other work at the site . B. Once matellation is complete, wesh all soil from pavements and other structures,

in mediality dean up any spilled or backed soil (uel oil bash or debns deposited by the Conitacior from all bruedes within the project or on public right of ways and neighboring property. horihorozáné na se n A. Dunng installation, kase plas se of tradition containers from the set on less than once a week. Ist the ond of sect day. Remove tradition of states in containers from the set on less than once a week. SIN CLEANUP

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JIOS DNITWAJE RO FIAGES ELE 9. Contractor and Owner's Representative shall observe the site one day after controller operation through programming to verify system operation and no water runsifi has occurted or beaks were present.

C FJOW VARANCE

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. Assign contract date and time to the controller.

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STOW NOW SIGNS

7. Establish system parameters for how the controller is to operate when detecting an error, such parameters shall include but and model to. عد المرابقة الم

4 Convect versions control infigation values when to the assigned value ports in the controller. In the value control infigation is 2-wide assigned the respective decoders for each value to the controller.

2. Prior to the beginning of the maintenance penol the controller shall be programmed by the Contractor and approved by the Owner's Representative.

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The Contractor at no additional cost shall inmediately correct all unauthormed changes or inproper installation practices

In the constraints of the state
a fithe intigation system is 2-wire assign the respective decoders for the hydron-star or flow si value to the water source.

Connect hydrometer or flow sensor and mester velve wires in the controller to the sensore ports

WERE AND THE STREET THE ROLLING WAR WITH THE T o rebel each velve and give a brief description and location.

γρατε αυλ ακταλητίας απροτή γεί μια πράτρω είνης τμαι πώστιαση σοι το ωσορίαση διαμουδί σοι αί τρια πού το συμ (εξ.) το μετά πουγκαι το αυξί πολος. Υρικτο βολς ήμιτά ξικάλει το είναν το μολούσιας το πονοίχιας φίλουμαδ αυξ Βάστοι αποστά στης βολαγιαζίας το αυξί π	
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Flow management has been enabled so in the event of a mainline or lateral line break the system will shut	
the factor and offset are correct based upon its flow sensor model type and size a	
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a backflow preventer shall be tested according to procedures and results per the requirements of the undation for Cross-Connection Control and Hydraulic Research, University of Southern California or American.	93 °
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er fluging, and the installation of valves the following tests shall be conducted in the sequence listed below	AK A
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e and aquipment. Remove plugs when necessary to flush of complete system.	did
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. Concrete thrust blocks shall be constructed behind all pipe firmage 1-1/2 inch diameter and larger at all changes of direction of 45 degrees or more.	
Stopes grideet evil to leverage neither and grideet obtaind days to mainlighted by leases and benevators	
Discrete load pipe at 10 feet on the prefinition with stand all pipe joints (fittings and connections are to remain under pressure, Other (here the main prefinition packet) all pipe joints (fittings and connections are to remain	
No close nipples or risers are allowed. Cross connections in piping is disallowed.	
stall be protected from tool demage during assembly. All demaged pipe shall be removed and replaced. Take up liveaded joints with light wrench preseure.	
eqP strict behavior of the base of ten lists thereas ages noted price each ad lists atrict age behavior	
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(הער אקע 9 אלפאר אינטרט). היה אינט 9 אלפאר כיהוד ארות בוופא היה והפתיג אותו ואת (ד) איניליים היו באתו ופלים צויה וווינות הליוופו את לארפ הופ	
4. Hereis to metal connections areal be made with plastic adapters and it necestary, short (not close) brass threeded_ripples, Connection shall be made with two (2) wage of Tefnon lape and hand trightened plus one	
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2 Pipe shall be cut using approved PVC pipe cutters only. Sawed joints are deallowed. All field cuts shall be	
where we do or translated pairs for prior taking a scoridance with memulated with specifications. L. Imatabation of all pipe and fiftings a stat is accordance with memulated with specifications. D. Pipe almal be cut using approved PVC pipe cutara only. Saved joints are deallowed. All field cuts shall be terminated an environ form and means tedrament plang.	
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B. The Contractor may directional bore times where it is practical or where required on the plane.

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TRENCHING, DIRECTIONAL BORING AND SLEEVING

17. SITE CONDITIONS

A it is the responsibility of the Contractor to be aware of all surface and sub-surface conditions, and to noiby the Owner's Representative, in writing, of any incompliances that is used negativity enqual the health of plantings. Do not proceed with work unit uncelligations conditions have been contracted.

