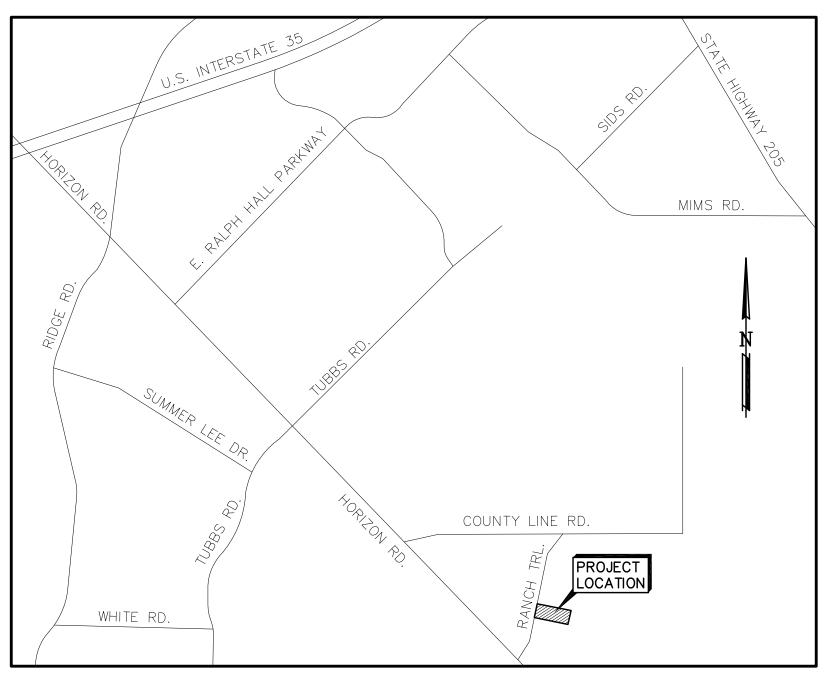
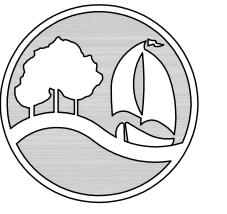
R.D. MOORMAN, INC. RAINBO ACRES - LOT 22 259 RANCH TRAIL ROCKWALL, TEXAS 75032

SITE IMPROVEMENTS OCTOBER 2019



VICINITY MAP



City of Rockwall The New Horizon

PREPARED BY:

LAM CONSULTING ENGINEERING

6804 WILHELMINA DRIVE SACHSE, TEXAS 75048 (214) 766-1011www.lamcivil.com Firm# F-9763

SHEET INDEX

- 8 PAVING PLAN 9 EROSION CONTROL PLAN

CITY OF ROCKWALL ENGINEERING DEPARTMENT LATEST

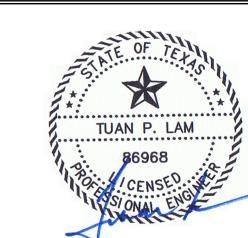
STANDARD DETAILS AND NCTCOG 4TH EDITION SHALL BE USED FOR CONSTRUCTION OF THIS PROJECT UNLESS OTHERWISE NOTED WITHIN THESE PLANS. THE CONTRACTOR SHALL OBTAIN THE STANDARD DETAIL BOOK FROM THE CITY'S ENGINEERING DEPARTMENT.

R.D. MOORMAN, INC. 259 RANCH TRAIL ROCKWALL, TEXAS 75032 (972) 722-2408

AS-BUILT PLANS

AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON THE CITY INSPECTOR INFORMATION AND SITE VISIT ON 11/15/2022

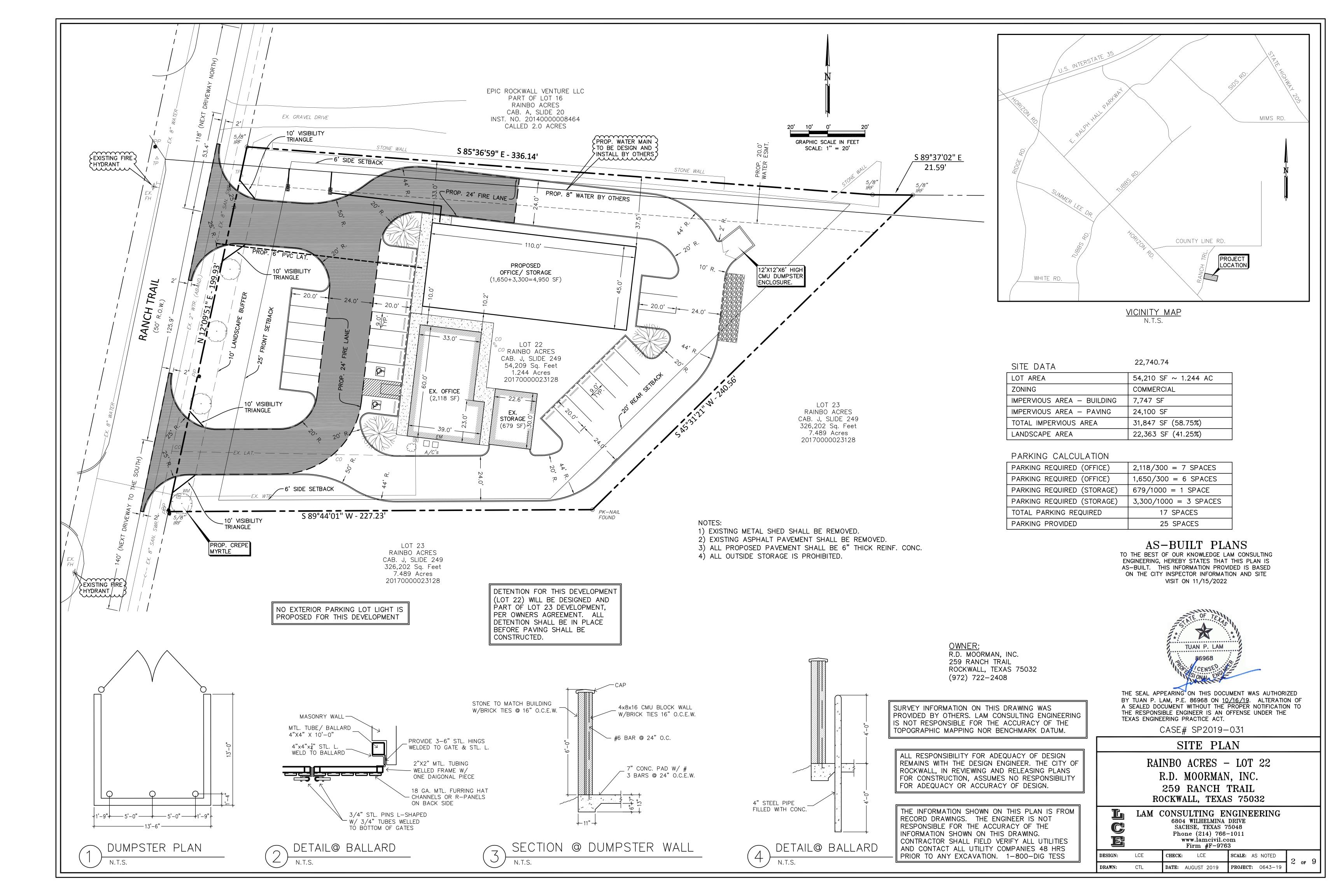
ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

