

# TIMBERLINE DRIVE DRAINAGE PLANS

4824 TIMBERLINE DR.

AUSTIN, TEXAS 78746

DRAINAGE PLANS FOR  
4824 TIMBERLINE DR

## OWNER:

EEF CUSTOM HOMES & REMODELING LLC  
3267 BEE CAVE RD #107-293  
AUSTIN, TX 78746-6700

## ENGINEER

LOC CONSULTANTS  
FIRM NO. 4756  
SERGIO LOZANO-SANCHEZ P.E.  
1715 E 7TH STREET, AUSTIN, TX 78702  
PHONE: (512) 524-0677



VICINITY MAP  
NOT TO SCALE



MAPSCO PAGE: 616A      PROPERTY ID NUMBER: 107636  
GEOGRAPHIC ID: 0108111004      DEED NUMBER: 2019193999

## LEGAL DESCRIPTION

LOT 4 BLK B TIMBERLINE TERRACE SEC 3

WATERSHED STATUS - THIS PROJECT IS LOCATED IN THE EANES CREEK WATERSHED.

THERE ARE NO SLOPES GREATER THAN 15%

THIS SITE IS WITHIN THE EDWARD'S AQUIFER RECHARGE ZONE ACCORDING TO CITY OF AUSTIN MAP AND TECQ.

NO PORTION OF THE SITE LIES WITHIN THE 100 YEAR FLOOD PLAIN, ACCORDING TO THE FLOOD INSURANCE RATE MAP, PANEL NO.FM 48453C0445J, DATED JANUARY 6, 2016 FOR TRAVIS COUNTY, TEXAS.

THIS SITE IS COMPOSED OF 0.3471 ACRES OF LAND.

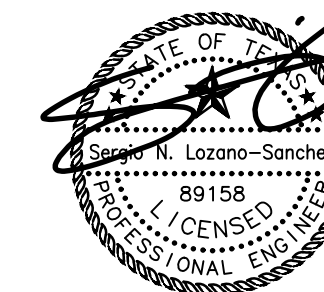
## GENERAL CONSTRUCTION NOTES

- ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAIN WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF ROLLINGWOOD MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
- CONTRACTOR SHALL CALL THE ONE CALL SYSTEM (1-800-344-8377) FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET R.O.W.
- FOR SLOPES OR TRENCHES GREATER THAN FIVE FEET IN DEPTH: ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA STANDARDS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET, AUSTIN, TEXAS).
- ALL SITE WORK MUST ALSO COMPLY WITH ENVIRONMENTAL REGULATIONS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TRAFFIC CONTROL PERMIT PRIOR TO CONSTRUCTION IN THE RIGHT-OF-WAY.

## INDEX OF DRAWINGS

- COVER
- DRAINAGE AREA MAP
- DRAINAGE SITE PLAN
- EROSION AND SEDIMENTATION CONTROL PLAN
- RAINWATER HARVESTING SYSTEM PLAN

I CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL. I DO HEREBY CERTIFY THAT THE ENGINEERING WORK BEING SUBMITTED HEREIN COMPLIES WITH ALL PROVISIONS OF THE TEXAS ENGINEERING PRACTICE ACT. I HEREBY ACKNOWLEDGE THAT ANY MISREPRESENTATION REGARDING THIS CERTIFICATION CONSTITUTES A VIOLATION OF THE ACT, AND MAY RESULT IN CRIMINAL, CIVIL AND/OR ADMINISTRATIVE PENALTIES AGAINST ME, AS AUTHORIZED BY THE ACT.



SERGIO LOZANO - TEXAS P.E.

REVIEWED BY:

CITY OF ROLLINGWOOD

01/21/2020

DATE

DATE

## REVISIONS/CORRECTIONS

NO.	DESCRIPTION	REVISE(R) VOID(V) / ADD(A) SHEET NO.	TOTAL # SHEETS IN SET	NET CHANGE IMPERV. COVER	SITE IMPERV. COVER	% SITE IMPERV. COVER	CITY OF AUSTIN APPROVAL DATE	DATE IMAGED

