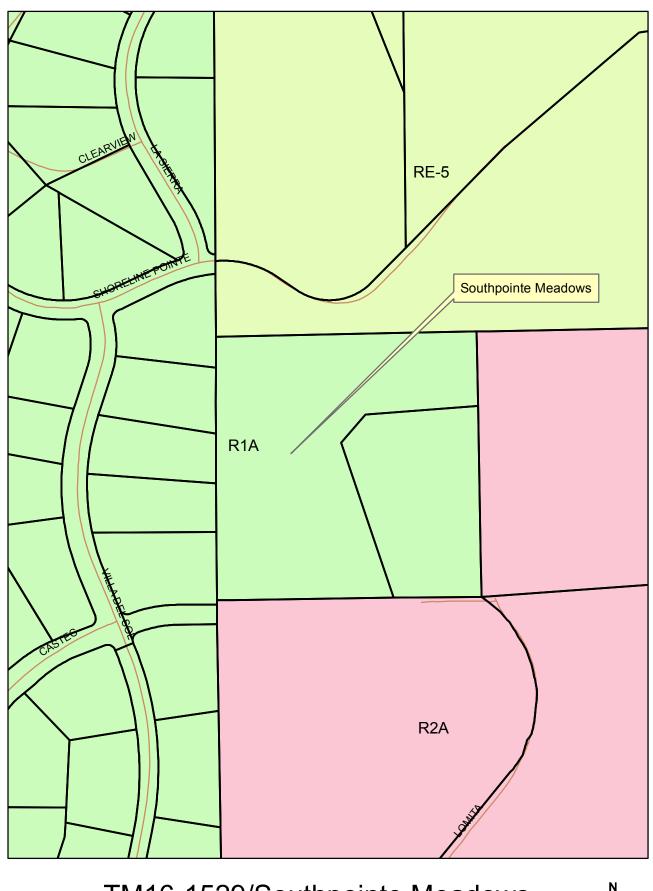
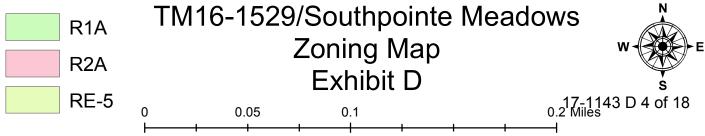


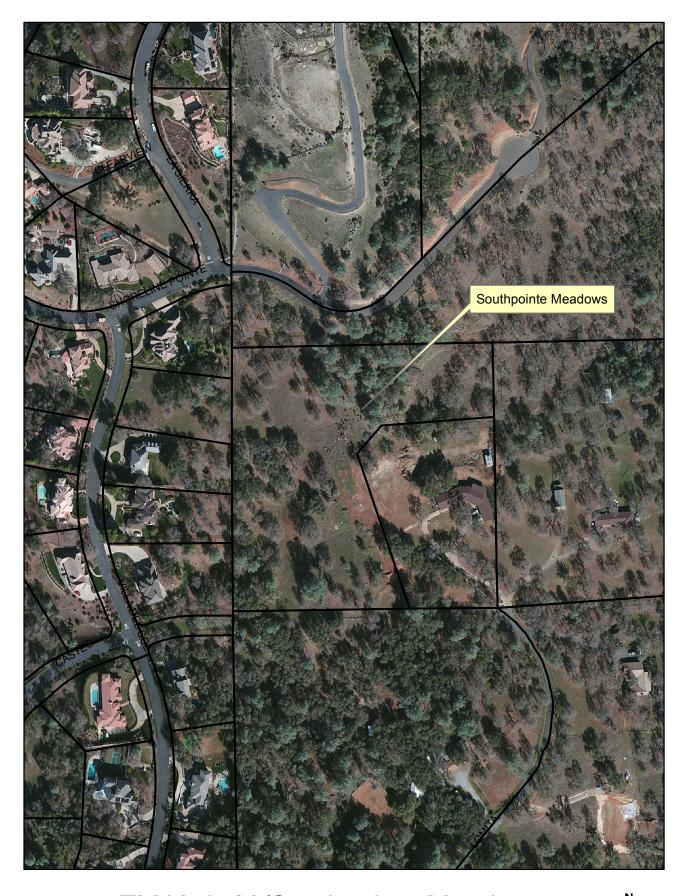
TM16-1529/Southpointe Meadows General Plan Land Use Map