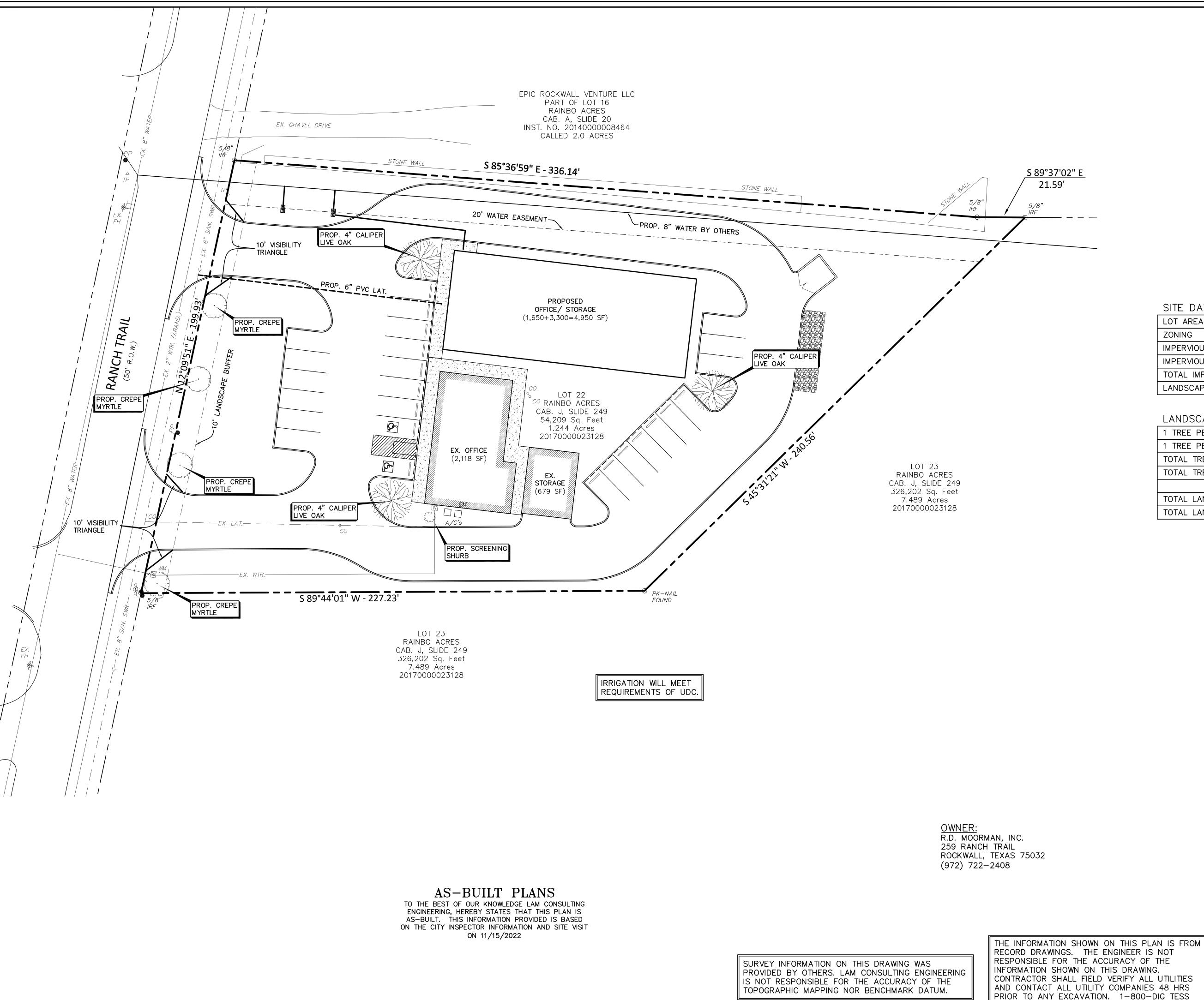


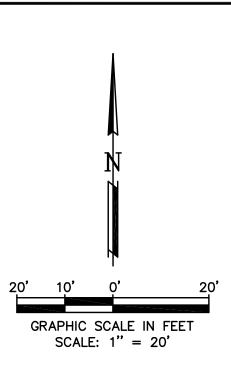
BY TUAN P. LAM, P.E. 86968 ON 10/16/19. ALTERATION OF A SEALED DOCUMENT WITHOUT THE PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

SURVEY INFORMATION ON THIS DRAWING WAS PROVIDED BY OTHERS. LAM CONSULTING ENGINEERING IS NOT RESPONSIBLE FOR THE ACCURACY OF THE FOPOGRAPHIC MAPPING NOR BENCHMARK DATUM.

THE INFORMATION SHOWN ON THIS PLAN IS FROM RECORD DRAWINGS. THE ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN ON THIS DRAWING. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES AND CONTACT ALL UTILITY COMPANIES 48 HRS PRIOR TO ANY EXCAVATION. 1-800-DIG TESS







SITE DATA

LOT AREA	54,210 SF ~ 1.244 AC
ZONING	COMMERCIAL
IMPERVIOUS AREA - BUILDING	7,747 SF
IMPERVIOUS AREA - PAVING	24,100 SF
TOTAL IMPERVIOUS AREA	31,847 SF (58.75%)
LANDSCAPE AREA	22,363 SF (41.25%)

LANDSCAPE TABLE

1 TREE PER 50' OF FRONTAGE	200'/50 = 4 TREES
1 TREE PER 20,000 SF PARKING	4,680/20,000 = 1 TREE
TOTAL TREE REQUIRED	5 TREES
TOTAL TREE PROVIDED	3 TREES (LIVE OAK)
	4 TREES (CREPE MYRTLE)
TOTAL LANDSCAPE REQUIRED	5,421 SF (10.0%)
TOTAL LANDSCAPE PROVIDED	22,363 SF (41.25%)

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.