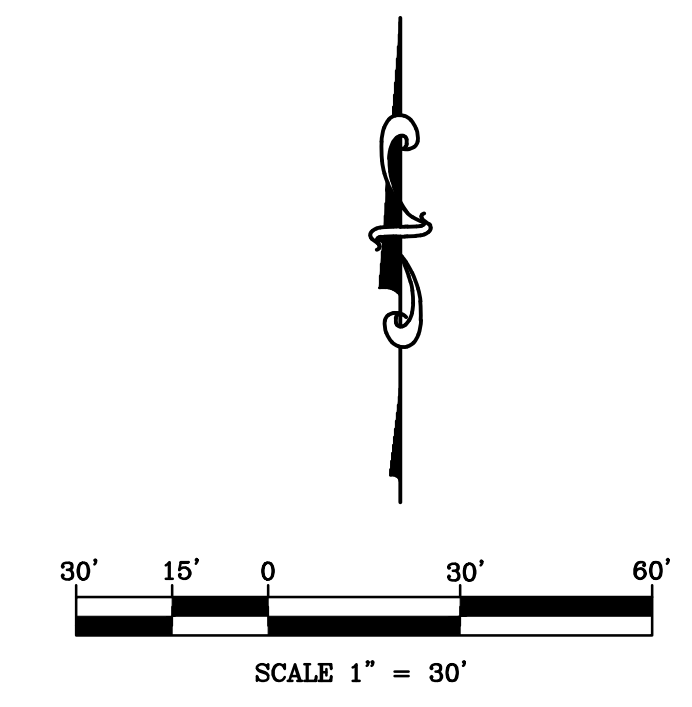
EXISTING DRAINAGE AREA MAP



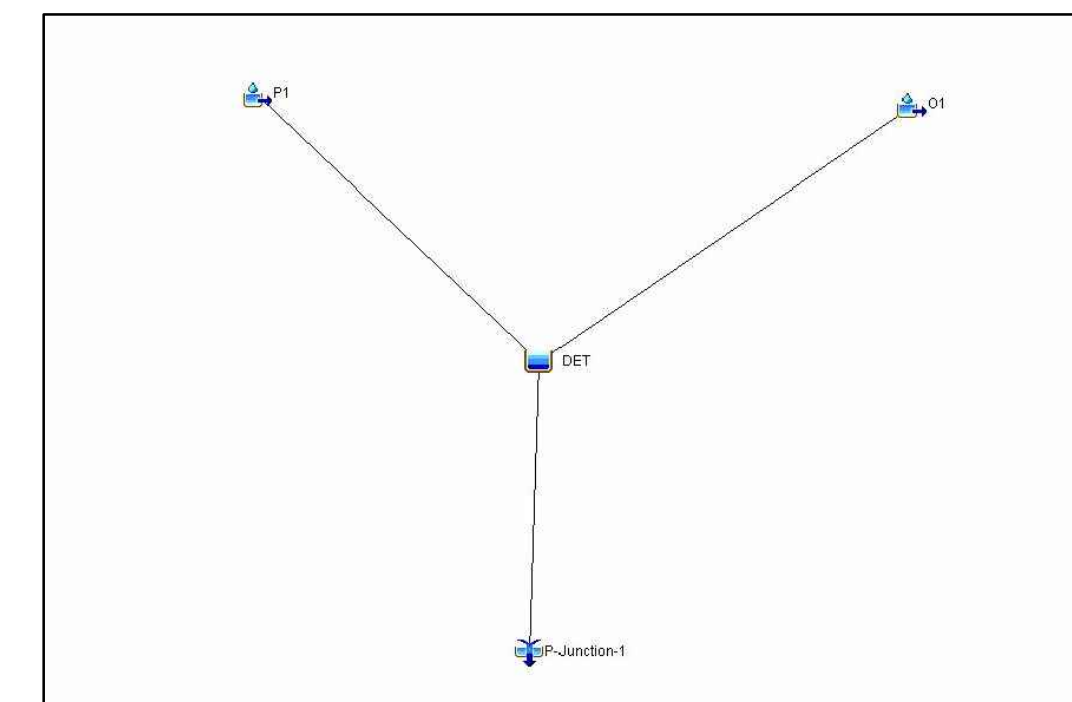
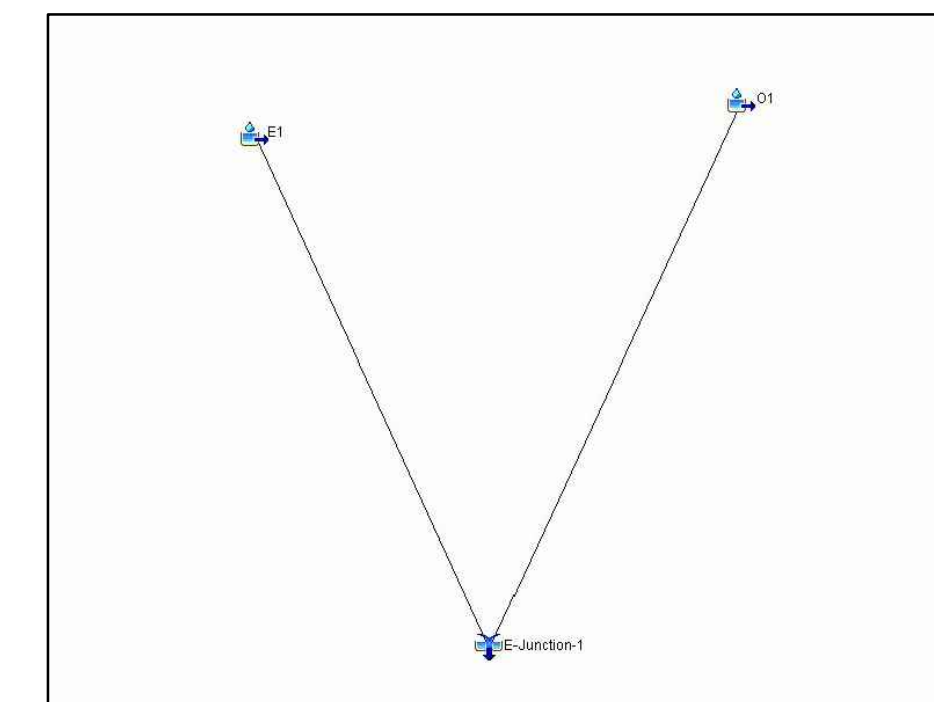
PROPOSED DRAINAGE AREA MAP



PROPOSED DETENTION POND. SEE DETAILS ON SHEET 3.



HEC-HMS MODEL



Project Name: **Timberline Dr.**  
**HEC-HMS INPUTS**

Drainage Area	Area (s.f.)	Area (sq. mi.)	Tc (hr)	Tlag (hr)	Imp. Cov. (s.f.)	Imp. Cov. (%)	Soil Type	Perious Cover Type	Hydro. Cond.	Hydro Group	Imp. Cov. CN	Perious CN	Weighted CN	Q2 (CFS)	Q10 (CFS)	Q25 (CFS)	Q100 (CFS)	
<b>EXISTING CONDITIONS</b>																		
E1	14,991		0.00054	0.05	0.05	3,116	20.78%	UTD, UsC	Grassland	Good	D	98	61	68.69	0.90	1.80	2.40	3.30
O1	18,008		0.00065	0.02	0.05	7,905	43.90%	UTD, UsC	Grassland	Good	D	98	61	77.24	0.50	1.20	1.70	2.50
<b>PROPOSED CONDITIONS</b>														<b>E-JUNCTION1</b>				
P1	14,991		0.00054	0.08	0.05	5,704	38.05%	UTD, UsC	Grassland	Good	D	98	61	75.08	1.00	2.00	2.60	3.60
O1	18,008		0.00065	0.02	0.05	7,905	43.90%	UTD, UsC	Grassland	Good	D	98	61	77.24	0.70	1.40	1.90	2.70
														<b>DET</b>				
														<b>P-JUNCTION1</b>				
														1.30 2.80 3.60 5.70				