MDR

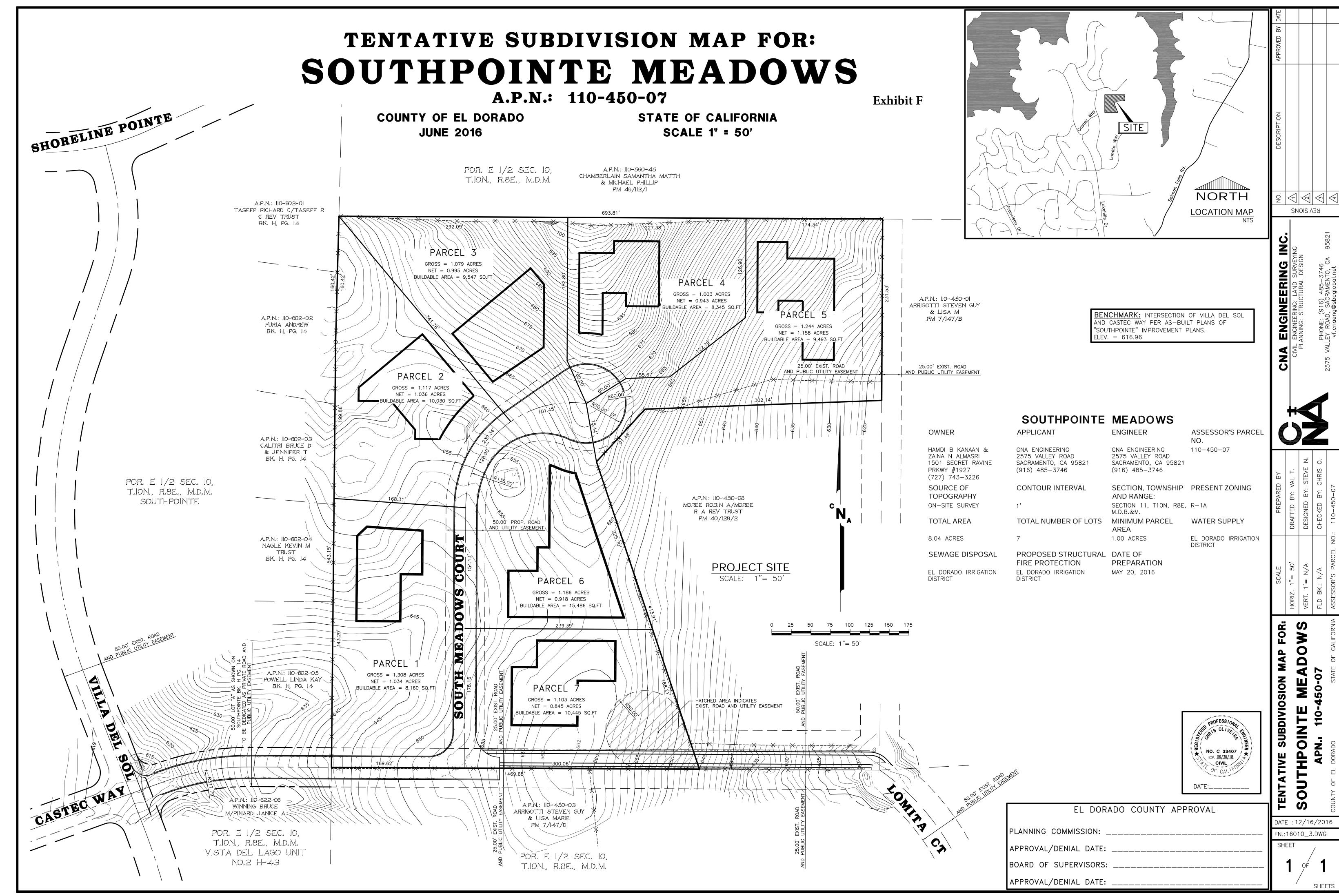




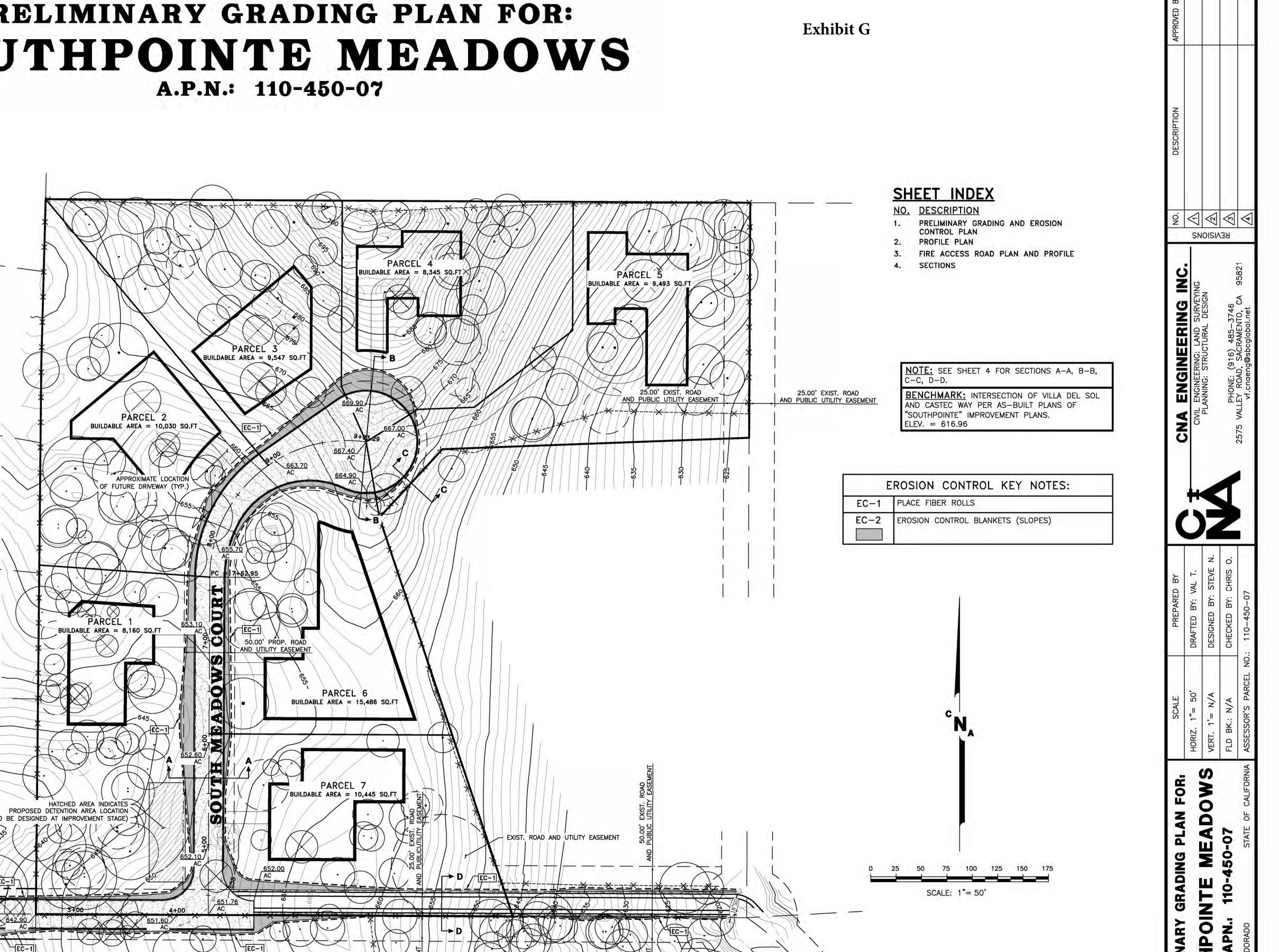


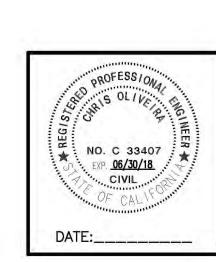