Drougl subsurface changes or sel conditions be encountered which would be determined to grawth or survival of plant the Contractors hall notity the Owner's Representative in writing tailing the conditions and submit a propeet covering contractions. If the Contractor (as is to notify the Owner's Representative of such conditions, heating shall remain ble for plant material under the warranty clause of the specifications. cost of co

- B. It is the responsibility of the Contraction to be familiar with the local growing conditions, and if any specified plants will be in conflict with these conditions. Report any potential conflicts, in writing to the Owner's Representative.
- This specification requires that ell Planting Soil and Irrigeton (if applicable) work be completed and accepted prior to the installation of any manis.
- Planting operations shall not begin unit such time that the irrigation system is completely operational for the area(s) to planted, and the irrigation system for that area has been preliminantly observed and approved by the Owner's

D. Actual planting shall be performed during those periods when weather and soil conditions are suitable in acc

- Do not install plants into saturated or frozen soils. Do not install plants during inclement weather, such as rain or snow
- 1.18 PLANTING AROUND UTILITIES
- A. Contractor shall carefully examine the civil record, and survey drawings to become familiar with the existing underground conditions before digging
- B. Determine location of underground utilities and perform work in a manner that will avoid possible damage. Hand excavate as required. Maintain grade stakes sat by others until parties concerned mutually agree upon removal
- C Notification of 811, D/G ALERT, is required for all planting areas. The Contractor is responsible for knowing the location and exciding utilities that are not covered by the D/G ALERT.

PART 2 PRODUCTS

- PLANTS GENERAL
- A. Standards and measurement. Provide plants of quantity, size, genus, species, and variety or suffixers as shown and fulled in contract documents
- All plants including the root ball dimensions or container size to trunk caleper ratio shall conform to ANSI 250.1 mcan Standard for Nursery Stack balst adding, unless modified by provisions in the specification, When there is a conflict sent his specification and ANSI 250.1, his specification eaction shall be considered correct.
- Plants larger than specified may be used if acceptable to the Owner's Representative. Use of such plants shall no the contract price. If farger plants are accepted the root ball size shall be in accordance with ANSI Z-60.1, Larger y not be acceptable if the resulting root ball cannot be fit into the required planting space.
- If a range of size is given, no plant shall be less than the minimum size and not less than 50 percent of the plants shall naximum size specified. The measuremints after pruning where pruning is require ements specified are the minimum and ma
- B. Proper Identification. All trees shall be true to name as ordered or shown on plansing plans and shall be fabeled individually or in groups by genus, species, variety and cultivar.
- C. Compliance All trees shall comply with federal and state laws and regulations requiring observation for plant disease pests, and weeds, Observation certificates required by law shall accompany each shipment of plants.
- Clearance from the local county sgricultural commissioner, if required shall be obtained before planting trees ignating outside the county in which they are to be planted. D. Plant Duality
- Bennal Povide heality slock, grown in a nursery and reasonably here of de-back disease, insects aggs, bores, and ease. At the time of planting all plants shall have a root system, stem, and branch form theit will not testrist normal growth DBy and health for the orgetock fild for the plant
- Plant quality above the soll line:
 - . a.) Crown specifications do not apply to plants that have been specifically trained in the nursery as topiary
 - espalier, multi-stem, clump, or unique selections such as contented or weeping cultivate 2) Leaves. The second respective of power and a power and a power of the second respective of the second respective of the species of culture. These second respectives are a second respective of the species of culture. These second respectives are a second respective of the species of culture. These second respectives are a second respective of the species of culture. These second respectives are a second respective of the species of culture. These second respectives are a second respective of the species of culture. These second respectives are a second respective of the species of culture. These second respectives are a second respective of the species of culture. These second respectives are a second respective of the species of culture. The species of th
- cross: Shout growth, lingth and damatel binxyshout be crown should be appropriate for the age and ice of the utract. These shall not have dead deasated broken, detorted, or otherwise injunce branches.