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CASE# SP2019-031

LANDSCAPE PLAN

RAINBO ACRES - LOT 22 R.D. MOORMAN, INC. 259 RANCH TRAIL ROCKWALL, TEXAS 75032

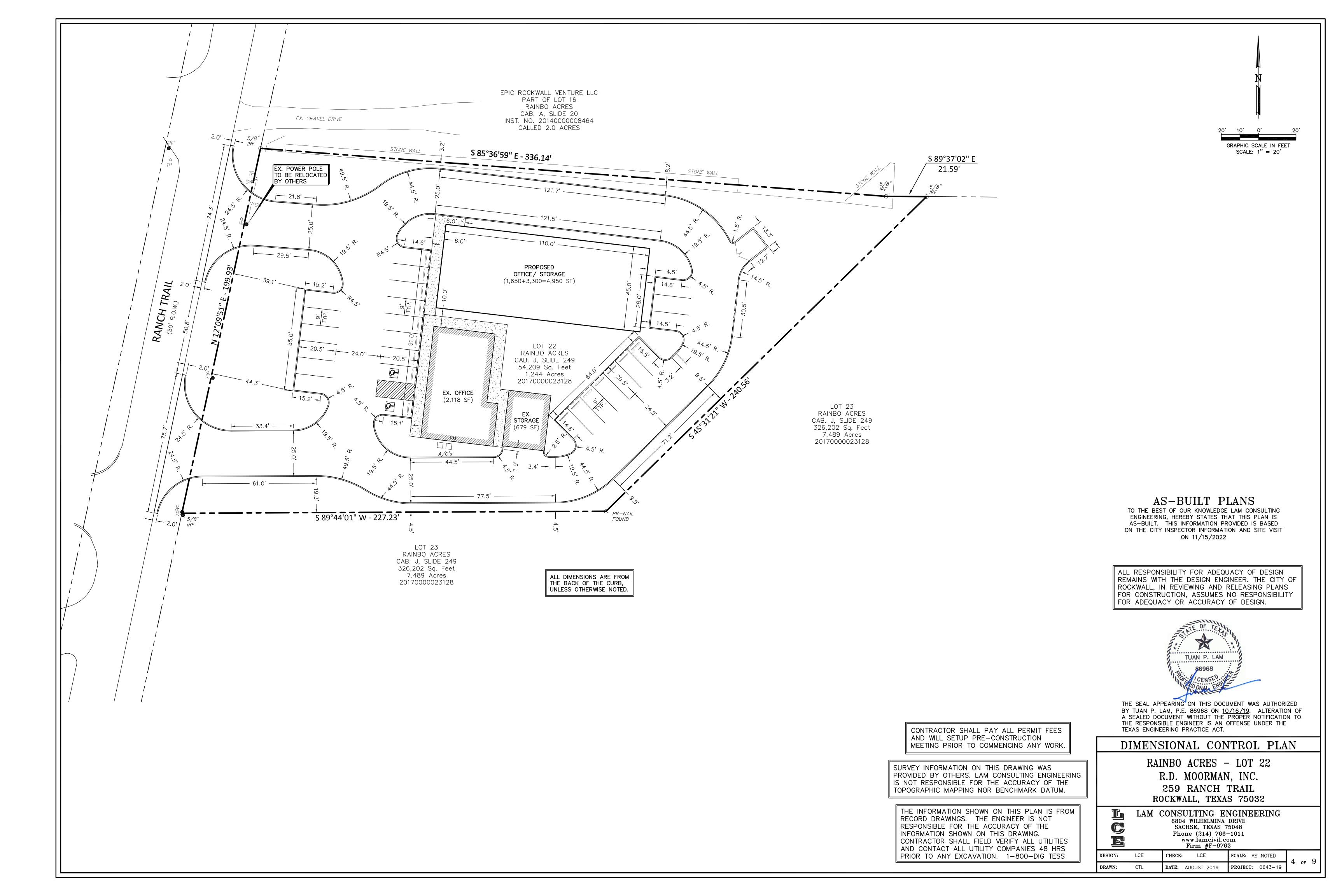


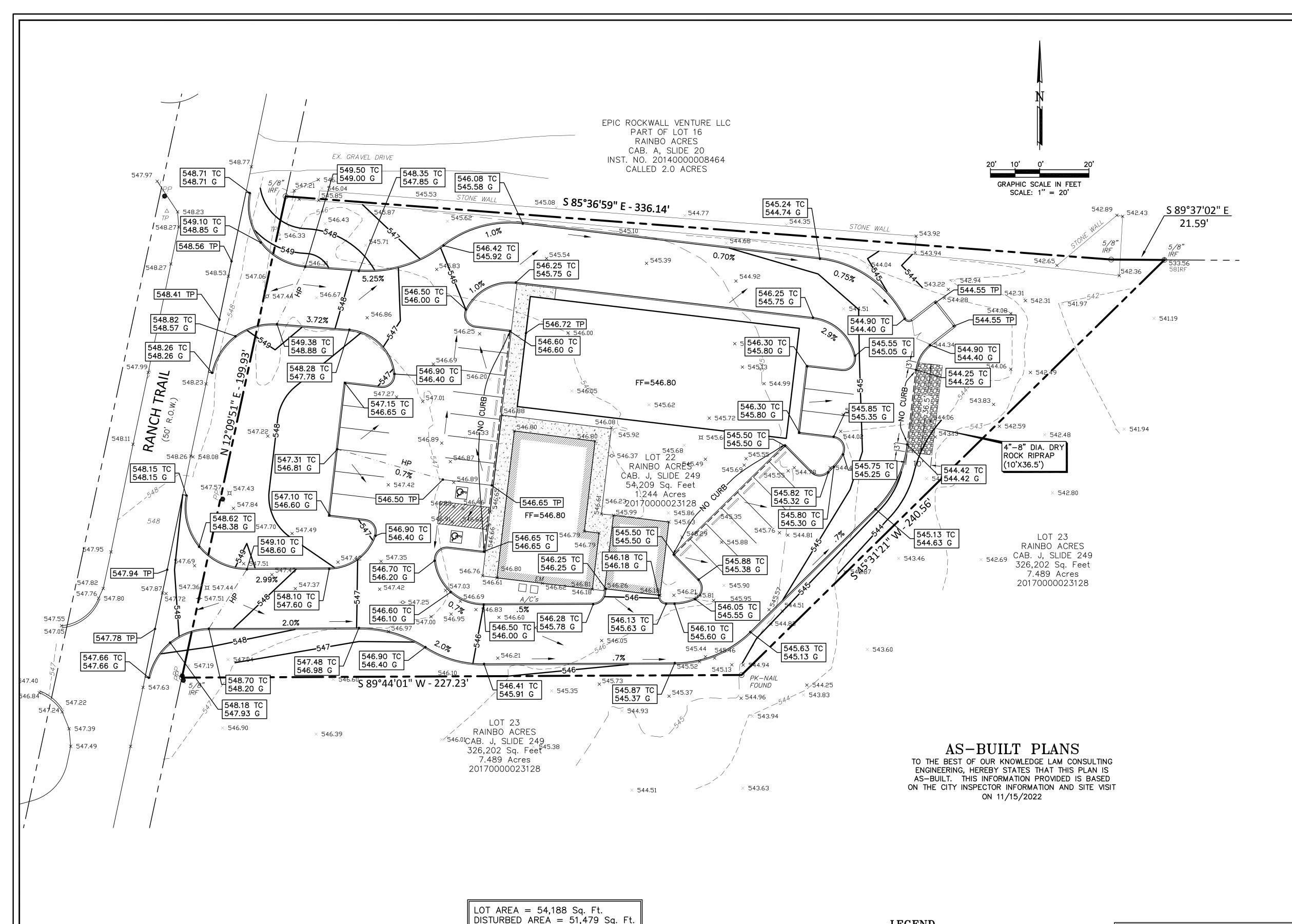
LAM CONSULTING ENGINEERING 6804 WILHELMINA DRIVE SACHSE, TEXAS 75048

Phone (214) 766-1011 www.lamcivil.com Firm #F-9763 CHECK: LCE

DESIGN: LCE SCALE: AS NOTED **DATE:** AUGUST 2019 **PROJECT:** 0643-19 DRAWN: CTL

RECORD DRAWINGS. THE ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN ON THIS DRAWING. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES





GRADING NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY'S PLANS AND SPECIFICATIONS, EXCEPT AS NOTED HEREIN AND APPROVED BY THE CITY AND NCTCOG 4TH EDITION.