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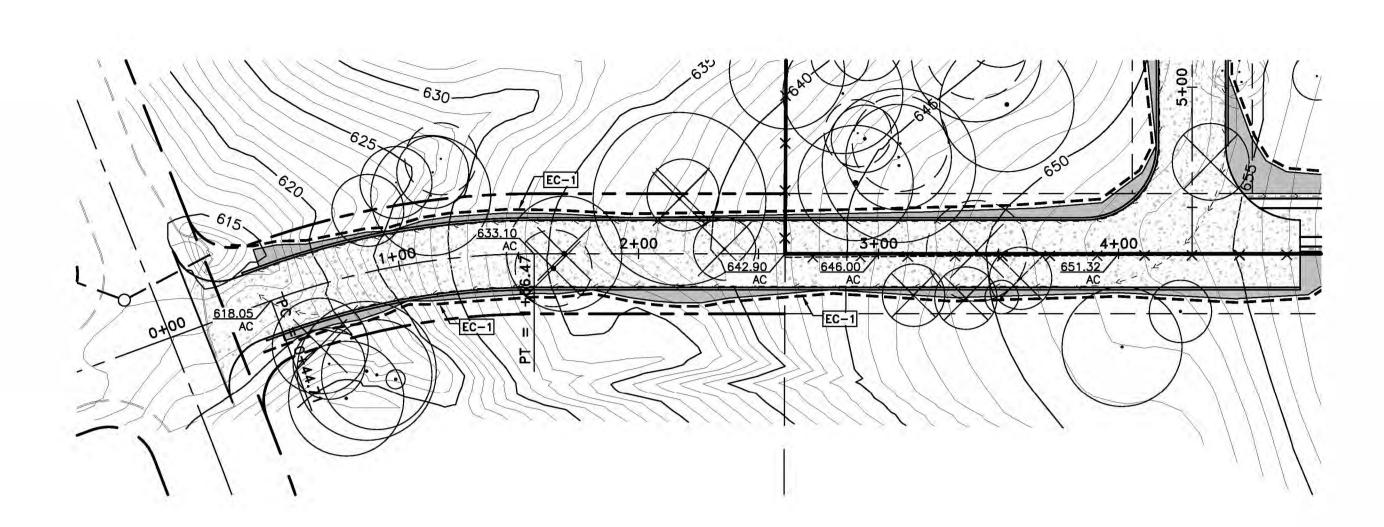