 a) Main have broken shall add obtained along the cambination of obtained togother. They shall form a balanced crown appropriate (or the calibrar/parcies.
- Branch diameter shall be no larger than two-thirds (one-half is preferred) the diameter of the central leader measured the branch union
- The attachment of the largest branches (scaffold branches) shall be free of included bar
- Itachment of the largest branches (scaffod branches) shall be free of notided bark. 4) Trunk: The text unit vehicles teating with and the set of the state of the state of the vood (grouphy mode pruning outs, closed or not, site acceptable and set not considered wounds), surburned areas, conie (uringed finiting bodes), wood cracks, eap leakage, eigen of boring inects, gells, cankers, griding lies, or lesions (mechanical injury). otary branches, unless otherwise specified, can be present along the lower trunk below the lowest main (ccafiold) dairy for branches, then in fichin calgory. These branches theold be no grader than 3/8-inch dameter. Client
- k should be no more than 40% of the total height of the tree.
- a. Trees shall have one central leader. If the leader was headed, a new leader (with a tive terminal bud) at least one-half the diameter of the pruning cut shall be presen
- 1.) All trees are assumed to have one central leader trees unless a different form is specified in the plant list or
- b. All graft unions, where applicable, shall be completely closed without visible sign of graft rejection. All grafts shall be visible above the coll line.
- shall be valide above the coll ine. Trunk-capper and laper shall be sufficient so that the lower five feel of the funk remains vertical without a stake, Auxiliary stake may be used to maintain a straight leader in the upper half of the tree
- Plant quality at or below the soil line: a. Part roots shall be normal to the plant type specified. Root observations shall take place without impacting tree health. Root quality at or below the soil line shall comply with the project Root Acceptance details and the
- ollowing b) The roots shall be reasonably free of scrapes, broken or spit wood. 2) The root system shall be reasonably free of injury from biolic (e.g., insacts and pathogens) are abolic (e.g., herbracke toxic/r and saik injury) agents. Wounds resulting from root pruning taxed to produce as high quark pred system are not cancidered unjuries.

- anywork a user to accept the structural racks reasonably detributed around the lounk (not clustered on one side) shall be could in each plant. Accel detribution shall be uniform throughout the root ball, and grawth shall be appropriate for the species.
- oprials for the species, a.) Plants with structural roots on only one side of the trunk (J roots) shall be rejected.
- 4) The root collar shall be within the upper 2 inches of the substrate/soil. Two structural roots shall reach the side of the root ball near the logs surface of the root ball. The grower may request a modification to this requirement for spaces with roots that rapidly descend, provided that the grower nervous all stem griding noots above the studinar inche actes the top of the next ball. 5.) The root system shall be reasonably free of stem girdling roots over the root collar or kinked
- Is from numery production practices a) Plant Grower Certification The final plant grower shall be responsible to have determined that th
- This down to consider that a pair given stag an experiment of the second - provers, we part i not system that an mounted is in a final proclama tagin, in reason, to produce the required part i not usystem that are indefined in this specification, stagin, in reasonably firse of a lare girling and kinked roots a defined in hits specification, and that the tree has been grown and harvestaid to produce a plant fast meter three specifications. 5) Al time of observations and delivery, the not ball shall be moist throughout. Roots hall not show signs of access soil moutine conditions as indicated by sulmer discottered distorted of deal roots.
- E Submittals Submit for approval the required plant quality certifications from the grower where plants are to be purchased, for each plant type. The certification must state that each plant meets all the above plant quality
- he grower's cartification of plant quality does not prohibit the Owner's Representative from observing any plant or the dant if it is found to not meet the specification requirement.
- ROOT BALL PACKAGE OFTIONS. The following root ball packages are permitted. Specific root ball packages shall be required where indicated on the plant list or in this specification. Any type of root ball packages that is not specifically
- cated on the plant list or in this CONTAINER (INCLUDING ABOVE-GROUND FABRIC CONTAINERS AND BOXES) PLANTS
- Container plants may be permitted only when indicated on the drawing in this specification, or approved by the Owner's
- Provide plants shall be established and well rooted in removable containers Container class size shall conform to ANSI 260.1 for container plants for each size and type of plant. PLANTING SOIL
- A. Planting Soil as used in this specification means the soil at the planting site, or imported as modified and defined in specification flexing Soil. If there is no Planting Soil specification, the term Planting Soil shall mean the soil at the planting to be writing togeting hole.
- MULCH
- A. Mulch shall be "Screened Orchard Mulch" grade, coarse, ground, from tree and woody brush sources. The size shall be a minimum (lines than 25% or less of volume) fine particles 36 inch or less in size, and a maximum size. el preces (tyrges) 20% or less of volume) shall be approximately 1 to 1-172 inch in clameter and m pproximately 4 to 8". Preces larger than 8 inch long that are visible on the surface of the mulch all

1. It is understood that mulch quality will vary significantly from supplier to supplier and region to region. The above requirements may be modified to conform to the source material from locally reliable suppliers as approved by the Owner's Representative.

K. Bacidilithe space around the tool ball with the same planting soil or evaluation soll that was excave space. See Specification Section Planting Soil, for requirements to modify the soil within the plan

Thoroughly water the Planking Soil and root ball (mmediately after planting

3 10 PERMITTED ROOT BALL PACKAGES AND SPECIAL PLANTING REQUIREMENTS

Perform root ball shaving as defined in Installation of Plants: General above

Remove all substrate at the bottom of the root ball that does not contain roots

B Assure that soil grades in the beds are smooth and as shown on the plane

Press soil to bring the rack system in contact with the soil

G Spread any excess soil around in the spaces between plante

A. The following are permitted root ball packages and special planting requiplenting process in addition to the above General planting requirements.