- 2. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEAN-OUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
- 4. DRAINAGE SHOULD BE MAINTAINED AWAY FROM THE FOUNDATIONS, BOTH DURING AND AFTER CONSTRUCTION.
- 5. THE SUBGRADE IN AREAS TO BE FILLED SHOULD BE STRIPPED OF VEGETATION AND ANY MAJOR ROOT SYSTEMS. IT SHOULD THEN BE PROOFROLLED WITH SHEEPSFOOT ROLLER. ANY SOFT PUMPING AREAS SHOULD BE UNDERCUT AND PROPERLY BACKFILLED. THE SUBGRADE SHOULD THEN BE SCARIFIED TO A MINIMUM +2 PERCENTAGE POINTS ABOVE THE SOIL'S OPTIMUM MOISTURE DETERMINED BY THAT TEST.
- 6. ALL BACKFILL SHALL BE COMPACTED TO 95% PROCTOR DENSITY. BACKFILL SHOULD BE STRIPPED OF VEGETATION AND ANY MAJOR ROOT SYSTEMS. IT SHOULD THEN BE PROOFROLLED WITH SHEEPSFOOT ROLLER. ANY SOFT PUMPING AREAS SHOULD BE UNDERCUT AND PROPERLY BACKFILLED. THE BACKFILL SHOULD THEN BE SCARIFIED TO A MINIMUM +2 PERCENTAGE POINTS ABOVE THE SOIL'S OPTIMUM MOISTURE DETERMINED BY THAT TEST. THE FILL MATERIALS SHOULD THEN BE SPREAD IN LOOSE LIFTS, LESS THAN 8 INCHES THICK, AND UNIFORMLY COMPACTED TO THE SAME CRITERIA. IF FILLING IS SUSPENDED AND THE SUBGRADE BECOMES DESICCATED OR RUTTED, IT SHOULD BE REWORKED PRIOR TO PLACEMENT OF A SUBSEQUENT LIFT. ALL FILL TO BE COMPACTED USING A SHEEP FOOT ROLLER.
- 7. COMPACTION TEST SHALL BE DONE FOR EACH 8" OF FILL, BUT NOT LESS THAN ONE TEST FOR EVERY CUBIC YARDS, OR MORE FREQUENTLY IF REQUIRED BY THE SOILS ENGINEER.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS INCURRED FOR THE INSPECTION AND TESTING OF SOILS DUE TO FAILURE TO COMPLY WITH THE MINIMUM REQUIREMENTS OF THE SOILS REPORT.
- 9. ALL PROPOSED SPOT SHOTS ARE TOP OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED
- 10. ALL DISTURBED AREAS SHALL BE STABILIZED WITH BROADCAST SEED AND FERTILIZER UPON COMPLETION OF GRADING AND PAVING. CONTRACTOR SHALL PROVIDE WATER AS NECESSARY TO ESTABLISH PERMANENT VEGETATION. 75%-80% OF ALL DISTURBED AREA TO HAVE 1" TALL ESTABLISHED GRASS PRIOR TO ENGINEERING ACCEPTANCE. ALL RIGHT-OF-WAYS TO BE SODDED.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY TUAN P. LAM, P.E. 86968 ON 10/16/19. ALTERATION OF A SEALED DOCUMENT WITHOUT THE PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

GRADING PLAN

RAINBO ACRES - LOT 22 R.D. MOORMAN, INC. 259 RANCH TRAIL ROCKWALL, TEXAS 75032



LAM CONSULTING ENGINEERING 6804 WILHELMINA DRIVE SACHSE, TEXAS 75048 Phone (214) 766-1011 www.lamcivil.com

Firm #F-9763 DESIGN: LCE CHECK: LCE SCALE: AS NOTED DATE: AUGUST 2019 DRAWN: **PROJECT:** 0643-19 CTL

LEGEND

FINISHED GRADE ELEVATION 450.00 FG TOP OF PAVING ELEVATION TOP OF CURB ELEVATION 450.00 TC 450.00 G GUTTER ELEVATION EXISTING CONTOUR PROPOSED CONTOUR

PROPOSED GRADE HIGH POINT PROPOSED FLOW ARROW

PROPOSED VALLEY GUTTER

Site Benchmark: A railroad spike in power pole near the north side of the drive for this site. Elevation = 548.92

Bench Mark: Benchmark is the City of Heath Monument

Posted Elevation = 532.13

COH-5 an aluminum disk stamped (City of Heath, Control

Monument, Station No. 5, in the top of a curb inlet, on the

north side of Country Club west of Horizon Road (FM 3097).

FOR ADEQUACY OR ACCURACY OF DESIGN. SURVEY INFORMATION ON THIS DRAWING WAS PROVIDED BY OTHERS. LAM CONSULTING ENGINEERING IS NOT RESPONSIBLE FOR THE ACCURACY OF THE