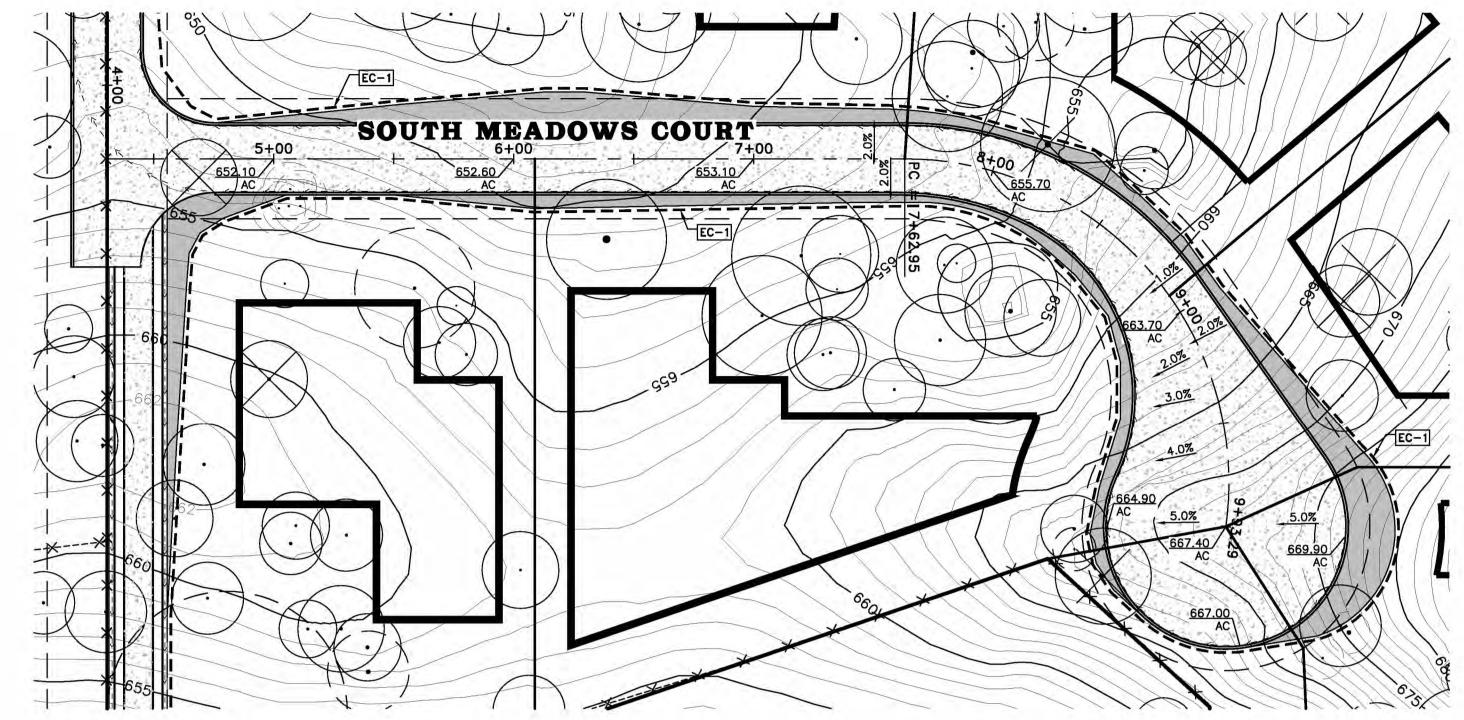


# PRELIMINARY GRADING PLAN FOR: SOUTHPOINTE MEADOWS

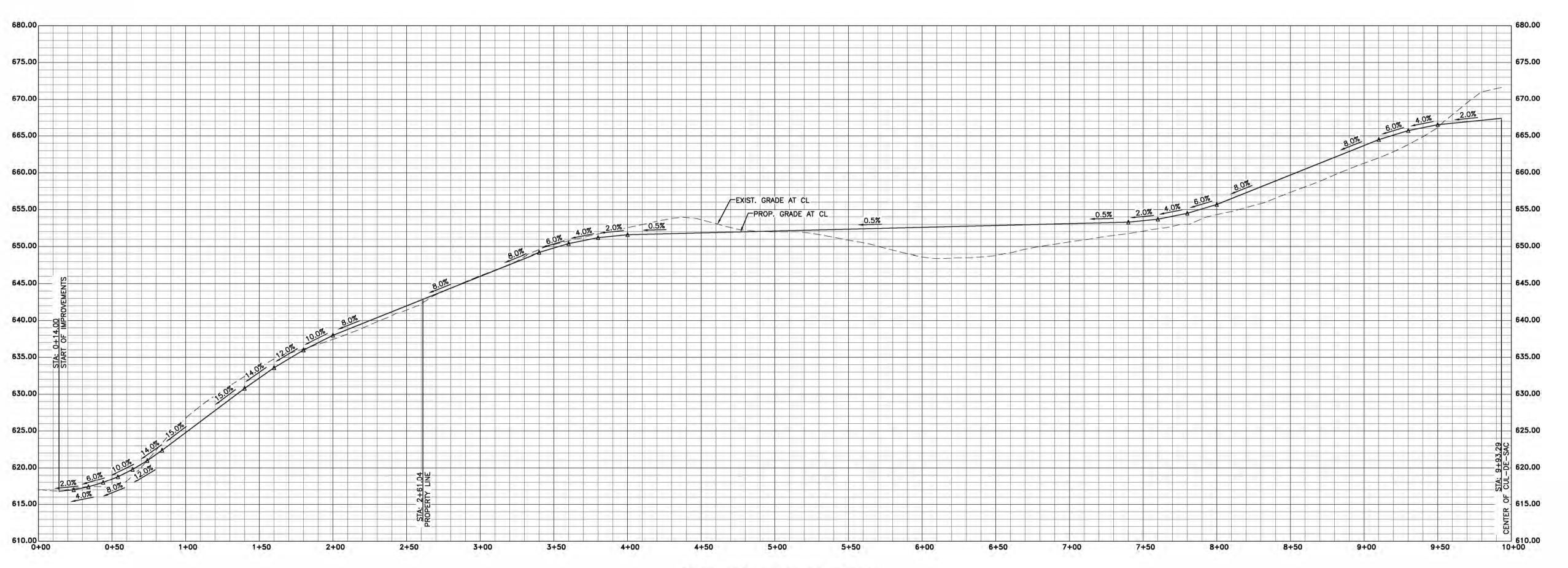




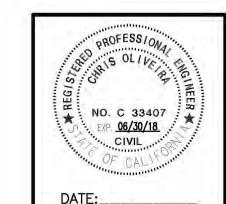




	ROSION CONTROL KEY NOTE	5:
EC-1	PLACE FIBER ROLLS	
EC-2	EROSION CONTROL BLANKETS (SLOPES)	



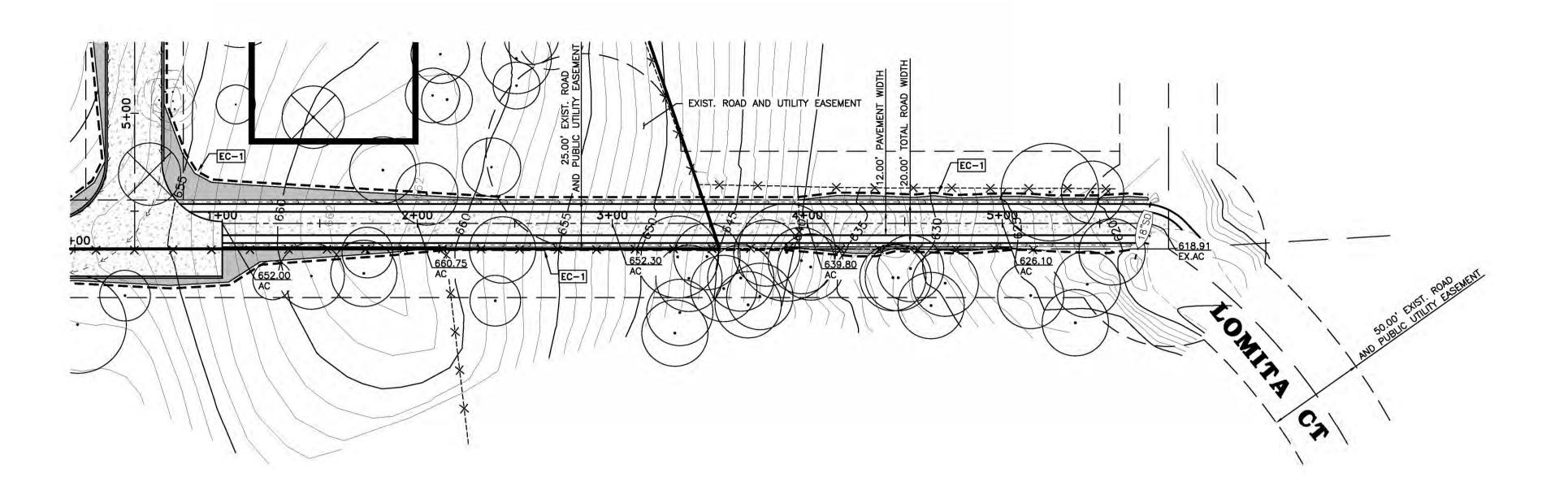
SOUTH MEADOWS COURT PROFILE
HORIZ. SCALE: 1"= 40', VERT. SCALE: 1"= 8'