SOIL HYDROLOGIC GROUP (From Soil Survey of Travis County, Texas):  
 Tc: Calculated with TR-55  
 Tlag: Maximum of Tc x 0.60 or 5 minutes

**TIME OF CONCENTRATION CALCULATIONS ( SCS METHOD )**

Project: Timberline Drive  
 Sheetflow  $T_t = (0.007 (L^n) / (P^2 * 0.5)) / ((P^2 * 0.5) * (s^0.4))$  Shallow Concentrated  $T_c = L / (3600V)$   
 $P = 3.44$  inches 2-year, 24 Hr rainfall  $T_c = L / V_{vel}$   
 $T_t =$  Travel Time ( hr )  $n =$  Manning's roughness coefficient  $T_c = (1.49/n) * A * (R^{2/3}) * S^{0.5}$   
 $L =$  flow length (ft)  $s =$  slope of hydraulic grade line (and slope, ft/ft)  $V_{vel}$  Paved surface = 20.3282 s^0.5 (1)  
 $V =$  average Velocity ( ft/sec )  $V_{vel}$  unpaved surface = 16.1345 s^0.5 (2)

Area	Sheetflow					Shallow Concentrated					Concentrated										Total Tc (hr)					
	L (ft)	n	s (%)	Tt1 (hr)	Tt2 (hr)	L (ft)	Surface (1 OR 2)	s (%)	Tt3 (hr)	L (ft)	Surface (1 OR 2)	s (%)	Tt4 (hr)	Bottom (ft)	Depth (ft)	Width (ft)	s (%)	n	A (sq.ft)	R (ft)		P (ft)	Q (cfs)	Vel (ft/sec)	L (ft)	Tt5 (hr)
E1	100	0.10	6.10%	0.07		80	2	6.10%	0.0056																	0.08
O1	100	0.02	8.40%	0.02		114	2	8.14%	0.0069																	0.02
P1	100	0.10	6.10%	0.07		56	2	6.10%	0.0039																	0.08

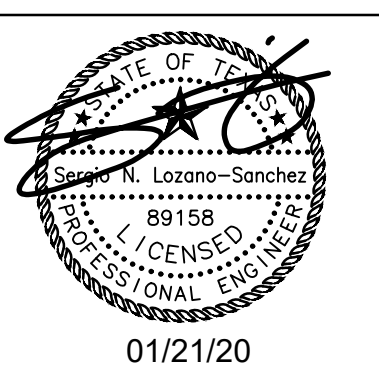
Project: 4824 Timberline Dr.  
 Date: 1/13/2020

IMPERVIOUS COVER CALCULATIONS

Site Area 14,988.62 SF

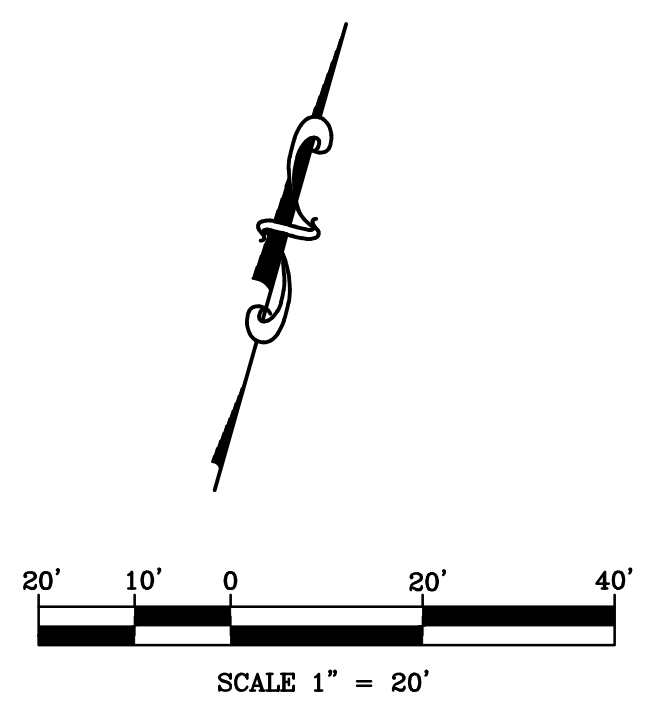
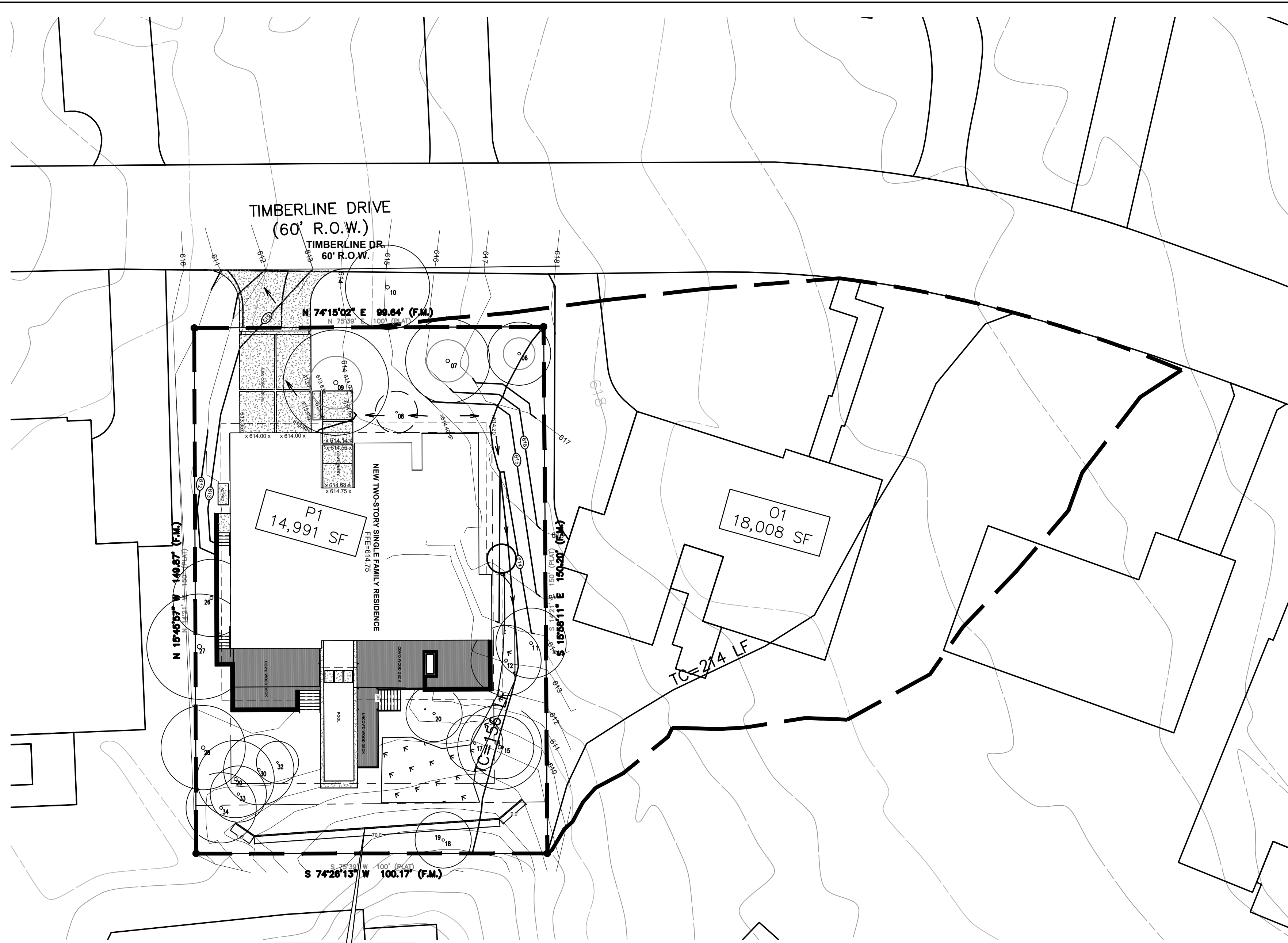
Category	Area (SF)	Percentage
Existing		
Bldg	1,822.78	
Concrete	1,094.86	
Stone	80.46	
<b>TOTAL</b>	<b>2,998.10</b>	<b>20.0%</b>
Proposed		
Bldg	4,092.00	
Conc	940.14	
Wood Deck	1,075.09	537.545
<b>TOTAL</b>	<b>5,569.69</b>	<b>37.2%</b>