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN

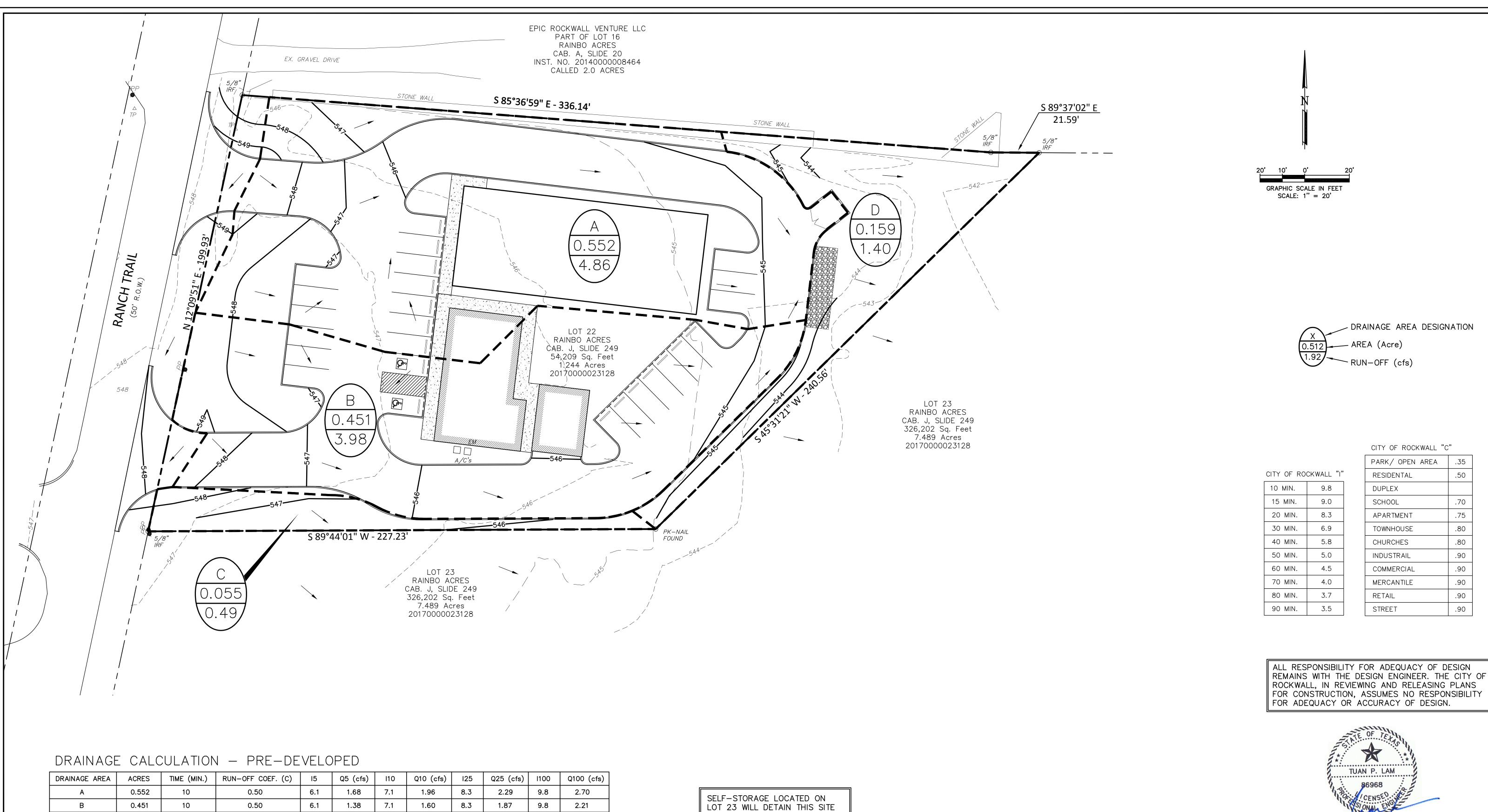
ROCKWALL, IN REVIEWING AND RELEASING PLANS

REMAINS WITH THE DESIGN ENGINEER. THE CITY OF

FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY

THE INFORMATION SHOWN ON THIS PLAN IS FROM RECORD DRAWINGS. THE ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN ON THIS DRAWING. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES AND CONTACT ALL UTILITY COMPANIES 48 HRS PRIOR TO ANY EXCAVATION. 1-800-DIG TESS

TOPOGRAPHIC MAPPING NOR BENCHMARK DATUM.



0.055 0.50 0.17 7.1 0.20 8.3 0.23 9.8 0.27 6.1 0.159 0.50 6.1 0.49 7.1 0.57 8.3 0.66 9.8 0.78

DRAINAGE CALCULATION - POST DEVELOPED

DRAINAGE AREA	ACRES	TIME (MIN.)	RUN-OFF COEF. (C)	15	Q5 (cfs)	l10	Q10 (cfs)	125	Q25 (cfs)	I100	Q100 (cfs)
A	0.552	10	0.90	6.1	3.03	7.1	3.52	8.3	4.12	9.8	4.86
В	0.451	10	0.90	6.1	2.48	7.1	2.88	8.3	3.37	9.8	3.98
С	0.055	10	0.90	6.1	0.30	7.1	0.35	8.3	0.41	9.8	0.49
D	0.159	10	0.90	6.1	0.87	7.1	1.02	8.3	1.19	9.8	1.40

'S STORM DRAINAGE PER LETTER DATED AUGUST 21, 2019

> AS-BUILT PLANS TO THE BEST OF OUR KNOWLEDGE LAM CONSULTING ENGINEERING, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON THE CITY INSPECTOR INFORMATION AND SITE VISIT ON 11/15/2022

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RAINBO ACRES - LOT 22

R.D. MOORMAN, INC. 259 RANCH TRAIL ROCKWALL, TEXAS 75032

TUAN P. LAM

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED

THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

DRAINAGE AREA MAP

BY TUAN P. LAM, P.E. 86968 ON 10/16/19. ALTERATION OF A SEALED DOCUMENT WITHOUT THE PROPER NOTIFICATION TO



LAM CONSULTING ENGINEERING 6804 WILHELMINA DRIVE SACHSE, TEXAS 75048 Phone (214) 766-1011 www.lamcivil.com

DRAINAGE AREA DESIGNATION

CITY OF ROCKWALL "C"