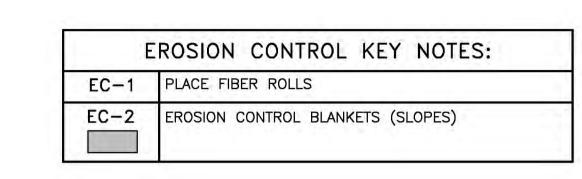


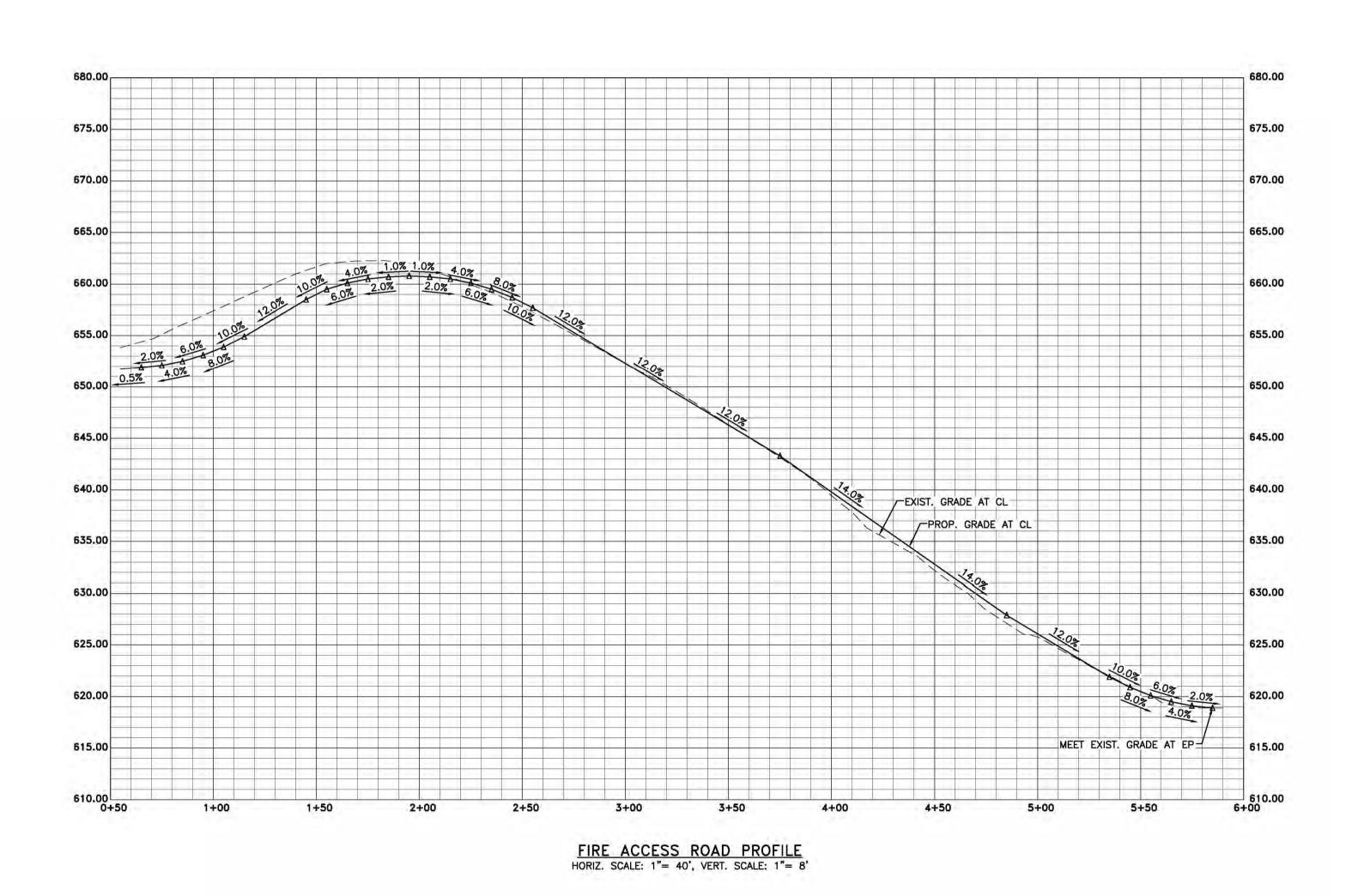
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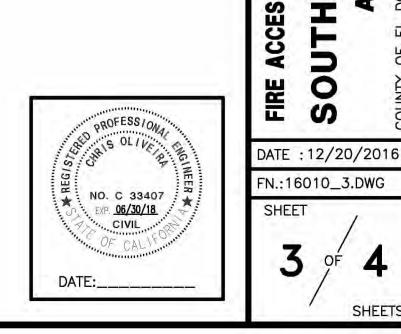
FOR:

*KENIZIONZ* 

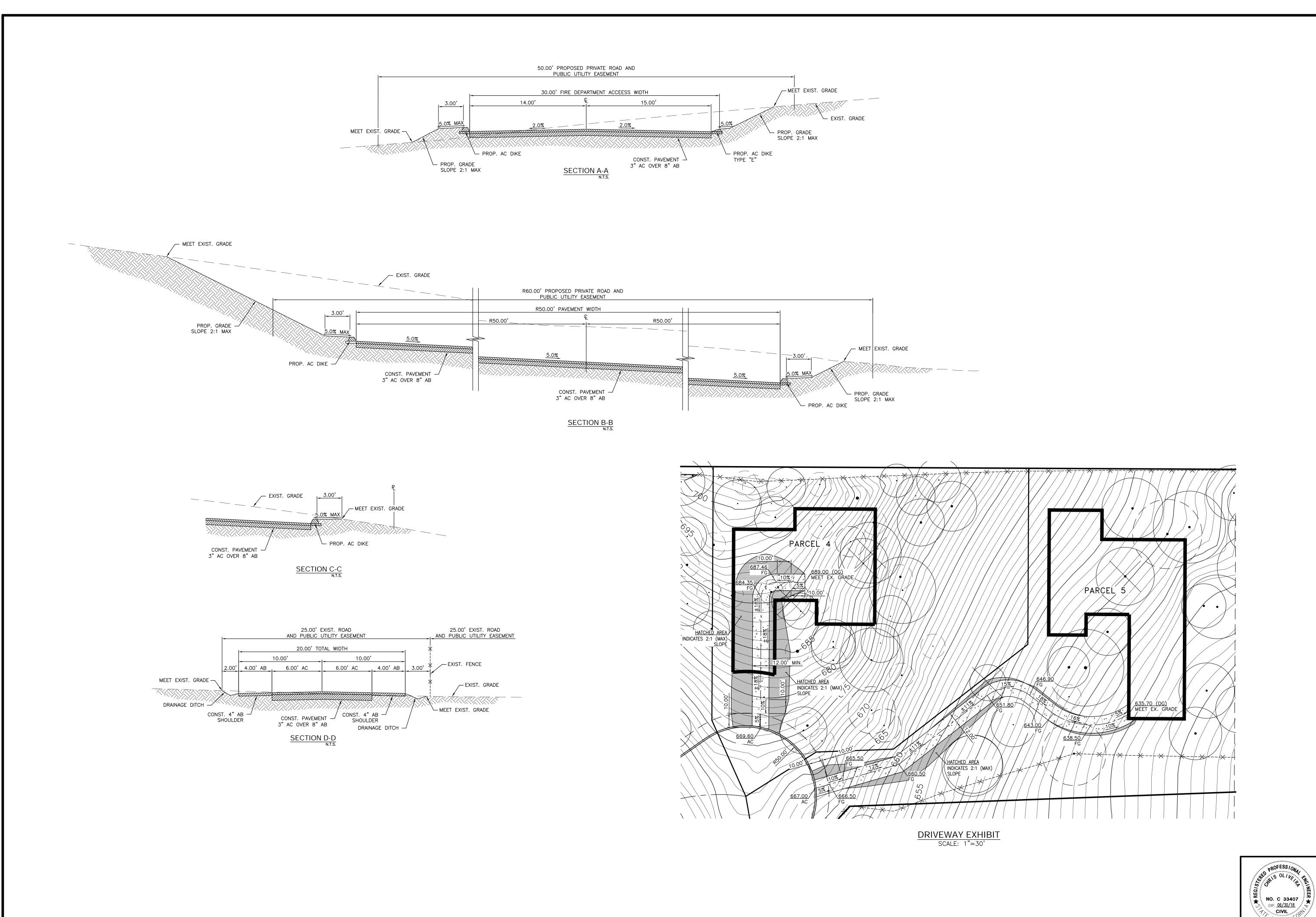








*KENIZIONZ* 



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SHEET



# EL DORADO HILLS Exhibit H FIRE DEPARTMENT

"Serving the Communities of El Dorado Hills, Rescue and Latrobe"

September 12, 2016

Rommel Pabalinas, Project Planner El Dorado County Planning Department 2850 Fair Lane Placerville, CA 95667

Re: Southpointe Meadows - Initial Consultation- APN 110-450-07 - FIRE COMMENTS - Subdivision

Dear Mr. Pabalinas:

The El Dorado Hills Fire Department has reviewed the above referenced project and submits the following comments regarding the ability to provide this site with fire and emergency medical services consistent with the El Dorado County General Plan, State Fire Safe Regulations, as adopted by El Dorado County and the California Fire Code as amended locally. The fire department reserves the right to update the following comments to comply with all current Codes, Standards, Local Ordinances, and Laws in respect to the official documented time of project application and/or building application to the County. Any omissions and/or errors in respect to this letter, as it relates to the aforementioned codes, regulations and plans, shall not be valid, and does not constitute a waiver to the responsible party of the project from complying as required with all Codes, Standards, Local Ordinances, and Laws.

- 1. Fire Flow: This fire flow rate shall be in excess of the maximum daily consumption rate for this development. A set of engineering calculations reflecting the fire flow capabilities of this system shall be supplied to the Fire Department for review and approval.
  - a. The potable water system with the purpose of fire protection for this residential development shall provide a minimum fire flow of 1,000 gallons per minute with a minimum residual pressure of 20 psi for a two-hour duration. This requirement is based on a building 6,200 square feet or less in size, Type V-B construction.
- 2. <u>Underground Private Fire Mains:</u> After installation, all rods, nuts, bolts, washers, clamps, and other underground connections and restraints used for underground fire main piping and water supplies, except thrust blocks, shall be cleaned and thoroughly coated with a bituminous or other acceptable corrosion retarding material. All private fire service mains shall be installed per NFPA 24, and shall be inspected, tested and maintained per NFPA 25.
- 3. Sprinklers: The building(s) shall have fire sprinklers installed in accordance with NFPA 13D (residential use), including all Building Department and Fire Department requirements.
- 4. Hydrants: This development shall install Dry Barrel Fire Hydrants which conform to El Dorado Irrigation District specifications for the purpose of providing water for fire protection. The spacing between hydrants in this development shall not exceed 500 feet. The exact location of each hydrant on private roads and on main county maintained roadways shall be determined by the Fire Department.