P. Remove conventied cardboard trunk protection after interting

Remove the container.

11 PEREMNIAL PLANTS

toot ball surface.

113 STAKING AND GUYING

3.15. DTRAIGHTENING PLANTS

3.17 PRUNING OF TREES AND SHRUBS

Han Tree Foundation, Visalia CA

F. Pruning shall be done with clean sharp tools

G. No tree paint or sealants shall be used

knos shall be a depicted on the drawings

3 22 PROTECTION DURING CONSTRUCTION

3 18 MULCHING OF PLANTS

1.10 PLANTING BED FINISHING

3 20 WATERING

3.21 CLEAN-UP

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Plents shall stand plumb after staking or guying. Stakes shall be driven to sufficient depth to hold the tree rigid.

8. Do not straighten plants by pulling the trunk with guys. 3.16 INSTALLATION OF FERTILIZER AND OTHER CHEMICAL ADDITIVES

Q. Follow additional requirements for the permitted root ball packages

O. Remove all nursery plant identification tags and ribbons as per Owner's Represent Representative's seeks are to remain on plants until the end of the warranty period.

CONTAINER (INCLUDES BOXED AND ABOVE-GROUND FABRIC CONTAINERS) PLANTS

The specification assumes that most container plants have significant stem griding and circling roots, and that the root valar is too low in the root ball.

Remove all texts and substate above the root collar and the main structural roots according to root correction datalis t system conforms to toot observations detail.

Using a hose, power wather or an excavation device, wath out the substrate from around the humi and top of the ing root ball and find and remove all stem ginding roots within the year ball above the top of the structural roots.

A Assume that suit must be in within the required favels prior to planting. Impation, if required, shall be applied at least 12 hours prior to planting to avoid planting in model, balls.

C. Plants shell be planted in even, triangularly spaced rows, at the intervals called out for on the drawings, unless otherwise noted. The first row of Annual flower plants shall be 6 inches from the bed edge unless otherwise directed

D. Drg planting holes sufficiently large enough to insert the root system without deforming the roots, Set the top of the root system at the grade of the soil

E. Schedule the planting to occur prior to application of the mulch. If the bed is already mulched, pull the mulch have priorial the hele and plant into the soil. Do not plant the roat system in the mulch. PLA mulch back as it is not an the

Apply mulch to the bed being sure not to cover the tops of the plants with or the tops of the root ball with mulch. Water each planting at ea as soon as the planting is completed. Apply additional water to keep the soil moisture at the

A. Do not stake or guy trees unless specifically required by the Contract Documents, or in the event that the Contractor leads that staking is the only alternative way to keep particular trees plumb.

The Owner's Representative shall have the authority to require that trees are staked or to reject staking as an

Tress that required heavily modified root balls to meet the root quality standards may become unstable. The Owner's sentences may choose to inject these trees rather than ubitize staking to temporarily support the tree.

B. Trees that are guyed shall have their guys and stakes removed after one full growing season or at other times as required by the Ourse's Percententiable.

C. Tree guying shall utilize the tree staking and guying materials specified Guying to be tied in such a manner as to create a minimum 12-inch toop to prevent girdling. Refer to manufacturer's recommendations and the planting detail

D. For trees planted in planting mix over weterproofed membrane, use deal men buned 24 inches to the top of the dead main, this call. The ting puy to the dead man in the scall. The ting puy to the dead man in a double ways of line around the dead man followed by a double half block. When goys are removed, leave the dead men in place and out the guy tape 12 inches above the ground leaving the tape and examed in mulch.

A Maintain all plants in a plumb position throughout the warranty period. Straighten all tress that move out of plumb including those not staked. Plants to be straightened shall be excavated and the root ball moved to a plumb position and then relevant/filed.

A. Do not apply any soluble fertilizer to plantings during the first year after transplanting unless soil test determines the fertilizer or other chemical additives is required. Apply chemical additives only upon the approval of the Owner's Representative.

A. Prune plants as directed by the Owner's Representative. Pruning trace shall be limited to addressing structural defects as shown in defails, follow recommendations in "Structural Pruning A Guide For The Green Industry" published by

Compared Target tess shall be done using pole pruners or if needed, from a ladder or hydraulic. If it to gain access is
 Ihe top of the tree. Do not dram in newly planted to see. Small trees can be structurally pruned by laying them over
 before grading Priving may abo be performed at the numery plants a hybrid.
 E. Remove and tablece excessively pruned or mathemed stack seeding from improper pruning that occurred in the
 monosement and tablece.

A. Apply 5 inches of mulch before settlement, covering the entire planting bed area. Install no more than 1 inch of mulch over the top of the root balls of all plants. Taper to 2 inches when abutting pavement.