.50

.90

.90

PARK/ OPEN AREA

RESIDENTAL

DUPLEX

SCHOOL

APARTMENT

TOWNHOUSE

CHURCHES

INDUSTRAIL

COMMERCIAL

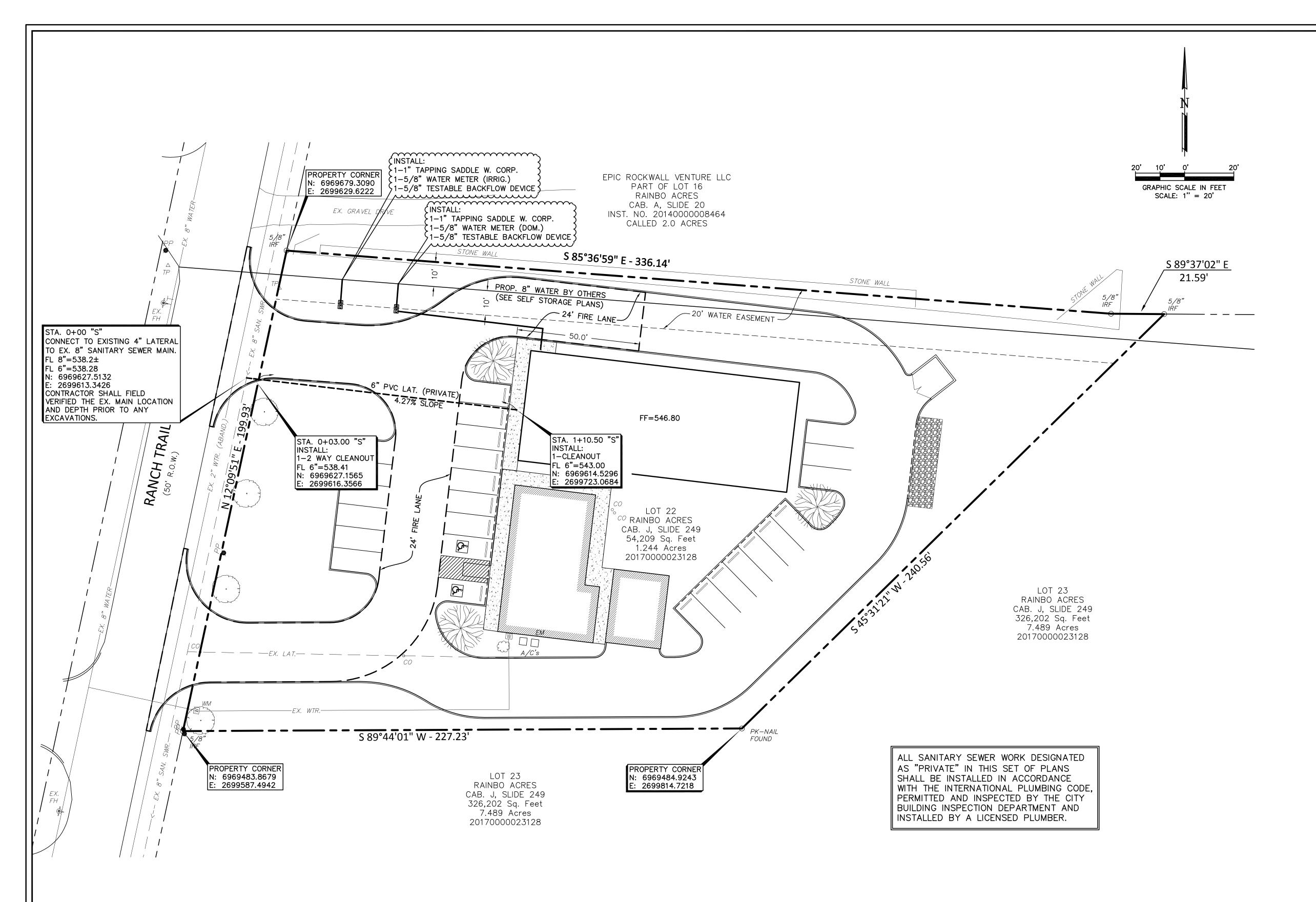
MERCANTILE

RETAIL

STREET

AREA (Acre)

		Firm #F-976	3	
DESIGN:	LCE	CHECK: LCE	SCALE: AS NOTED	6
DRAWN:	CTL	DATE: AUGUST 2019	PROJECT: 0643-19	O OF



WATER & SANITARY SEWER NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY'S STANDARDS AND SPECIFICATIONS.

- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH.
- 3. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC INFRASTRUCTURE IN THE CONSTRUCTION OF THIS PROJECT.
- 5. ANY UTILITY INSTALLED OUTSIDE OF AN EASEMENT SHALL BE INSTALLED BY A PLUMBER AND INSPECTED BY BUILDING DEPT.
- 6. BACKFILL FOR UTILITY LINES SHOULD BE CAREFULLY PLACED SO THAT THE UTILITY WILL BE STABLE. WHERE UTILITY LINES CROSS THE PARKING LOT, THE TOP 6" SHOULD BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THAT UNDESIRABLE FILL IS NOT USED.
- 7. IF ROCK IS ENCOUNTERED IN THE TRENCH, ROCK SPOIL SHALL NOT BE USED IN THE UPPER 1.5 FEET OF THE TRENCH. THE UPPER 1.5 FEET OF THE TRENCH IS TO BE BACKFILLED ONLY WITH QUALITY TOPSOIL.
- 8. ALL WATER MAINS SHALL MEET AWWA C-900, PVC DR-14 CLASS 200. ALL FITTINGS SHALL MEET ASTM F477 SPECIFICATIONS.
- 9. ALL DUCTILE IRON FITTINGS SHALL BE OF THE MECHANICAL JOINT TYPE OR SLIP JOINT AND SHALL BE CLASS D, OR CLASS 250 ON SIZES 12" AND SMALLER IN ACCORDANCE WITH A.W.W.A. SPECIFICATION C-110-64 AND C-111-64.
- 10. EMBEDMENT FOR PVC WATER MAIN SHALL COMPLY WITH THE CITY DETAILS AND SPECIFICATIONS.
- 11. ALL WATER METERS TO BE PLACED IN A NON-TRAFFIC AREA.
- 12. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 42", OR SUFFICIENT COVER TO CLEAR OTHER UTILITIES AS MEASURED FROM TOP OF PIPE TO EXISTING GROUND LEVEL OR FINISHED GRADE, WHICHEVER IS GREATER.
- 13. ALL WATER AND SANITARY SEWER MAINS AND SERVICES SHALL HAVE A 10' MIN. LATERAL SEPARATION DISTANCE.
- 14. ALL SANITARY SEWER PIPES AND FITTINGS SHALL MEET ASTM D 3034, PVC SEWER PIPE SDR35. PIPE OVER 10' IN DEPTH, USE ASTM D 2241, PVC PIPE, SDR 26 (160).
- 15. ALL WATER AND SANITARY SEWER TESTINGS SHALL BE ACCOMPLISHED BY A TESTING LAB APPROVED BY THE CITY AND PAID BY CONTRACTOR.
- 16. REFER TO MECHANICAL PLANS FOR EXACT WATER AND SEWER SERVICE LOCATIONS.
- 17. CONTRACTOR TO INSTALL BLUE EMS DISKS ON THE WATER LINE EVERY 250', VALVES, SERVICE CONNECTIONS, AND FIRE HYDRANTS.
- 18. CONTRACTOR TO INSTALL GREEN EMS DISK ON SANITARY SEWER AT SERVICE CONNECTION AND DOUBLE CLEANOUT.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY TUAN P. LAM, P.E. 86968 ON 1/15/20. ALTERATION OF A SEALED DOCUMENT WITHOUT THE PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