REVISIONS/CORRECTIONS



4824 TIMBERLINE DRIVE  
 AUSTIN, TEXAS 78746  
 DRAINAGE AREA MAP

**LOC CONSULTANTS CIVIL DIVISION INC**  
 FIRM 4756  
 1715 E 7TH STREET, AUSTIN TEXAS 78702  
 PHONE: (512) 324-0677  
 Email: sergio@locivil.com  
 Ph: (512) 524-0677  
 sergio@locivil.com



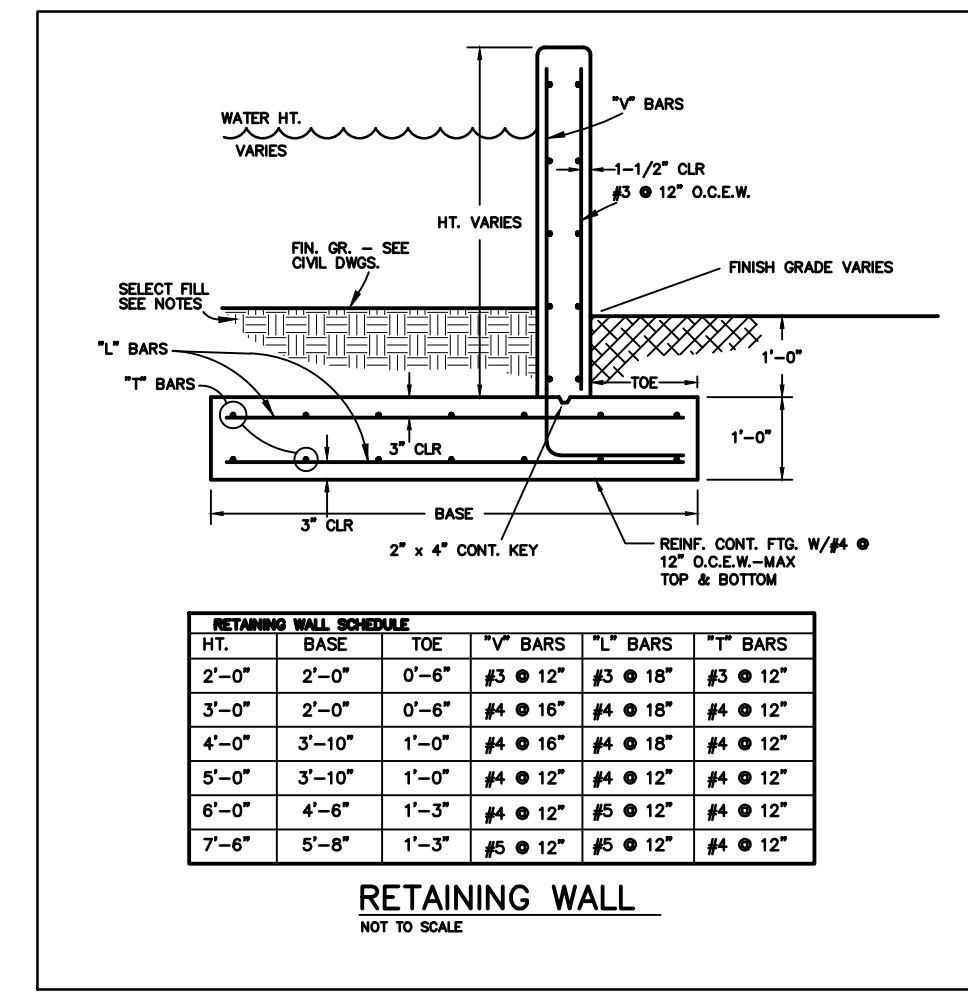
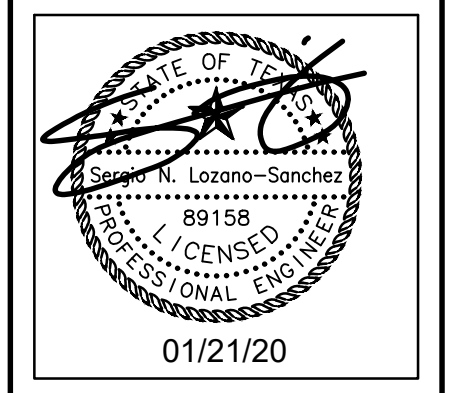
- GENERAL SITE NOTES:**
- THE CONTRACTOR TO PROVIDE FINISHED GRADING AS SHOWN ON PLANS TO PROVIDE PROPER DRAINAGE OF SURFACE WATER AWAY FROM THE BUILDING(S).
  - FINAL LOCATION OF PROPOSED RESIDENCE SHALL BE DETERMINED BY THE CONTRACTOR.
  - THERE ARE NO STORM SEWER INLETS WITHIN THE LOT FRONTAGE OR 10' BEYOND THE SIDE PROPERTY LINES.
  - UTILITY LINE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY FOR EXACT LOCATIONS.
  - ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S SOLE EXPENSE.
  - EROSION CONTROL BARRIERS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - STABILIZED TEMPORARY CONSTRUCTION ENTRANCE SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION UNLESS AN EXISTING IMPERVIOUS SURFACE OR DRIVEWAY IS BEING USED AS THE CONSTRUCTION SITE ENTRANCE.
  - ALL CONSTRUCTION MATERIALS AND WASTE SHALL BE STORED ONSITE DURING CONSTRUCTION.
  - LANDSCAPE PLANS TO BE PROVIDED BY OTHERS.
  - NO EXISTING TREES OR TREE LIMBS SHALL BE REMOVED OR DISTURBED WITHOUT OWNER APPROVAL.
  - CONTRACTOR SHALL CLEAN UP AREAS AFFECTED BY DAILY WORK AND REMOVE DEBRIS AND MATERIALS FROM THE SITE UPON COMPLETION OF THE WORK.
  - DISPOSAL OF SPOIL IS THE RESPONSIBILITY OF THE CONTRACTOR.
  - CONTRACTOR SHALL THOROUGHLY REVIEW PLANS AND ALL RELATED CONSTRUCTION DOCUMENTS TO VERIFY AND COORDINATE DIMENSIONS, LOCATIONS, ELEVATIONS, FLOW LINES, PLACEMENT AND APPLICABILITY OF CONSTRUCTION COMPONENTS AS WELL AS THEIR RELATIONSHIP TO EACH OTHER AND THE EXISTING CONDITIONS.