- 5. Hydrant Visibility: In order to enhance nighttime visibility, each hydrant shall be painted with safety white enamel and marked in the roadway with a blue reflective marker as specified by the Fire Department and State Fire Safe Regulations.
- 6. Fire Department Access: Approved fire apparatus access roads and driveways shall be provided for every facility, building, or portion of a building. The fire apparatus access roads and driveways shall comply with the requirements of Section 503 of El Dorado Hills County Water District Ordinance 36 as well as State Fire Safe Regulations as stated below (but not limited to):
  - All roadways shall be a minimum of 20 feet wide, providing two ten (10) foot traffic lanes, not including shoulder and striping. Roadways adjacent to fire hydrants shall be a minimum 26 feet wide.
  - Each dead-end road shall have a turnaround constructed at its terminus.
  - Where parcels are zoned 5 acres or larger, turnarounds shall be provided at a maximum of 1320 foot intervals.
  - Where maximum dead-end road lengths are exceeded, there shall be a minimum of two access roadways allowing for the safe access of emergency apparatus and civilian evacuation concurrently.
  - The fire apparatus access roads and driveways shall extend to within 150 feet of all portions of each facility and all portions of the exterior of the first story of the building as measured by an approved route around the exterior of the building or facility.
  - Driveways and roadways shall have unobstructed vertical clearance of 15' and a horizontal clearance providing a minimum 2' on each side of the required driveway or roadway width.
  - Depending on final heights of each building, the final layout of fire apparatus access roads shall be determined and approved by the fire code official with consideration of whether a ladder truck or ground ladders would be used for firefighting operations.
  - h. The project shall be conditioned to connect a roadway, minimum 20 feet wide, to Lomita Court, through an easement. The existing gate located in the existing easement shall be removed, or conditioned to open from either side when vehicles pull up to it, allowing for unobstructed emergency traffic. The project may choose to pave a 12-foot-wide section and use AB on the outskirts to achieve the 20-foot-wide requirement.
- 7. Roadway Surface: Roadways shall be designed to support the imposed load of fire apparatus weighing at least 75,000 pounds and provide all-weather driving conditions. All-weather surfaces shall be asphalt, concrete or other approved driving surface. Project proponent shall provide engineering specifications to support design, if request by the local AHJ.
- 8. Roadway Grades: The grade for all roads, streets, private lanes and driveways shall not exceed 20%. Pavement/Concrete shall be required on all roadway grades 12% or greater. Grades between 16% and 20% shall have a minimum of a Type 2 surface for vehicular traction.
- 9. Traffic Calming: This development shall be prohibited from installing any type of traffic calming device that utilizes a raised bump/dip section of roadway. All other proposed traffic calming devices shall require approval by the fire code official.

- 10. <u>Turning Radius:</u> The required turning radius of a fire apparatus access road/driveway shall be determined by the fire code official. Current requirements are 40' inside and 56' outside on through streets, and a minimum 50-foot radius for Cul-De-Sacs and Hammerhead turnarounds.
- 11. <u>Gates:</u> All gates shall meet the El Dorado Hills Fire Department Gate Standard B-002. Gate plans shall be submitted and reviewed for compliance by the Fire Code Official.
- 12. <u>Fire Access During Construction</u>: In order to provide this development with adequate fire and emergency medical response during construction, all access roadways and fire hydrant systems shall be installed and in service prior to combustibles being brought onto the site as specified by the Fire Department, Standard B-003. A secondary means of egress shall be provided prior to any construction or the project can be phased.
- 13. <u>Fire Service Components:</u> Any Fire Department Connection (FDC) to the sprinkler system and all Fire Hydrant(s) outlets shall be positioned so as not to be obstructed by a parked vehicle.
- 14. <u>Funding Mechanism for Emergency Fire Access Components:</u> An HOA, Zone of Benefit, or similar funding mechanism shall be created to ensure the maintenance of emergency access roadways, gates, vegetative clearances, and other fire access components.
- 15. Wildland Fire Safe Plan: This development shall be conditioned to develop, implement, and maintain a Wildland Fire Safe Plan that is approved by the Fire Department as complying with the State Fire Safe Regulations, prior to approval of the Tentative Map. The project applicant is encouraged to reach out to the Southpointe HOA to develop an entire community Wildland Fire Safe Plan.
- 16. Fencing: Lots that back up to wildland open space shall be required to use non-combustible type fencing.
- 17. Knox Box and Keys: All Commercial or Public occupied buildings shall install a Knox Box and building keys including, but not limited to, main entry doors, utility closets, roof accesses, alarm panels, fire sprinkler locks and all other keys required by the fire code official for emergency access. It is recommended, but not required, that residential buildings also add a Knox box and main front door key for improved emergency access.
- 18. Parking and Fire Lanes: All parking restrictions as stated in the current California Fire Code and the current El Dorado Hills County Water District Ordinance shall be in effect. All streets with parking restrictions will be signed and marked with red curbs as described in the El Dorado County Regional Fire Protection Standard titled "No Parking-Fire Lane". All curbs in the parking lot(s) that are not designated as parking spaces will be painted red and marked every 25 feet "No Parking Fire Lane." This shall be white letters on a red background. There shall be a designated plan page that shows all Fire Lanes as required by the El Dorado County Regional Fire Protection Standard B-004 "No Parking-Fire Lane" and the fire code official.
- 19. <u>Setbacks</u>: Any parcels greater than one acre shall conform to State Fire Safe Regulations requirements for setbacks (minimum 30' setback for buildings and accessory buildings from all property lines).
- 20. <u>Vegetative Fire Clearances</u>: Prior to June 1<sup>st</sup> each year, there shall be vegetation clearance around all EVA's (Emergency Vehicle Access), buildings, up to the property line as stated in Public Resources Code Section 4291, Title 19 as referenced in the CA Fire Code, and the conditioned Wildland Fire Safe Plan.
- 21. <u>Trail Systems and Land-Locked Access:</u> If this project decides on designing a trail-type system or contains/abuts to land-locked open space, the project shall be conditioned to provide emergency vehicle access (EVA) points as required by the fire code official. Gates may be installed and locked with a low priority KNOX lock. The street curbs adjacent to the trail access point shall be painted red. All trails and

17-1143 D 13 of 18

multi-use paths need to be constructed so as to ensure a minimum of a 10' drivable width and 14' minimum vegetation clearance (the wildfire safe plan will likely require additional clearance on these paths). The purpose of this requirement is to allow access for ambulances and smaller fire apparatus in case of emergency.