UTILITY PLAN

RAINBO ACRES - LOT 22
R.D. MOORMAN, INC.
259 RANCH TRAIL
ROCKWALL, TEXAS 75032



LAM CONSULTING ENGINEERING
6804 WILHELMINA DRIVE
SACHSE, TEXAS 75048
Phone (214) 766-1011

www.lamcivil.com
Firm #F-9763

DESIGN: LCE CHECK: LCE SCALE: AS NOTED

DRAWN: CTL DATE: AUGUST 2019 PROJECT: 0643-19

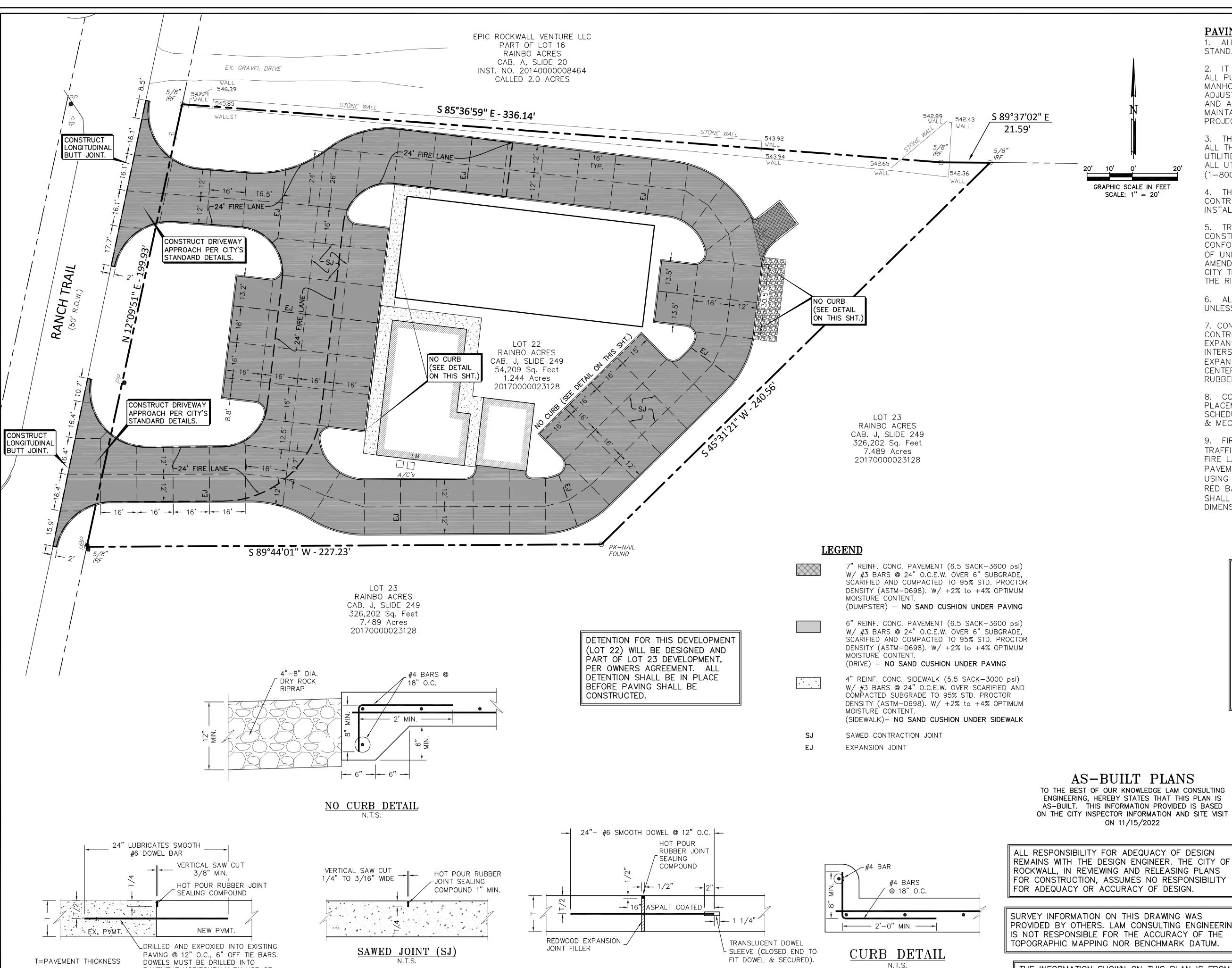
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AS-BUILT PLANS

TO THE BEST OF OUR KNOWLEDGE LAM CONSULTING ENGINEERING, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON THE CITY INSPECTOR INFORMATION AND SITE VISIT ON 11/15/2022



EXPANSION JOINT (EJ)

N.T.S.

PAVEMENT HORIZONTALY BY USE OF

SAWED CONTROL JOINT MUST BE SAWCUT WITHIN THE

FIRST 24 HOURS AFTER THE CONCRETE PAVEMENT IS

OF CONCRETE AT THE CONTRACTOR COSTS.

POURED. FAILURE TO DO SO MAY CAUSE UNCONTROLLED

CRACKS AND WILL RESULT IN REMOVAL AND REPLACEMENT

A MECHANICAL RIG.

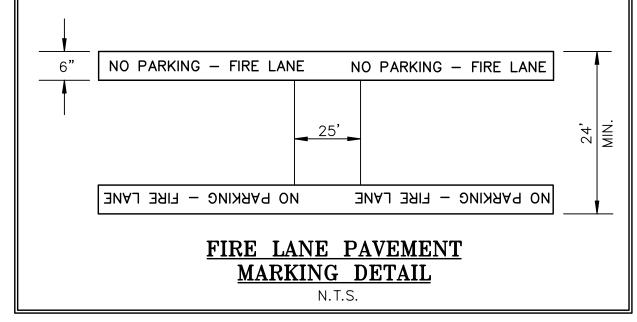
BUTT JOINT

(LONGITUDINAL OR TRANSVERSE)

PAVING NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY'S STANDARDS AND SPECIFICATIONS AND NCTCOG 4TH EDITION.

- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THIS
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL THE APPROPRIATE UTILITY COMPANIES FOR THE LOCATION OF ALL UTILITIES WITHIN THE CONSTRUCTION AREA. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HRS PRIOR TO ANY EXCAVATIONS. DIG TESS (1-800-545-6005)
- 4. THE PAVING CONTRACTOR SHALL COORDINATE WITH THE UTILITY CONTRACTOR TO INSURE ALL CONDUIT FOR IRRIGATION HAS BEEN INSTALLED PRIOR TO PLACEMENT OF PERMANENT PAVEMENT.
- 5. TRAFFIC BARRICADES WILL BE REQUIRED FOR PAVING AND UTILITY CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY. BARRICADES SHALL CONFORM TO THE INSTALLATION SHOWN IN THE LATEST TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS CURRENTLY AMENDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION. CONTACT CITY TRANSPORTATION DEPARTMENT PRIOR TO SETTING BARRICADES IN THE RIGHT OF WAY.
- 6. ALL DRIVE AREAS AND ISLANDS SHALL HAVE 6" CONCRETE CURB, UNLESS OTHERWISE NOTED ON PLANS.
- 7. CONCRETE PAVING SHALL HAVE A CONSTRUCTION JOINT OR SAWED CONTROL JOINT EVERY 15 FEET TRANSVERSELY AND LONGITUDINALLY WITH EXPANSION JOINTS AS SHOWN IN THE DRAWINGS. JOINTS SHALL INTERSECT ALL PAVEMENT EDGES AT 90° INCLUDING RADIUS RETURNS. EXPANSION JOINTS SHALL BE PLACE AT A MAXIMUM SPACING OF 100' CENTER TO CENTER. ALL JOINTS SHALL BE SEALED WITH HOT POURED RUBBER JOINT SEALING COMPOUND.
- 8. CONTRACTOR SHALL INSTALL ALL CONDUITS PRIOR TO THE PLACEMENT OF PAVEMENT. ALL SLEEVES SHOWN ON PLANS SHALL BE SCHEDULE 40 PVC WITH PULLED WIRES & CAPPED. REFER TO LANDSCAPE & MECHANICAL PLANS FOR LOCATIONS AND SIZE OF CONDUITS.
- 9. FIRE LANE PAVEMENT MARKINGS SHALL BE PAINTED LINES OF RED TRAFFIC PAINT, 6" WIDE, TO SHOW THE EXACT BOUNDARY LINES OF THE FIRE LANE. THESE BOUNDARY LINES MAY BE ON THE CURB OR FLAT PAVEMENT. THE LINES SHALL BE MARKED BY PAINTED 4" HIGH LETTERING USING A 1" WIDE STROKE OF WHITE TRAFFIC PAINT ON THE CONTRASTING RED BACKGROUND STATING "NO PARKING - FIRE LANE". THIS MARKING SHALL BE PLACED AT 25' INTERVALS ALONG EACH BOUNDARY LINE -SEE DIMENSIONAL CONTROL PLAN FOR DETAILS AND LOCATION.