Separate the edges of planting beds and Jawn areas with a smooth, formed edge cut into the turi with the bed mulch level slightly (ower, 1 and 2 inches, than the adjacent turf sod or as directed by the Owner's Representative, Bed edge

A The Contractor shall be fully responsible to ensure their adequate water is provided to all plants from the point of matabaton unit the older of Substantial Completion Acceptance. The Contractor shall adult the automatic implicit expirtme, if available, and apply additional or adjust first awater using hoses are added and and and and additional advectional adv

A. During installation, keep the site free of trash, pavements reasonably clean and work area in an orderly condition at

In the project of on plane, right of weys and neighboring aryweiny. B. Once installation is complete, want all cost from provemers and other structures. Ensure that moltch is confined to planting back and that all tags and Bagging tage are nervowed from the site. The Owner's Representative's seals are to remain on the back and removed to the end of the warranty period.

D. Remove and dispose of all excess planting soil, subsoil, mutch, plants, packaging, and other material brought to the

A The Contractor shall polect parting and related work and other site work from demage due to planning operations, operations by other Contractors or trappaters. Maintain polection during installation until Substantial Completion Acceptence. Treat, repair or replace damaged work immediately.

B. Damage done by the Contractor, or any of their sub-contractors to existing or installed plants, or any other parts of the Damage done by the Contractor or any or their sub-contractors to example in maximum parts, is any order pairs work or avising faulties for entrain, including roots, trunk to branches of large oxiting lotes, soil ary order pairs lighting ingetion, other finished work and surfaces including thase on adjacent poperty, shall be damad, repa replaced by the Contractor at no experse to the Owner. The Owner's Representative shall datermine when suc clearing replacement or repair is safet/scory.

the end of each day. Remove tresh and debris in containers from the site no less than once a wee 1. Invnedately clean up any spilled or tracked soil, fuel oil, trash or debris deposited by the Contractor from all surfaces within the project or on public right of ways and neighboring property.

Make all repairs to grades, ruts, and damage by the plant installer to the work or other work at the site,

3 23 PLANT MAINTENANCE PRIOR TO SUBSTANTIAL COMPLETION ACCEPTANCE

B. For tiess planted in fawn areas the mulch shall extend to a 5 fool radius around the tree or to the extent indicated or

C Lift all leaves low hanging stems and other green portions of small plants out of the mulch if covered

A. After planting smooth out all grades between plants before mulching.

B. Controlled releases fertilizers shall be applied according to the manufacturer's instructions and standard

B. All powno shall be performed by a person expensenced in structural tree pruning. C. Except for plants specified as multi-stammed or as otherwise instructed by the Owner's Repres

sume used approtection decision mering doi: the requirements to model that all when a participation decision mering both the result of the set of the s

1. When the planning hade is as been backfield to three quarks or 16 depth water shall be pound around the root ball allowed to said the ball base with well Co not look the planning storage. The work shall be depended and the dana to balow held capacity before finishing the planning. An process shall be eliminated and backfil continued until the planning of is bought to grade live!

M. Where indicated on the drawings, build a 4 inch high, level berm of Planting Soil around the outside of the root ball to retain what Tamp the berm to retain what?