  - ANY DISCREPANCIES, CONFLICTS AND OMISSIONS THAT ARE CRITICAL TO THE BID SHALL BE ADDRESSED BY THE CONTRACTOR PRIOR TO HIS/HER BID, OR INCLUDED IN THE BID AS A PROPOSAL SOLUTION AND CHANGES TO DELIVER A COMPLETE PROJECT. ANY CHANGES AND ADDITIONAL WORKS REQUIRED TO CLARIFY DISCREPANCIES, CONFLICTS, AND OMISSIONS THAT ARE NOT IDENTIFIED WITH THE BID ARE CONSIDERED NON-CRITICAL TO THE BID, AND SHALL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
  - CONTRACTOR SHALL BE COMPETENT AND EXPERIENCED IN THE TYPE OF CONSTRUCTION USED AND HAVE FULL KNOWLEDGE OF CONSTRUCTION METHODS AND PROCEDURES. CONTRACTOR SHALL COORDINATE ALL TRADES AND PROVIDE A COMPLETE PROJECT.
  - THESE DRAWINGS, IN GENERAL, ARE DIAGRAMMATIC, AND NOT INTENDED TO BE USED AS A MANUAL. FABRICATION, CONSTRUCTION METHODS, AND PLACEMENT SHALL COMPLY WITH STANDARD CONSTRUCTION PRACTICE AND APPLICABLE LOCAL CODE(S), IN THE ABSENCE OF THE LOCAL CODE, THE INTERNAL BUILDING CODE (LATEST EDITION) SHALL APPLY.
  - THE EXACT LOCATIONS OF STRUCTURES AND IMPROVEMENTS SHOWN ON ENGINEER'S PLANS ARE BASED ON THE ARCHITECTURAL SITE PLAN AND/OR OWNER'S PLAN. THE ARCHITECT AND THE CONTRACTOR ARE RESPONSIBLE FOR VERIFYING ALL SITE RESTRICTIONS, SUCH AS BUILDING SETBACKS, RESTRICTIVE COVENANTS, PROPERTY LINES, AND HOMEOWNERS ASSOCIATIONS LIMITATIONS.
  - THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO THEIR FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.

Project: 4824 Timberline Dr.  
Date: 1/13/2020

**IMPERVIOUS COVER CALCULATIONS**

Site Area	14,988.62	SF
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NO.	REVISIONS/CORRECTIONS	DESCRIPTION



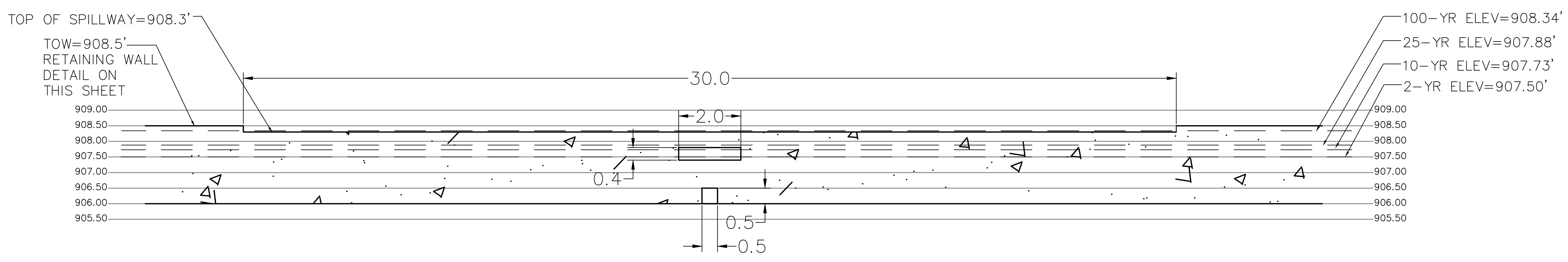
Project Name: **Timberline Dr.**

**HEC-HMS INPUTS**

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SOIL HYDROLOGIC GROUP (From Soil Survey of Travis County, Texas):  
Tc: Calculated with TR-55  
Tlag: Maximum of Tc x 0.60 or 5 minutes