- 22. Knox Key Shunt: A Knox Key Shunt system shall be installed to termite power to all back-up power generators.
- 23. Addressing: Approved numbers or addresses shall be provided for all new and existing buildings in such a position as to be plainly visible and legible from the street or road fronting the property, as per El Dorado County Standard B-001.
- 24. Landscaping: The landscaping plan shall be reviewed by the Fire Department to ensure that trees, plants, and other landscaping features proposed to be adjacent to the Fire Apparatus Access roads, Fire and Life Safety equipment, and near address locations on buildings and monuments will not impede fire apparatus access or visual recognition.
- 25. Improvement (Civil) Plans: A Fire plan sheet shall be included in the improvement plans that shows or lists all requirements from the Fire Department as they relate to design of the subdivision. These requirements include, but are not limited to, Fire Lanes (and how they relate to allowed parking), Hydrants, Turning Radius of all turns, Slope % of Roads/Driveways, 2 Points of Egress for the Public and Emergency Personnel, EVA's as required, Road Widths, Gates, etc.
- 26. Building and Fire Plans: Building, fire sprinkler and fire alarm plans shall be reviewed and approved by the fire department prior to respective permit issuance. The plans shall provide the use and occupancy classification for each building for future comments in regards to fire sprinklers, fire alarms, exiting, occupant loads, and other fire and life safety features. There shall be a designated plan page that shows all Fire Lanes as required by the El Dorado County Regional Fire Protection Standard B-004 "No Parking-Fire Lane" and the fire code official.

Contact Marshall Cox at the El Dorado Hills Fire Department with any questions at 916-933-6623 ext. 17.

Sincerely,

EL DORADO HILLS FIRE DEPARTMENT

Marshall Cox Fire Marshal



### **Exhibit I**

Letter No.: EEO 2016-0447

April 25, 2016

VIA FIRST-CLASS MAIL

Hamdi Kanaan 1501 Secret Ravine #1927 Roseville, CA 95661

Subject: Facility Improvement Letter (FIL), Southpointe Meadows

Assessor's Parcel No.: 110-450-07 (El Dorado Hills)

Dear Mr. Kanaan:

This letter is in response to your request dated February 26, 2016 and is valid for a period of three years. If facility improvement plans for this project are not submitted to El Dorado Irrigation District (EID or District) within three years of the date of this letter, a new Facility Improvement Letter will be required.

Design drawings for your project must be in conformance with the District's Water, Sewer and Recycled Water Design and Construction Standards.

This project is a 7-lot residential subdivision on 8.04 acres. Water service, sewer service, and fire hydrants are requested. The property is within the District boundary.

This letter is not a commitment to serve, but does address the location and approximate capacity of existing facilities that may be available to serve your project.

## Water Supply

As of January 1, 2015, there were approximately 4,088 equivalent dwelling units (EDUs) of water supply available in the El Dorado Hills Water Supply Region. Your project as proposed on this date would require 7 EDUs of water supply.

#### **Water Facilities**

An 8-inch water line exists in Lomita Way (see enclosed System Map). The El Dorado Hills Fire Department has determined that the minimum fire flow for this project is 1,000 GPM for a 2-hour duration while maintaining a 20-psi residual pressure. According to the District's hydraulic model, the existing system can deliver the required fire flow. In order to provide this fire flow and receive service, you must construct a water line extension connecting to the 8-inch waterline located in Lomita Way. The hydraulic grade line for the existing water distribution facilities is 820 feet above mean sea level at static conditions and 795 feet above mean sea level during fire flow and maximum daily demands.

The flow predicted above was developed using a computer model and is not an actual field flow test.

Letter No.: EEO 2016-0447 April 25, 2016 Page 2 of 3 To: Hamdi Kanaan



#### **Sewer Facilities**

There is an 8-inch sewer line stub located near the intersection of Lomita Court and Bonita Drive. This sewer line has adequate capacity at this time. In order to receive service from this line, an extension of facilities of adequate size must be constructed. Your project as proposed on this date would require 7 EDUs of sewer service.

#### **Easement Requirements**

Proposed water lines, sewer lines and related facilities must be located within an easement accessible by conventional maintenance vehicles. When the water lines or sewer lines are within streets, they shall be located within the paved section of the roadway. No structures will be permitted within the easements of any existing or proposed facilities. The District must have unobstructed access to these easements at all times, and does not generally allow water or sewer facilities along lot lines.

Easements for any new District facilities constructed by this project must be granted to the District prior to District approval of water and/or sewer improvement plans, whether on-site or off-site. In addition, due to either nonexistent or prescriptive easements for some older facilities, any existing on-site District facilities that will remain in place after the development of this property must also have an easement granted to the District.

#### Environmental

The County is the lead agency for environmental review of this project per Section 15051 of the California Environmental Quality Act Guidelines (CEQA). The County's environmental document should include a review of both off-site and on-site water and sewer facilities that may be constructed by this project. You may be requested to submit a copy of the County's environmental document to the District if your project involves significant off-site facilities. If the County's environmental document does not address all water and sewer facilities and they are not exempt from environmental review, a supplemental environmental document will be required. This document would be prepared by a consultant. It could require several months to prepare and you would be responsible for its cost.

#### **Summary**

Service to this proposed development is contingent upon the following:

- The availability of uncommitted water supplies at the time service is requested;
- Approval of the County's environmental document by the District (if requested);
- Approval of an extension of facilities application by the District;
- Executed grant documents for all required easements;
- Approval of facility improvement plans by the District;
- Construction by the developer of all onsite and offsite proposed water and sewer facilities:
- Acceptance of these facilities by the District; and
- Payment of all District connection costs.



Letter No.: EEO 2016-0447 To: Hamdi Kanaan



Services shall be provided in accordance with El Dorado Irrigation District Board Policies and Administrative Regulations, as amended from time-to-time. As they relate to conditions of and fees for extension of service, District Administrative Regulations will apply as of the date of a fully executed Extension of Facilities Agreement.

If you have any questions, please contact me at (530) 642-4054.

Sincerely,

Michael J. Brink, P.E. Supervising Civil Engineer

MB/MM:at

Enclosures: System Map

cc w/ System Map:

Val Tarasau

**CNA** Engineering

Via email – vt.cnaeng@sbcglobal.net

Marshall Cox – Fire Marshal El Dorado Hills Fire Department Via email - mcox@edhfire.com

Roger Trout, Director El Dorado County Development Services Department Via email - roger.trout@edcgov.us