institutions. The Daner's

ments that shall be followed during the

- B. Submit supplier's product specification data sheet and a one gallon sample for approval TREE STAKING AND GUYING MATERIAL
- A. Tree guying to be flat woven polypropilane material; 3H inch wide, and 800 lb. sneak strength. Calor to be Green Product to be Arbor Tie manufactured by Deep Rott Partners. L.P. or approved equal. B. Stakes shall be lodge pole stakes free of knots and of diameters and lengths appropriate to the size of plant as
- C Below ground anchorage systems to be constructed of 2 x 2 dimensional uniterated wood securing (using 3 inch long screws) horizontal portions to 4 feet long vertical stakes driven straight into the ground outside the root bell. D. Submit manufacturer's product data for approval
- 3.1 SITE EXAMINATION A. Examine the surface grades and soll conditions to confirm that the requirements of the Epecification Section - Planting So I - and the sol and dearage modifications indicated on the Plending Soil Plen and Details (if applicable) have be completed Notry the Owner's Representative in writing of any unsatisfactory conditions
- 3.2 DELIVERY, STORAGE AND HANDLING A Pract material from determined on a determined and a second sec
- shipping and storage period 1 All plant materials must be available for observation prior to planting
- Using a soil moisture meter, periodically check the soil moisture in the root balls of all plants to assure that the plants ng adequately watered. Volumetric soil moisture shall be maintained above wilting point and below field capacity for the ne being adequatery w
- B. Do not deliver more plants to the site than there is space with adequate storage conditions. Provide a suitable remote
- The Owner's Representative or Contractor shall approve the duration, method and iscation of storage of plants C. Provide protective covering over all plants during transporting
- 3.3 PLANTING SEASON
- A. Planting shall only be performed when waither and soil contilient are suitable for planting the industrial specified in accordance with locally accessed practice. Install plants during the glanting time as described below unless specified in the planting between the set of the annih the for contrast means the planting to the dates of the glanting season, approval of the request does not change the lequinements of the warranty. ciduous trees and shrubs January to May
- Evergreen trees and shrubs August to December
- ADVERSE WEATHER CONDITIONS
- A. No planting shall take place during extremely hot, dry, windy or freezong wealth
- COORDINATION WITH PROJECT WORK The Confractor shall coordinate with all other work that may impact the completion of the work
- Prior to the start of work, prepare a detailed schedule of the work for coordination with other trades
- C. Coordinate the relocation of any inigation irres, heads or the conduits of other utility lines that are in conflict with tree locations. Rost tails shall not be altered to fit around lines. Notify the Owner's Representative of any conflicts
- 38 LAYOUT AND PLANTING SEQUENCE
- A Relative positions of all plants and trees are subject to approval of the Owner's Representative
- planting work, When applicable plant trees before plants are installed
- D. It is understood that plants are not precise objects and that minor adjustments in the layout will be required as the planting plan is constructed. These adjustments may not be apparent until some or all of the plants are installed adjustments as required to the Owers' Removed alow indexing reflection reflection convicusly installed reflects. SOIL PROTECTION DURING PLANT DELIVERY AND INSTALLATION
- A. Protect soil from compaction during the delivery of plants to the planting locations, digging of planting holes and

Where possible deliver and plant trees that require the use of heavy mechanized equipment prior to final soft ration and billing. Where possible, restrict the driving lanes to one area instead of driving over and compacting a large area

- Tell to a depth of 6 inches, all soil that has been driven over during the installation of plants
- SOIL MOISTURE
- A Volumetric soil moisture fevel, in both the planting soil and the root balls of all plants, prior to, during and after planting shall be above permanent withing point and below field capacity for each type of soil texture within the following

Soil type	Permanent witting point	Field capacity
Sand Loamy sand, Sandy loam	5 - 8%	12 - 18%
Loam, Sandy day, Sandy day koam	14 - 25%	27 - 36%
Clay loam Sill loam	11 - 22%	31 - 36%
Bilty clay_Silty clay loam	22 - 27%	38 - 41%

- Billy day, Silty day loam 1. Volumetric soil moisture shall be measured with a digital moisture metar. The meter shall be the Digital Soil Moisture Meter, DSMM500 by General Specialty Tools and Instruments, or approved equivalent.
- B. The Contractor shall confirm the soil moisture levels with a moisture meter. If the moisture is too high suspend planting operations until the soil moisture drains to below field capacity. INSTALLATION OF PLANTS GENERAL
- A Installation plan shall be submitted a minimum of 14 days prior to the scheduled installation, Flan should describe the methods, scheduler, methods, and scheduler to achieve installation of plants.
- B Observe each plant after delivery and prior to instaliation for damage of other characteristics that may cause rejection of the plant. Notify the Owner's Representative of any condition observed. C. No more plants shall be distributed about the planting bed area than can be planted and watered on the same day.
- D. The root system of each plant, regardless of root ball package type, shall be observed by the Contractor all the time day of planting to continu that the root meet the requirements for planting capity and a structure. Here there all planting capity is the Contractor shall understeel at the time of planting all modifications is the root system required by the Contract shall be comed. lative to meet these quality standard
- Modifications, at the time of planting to meet the specifications for the depth of the root collar and removal of stern grading roots and circling roots may make the plant unstable or stress the plant to the point that the Owner's Representative may choose to reject the plant rather than permitting the modification.
- Any modifications required by the Owner's Representative to make the root system contorm to the plant quality darks outlined in Part 2 Products. Plants General Quality, or other requirements related to the permitted root ball package note be considered as growth is modify or sold for plant sensing.
- The resulting root ball may need additional staking and water after planting. The Owner's Representative may reject the if the root modification process makes he tree unstable or if the tree is not heakiny at the end of the warranty period. Such shall still be covered under the warranty.
- The Contractor remains responsible to confirm that the grower has made all required root modifications noted during
- E. Container and Boxed Rust Ball Shaving. The outer surfaces of ALL plants in containers and boxes, including the top uides and bottom of the root tail that be shared to immune all circling descending and motted roots. Sharing sh one performed using saws, khrives, sharps showels or other suitable equipment that is capable of making clean cuts the roots. Shaving shall encove a minimum of one inch of root mail or up to 2 inches as required to remove all root segments that are not growing reasonably rodal to the unch.
- segments that all on top (privery) reasonary leads in the curve. Exposed Signi Trick use the Modification The required rout fail modifications may result in stem tissue that has not formed truth bank being exposed above the sail line. If such condition to excess, way the screed particular a protections wasping with a white faits table. Secure the failure with biodegradate measing tape. DO NOT USE string, white yourn nursely liss or any other makinal that may grade the burk if not removed.
- G. Excavation of the Planking Space. Using hand tools or tracked mini-excavator, excavate the planting bole into the Planting Bol to the depth of the root ball measured after any root ball modification to correct toot poblame, and wide encouph for working room accurd the oratio ball or bala sca and cashed on the darking or at an used before.
- encloping we working come accurate the operation is such that such as the damage of a trade below.
 If for trade and holds planded in a planders that are NOT life of otherwise modified to a depine of a least 12 mohas over a datance of more than 10 feet radius from each shulls, the soil around the root bell shall be loceened as defined able of read and the other datance.
 a. The area of feature of the other shall be for a shull be the damage of the soil base shall be loceened as defined able of read and the datance.
 b. Loseening is defined as degrap into the soil and the soil to reduce the compaction. The soil does not have to be traveled as degrap into the soil and turning the soil to reduce the accomplained with a tracked bein into xonder.