**OUTLET STRUCTURE SCALE 1"=2'**

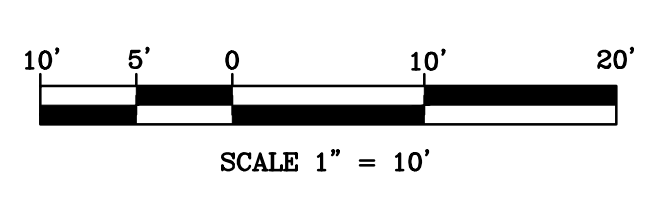
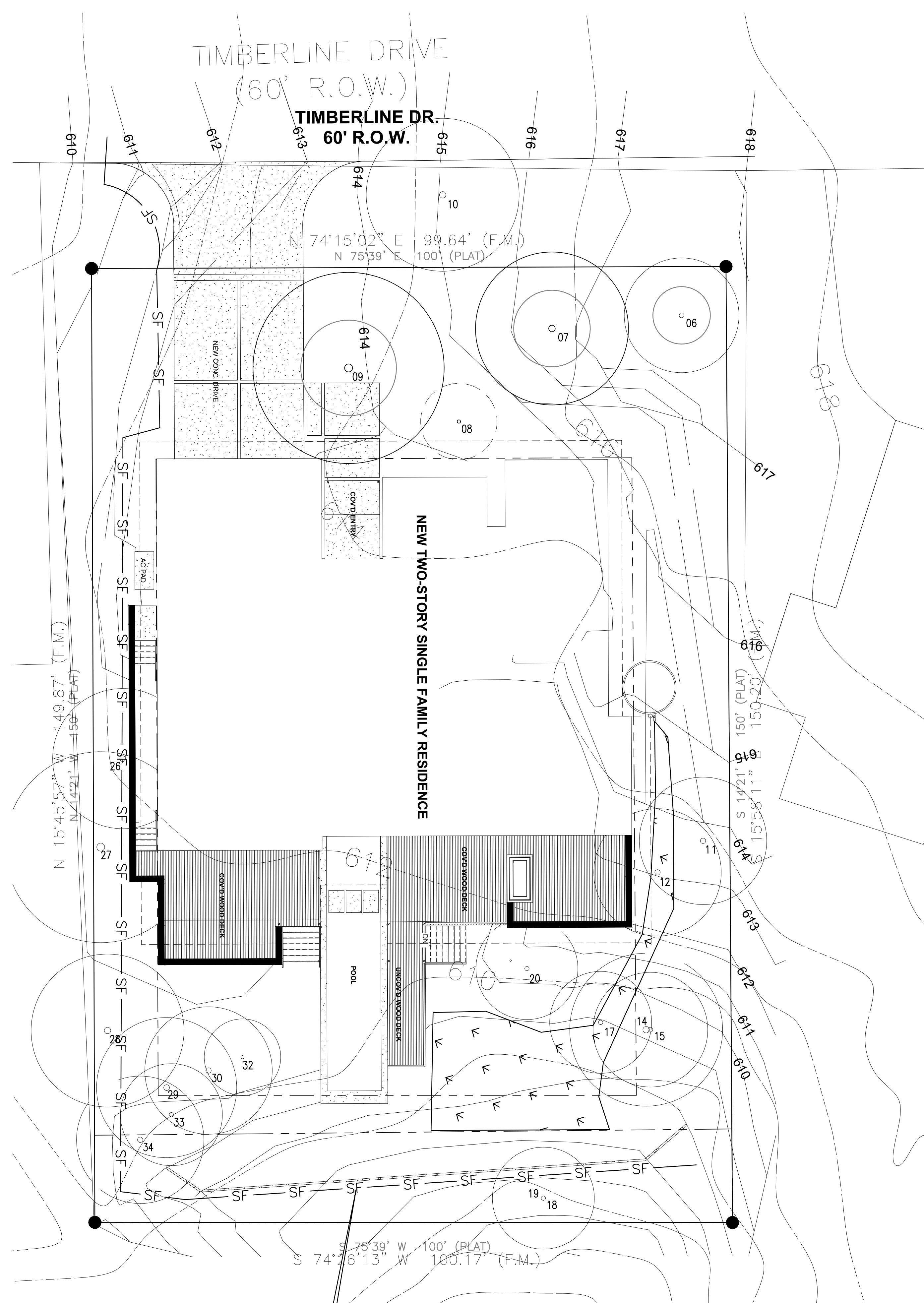


**4824 TIMBERLINE DRIVE**  
AUSTIN, TEXAS 78746

**DRAINAGE SITE PLAN**

**LOC CONSULTANTS CIVIL DIVISION INC**  
FIRM 4756  
1715 E 7TH STREET, AUSTIN TEXAS 78702  
PHONE: (512) 824-0877  
Email: sargio@loccivil.com