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PAVING PLAN

RAINBO ACRES - LOT 22 R.D. MOORMAN, INC. 259 RANCH TRAIL ROCKWALL, TEXAS 75032

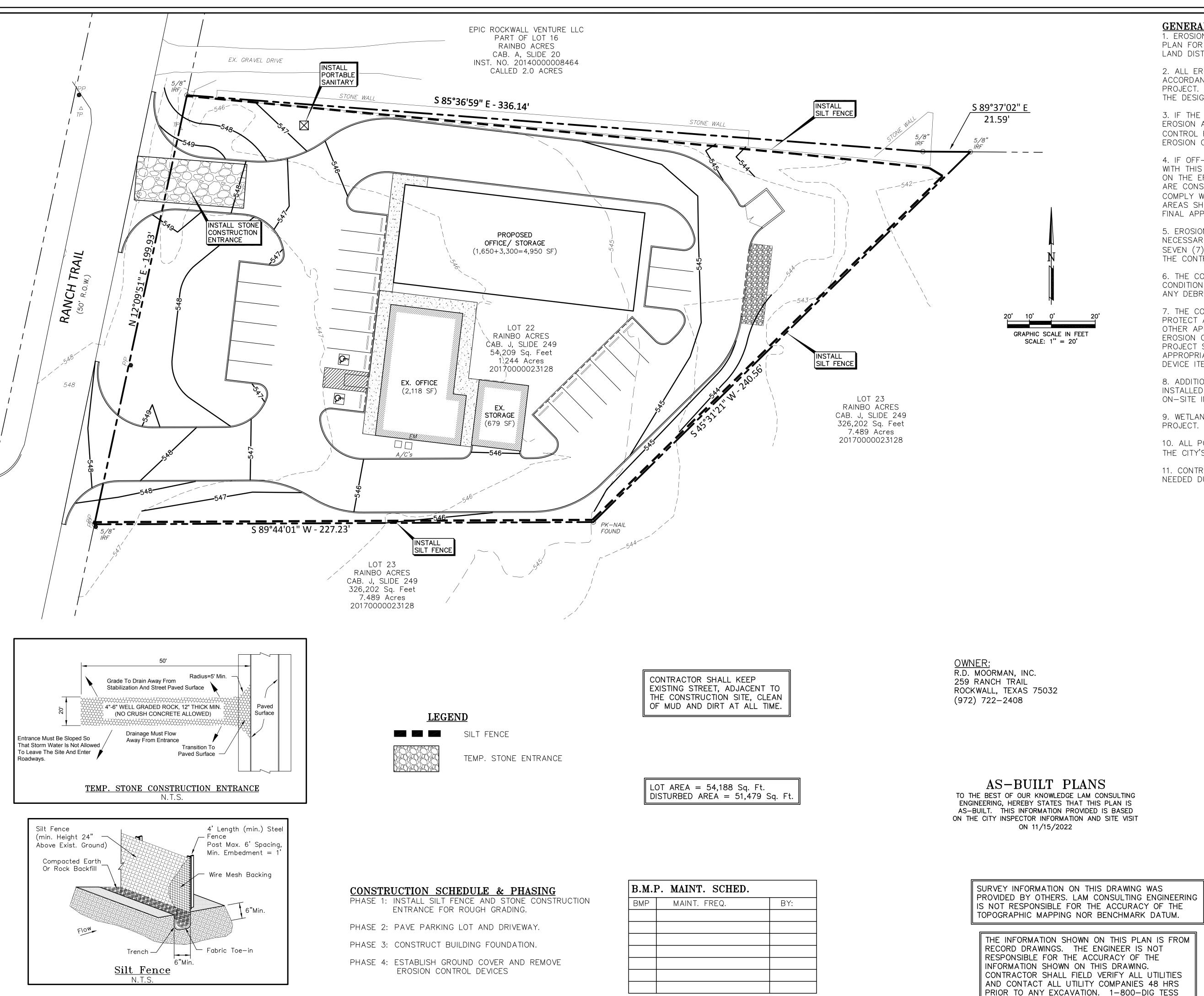


LAM CONSULTING ENGINEERING 6804 WILHELMINA DRIVE SACHSE, TEXAS 75048 Phone (214) 766-1011 www.lamcivil.com

Firm #F-9763 DESIGN: LCE CHECK: SCALE: AS NOTED DATE: AUGUST 2019 **PROJECT:** 0643-19 DRAWN: CTL

PROVIDED BY OTHERS. LAM CONSULTING ENGINEERING

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GENERAL NOTES:

1. EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON THE PROJECT.

2. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY ENGINEERING DIVISION.

3. IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE.

4. IF OFF-SITE SOIL BORROW OR SPOIL SITES ARE USED IN CONJUNCTION WITH THIS PROJECT, THIS INFORMATION SHALL BE DISCLOSED AND SHOWN ON THE EROSION CONTROL PLAN. OFF-SITE BORROW AND SPOIL AREAS ARE CONSIDERED A PART OF THE PROJECT SITE AND THEREFORE SHALL COMPLY WITH THE CITY'S EROSION CONTROL REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH PERMANENT GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.

5. EROSION CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED, IF NECESSARY, AT THE EARLIEST POSSIBLE DATE BUT NO LATER THAN SEVEN (7) CALENDAR DAYS AFTER EACH RAIN. ANY ITEM DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED.

6. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND WILL CLEAN ANY DEBRIS AND SEDIMENT CAUSED BY CONSTRUCTION

7. THE CONTRACTOR SHALL PREVENT EROSION OF THE SITE AND PROTECT ALL DRAINAGE STRUCTURES BY THE USE OF SILT FENCING OR OTHER APPROVED EROSION CONTROL PRODUCTS AS NEEDED. TEMPORARY EROSION CONTROL DEVICES INSTALLED BY THE CONTRACTOR ON THIS PROJECT SHALL ALSO BE REMOVED BY THE CONTRACTOR AT THE APPROPRIATE TIME AS INCIDENTAL TO THE RESPECTIVE EROSION CONTROL DEVICE ITEM.

8. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY THE PROJECT ENGINEER DURING ON-SITE INSPECTIONS.

9. WETLANDS ARE NOT PRESENT ON-SITE NOR ADJACENT TO THIS

10. ALL POLLUTION PREVENTION CONTROL DEVICES SHALL CONFORM TO THE CITY'S EROSION AND SEDIMENT CONTROL MANUAL.

11. CONTRACTOR SHALL ADD OR REMOVE EROSION CONTROL DEVICES AS NEEDED DURING THE CONSTRUCTION PHASES.

> ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY TUAN P. LAM, P.E. 86968 ON 10/16/19. ALTERATION OF A SEALED DOCUMENT WITHOUT THE PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

EROSION CONTROL PLAN

RAINBO ACRES - LOT 22 R.D. MOORMAN, INC. 259 RANCH TRAIL ROCKWALL, TEXAS 75032



LAM CONSULTING ENGINEERING 6804 WILHELMINA DRIVE SACHSE, TEXAS 75048 Phone (214) 766-1011

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CHECK: LCE DESIGN: LCE SCALE: AS NOTED **PROJECT:** 0643-19 DRAWN: DATE: AUGUST 2019 CTL