If an auger is used to dra the initial planting hole, the soil around the auger hole shall be loosened as defined above for and shrubs clanted in soil areas that are NOT tilled or otherwase modified.

The measuring point for toot ball depth shall be the average height of the outer edge of the root ball after any required of ball modification.

4. If monorized equipment is used to deliver plants to the planting area over exposed planting beds, or used to foosen the soil or dig the planting holes, all soil that has been driven over shall be lifted to a depth of 5 inches.

H. For trees to be planted in prepared Planting Biol that is deeper than the root ball depth, compact the cell under the root ball using a mechanical target to assure a firm bedding to the root ball, there is more than 12 beddes of planting out of user to the cavate and any her planting out of user to the cavate and any her planting out of the root ball carding as the planting out of the planting out of the root ball carding as the planting out of the planting out of the root ball carding as the planting out of the planting out of the root ball carding as the planting out of the planting out of the root ball carding as the planting out of the planting out of the root ball carding as the planting out of the planting out of the root ball carding as the planting out of the planting out of the planting out of the root ball carding as the planting out of the

Sat top outer edge of the root ball at the average elevation of the proceed first. Sat the paint planch and upright in the center of the planting hole. The trae graft, if applicable, shall be visible shows the grade. Do not place soil on top of the root ball.

J. The Owner's Representative may request that plants orientation be rotated when planted based on the form of the



(HIBIT L-13 DATE INVITUDE
DATE
DATE
DATE

A. During the project work period and prior to Substantial Completion Acceptance, the Contractor shall maintain all

B Manufarence during the period prior to Substantial Completion Acceptance shall consist of pruning weatering. B Manufarence during the period prior to Substantial Completion Acceptance shall consist of pruning and period presenting and acceptance of acceptance wearing matrice in severing pathol is concer practice and using position, and furnishing and applying such accept as a necessary to keep plantings treatomaker feed of damaging inserts and access, and in healty condem. The thereafted are pathogrameticidis and healthout is head for the established integrated Past Managament (IPM) procedures. Mulch areas shall be kept reasonably fee of weeds grass.

A Upon written notice from the Contractor, the Owners Representative shall review the work and make a determination if the work is substantially complete.

B. The date of substantial completion of the planting shall be the date when the Owner's Representative accepts that all work in Planting, Planting Soil, and Irrigation installation sections is complete.

on for the

C. The Plant Warranty period begins at date of written notification of substantial completion from the Owner's Representation. The date of substantial completion may be different than the date of substantial completion

A During the warranty period, provide all maintenance for all plantings to keep the plants in a healthy state and the

All work shall be undertaken by trained plenting crews under the supervision of a foreman with a minimum of 5 years non-supervision commercial clant maintenance crews.

All chemical and forthizer applications shall be made by locensed applicators for the type of chemicals to be used. All in chemical use shall comply with all applicable local, provincial and federal requirements.

Assume that hoses and weaking automent and other maintenance equipment does not block paths or be placed in a manner for vision reade lipping hazards. Use standard safety werning barriers and other procedures to maintain the site in a manner for vision at all limes.

Maintenance vehicles shall not park on the site including walks and lawn areas at any time without the Owner's

Mainlain a detailed log of all meintenance activities including types of tasks, data of task, types and quantities of na8 and products used, watering times and amounts, and number of each craw. Periodcally review the aris Representation, and submit a copy of the log as the end of actives of the maintenance agreement.