Ph: (512) 524-0677  
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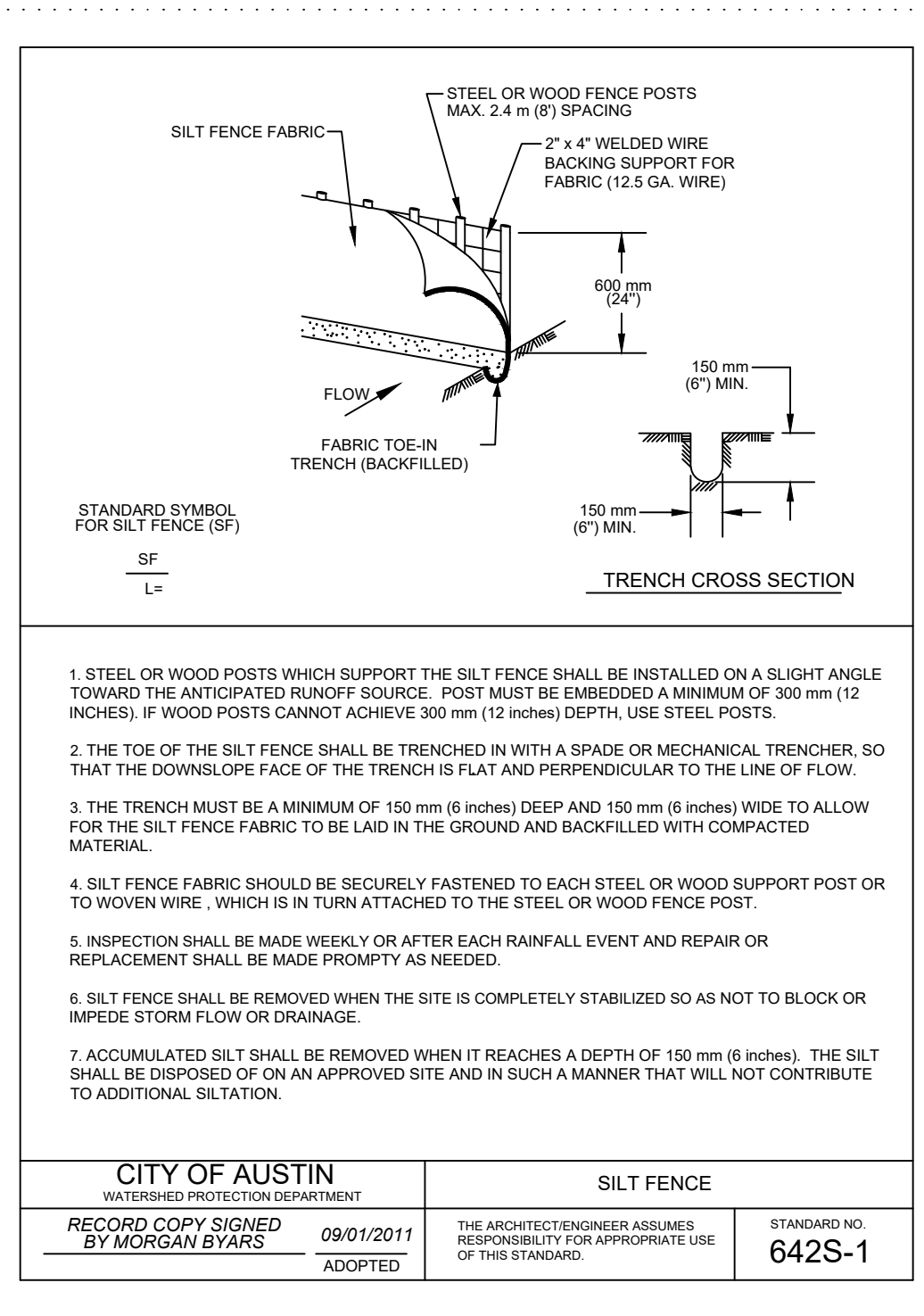
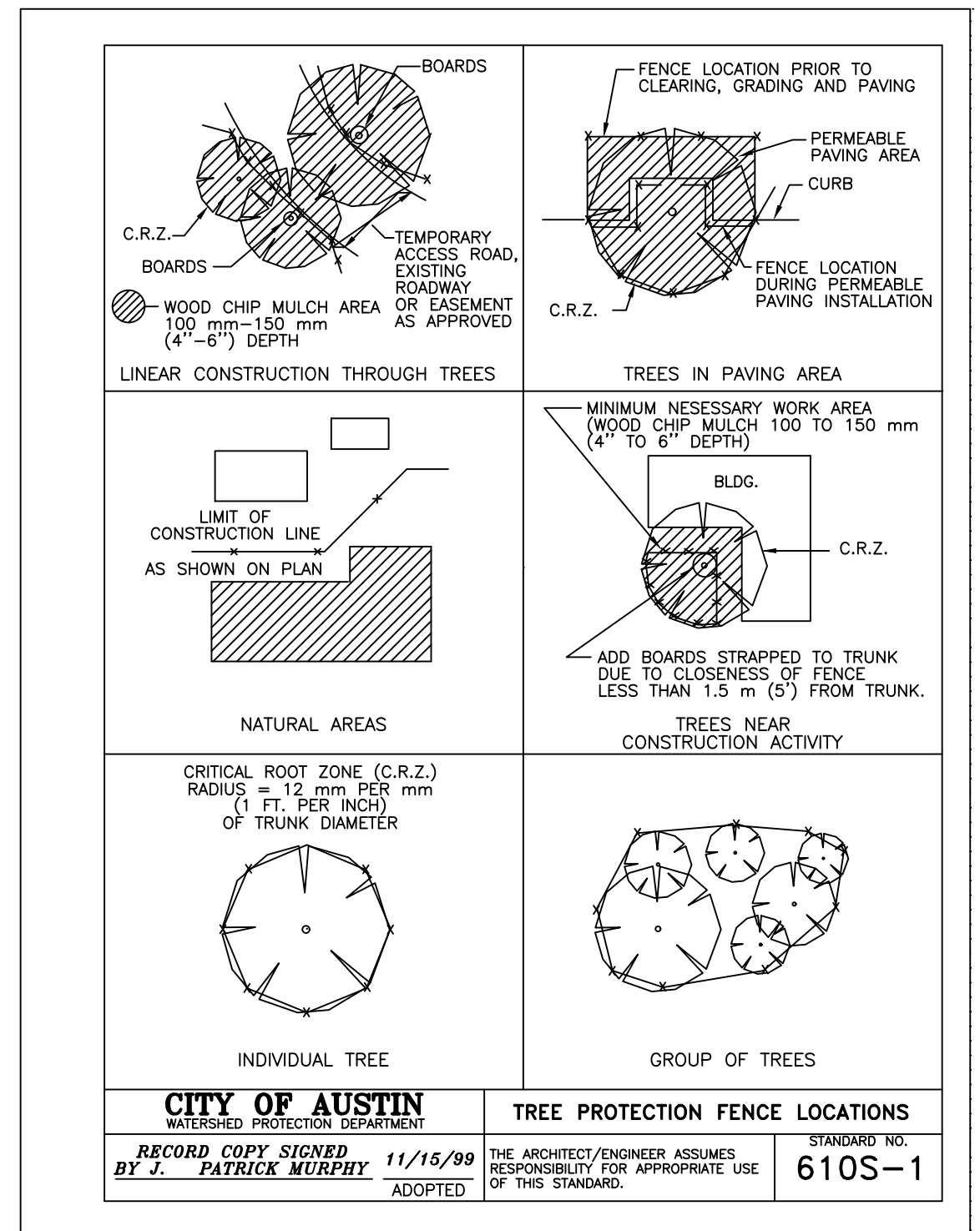


- EROSION CONTROL NOTES**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND INSPECTING, ON A REGULAR BASIS, ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES INCLUDING THE SILT FENCES, ROCK FILTER DAMS, ETC. DURING CONSTRUCTION/DEMOLITION AND INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ANY ACCUMULATED SILT AND DEBRIS.
  2. THE CONTRACTOR SHALL NOT BEGIN ANY WORK UNTIL TREE PROTECTION AND THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SUCH AS SILT FENCE, CONSTRUCTION ENTRANCES, ROCK FILTER DAMS, ETC. HAVE BEEN INSTALLED.
  3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE STREETS FREE OF MUD, DIRT, DEBRIS AND MATERIAL AT ALL TIMES AND SHALL CLEAN/SWEEP THE STREETS ON A REGULAR BASIS AND AT THE DIRECTION OF THE CITY.
  4. INCREASED STORMWATER PEAK FLOWS DURING CONSTRUCTION MUST BE MITIGATED WITH TEMPORARY BEST MANAGEMENT PRACTICES TO PREVENT HARM TO NEIGHBORING PROPERTIES.
  5. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
  6. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
  7. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE CONTRACTOR MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS.
  8. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST OR CITY ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE CITY. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
  9. THE VEGETATIVE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION SHALL BE AS FOLLOWS:

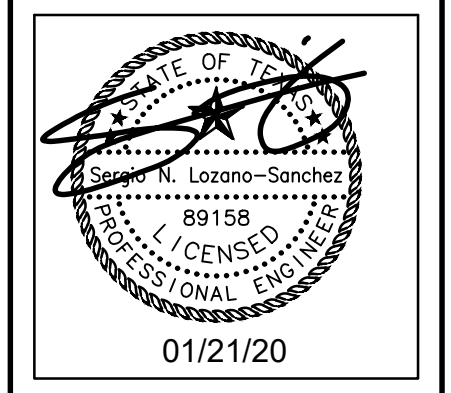
- TEMPORARY VEGETATIVE STABILIZATION:**
1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH COOL SEASON COVER CROPS (WHEAT AT 0.5 POUNDS PER 1000 SF, OATS AT 0.5 POUNDS PER 1000 SF, CEREAL RYE GRAIN AT 0.5 POUNDS PER 1000 SF) WITH A TOTAL RATE OF 1.5 POUNDS PER 1000 SF. COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.
  2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 1 POUNDS PER 1000 SF.
- A. FERTILIZER SHALL BE WATER SOLUBLE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT A RATE OF 1/2 POUND PER 1000 SF.**
- B. HYDROMULCH SHALL COMPLY WITH TABLE 1, BELOW.**
- C. TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1 1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.**
- D. WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA.**

- PERMANENT VEGETATIVE STABILIZATION:**
1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY. IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE-HALF (1/2) INCH AND THE AREA SHALL BE RE-SEEDED IN ACCORDANCE WITH 2 BELOW.
  2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 1 POUND PER 1000 SF WITH A PURITY OF 95% WITH 85% GERMINATION. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL.
- A. FERTILIZER SHALL BE A WATER SOLUBLE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT A RATE OF 1/2 POUND PER 1000 SF.**
- B. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.**
- C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT DAILY INTERVALS (MINIMUM) DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF 1/4 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK.**

- SEQUENCE OF MAJOR ACTIVITIES:**
1. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN CONTAINED HERIN.
  2. PRECONSTRUCTION MEETING
  3. CONTACT "TEXAS 811" AT 811 TO LOCATE EXISTING UTILITIES.
  4. CLEARING, GRUBBING AND ROUGH GRADING INCLUDING A ROUGH-CUT OF ALL WATER QUALITY STRUCTURES.
  5. LAY BASE FOR FOUNDATION.
  6. POUR SLAB AND COMMENCE HOME SITE CONSTRUCTION.
  7. INSTALL DRIVEWAY ONCE LARGE VEHICLES ARE NO LONGER PRESENT AT SITE.
  8. COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION.
  9. REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.
  10. RESTORE ANY DISTURBED AREAS AS A RESULT OF TEMPORARY EROSION CONTROL REMOVAL. CLEAN UP AREA WITHIN THE LIMITS OF CONSTRUCTION.
  11. INSPECTION VISIT BY DESIGN ENGINEER TO PROVIDE LETTER OF CONCURRENCE.
  12. FINAL WALKTHROUGH WITH CITY INSPECTOR.



NO.	DESCRIPTION



**4824 TIMBERLINE DRIVE**  
AUSTIN, TEXAS 78746

**EROSION SEDIMENTATION CONTROLS PLAN**

**LOC CONSULTANTS CIVIL DIVISION INC**  
FIRM 4756  
1715 E 7TH STREET, AUSTIN TEXAS 78702  
PHONE: (512) 324-0877  
Email: sargio@loccivil.com

Ph: (512) 524-0677  
sergio@loccivil.com