Meet with the Owner's Representative a minimum of three times a year to review the progress and discuss any

Watering, Provide all water required to keep sol within and around the root balls at optimum moisture content for plan

h. a. Naintain all watering systems and equipment and keep ihem operational. b. Montor set most to specific sufficient water. Divide set measure and not tail most are with a set most the measure on equiple table and record most can reading. Do not over wide. Soil ruthient levels. Take a minimum of 4 set semplas from stored the site in the speng and fail and have them tester accessible agricultural soil testing bab for chemical compaction of plant required materias, pli-state and for agricultural scale shall include boardory accessible about on plant required materias, pli-state and for agricultural most is shall include boardory recommandations for multima applications. Apply forlitzes at relies recommanded by the

a. Make any other soil test and/or plant lissue test that may be indicated by plant conditions that may not be related to soil nutrient levels such as soil contaminated by other chemicals or tack of chemical uptake by it

Plant pruning Remove cross over branching shorten or remove developing co dominant leaders, dead wood and r-damaged branches. Unless directed by the Owner's Representative, do not shear plants or make heading cuts

Guying and staking. Maintain plant guys in a taught position. Remove tree guys and staking after the first full growing unless directed by Owner's Raprasertative. Weed control. Keep all beds (ties of weeds. Hand-remove all weeds and any plants that do not appear on the planting Chemical weed control is permitted only with the approval of the Owner's Representative. Echedole weeding as needed tool lies of times per month.

Trissh removal Remove all trissh and debris from all planting bads and maintain the beds in a nest and hely appearance. he number of triash and debris removal visits shall be no less than 4 times per month and may coincide with other variance.or with:

a The Owner's Representative must approve in advance the use of all chemical pesticide application

9. Plant replacement Replace all plants that are defective as defined in the warmsty provision, as soon as the plant decime a obvous and in subtate weather and searon for planting as outlined in above and insubtate weather and searon for planting as outlined in above and insubtate weather and searon for planting as outlined in above and insubtate weather and searon for planting as outlined in above and insubtate weather and searon for planting as outlined in above and insubtate weather and searon for planting as outlined in above and insubtate weather and searon for planting and the covered and replaced under the warmsty provision.

10. Muden Refresh much once a year to maintain complete coverage but do not over much. Al no time shall the overall much histores by galate that 5 mohes. Do not apply much within 5 mohes of the turnis or stems of any parts. Replacement much shall meet the requirements of the original approved material. Nulch: shall be no more then one inch on top of the root hall surface.

1. Bed edging. Check and maintain edges between mulch and lawn areas in smooth neat lines as originally shown on th

Comage from site use. Repair of damage by site visitors and events, beyond normal wear, are not part of this maintenance. The Owner's Representative may request that the Contractor repeir damage bads or plentings for an additional cost, All additional works hall be approved in advance by the Owner's Representative.
 3.28 EIND OF WARRANTY FINAL ACCEPTANCE / MAINTENANCE OBSERVATION

If the work is satisfactory, the maintenance period will and on the date of the final observation

B. FAILURE TO PAGS OBSERVATION If the work fails to pass final observation, any subsequirescheduled as per above. The cost to the Owner for additional observations will be charged pravailing hourly rate of the Owners Representative.

Leaf, fruit and other plant debris removal. Remove fail leaf, spent flowers, fruit and plant part accumulations from beds aved surfaces. Maintain all surface water drains free of debris. Debris removal shall be undertaken at each visit to wead or

A At the end of the Warranty and Maintenance period the Owner's Representative shall observe the work and establish that all provisions of the contract are complete and the work is satisfactory.

If the work is deemed unsatisfectory, the mainlenance period will continue at no additional expense to the Owner unit ork has been completed, observed, and approved by the Owner's Representative.

Plant pest control. Maintain disease, meets and other pests at manageable levels. Manageable levels shall be defined mage to plants that may be noticeable to a professional but not to the average person. Use least invasiva methods to

Restore plants: Reset any plants that have settled or are leaning as soon as the condition is noticed.

All workers shall wear required safety equipment and apparel appropriate for the tasks being undertaken The Contractor shall not store maintenance equipment at the site at times when they are not in use unless authorized

Notification shall be at least 7 days prior to the date the contractor is requesting the raview

NTENANCE DURING THE WARRANTY PERIOD BY THE PLANT INSTALLER

3 24 SUBSTANTIAL COMPLETION ACCEPTANCE

B. General requirements

ting by the Owner's Representative

C. Provide the following maintenance lasks

and insect outbreaks

coil los

citicol plant d

sick up trash in beds

END OF SECTION 32 93 00

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